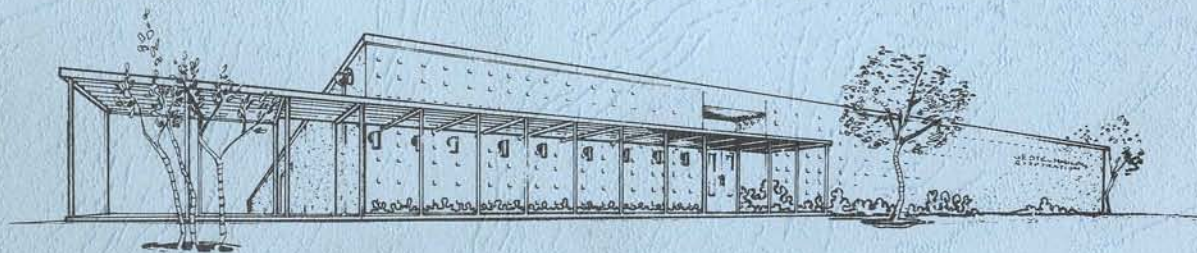


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Bulletin No. 1
January 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No: VT/074
ARPA Order No: 104-60
ARPA Code No: 8100
Contractor: The Geotechnical Corporation
Garland, Texas
Contract No: AF 33(600)-41694

Bulletin No. 1
January 1962

22 May 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at nine of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694 (The Long-Range Seismic Measurements Program). The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin is divided into two sections:

a. Section I, Epicenters, contains data on all of the phases associated with the epicenters reported by the U. S. Coast and Geodetic Survey.

b. Section II, Phases, contains a list of all phases read from the records of the nine stations. The phase list includes the associated phases listed in Section I.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

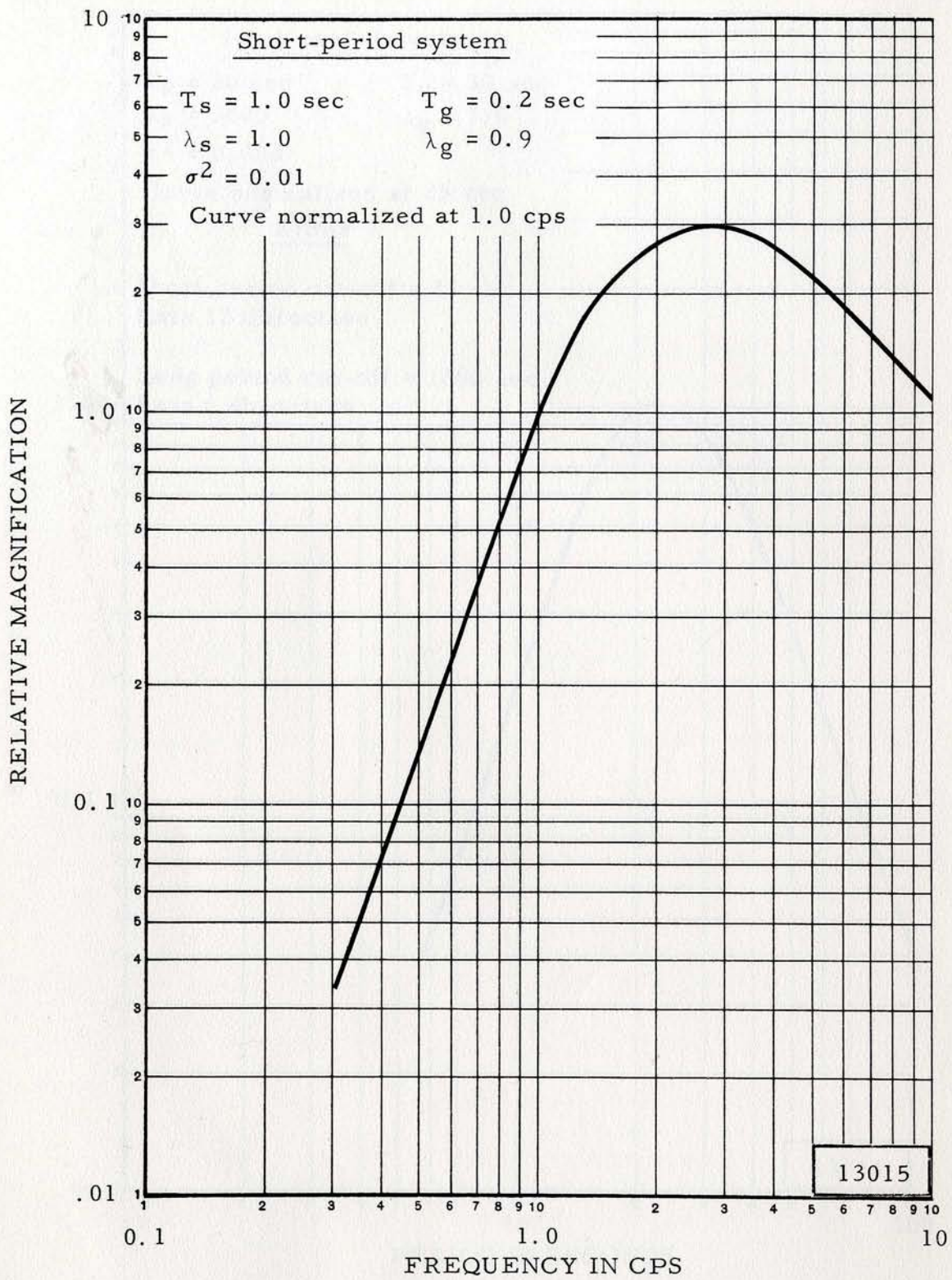


Figure 1. Frequency response of the short-period seismograph system

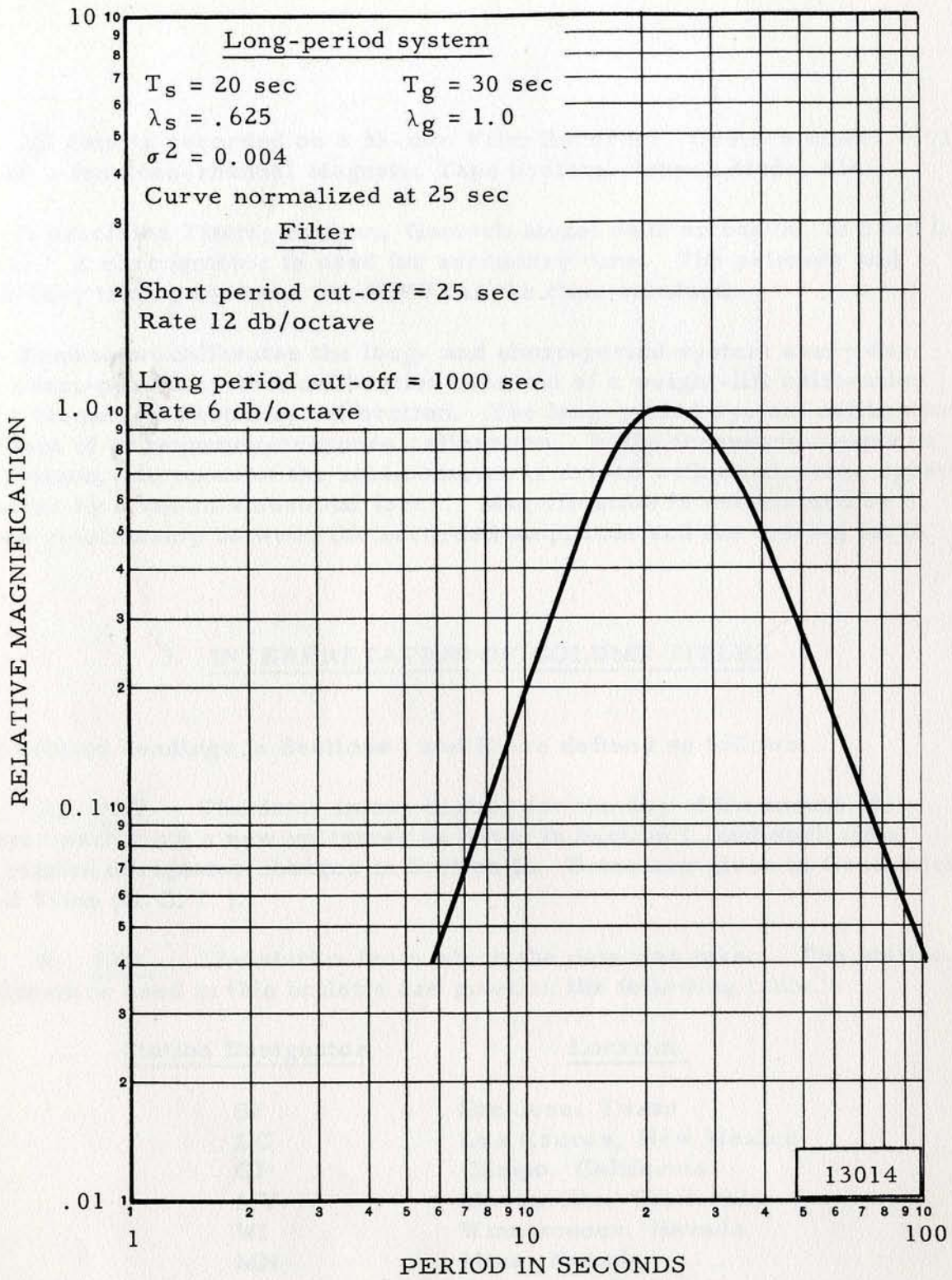


Figure 2. Frequency response of the long-period seismograph system

2.2 All data is recorded on a 35-mm Film Recorder, Geotech Model 1301A, and on a fourteen-channel Magnetic Tape System, Ampex Model 314.

2.3 A precision Timing System, Geotech Model 5400 or 5400A, is used for timing. A chronometer is used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period system every day. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. The long-period system calibration consists of a frequency-response calibration. In the frequency-response calibration, the mass of the seismometer is driven with an electromagnetic actuator by a known sinusoidal force. Magnification is determined by a known relationship between the recorded amplitude and the driving force.

3. INTERPRETATION OF COLUMN TITLES

The column headings in Sections I and II are defined as follows:

A. DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed in Section I, and each time the station designator changes in Section II. Dates are given in Greenwich Civil Time (G. C. T.).

B. STA The station from which the data was taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York

The locations of the stations are shown in figure 3.

C. PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

(1) An "I" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "I" phases.

(2) An "E" (emersio) preceding the phase designates an emergent phase motion, and the direction of the initial break cannot be positively determined.

(3) An "I" or "E" alone designates an unidentified phase of either an impetus or emersio arrival.

D. TIME The arrival time of each phase, given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems.

E. INST The seismograph channel from which the data was taken. The symbols used to designate the seismograph channels are given in the following table:

SZ	Short-Period Vertical
SR*	Short-Period Radial (horizontal)
ST*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

*Refer to Table 1 for Instrument Orientation.

F. PER The period, in seconds, of the phase listed. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

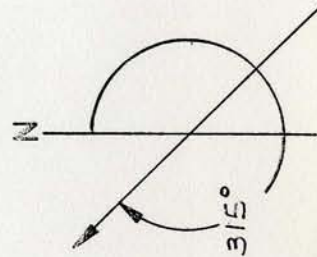
TABLE I

LRSM SITE INFORMATION

Horizontal seismometer orientation
Azimuth from True North
in Degrees*

Site Designation	Site Location	Radial	Trans-verse	Site Coordinates in deg, min, sec	Elevation	Rock Type
SJ TX	San Jose, Texas	127	217	N 27°36'43"	375'	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98°18'46"	5200'	Limestone
CP CL	Campo, California	182	272	N 32°24'08"	3900'	Granite
MV CL	Marysville, California	295	025	W 106°35'58"	2000'	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32°43'44"	5000'	Limestone
MN NV	Mina, Nevada	308	038	W 116°22'16"	5000'	Limestone
FM UT	Fillmore, Utah	058	148	N 39°13'36"	6200'	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121°18'05"	1300'	Granite
DH NY	Delhi, New York	095	185	N 41°21'02"	2140'	Sandstone
				W 117°27'30"		
				N 38°26'10"		
				W 118°08'53"		
				N 39°13'06"		
				W 112°12'25"		
				N 45°45'34"		
				W 88°09'15"		
				N 42°14'39"		
				W 74°53'18"		

*When earth moves in direction shown, trace moves up.



G. AMPL The amplitude of the phase listed in millimicrons of earth displacement. Amplitudes are corrected for instrument response.

H. DIST The distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to 6° . Beyond 6° , calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances given in the phase list, Section II, are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data as reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (H) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS) or
Berkeley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to Vela-Uniform participants and other interested organizations. Requests for information should be mailed to:

Captain N. G. Maddox
AF Technical Applications Center, TD/1
DCS/Operations
Headquarters United States Air Force
Washington 25, D. C.

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	1
01	02 41	06.0	52.3 N 177.9 E H = 26 KM	RAT IS..	ALEUT.	IS.		
	LC	IP	02 50 51.7	SZ	1.0	37	57	
	CP	IP	02 50 06.2	SZ	1.0	29	51	
	MV	EP	02 49 08.7	SZ	0.7	23	43	
		E	02 49 35.	SZ	0.8	17	43	
		EPP	02 50 59.	SZ	1.0	12	43	
	WI	EP	02 49 17.9	SZ	0.9	14	45	
		E	02 50 05.	LZ	32	885	45	
		EPCP	02 50 59.	SZ	1.0	7	45	
		E	02 52 06.	SZ	2.5		45	
		E	02 55 55.	LZ	31	885	45	
		E	02 59 35.	LZ	16	946	45	
		ELR	03 01 34.	LZ	25	5050	45	
	MN	EP	02 49 29.1	SZ	1.0	25	46	
		ES	02 56 12.	LR	25	698	46	
		ELR	03 02 35.	LZ	30	1980	46	
	FM	EP	02 49 52.6	SZ	0.8	13	49	
		E	02 57 00.	LZ	20	330	49	
		E	03 00 42.	LZ	15	517	49	
	NG	EP	02 50 59.8	SZ	0.6	28	58	
		E	03 05 55.	LZ	17	697	58	
		EL	03 11 10.	LZ	30	786	58	
	DH	EP	02 52 00.0	SZ	0.6	76	67	
		ELR	03 11 45.	LZ	30	2255	67	
01	06 49	57.9	51.9 N 177.8 E H = 59 KM	RAT IS..	ALEUT.	IS.		
	LC	EP	06 59 40.8	SZ	1.0	22	57	
	CP	EP	06 58 54.9	SZ	1.0	12	51	
	MV	EP	06 57 57.3	SZ	0.7	12	44	
		EPP	06 59 42.	SZ	1.4	6	44	
	WI	EP	06 58 06.0	SZ	1.0	9	45	
		EP	06 58 06.	LZ	13	395	45	
		E	06 58 52.	LZ	20	253	45	
		EPCP	06 59 44.	SZ	1.0	7	45	
		EPP	07 00 06.	SZ	1.3	11	45	
		EPP	06 59 55.	LZ	35	700	45	
		ELR	07 11 39.	LZ	23	1100	45	
	MN	EP	06 58 16.8	SZ	0.9	8	46	
		ELR	07 11 25.	LZ	30	743	46	
	FM	EP	06 58 41.7	SZ	0.9	7	49	
	NG	EP	06 59 49.1	SZ	0.7	17	58	
		EL	07 18 05.	LZ	40	533	58	
	DH	EP	07 00 48.6	SZ	0.8	41	67	
01	10 17	05.6	51.9 N 177.7 E H = 059 KM	RAT IS..	ALEUT.	IS.		
	LC	IP	10 26 45.8	SZ	1.0	30	57	
	CP	EP	10 26 00.1	SZ	1.0	17	50	
	MV	EP	10 25 03.0	SZ	0.7	24	43	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	2
	WI	EP	10 25 12.0	SZ	0.6	7	45	
		E	10 25 20.	SZ	1.2	12	45	
		E	10 25 24.	SR	1.0	9	45	
		EPCP	10 26 54.	SZ	0.9	3	45	
		EPP	10 27 07.	SZ	1.4	14	45	
		ELR	10 37 17.	LZ	30	590	45	
	MN	EP	10 25 23.0	SZ	0.9	18	46	
		ELR	10 37 00.	LT	25	686	46	
	FM	EP	10 25 47.2	SZ	0.6	5	49	
	NG	EP	10 26 54.0	SZ	0.5	6	58	
	DH	EP	10 27 54.4	SZ	0.7	33	67	
01	12 15 51.2		27.1 S 175.4 W				KERMADEC IS. REGION	
			H = 58 KM					
	LC	EP	12 28 41.4	SZ	1.0	22	88	
	CP	EP	12 28 09.3	SZ	0.8	9	82	
	MV	EP	12 28 16.0	SZ	0.7	14	84	
		E	12 28 27.	SZ	0.9	25	84	
	WI	EP	12 28 33.4	SZ	0.9	13	87	
		E	12 28 45.	SZ	1.2	17	87	
		ELR	12 55 43.	LZ	27	250	87	
	MN	EP	12 28 22.1	SZ	1.0	25	85	
		E	12 28 34.	SZ	1.1	32	85	
		ELR	12 54 05.	LZ	30	496	85	
	FM	EP	12 28 42.7	SZ	0.7	5	89	
		E	12 28 53.	SZ	1.2	20	89	
01	15 31 10.5		22.3 S 171.6 E				LOYALTY IS. REGION	
			H = 83 KM					
	CP	EP	15 43 52.7	SZ	0.8	5	88	
	MV	EP	15 43 50.4	SZ	0.7	12	88	
	WI	EP	15 44 07.6	SZ	1.0	23	92	
	MN	EP	15 43 59.0	SZ	0.9	22	90	
01	23 40 20.3		52.4 N 177.7 E				RAT IS., ALEUT. IS.	
			H = 27 KM					
	LC	EP	23 50 04.6	SZ	0.8	9	57	
	CP	EP	23 49 21.9	SZ	0.8	18	51	
		EL	00 00 32.	LZ	23	8380	51	
	MV	EP	23 48 21.7	SZ	0.8	29	43	
		E	23 48 31.	SZ	0.9	25	43	
		EPP	23 50 08.	SZ	1.5	24	43	
	WI	EP	23 48 33.3	SZ	0.5	4	45	
		EP	23 48 34.	LZ	12	1800	45	
		E	23 48 50.	SZ	0.8	6	45	
		EPP	23 50 20.	SZ	1.5	46	45	
		E	23 51 05.	SZ	2.0		45	
		E	23 54 07.	SZ	2.0		45	
		ES	23 55 15.	LR	26	3500	45	
		ESCS	23 58 18.	LR	28	4250	45	
		ELR	23 59 56.	LR			45	
	MN	EP	23 48 41.7	SZ	1.2	31	46	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	3
		ES	23 55 35.	LR	25	3259	46	
		EL	23 58 58.	LR	20	3990	46	
	FM	EP	23 49 05.9	SZ	0.8	4	49	
		E	23 56 15.	LZ	20	828	49	
	NG	EP	23 50 18.5	SZ	1.0	83	58	
	DH	EP	23 51 13.4	SZ	1.0	66	67	
		E	00 05 00.	LZ	30	4410	67	
02	05 23 38.2		17.8 S 69.8 W				PERU-BOLIVIA BORDER	
			H = 74 KM					
	LC	EP	05 33 49.3	SZ	1.5	48	62	
	CP	EP	05 34 29.5	SZ	1.0	34	68	
	MV	EP	05 35 12.2	SZ	1.1	12	75	
	MN	EP	05 34 59.0	SZ	0.9	22	73	
	FM	EP	05 34 41.6	SZ	0.8	33	70	
		EPCP	05 34 59.	SZ	0.6	12	70	
	NG	EP	05 34 17.7	SZ	0.8	21	66	
		E	05 34 35.	SZ	0.8	62	66	
	DH	EP	05 33 42.8	SZ	0.7	58	61	
02	05 52 45.1		20.1 S 175.1 W				TONGA IS.	
			H = 25 KM					
	MV	EP	06 04 42.6	SZ	0.8	1	78	
	MN	EP	06 04 50.5	SZ	0.9	14	79	
		EL	06 30 52.	LZ	20	220	79	
	FM	EP	06 05 14.1	SZ	0.7	4	84	
02	11 47 31.0		21.8 S 169.8 E				LOYALTY IS. REGION	
			H = 56 KM					
	CP	EP	12 00 22.3	SZ	0.8	4	89	
	MV	EP	12 00 19.4	SZ	0.8	6	89	
	MN	EP	12 00 28.2	SZ	0.8	6	91	
		ELR	12 28 45.	LZ	30	603	91	
02	12 22 58.7		80.0 N 24.3 E				SVALBARD REGION	
			H = 48 KM					
	LC	EP	12 33 36.9	SZ	0.8	5	65	
	CP	EP	12 33 41.2	SZ	0.8	5	66	
	MV	EP	12 32 59.6	SZ	1.2	40	60	
	MN	EP	12 33 04.1	SZ	1.2	24	60	
		EL	12 51 14.	LR	40	5150	60	
	FM	EP	12 32 54.1	SZ	1.3	12	59	
	NG	EP	12 31 44.5	SZ	0.9	40	49	
		EL	12 43 05.	LZ	20	197	49	
	DH	ELQ	12 43 25.	LR	25	1985	50	
02	19 03 06.5		19.3 N 145.3 E				MARIANA IS.	
			H = 178 KM					
	MV	EP	19 15 01.5	SZ	0.6	11	81	
	MN	IP	19 15 17.3	SZ	0.8	32	84	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	4
	FM	EP	19 15 37.3	SZ	0.6	14	88	
03	02 05	12.3	22.2 S 168.7 E H = 118 KM	LOYALTY IS. REGION				
	CP	EL	02 45 47.	LZ	16	308	90	
03	06 49	50.9	21.7 S 170.0 E H = 120 KM	LOYALTY IS. REGION				
	CP	EP	07 02 38.6	SZ	1.0	9	90	
		EL	07 30 35.	LZ	25	195	90	
	MV	EP	07 02 35.8	SZ	0.7	8	90	
		EPP	07 06 08.	SZ	0.7	5	90	
	WI	EP	07 02 52.4	SZ	0.7	5	93	
		ELR	07 31 28.	LZ	1.8	263	93	
	MN	EP	07 02 45.2	SZ	0.7	8	92	
		EPP	07 06 19.	SZ	0.9	11	92	
		EL	07 30 25.	LZ	30	257	92	
03	06 53	15.2	18.7 S 71.0 W H = 77 KM	NEAR PERU COAST				
	CP	EP	07 04 22.6	SZ	1.2	9	70	
	WI	EP	07 04 44.4	SZ	0.7	15	74	
		E	07 05 02.	SZ	0.7	8	74	
		E	07 06 27.	SZ	0.7	4	74	
	MN	EP	07 04 35.0	SZ	1.0	8	73	
	FM	EP	07 04 18.8	SZ	0.7	20	70	
		EL	07 35 00.	LZ	20	506	70	
03	11 20	53.5	20.6 S 174.4 W H = 32 KM	TONGA IS. REGION				
	LC	EP	11 33 22.7	SZ	1.0	12	84	
		EL	11 58 12.	LZ	25	429	84	
	CP	EP	11 32 47.0	SZ	0.7	4	77	
		ELR	11 59 15.	LZ	18	643	77	
	MV	EP	11 32 50.6	SZ	0.7	5	78	
	WI	EP	11 33 10.9	SZ	0.9	7	81	
		ELR	12 02 08.	LZ	16	657	81	
	MN	EP	11 32 57.6	SZ	1.0	18	79	
		ELR	12 00 18.	LZ	20	439	79	
	FM	EP	11 33 20.8	SZ	0.6	5	84	
		EL	12 01 20.	LZ	20	506	84	
03	13 36	20.5	9.9 S 159.7 E H = 75 KM	SOLOMON IS. REGION				
	CP	EP	13 49 15.1	SZ	1.0	6	91	
		ELR	14 19 04.	LZ	20	524	91	
	WI	EP	13 49 19.7	SZ	0.7	5	92	
	MN	EP	13 49 14.0	SZ	1.1	9	90	
03	17 53	05.3	52.2 N 177.5 E H = 68 KM	RAT IS., ALEUT. IS.				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	5
	LC	IP	18 02 48.3	SZ	0.8	22	57	
		EL	18 23 20.	LZ	15	339	57	
	CP	EP	18 02 02.4	SZ	0.7	7	51	
		EL	18 15 33.	LZ	16	410	51	
	MV	EP	18 01 04.0	SZ	0.7	17	44	
		E	18 04 08.	SZ	0.7	12	44	
	WI	EP	18 01 14.2	SZ	0.9	10	45	
		ELR	18 13 30.	LZ	24	1043	45	
	FM	EP	18 01 49.1	SZ	0.7	10	49	
		EL	18 12 35.	LZ	20	760	49	
	DH	EP	18 03 55.6	SZ	0.7	60	67	
		EL	18 24 40.	LR	30	1410	67	
03	23 50	28.8	21.5 S 169.9 E H = 75 KM	LOYALTY IS. REGION				
	CP	EP	00 03 20.5	SZ	1.0	9	90	
		EP	00 03 21.	LZ	20	458	90	
	MV	EP	00 02 57.1	SZ	0.7	9	85	
	WI	EP	00 03 34.1	SZ	1.0	11	92	
		ESKS	00 16 03.	LT	22	1530	92	
		ELR	00 32 26.	LZ	34	1215	92	
	DH	EL	00 45 29.	LR	25	1069	124	
04	04 16	01.7	35.1 N 138.9 E H = 178 KM	NEAR HONSHU, JAPAN				
	LC	EP	04 27 40.3	SZ	1.0	15	77	
	MV	EP	04 27 29.2	SZ	0.7	19	76	
		E	04 34 34.	SZ	0.7	6	76	
	WI	EP	04 27 37.4	SZ	1.0	39	77	
		E	04 27 45.	SZ	1.0	32	77	
	MN	EP	04 27 44.2	SZ	0.7	22	78	
	FM	EP	04 28 01.8	SZ	1.0	33	82	
	DH	EL	04 58 15.	LT	25	2866	97	
04	04 35	42.6	33.9 N 135.2 E H = 56 KM MAG 6.0 6 BRK	NEAR SHIKOKU, JAPAN				
	SJ	EP	04 49 30.	LZ	11	1442	101	
		EPP	04 53 30.	LZ	14	2040	101	
		ESKS	04 59 55.	LR	23	5140	101	
		EPS	05 02 40.	LR	23	8310	101	
		ESSS	05 11 46.	LR	37	10300	101	
		ELQ	05 18 10.	LT	33	14790	101	
		ELR	05 23 27.	LZ	26	5220	101	
	LC	EP	04 48 49.0	SZ	0.9	64	93	
		E	04 51 33.	SZ	1.1	33	93	
		E	04 57 40.	LZ	30	1903	93	
		E	05 08 52.	LZ	40	11691	93	
		EL	05 19 00.	LR	45		93	
	MV	EP	04 47 39.1	SZ	1.0	103	79	
		EPP	04 50 38.	SZ	1.0	9	79	
	WI	EP	04 47 48.1	SZ	1.2	56	80	
		EP	04 47 48.	LZ	10	4630	80	

DAY STA PHASE TIME INST PER AMPL DIST 6

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	04 47 53.	SZ	1.0	62	80
		E	04 48 16.	SZ	1.4	158	80
		E	04 48 34.	SZ	1.4	140	80
		E	04 49 51.	SZ	1.5	55	80
		EPP	04 50 43.	SZ	1.3	44	80
		EPP	04 50 47.	LZ	14	1579	80
		E	04 53 09.	SR	3.2		80
		ES	04 57 49.	ST	4.7		80
		ES	04 57 50.	LR	18	5560	80
		E	05 00 33.	LZ	22	2370	80
		E	05 02 55.	LZ	28	3070	80
		E	05 06 36.	LZ	31	3245	80
		ELQ	05 09 16.	LT	30	7940	80
		ELR	05 13 10.	LZ	28	8680	80
MN		EP	04 47 53.7	SZ	1.3	180	81
		EP	04 47 55.	LZ	10	8770	81
		EPP	04 50 57.	SZ	1.4	52	81
		ES	04 57 55.	LR	25	7120	81
		ESSS	05 07 00.	LR	30	6630	81
		ELQ	05 09 30.	LT	25		81
		ELR	05 13 40.	LZ	30		81
FM		EP	04 48 10.5	SZ	1.0	192	85
		EPP	04 51 40.	LZ	20	822	85
		ES	04 58 34.	ST	4.5		85
		E	05 07 40.	LZ	33	4415	85
		EL	05 11 45.	LZ	25	2265	85
		ELR	05 16 00.	LZ	27	8775	85
NG		EP	04 48 47.1	SZ	1.0	62	92
		E	04 48 58.	SZ	1.2	102	92
		E	04 59 05.	LZ	16	5870	92
		ESP	05 00 55.	LZ	24	4380	92
		EL	05 18 10.	LZ	30	7880	92

04 21 24 54.5 24.6 N 121.9 E NEAR FORMOSA COAST
H = 38 KM

WI EP 21 38 15.7 SZ 1.0 9 95

05 00 23 32.1 15.5 S 177.7 W FIJI IS. REGION
H = 24 KM MAG 6.2 6.5 BRK

SJ	EP	00 36 27.6	SZ	1.0	78	88
	EP	00 36 30.	LZ	11	1070	88
	ES	00 47 20.	LR	25	8210	88
	ESP	00 48 10.	LZ	17	7520	88
	ESS	00 53 00.	LR	21	6030	88
	E	00 54 32.	LR	20	3962	88
	ESSS	00 56 20.	LR	20	3718	88
	E	00 59 40.	LR	18	4610	88
	EL	01 04 00.	LZ	25		88
MV	EP	00 35 04.2	SZ	0.8	15	74
WI	EP	00 35 40.5	SZ	1.2	48	80
	EP	00 35 41.	LZ	14	1261	80
	E	00 35 47.	SZ	1.2	60	80
	E	00 35 56.	SR	1.2	60	80

DAY STA PHASE TIME INST PER AMPL DIST 7

		E	00 36 07.	SZ	2.0		80
		EPP	00 38 53.	LZ	15	1261	80
		ES	00 45 44.	LT	27	3690	80
		ESS	00 50 50.	LR	20	2355	80
		ESSS	00 54 24.	LR	20	2255	80
		E	00 56 50.	LR	20	3140	80
		ELR	00 59 32.	LZ	33		80
MN		EP	00 35 27.0	SZ	1.3	58	78
		ES	00 45 20.	LT	30		78
		ESS	00 49 55.	LR	25	1870	78
		ELQ	00 55 25.	LR	35	2820	78
		ELR	00 58 28.	LZ	30		78
FM		EP	00 35 51.4	SZ	0.8	2	82
		EL	00 59 00.	LZ	30		82
DH		E	00 58 08.	LR	25	9950	110
		EL	01 06 35.	LR	25	2510	110

05 08 08 07.5 15.5 S 172.5 W TONGA IS. REGION
H = 60 KM

SJ	EP	08 20 35.6	SZ	1.0	39	83
	EP	08 20 37.	LZ	10	1010	83
	ES	08 31 00.	LR	17	4150	83
	E	08 37 00.	LZ	20	2150	83
	E	08 43 15.	LR	30	4180	83
	EL	08 46 36.	LZ	28	5250	83
	EL	08 55 25.	LZ	16	6200	83
MV	EP	08 19 34.1	SZ	1.0	12	74
WI	EP	08 19 53.0	SZ	1.0	12	77
	EP	08 19 57.	LZ	9	2030	77
	E	08 19 57.	SZ	1.2	49	77
	E	08 21 05.	SR	1.5	42	77
	E	08 21 52.	ST	1.5	28	77
	EPP	08 22 40.	SZ	1.5	27	77
	ES	08 29 21.	ST	1.2	11	77
	E	08 29 50.	LT	25	3690	77
	E	08 32 13.	LZ	21	2780	77
	E	08 40 04.	LR	25	3790	77
	ELR	08 42 43.	LZ	33	13450	77
MN	EP	08 19 40.8	SZ	1.0	17	75
	ES	08 29 15.	LT	25	7400	75
	ESS	08 34 00.	LR	20	1610	75
	ELQ	08 39 21.	LR	20	2590	75
	ELR	08 41 21.	LZ	30	17200	75
FM	EP	08 20 05.6	SZ	1.0	23	79
	E	08 25 47.	SZ	5.0		79
	E	08 31 30.	LZ	20	1231	79
	E	08 33 10.	LZ	20	1795	79
	EL	08 41 28.	LZ	22	652	79
	E	08 43 28.	LZ	30	7765	79

05 14 01 41.7 1.6 S 100.0 E NEAR SUMATRA COAST
H = 25 KM

MV EP 14 20 47.1 SZ 0.7 8 127

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	8
	WI	EP	14 20 50.5	SZ	0.9	10	129	
	FM	EP	14 20 58.5	SZ	0.7	4	131	
		EPKS	14 24 24.	ST	2.5		131	
05	23 08	29.9	52.3 N 177.6 E	RAT IS., ALEUT. IS.				
			H = 70 KM					
	MV	EP	23 16 29.6	SZ	0.8	15	44	
	FM	EP	23 17 11.6	SZ	0.7	5	49	
07	01 14	12.5	55.2 N 154.1 W	NEAR KODIAK IS.				
			H = 27 KM					
	SJ	EP	01 22 56.4	SZ	0.5	7	48	
	LC	EP	01 21 48.5	SZ	1.0	18	40	
	MV	EP	01 19 54.3	SZ	0.8	13	27	
		EPP	01 20 38.	SZ	1.8		27	
	WI	EP	01 20 01.4	SZ	0.7		28	
		E	01 20 06.	SZ	0.9	52	28	
		E	01 20 14.	SZ	1.0		28	
		E	01 20 29.	SR	0.8	17	28	
		E	01 20 44.	SZ	0.9	15	28	
		E	01 21 05.	ST	1.3	36	28	
		ELR	01 28 10.	LZ	22	1860	28	
	MN	EP	01 20 16.2	SZ	0.9	12	29	
		ELR	01 28 48.	LZ	25	2420	29	
	FM	EP	01 20 40.6	SZ	0.9	33	32	
	NG	EP	01 22 01.7	SZ	0.5	42	42	
		E	01 22 08.	SZ	0.7	58	42	
07	01 30	34.5	52.0 N 177.8 E	RAT IS., ALEUT. IS.				
			H = 55 KM					
	MV	EP	01 38 34.6	SZ	0.7	9	44	
		EPP	01 40 21.	SZ	1.3	38	44	
	WI	EP	01 38 43.8	SZ	1.1	11	45	
	MN	EP	01 38 55.0	SZ	1.2	22	46	
		EL	01 52 44.	LZ	30	1030	46	
	FM	EP	01 39 19.0	SZ	0.9	5	49	
		EL	01 54 35.	LZ	25	810	49	
07	10 03	12.8	43.4 N 17.4 E	YUGOSLAVIA				
			H = 32 KM					
	LC	EP	10 16 07.0	SZ	1.3	47	89	
	MV	EP	10 16 09.9	SZ	1.2	30	90	
		E	10 16 20.	SZ	0.7	11	90	
		E	10 16 34.	SZ	0.7	8	90	
	WI	EP	10 15 55.3	SZ	1.3	104	87	
		E	10 16 32.	SZ	1.0	24	87	
		EPP	10 19 22.	SZ	1.3	18	87	
		EL	10 40 20.	LZ	25	3740	87	
	MN	EP	10 16 07.6	SZ	0.9	7	89	
		EPP	10 19 39.	SZ	2.0		89	
		E	10 33 55.	LT	30		89	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	9
		ELQ	10 41 55.	LR	40	4120	89	
		ELR	10 46 10.	LZ	40		89	
	FM	EP	10 15 53.5	SZ	1.1	24	86	
		EPP	10 19 14.	SZ	2.0		86	
		EL	10 47 10.	LZ	22	1140	86	
	NG	EP	10 14 21.8	SZ	0.5	12	69	
07	22 00	30.9	37.7 S 71.7 W	CHILE ARGENTINA BORDER				
			H = 90 KM					
	LC	EP	22 12 16.7	SZ	1.0	8	77	
	WI	EP	22 13 20.8	SZ	1.3	11	90	
		EL	22 46 28.	LZ	21	1005	90	
	MN	EP	22 13 08.0	SZ	1.1	3	87	
		ELR	22 42 41.	LZ	25	872	87	
	FM	EP	22 12 55.5	SZ	1.0	6	85	
08	01 00	24.2	18.5 N 70.5 W	DOMINICAN REPUBLIC				
			H = 63 KM	MAG 7.0	7.5 PAS			
	SJ	EP	01 06 07.2	SZ	0.7	95	28	
		EP	01 06 09.	LZ	17	1091	28	
		E	01 07 42.	LZ	12	1120	28	
	LC	IP	01 07 17.4	SZ	1.3	238	36	
		EL	01 19 25.	SZ	2.5		36	
	MV	EP	01 09 04.8	SZ	0.9		49	
		E	01 13 06.	SZ	0.9	61	49	
		E	01 14 36.	SZ	1.5	87	49	
		ES	01 16 09.	ST	4.5		49	
		ESCS	01 18 57.	ST	4.0		49	
		EL	01 27 30.	ST	8.5		49	
	WI	EP	01 08 45.6	SZ	1.3		46	
		EP	01 09 02.	LZ	15		46	
		E	01 09 14.	SR	1.2	249	46	
		E	01 09 39.	SR	1.2	158	46	
		EPP	01 10 37.	LZ	22		46	
		E	01 12 11.	SR	1.5	138	46	
		E	01 15 38.	SR	1.8		46	
		E	01 15 40.	LT	33		46	
		E	01 17 17.	SR	3.0		46	
		ESS	01 18 40.	SR	4.0		46	
		ESS	01 18 50.	LT	27		46	
		EL	01 22 05.	LT	35		46	
		EL	01 24 19.	SR	5.0		46	
	MN	EP	01 08 44.6	SZ	1.4		46	
		EP	01 08 50.	LZ	20	3360	46	
		ES	01 15 35.	LT	30	9250	46	
		E	01 19 00.	LR	15		46	
		ELR	01 22 28.	LZ	50	55100	46	
	FM	EP	01 08 09.6	SZ	1.4	45	42	
		E	01 08 42.	SZ	1.4		42	
		E	01 09 39.	SZ	1.5		42	
		E	01 10 05.	SZ	2.6		42	
		E	01 14 35.	LZ	22	3830	42	
	NG	EP	01 06 38.8	SZ	0.7	24	31	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	10
		E	01 06 54.	SZ	0.6		31	
		E	01 07 01.	SZ	1.1	732	31	
		E	01 07 27.	SZ	1.2	609	31	
	DH	EP	01 05 35.5	SZ	0.7	51	24	
		ES	01 10 05.	LT	30		24	
08	01 34 54.2		19.1 N 70.5 W	DOMINICAN REPUBLIC				
			H = 53 KM					
	LC	EP	01 41 44.8	SZ	1.5	31	36	
	MV	EP	01 43 31.4	SZ	0.8	13	48	
	WI	EP	01 43 14.0	SZ	1.4	40	46	
		E	01 43 24.	SZ	0.8	10	46	
	MN	EP	01 43 12.2	SZ	1.0	17	46	
	FM	E	01 42 53.	SZ	1.0	12	41	
		EP	01 42 37.5	SZ	1.0	6	41	
08	02 05 21.1		18.5 N 70.6 W	DOMINICAN REPUBLIC				
			H = 50 KM					
	LC	EP	02 12 14.5	SZ	1.0	15	36	
	MV	EP	02 14 01.0	SZ	1.0	18	49	
		E	02 14 11.	SZ	1.0	51	49	
	WI	EP	02 13 44.0	SZ	1.0	18	47	
		E	02 13 53.	ST	1.1	41	47	
		EPCP	02 15 25.	SZ	1.0	12	47	
	MN	EP	02 13 42.6	SZ	1.1	21	46	
	FM	EP	02 13 07.7	SZ	1.0	9	42	
		E	02 13 17.	SZ	1.2	62	42	
	NG	EP	02 11 40.9	SZ	0.6	14	31	
	DH	EP	02 10 32.8	SZ	1.0	50	24	
08	05 43 02.2		24.2 S 177.7 W	TONGA IS. REGION				
			H = 133 KM					
	SJ	EP	05 56 03.8	SZ	0.9	47	94	
	LC	IP	05 55 43.4	SZ	1.3	111	89	
		E	05 56 25.	SZ	1.0	40	89	
	MV	EP	05 55 12.7	SZ	1.0	64	83	
	WI	EP	05 55 32.0	SZ	1.1	71	87	
		E	05 55 48.	SZ	1.0	23	87	
		E	05 56 14.	SZ	1.5	37	87	
		E	05 59 51.	SZ	1.3	22	87	
	MN	IP	05 55 20.9	SZ	1.0		84	
	FM	EP	05 55 42.2	SZ	1.1	75	88	
		E	05 55 53.	SZ	0.9	13	88	
		E	05 56 23.	SZ	0.8	8	88	
08	10 44 12.0		3.8 S 77.4 W	PERU-ECUADOR BORDER				
			H = 100 KM					
	SJ	EP	10 51 30.8	SZ	0.8	36	39	
		E	10 51 58.	SZ	0.8	23	39	
	LC	EP	10 52 36.9	SZ	0.7	9	47	
		E	10 53 05.	SZ	0.9	6	47	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	11
	WI	EP	10 54 08.8	SZ	0.8	12	60	
	MN	EP	10 53 59.0	SZ	0.9	10	58	
	FM	EP	10 53 37.8	SZ	0.6	10	55	
		E	10 54 24.	SZ	1.0	9	55	
		EPCP	10 54 42.	SZ	0.8	4	55	
08	17 03 18.9		6.4 S 147.3 E	NEW GUINEA COAST				
			H = 104 KM					
	LC	EPKCP	17 33 17.	SZ	0.6	2	107	
08	22 09 00.5		12.1 N 85.7 W	NICARAGUA				
			H = 104 KM					
	SJ	EP	22 13 25.7	SZ	0.6	81	20	
		E	22 13 35.	SZ	0.7	107	20	
	LC	EP	22 14 44.7	SZ	0.6	2	28	
	MV	EP	22 17 03.9	SZ	0.5	10	45	
	WI	EP	22 16 32.8	SZ	0.9	13	41	
		E	22 16 45.	SZ	0.5	3	41	
		E	22 18 34.	SZ	1.5	18	41	
	FM	EP	22 15 55.3	SZ	0.5	4	36	
10	02 19 57.1		52.9 N 169.1 W	FOX IS.. ALEUT. IS.				
			H = 43 KM					
	LC	EP	02 28 40.5	SZ	1.0	10	49	
	MV	EP	02 26 50.9	SZ	0.7	3	36	
		E	02 27 11.	SZ	0.7	5	36	
		EPCP	02 29 20.	SZ	0.8	4	36	
	WI	EP	02 27 03.3	SZ	1.2	8	37	
		E	02 27 16.	SR	1.2	16	37	
		E	02 28 12.	SZ	1.2	14	37	
		E	02 30 21.	SZ	1.2	14	37	
		EL	02 38 21.	LZ	22	1429	37	
	MN	EP	02 27 13.5	SZ	0.9	2	38	
		EL	02 37 21.	LZ	20	94	38	
	FM	EP	02 28 39.2	SZ	0.5	1	49	
	DH	EP	02 30 03.8	SZ	1.0	69	60	
10	02 55 01.2		17.1 S 68.0 W	PERU-BOLIVIA BORDER				
			H = 208 KM					
	LC	EP	03 04 56.8	SZ	0.7	8	63	
	CP	IP	03 05 38.2	SZ	1.1	34	68	
	MV	EP	03 06 20.7	SZ	0.6	3	75	
	WI	EP	03 06 16.6	SZ	0.8	35	74	
		E	03 06 24.	SZ	0.7	8	74	
		E	03 06 53.	SZ	0.8	11	74	
	MN	EP	03 06 06.9	SZ	0.7	10	72	
	FM	EP	03 05 50.0	SZ	0.6	24	69	
10	06 27 45.2		44.3 N 128.8 W	NEAR OREGON COAST				
			H = 25 KM					

DAY STA PHASE TIME INST PER AMPL DIST 12

CP	EP	06 31 20.1	SZ	1.0	8	15
MV	EP	06 29 40.7	SZ	0.8	4	8
WI	EP	06 30 00.0	SZ	1.0	10	9
	E	06 30 06.	SZ	1.1	22	9
	E	06 30 12.	ST	1.0	12	9
MN	EP	06 30 12.2	SZ	0.9	2	10
FM	EP	06 31 00.9	SZ	1.4	27	14

10 06 28 40.5 44.3 N 128.7 W NEAR OREGON COAST
H = 61 KM MAG 4.7 PAL

LC	EP	06 33 25.5	SZ	2.0		21
CP	EP	06 32 13.5	SZ	1.0	34	15
	EP	06 32 15.	LZ	13	429	15
	E	06 35 24.	LZ	22	4250	15
	EL	06 36 30.	LZ	17	1398	15
MV	EP	06 30 32.5	SZ	1.0	36	8
	E	06 31 03.	ST	1.2	35	8
	EL	06 33 23.	ST	8.5		8
WI	EP	06 30 52.3	SZ	1.0	55	9
	E	06 31 08.	SZ	1.2	71	9
	E	06 31 47.	SZ	1.3	43	9
	E	06 32 13.	SR	1.0	17	9
	E	06 32 48.	LZ	15	1515	9
	E	06 33 02.	SR	1.5	44	9
	E	06 34 00.	SR	2.0		9
	EL	06 33 39.	LZ	22	3930	9
	EL	06 35 01.	SZ	6.5		9
MN	EP	06 31 07.0	SZ	1.2	31	10
	EL	06 32 42.	LT	20	4223	10
FM	EP	06 31 53.3	SZ	2.0		14

10 06 33 56.5 44.3 N 128.8 W NEAR OREGON COAST
H = 25 KM

LC	EP	06 38 41.7	SZ	2.0		21
CP	EP	06 37 30.8	SZ	1.0	8	15
MV	EP	06 35 51.2	SZ	1.0	9	8
WI	EP	06 36 11.8	SZ	1.0	17	9
	E	06 36 39.	SR	1.0	17	9
	E	06 38 07.	SZ	1.3	25	9
FM	EP	06 37 14.9	SZ	2.5		14

11 02 54 10.8 51.6 N 176.9 E RAT IS.. ALEUT. IS.
H = 53 KM

SJ	EP	03 04 56.6	SZ	0.5	7	66
LC	EP	03 03 59.0	SZ	1.0	25	59
CP	EL	03 18 34.	LZ	22	875	51
MV	EP	03 02 16.2	SZ	0.7	15	44
	E	03 02 29.	SZ	1.0	27	44
	E	03 02 36.	SZ	0.9	22	44
	E	03 02 54.	SZ	1.0	24	44
	EPP	03 04 01.	SZ	1.0	12	44
WI	EP	03 02 25.2	SZ	0.9	8	46

DAY STA PHASE TIME INST PER AMPL DIST 13

	E	03 02 36.	SZ	0.8	12	46
	E	03 02 41.	SR	0.8	11	46
	E	03 02 49.	ST	0.8	17	46
	E	03 03 26.	SZ	1.0	12	46
	ELR	03 16 04.	LZ	28	1490	46
MN	EP	03 02 35.4	SZ	1.0	17	47
	ELR	03 16 23.	LZ	25	1256	47
FM	EP	03 03 00.8	SZ	0.4	3	50
	EL	03 16 55.	LZ	15	391	50
	EL	03 18 30.	LZ	21	1160	50
NG	EP	03 04 10.4	SZ	0.6	29	58
	EL	03 26 40.	LZ	25	980	58

11 03 01 33.0 28.1 N 84.8 E NEPAL
H = 38 KM

WI	EP	03 20 07.6	SZ	1.0	5	113
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11 05 05 01.6 43.5 N 17.7 E YUGOSLAVIA
H = 25 KM MAG 5.7 PAS

SJ	EP	05 17 46.	LZ	14	1940	87
	E	05 28 34.	LR	23	4130	87
	EL	05 44 10.	LR	40	10650	87
	ELR	05 48 10.	LZ	30	4580	87
LC	EP	05 17 56.3	SZ	1.0	35	89
	E	05 18 39.	SZ	1.0	15	89
	E	05 30 25.	LZ	15	403	89
CP	EP	05 18 17.5	SZ	1.2	40	94
	E	05 31 55.	LZ	16	946	94
	EL	05 43 42.	LZ	21	1143	94
	ELR	05 48 12.	LZ	22	538	94
MV	EP	05 17 59.2	SZ	0.8	15	90
	E	05 18 23.	SZ	1.1	24	90
WI	EP	05 17 45.3	SZ	1.3	126	87
	EP	05 17 46.	LZ	15	862	87
	E	05 18 15.	SZ	1.0	31	87
	EPP	05 21 01.	SZ	1.5	23	87
	EPP	05 21 12.	LZ	17	592	87
	E	05 22 52.	ST	1.5	21	87
	ES	05 28 25.	LR	21	2620	87
	E	05 40 45.	LZ	24	1263	87
	ELQ	05 43 07.	LT	40	17400	87
	ELR	05 47 12.	LZ	24		87
MN	EP	05 17 57.5	SZ	1.0	15	89
	E	05 18 58.	LZ	20	660	89
	EPP	05 21 27.	SZ	1.2	14	89
	ES	05 28 33.	LT	30	1146	89
	ESS	05 35 05.	LT	40	5238	89
	E	05 41 55.	LZ	25	1909	89
	EL	05 43 35.	LR	40	6384	89
	ELR	05 47 50.	LZ	50	7282	89
FM	EP	05 17 43.8	SZ	0.9	13	87
	E	05 18 10.	SZ	0.8	10	87
	E	05 28 20.	LZ	18	910	87

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	14
	NG	EL	05 40 25.	LZ	25	997	87	
		EP	05 16 09.4	SZ	1.0	69	68	
		E	05 16 36.	SZ	1.0	52	68	
		ESP	05 25 32.	LZ	20	1684	68	
		EL	05 31 40.	LZ	25	2909	68	
	DH	EP	05 15 34.7	SZ	1.4	127	64	
11	06 49 07.6		51.9 N 179.3 W H = 60 KM	ANDREANOF ISLAND				
	SJ	EP	06 59 37.5	SZ	1.0	10	64	
		EP	06 59 39.	LZ	12	1115	64	
		ES	07 08 04.	LR	18	4120	64	
		E	07 15 56.	LT	22	3219	64	
		EL	07 16 32.	LT	35	4660	64	
		EL	07 20 20.	LZ	35	3345	64	
	LC	EP	06 58 37.3	SZ	0.7	12	55	
		E	06 58 46.	SR	1.0	56	55	
		E	06 59 15.	SR	1.3	32	55	
		EL	07 05 18.	LZ	10	1315	55	
	CP	EP	06 57 52.8	SZ	0.6	10	49	
		EL	07 08 49.	LZ	25	1200	49	
		ELR	07 11 41.	LZ	30	4480	49	
	MV	EP	06 56 52.7	SZ	0.8	8	42	
		E	06 57 07.	SR	0.8	35	42	
		EPCP	06 58 51.	SZ	0.8	9	42	
	WI	EP	06 57 02.4	SZ	0.6	15	43	
		E	06 57 13.	SR	0.8	17	43	
		E	06 58 18.	SR	0.8	14	43	
		E	07 01 05.	SZ	1.4	18	43	
		ES	07 03 30.	LT	23	2040	43	
		E	07 06 53.	LZ	19	1413	43	
		ELR	07 09 38.	LZ	26	5470	43	
	MN	EP	06 57 14.1	SZ	0.9	16	45	
		EP	06 57 18.	LZ	15	872	45	
		ES	07 03 50.	LR	25	1871	45	
		ESCS	07 07 07.	LR	20	2106	45	
		EL	07 09 15.	LZ	30	3676	45	
	FM	EP	06 57 38.4	SZ	0.9	34	48	
		E	06 57 48.	SZ	1.0	93	48	
		ES	07 04 48.	SR	3.0	25	48	
		EL	07 08 15.	LZ	21	2340	48	
	NG	EP	06 58 49.7	SZ	0.5	32	57	
		E	07 10 08.	LZ	20	2521	57	
		EL	07 15 55.	LZ	25	2081	57	
	DH	EP	06 59 51.5	SZ	1.0	314	66	
11	23 14 34.3		18.7 S 174.8 W H = 151 KM	TONGA ISLAND REGION				
	MN	EP	23 26 19.9	SZ	1.0	6	78	
12	08 50 31.2		20.2 N 145.9 E H = 103 KM	MARIANA ISLAND				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	15
	LC	EP	09 03 38.3	SZ	0.6	3	93	
	CP	EP	09 02 56.7	SZ	1.0	6	85	
		EL	09 32 11.	LZ	17	221	85	
	WI	EP	09 02 42.4	SZ	0.8	6	82	
		E	09 02 56.	SZ	0.8	12	82	
		E	09 03 42.	ST	1.4	26	82	
		EL	09 30 10.	LZ	20	503	82	
	MN	EP	09 02 44.6	SZ	0.7	5	83	
	FM	EP	09 03 05.0	SZ	0.5	4	87	
12	09 54 42.8		31.9 S 70.2 W H = 24 KM	CHILE ARGENTINA BORDER				
	SJ	EP	10 05 27.4	SZ	0.7	10	66	
	LC	EP	10 06 15.0	SZ	0.9	6	74	
	CP	EP	10 06 52.1	SZ	0.7	6	80	
	WI	EP	10 07 21.2	SZ	0.5	1	86	
		E	10 07 30.	SZ	0.6	2	86	
	FM	EP	10 07 00.8	SZ	0.7	2	82	
		E	10 07 08.	SZ	1.0	18	82	
12	10 55 00.8		52.4 N 177.7 E H = 49 KM	RAT IS., ALEUT. IS.				
	SJ	EP	11 05 41.9	SZ	0.7	10	66	
		EL	11 26 40.	LZ	3.0	1368	66	
	LC	EP	11 04 43.2	SZ	0.8	6	57	
		EL	11 22 50.	LZ	35	1555	57	
	CP	EP	11 03 59.1	SZ	1.0	12	51	
		ELR	11 18 53.	LZ	25	1398	51	
	WI	EP	11 03 11.5	SZ	1.0	11	45	
		EPP	11 04 54.	SZ	2.0		45	
		ES	11 09 54.	LR	25	648	45	
		ESCS	11 13 15.	LR	18	935	45	
		ELR	11 15 10.	LZ	23	3680	45	
	MN	EP	11 03 21.1	SZ	1.0	10	46	
		ES	11 10 05.	LR	20	428	46	
		ELQ	11 14 35.	LT	30	2275	46	
		ELR	11 17 01.	LZ	30	2310	46	
	FM	EP	11 03 45.3	SZ	0.6	5	49	
	DH	EP	11 05 51.9	SZ	1.2	139	67	
12	11 16 13.5		34.6 S 110.7 W H = 52 KM	SOUTH PACIFIC OCEAN				
	SJ	EP	11 26 44.0	SZ	0.5	7	64	
	LC	EP	11 27 03.7	SZ	0.6	4	68	
	CP	EP	11 27 08.2	SZ	1.0	35	69	
		EL	11 48 40.	LZ	20	706	69	
	WI	EP	11 27 58.8	SZ	1.1	50	76	
		E	11 28 18.	SR	1.2	23	76	
		E	11 28 53.	ST	1.0	12	76	
		EL	11 53 02.	LZ	27	647	76	
	MN	EP	11 27 41.0	SZ	1.0	19	74	
		ELR	11 51 30.	LZ	25	1005	74	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	16
	FM	EP	11 27 43.7	SZ	0.6	3	74	
12	13 38	11.6	42.5 N 143.0 E H = 100 KM	HOKKAIDO, JAPAN				
	LC	EP	13 50 26.6	SZ	0.5	3	81	
	WI	EP	13 49 32.2	SZ	1.0	9	73	
	MN	EP	13 49 24.5	SZ	0.7	3	72	
	FM	EP	13 49 42.5	SZ	0.7	4	75	
		E	13 49 58.	SZ	1.0	14	75	
13	00 45	12.8	22.7 S 68.6 W H = 159 KM	NORTHERN CHILE				
	SJ	EP	00 54 47.4	SZ	0.5	15	58	
	LC	EP	00 55 41.4	SZ	0.8	9	66	
	CP	EP	00 56 17.6	SZ	0.7	7	71	
	WI	EP	00 56 56.2	SZ	0.7	9	78	
		E	00 57 28.	SZ	1.0	33	78	
	MN	EP	00 56 47.7	SZ	1.0	10	77	
13	03 04	55.7	19.1 S 177.5 W H = 542 KM	FIJI ISLANDS				
	CP	EP	03 15 59.6	SZ	1.0	8	78	
	WI	EP	03 16 10.4	SZ	0.5	5	80	
13	04 48	37.3	52.3 N 177.4 E H = 49 KM	RAT IS., ALEUT. IS.				
	SJ	EP	04 59 17.8	SZ	0.9	48	66	
	LC	EP	04 58 19.6	SZ	1.0	40	57	
		EPP	05 00 54.	SZ	1.5	24	57	
	CP	IP	04 57 33.9	SZ	0.9	19	51	
		EL	05 11 06.	LZ	18	282	51	
	MV	EP	04 56 36.8	SZ	0.7	34	44	
		EPP	04 58 25.	SZ	1.4	24	44	
		ELQ	05 06 49.	LT	20	795	44	
	WI	EP	04 56 46.2	SZ	1.0	17	45	
		E	04 56 58.	ST	0.9	12	45	
		E	04 57 11.	SR	0.9	10	45	
		EPP	04 58 38.	SZ	1.2	11	45	
		E	05 00 43.	SZ	1.0	7	45	
		ELR	05 09 25.	LZ	21	1083	45	
	MN	EP	04 56 55.9	SZ	0.9	18	46	
		ELR	05 10 37.	LZ	30	505	46	
	FM	EP	04 57 20.9	SZ	0.8	13	49	
13	08 18	18.7	2.9 N 124.8 E H = 25 KM	CELEBES SEA				
	MV	ELR	09 06 44.	LZ	28	369	106	
13	11 05	20.1	37.5 S 178.7 E H = 25 KM	NEW ZEALAND				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	17
	CP	EL	11 56 33.	LZ	22	1412	93	
	MV	EPKPP	11 34 58.	SZ	0.8	4	105	
		ELR	11 49 44.	LZ	25	313	105	
	WI	EPKPP	11 35 07.	SZ	1.1	11	104	
		ELR	11 52 15.	LZ	24	585	104	
	MN	ELR	11 50 38.	LZ	25	321	97	
13	11 41	10.1	15.1 S 174.0 W H = 25 KM	TONGA ISLAND REGION				
	LC	EP	11 53 21.0	SZ	1.0	25	79	
	WI	EP	11 53 02.6	SZ	1.3	40	77	
		E	11 53 24.	SR	1.4	18	77	
	MN	EP	11 52 50.8	SZ	1.2	43	75	
	FM	EP	11 53 16.4	SZ	0.5	7	79	
14	07 24	47.6	43.1 N 145.1 E H = 30 KM	HOKKAIDO, JAPAN				
	MN	EP	07 35 57.1	SZ	0.8	3	70	
		E	07 36 16.	SZ	0.9	3	70	
	FM	EP	07 36 28.4	SZ	0.5	2	75	
14	09 17	21.7	7.5 S 158.6 E H = 49 KM	SOLOMON ISLAND				
	MV	EP	09 30 06.2	SZ	1.0	19	88	
	WI	EP	09 30 22.0	SZ	1.0	12	91	
	MN	EP	09 30 16.3	SZ	1.0	12	90	
	FM	EP	09 30 37.9	SZ	0.6	3	95	
14	10 37	32.3	9.6 S 160.0 E H = 100 KM	SOLOMON ISLAND				
	WI	EP	10 50 28.5	SZ	0.7	7	91	
		E	10 50 35.	SZ	1.0	10	91	
	MN	EP	10 50 21.5	SZ	1.0	8	90	
14	13 34	02.8	44.9 N 140.8 E H = 193 KM	NEAR HOKKAIDO, JAPAN				
	MV	EP	13 44 47.5	SZ	0.8	10	69	
	WI	EP	13 44 53.1	SZ	1.1	26	70	
		E	13 44 58.	SZ	1.1	28	70	
		E	13 45 51.	SZ	1.0	8	70	
	MN	EP	13 45 02.1	SZ	1.0	23	71	
	FM	EP	13 45 19.2	SZ	1.0	19	74	
		E	13 46 16.	SZ	0.8	7	74	
		EPP	13 48 10.	SZ	1.8		74	
15	08 22	15.9	13.0 N 60.5 W H = 78 KM	NEAR VENEZUELA				
	SJ	EP	08 29 44.8	SZ	0.7	30	40	
	LC	IP	08 30 35.8	SZ	0.6	45	46	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	18
		E	08 30 59.	SR	0.8	37	46	
		ESCP	08 35 42.	SZ	1.0	5	46	
		EL	08 44 40.	LZ	30	690	46	
CP		EP	08 31 38.4	SZ	0.8	10	54	
		EPCP	08 32 42.	SZ	0.8	12	54	
MV		EP	08 32 12.7	SZ	1.0	37	59	
		E	08 32 32.	SZ	1.0	40	59	
		E	08 42 23.	LZ	22	940	59	
		EL	08 52 26.	LT	25	441	59	
WI		EP	08 31 54.3	SZ	0.9	94	57	
		E	08 32 12.	SZ	0.6	17	57	
		E	08 32 31.	SZ	0.8	22	57	
MN		EP	08 31 54.0	SZ	1.0	24	57	
		EL	08 52 15.	LZ	30	372	57	
FM		EP	08 31 23.2	SZ	0.6	6	53	
NG		EP	08 29 46.1	SZ	0.8	21	40	
		E	08 30 13.	SZ	1.0	51	40	
16	11 35 41.3		30.5 S 177.9 W	KERMADEC ISLAND				
			H = 39 KM	MAG 6.5		PAS		
		SJ	EP	11 49 10.	LZ	17	2850	97
			EPP	11 53 15.	LZ	17	1370	97
			ESKS	11 59 39.	LR	20	6300	97
			ESP	12 01 50.	LZ	21	17100	97
			E	12 02 50.	LZ	19	3010	97
			ESS	12 07 05.	LT	27	10730	97
			ESSS	12 10 40.	LT	30	12520	97
			E	12 12 05.	LR	16	2490	97
			EL	12 19 51.	LZ	30	11800	97
LC		EP	11 48 50.8	SZ	1.0	11	94	
		E	11 49 11.	SR	0.6	5	94	
		EPP	11 52 14.	SZ	3.0		94	
CP		IP	11 48 21.1	SZ	1.0	60	86	
		EP	11 48 23.	LZ	21	3610	86	
		E	11 48 59.	SZ	1.2	55	86	
		EPP	11 51 43.	SZ	1.5		86	
		ES	11 58 56.	LR	23	9790	86	
		EPPS	12 00 06.	LT	26	5820	86	
		E	12 08 02.	LZ	30	2398	86	
		EPCPP	12 11 35.	LZ	27	3380	86	
		ELR	12 14 37.	LZ	30	16590	86	
MV		EP	11 48 26.7	SZ	0.6	10	88	
		EP	11 48 27.	LZ	16	2620	88	
		EPP	11 52 06.	SZ	1.1	16	88	
		EPP	11 52 07.	LZ	17	1273	88	
		ES	11 59 04.	LT	21	1612	88	
		ES	11 59 10.	ST	5.0		88	
		ESP	12 00 14.	LZ	25	3365	88	
		E	12 03 35.	LZ	22	906	88	
		E	12 05 05.	LZ	21	1540	88	
		E	12 08 36.	LZ	28	2118	88	
		ELR	12 15 12.	LZ	23	7580	88	
WI		EP	11 48 44.1	SZ	1.0	17	91	
		EP	11 48 47.	LZ	20	2644	91	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	19
		E	11 49 00.	ST	0.8	13	91	
		E	11 49 13.	ST	1.1	28	91	
		EPP	11 52 27.	LZ	20	1184	91	
		ESKS	11 59 27.	LR	22	7920	91	
		ESP	12 00 53.	LZ	24	7380	91	
		ESS	12 05 57.	LT	22	3199	91	
		ESSS	12 09 40.	LT	23	5460	91	
		E	12 13 25.	LR	35	18540	91	
		ELR	12 17 00.	LZ	31		91	
MN		EP	11 48 32.7	SZ	0.9	21	89	
		EP	11 48 34.	LZ	20	2981	89	
		EPP	11 52 09.	LZ	25	1410	89	
		ESKS	11 59 29.	ST	3.5		89	
		ESKS	11 59 30.	LT	25	9090	89	
		ESS	12 05 28.	LT	25	5989	89	
		ESSS	12 09 00.	LT	30	7761	89	
		ELQ	12 12 09.	LR	40	21773	89	
		ELR	12 15 52.	LZ	30		89	
FM		EP	11 48 52.7	SZ	1.0	15	93	
		E	11 49 12.	SZ	1.0	59	93	
		E	11 49 45.	SZ	1.2	25	93	
		E	11 50 30.	LZ	20	903	93	
		EPP	11 52 40.	LZ	18	1072	93	
		E	11 59 50.	LZ	23	2600	93	
		ESP	12 01 15.	LZ	22	4390	93	
		EL	12 18 10.	LZ	30	12470	93	
NG		EPP	11 54 50.0	LZ	22	1801	112	
		EPS	12 04 35.	LZ	24	6220	112	
		E	12 10 05.	LZ	22	1801	112	
		EL	12 27 10.	LZ	40	15230	112	
16	15 15 01.9		22.2 S 114.5 W	SOUTH PACIFIC OCEAN				
			H = 25 KM					
		LC	EP	15 24 36.2	SZ	1.5	100	55
		CP	EP	15 24 32.7	SZ	0.8	5	55
		MV	EP	15 25 23.6	SZ	1.5	24	62
			ELR	15 44 17.	LZ	19	1360	62
		WI	EP	15 25 34.0	SZ	0.8	8	64
			E	15 25 51.	SZ	1.0	17	64
			ELR	15 45 50.	LZ	30	1800	64
		MN	EP	15 25 14.7	SZ	2.0		61
		FM	EP	15 25 19.1	SZ	0.9	7	62
			E	15 25 46.	SZ	1.4	28	62
16	18 17 29.7		7.8 N 36.0 W	MID ATLANTIC OCEAN				
			H = 30 KM					
		SJ	EP	18 28 52.4	SZ	0.6	81	72
		LC	EP	18 28 42.1	SZ	1.0	20	70
		CP	EP	18 29 23.7	SZ	1.0	4	78
		MV	EP	18 29 38.2	SZ	0.5	2	80
			EL	18 57 21.	LZ	21	260	80
		WI	EP	18 29 33.0	SZ	0.8	4	79
			E	18 29 36.	SZ	1.0	43	79

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	20
	E		18 29 53.	SZ	1.0	23	79	
	E		18 30 07.	SZ	1.2	21	79	
	ELR		18 57 00.	LZ	25	3910	79	
MN	EP		18 29 37.8	SZ	1.4	31	80	
	ELR		18 55 45.	LZ	30	364	80	
FM	EP		18 29 10.2	SZ	0.6	3	75	
17	11 30 28.2		20.8 S 178.4 W	FIJI ISLAND REGION				
			H = 613 KM					
	CP	EP	11 41 39.4	SZ	1.0	7	81	
	WI	EP	11 41 59.1	SZ	0.8	7	84	
	MN	EP	11 41 49.2	SZ	0.8	7	83	
	FM	EP	11 42 10.5	SZ	0.6	3	87	
	E		11 42 26.	SZ	4		87	
17	15 29 06.6		4.3 N 128.3 E	MOLUCCA PASSAGE				
			H = 25 KM					
	LC	EP	15 48 05.	SZ	1.0	8	119	
	MV	ELR	16 17 36.	LZ	25	7000	104	
	WI	EPKPP	15 59 02.	SZ	0.8	3	107	
17	15 43 18.3		3.9 N 126.6 E	MOLUCCA PASSAGE				
			H = 74 KM					
	LC	EPKPP	16 12 24.	SZ	0.8	3	118	
		E	16 13 15.	LZ	15	1092	118	
		E	16 24 00.	LZ	35	1655	118	
17	23 34 32.0		15.0 N 88.0 W	HONDURAS				
			H = 42 KM					
	LC	EP	23 39 47.3	SZ	0.7	5	24	
	CP	EP	23 40 48.7	SZ	0.7	3	31	
	WI	EP	23 41 35.3	SZ	1.0	32	36	
	MN	EP	23 41 25.7	SZ	1.0	24	35	
		E	23 43 38.	SZ	1.0	8	35	
	FM	EP	23 40 58.8	SZ	0.9	33	32	
	DH	EP	23 40 29.9	SZ	1.0	262	29	
		E	23 41 01.	SZ	0.6	34	29	
19	06 01 09.5		51.5 N 161.1 E	NEAR KAMCHATKA				
			H = 29 KM					
	SJ	EP	06 12 51.0	SZ	0.8	46	75	
	LC	EP	06 11 59.0	SZ	1.2	75	66	
	CP	EP	06 11 19.6	SZ	1.2	34	61	
		E	06 12 03.	SZ	1.2	13	61	
		EL	06 29 30.	LZ	30	630	61	
	MV	EP	06 10 27.6	SZ	0.6	21	53	
		EPCP	06 11 32.	SZ	0.6	11	53	
	WI	EP	06 10 34.9	SZ	1.4	256	54	
		E	06 10 44.	SZ	1.0	20	54	
		E	06 11 14.	ST	1.3	63	54	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	21
	MN	IP	06 10 45.9	SZ	1.2	84	56	
		E	06 23 00.	LT	20	242	56	
		ELR	06 28 04.	LZ	33	570	56	
		EL	08 43 52.	LZ	30	244	304	
	FM	EP	06 11 06.2	SZ	1.0	102	59	
		EPCP	06 11 54.	SZ	0.8	9	59	
	NG	EP	06 11 55.7	SZ	0.8	42	66	
	DH	EP	06 12 46.5	SZ	1.0	318	74	
19	13 22 37.0		21.5 S 174.6 W	TONGA ISLAND				
			H = 25 KM					
	LC	EP	13 35 09.7	SZ	0.8	5	85	
	CP	EP	13 34 35.0	SZ	1.0	10	78	
		EL	14 00 40.	LZ	20	308	78	
	MV	EP	13 34 39.7	SZ	1.0	13	79	
		E	13 35 30.	SZ	0.6	8	79	
	WI	EP	13 35 00.0	SZ	1.0	11	83	
	MN	EP	13 34 46.6	SZ	0.8	11	80	
		ELR	14 01 10.	LZ	20	165	80	
	FM	EP	13 35 08.8	SZ	0.4	10	85	
		EL	14 04 12.	LZ	20	303	85	
19	19 38 04.1		38.5 N 22.1 E	GREECE				
			H = 38 KM					
	LC	EP	19 51 25.2	SZ	1.0	8	95	
	CP	ELR	20 26 30.	LZ	25	3660	99	
	WI	EP	19 51 14.2	SZ	1.0	9	93	
		EL	20 23 50.	LZ	33	5100	93	
	MN	EP	19 51 26.4	SZ	0.9	3	96	
		ELQ	20 18 30.	LR	50	2480	96	
		ELR	20 23 52.	LZ	45	2260	96	
	FM	EP	19 51 12.2	SZ	0.6	7	92	
		EL	20 28 00.	LZ	25	900	92	
	NG	EP	19 49 46.6	SZ	0.7	17	75	
19	20 43 24.4		10.8 N 122.4 E	NEGROS, P. I.				
			H = 99 KM					
	CP	EL	21 35 16.	LZ	17	500	108	
	WI	EL	21 33 10.	LZ	25	483	104	
19	21 18 58.5		2.9 S 139.0 E	NEAR NEW GUINEA				
			H = 76 KM					
	CP	EL	22 07 13.	LZ	21	460	104	
	WI	EL	22 06 30.	LZ	20	487	102	
20	20 14 32.7		6.6 S 152.1 E	NEAR NEW BRITAIN				
			H = 33 KM					
	WI	EP	20 28 03.0	SZ	0.8	4	97	
	MN	EP	20 27 53.6	SZ	0.7	5	95	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	22
21	02 51	36.2	43.2 N 16.6 E	YUGOSLAVIA				
			H = 33 KM					
	MN	EP	03 04 30.8	SZ	0.8	3	89	
21	12 51	52.1	17.7 S 178.8 W	FIJI ISLANDS				
			H = 558 KM					
	MV	EP	13 02 58.8	SZ	0.5	8	79	
		E	13 03 53.	SZ	0.7	8	79	
		E	13 04 54.	SZ	3.0		79	
		ES	13 12 09.	ST	2.1		79	
	WI	EP	13 03 17.6	SZ	0.5	17	82	
		E	13 03 39.	SZ	1.0	13	82	
		E	13 05 16.	SZ	1.2	17	82	
	MN	EP	13 03 06.9	SZ	1.8		80	
		E	13 05 05.	SZ	3.0		80	
		E	13 24 41.	LZ	25	794	80	
	FM	EP	13 03 29.8	SZ	0.7	9	85	
		E	13 05 32.	SZ	1.2	18	85	
22	07 26	45.3	52.4 N 100.0 E	LAKE BAIKAL REGION				
			H = 68 KM					
	MV	EP	07 39 01.7	SZ	1.0	22	83	
	WI	EP	07 38 57.9	SZ	1.3	80	82	
	FM	EP	07 39 14.9	SZ	0.6	5	85	
23	15 59	20.4	52.5 N 169.5 W	FOX IS., ALEUT. IS.				
			H = 25 KM					
	SJ	EP	16 09 08.4	SZ	0.5	15	57	
		ES	16 17 05.	LR	15	1800	57	
		E	16 21 35.	LZ	16	760	57	
		ELQ	16 25 10.	LT	20	1630	57	
		EL	16 28 20.	LR	30	2070	57	
	LC	EP	16 08 07.0	SZ	1.0	23	49	
		EPCP	16 09 43.	SZ	1.0	5	49	
	MV	EP	16 06 18.1	SZ	0.6	4	36	
		EPCP	16 08 44.	SZ	0.6	6	36	
		E	16 08 52.	LZ	24	236	36	
		E	16 11 59.	LZ	17	522	36	
		ELQ	16 14 32.	LR	16	745	36	
		ELR	16 15 57.	LZ	26	1745	36	
	WI	EP	16 06 25.8	SZ	0.7	3	36	
		E	16 07 25.	ST	1.0	25	36	
		EPCP	16 08 48.	SZ	0.9	16	36	
		E	16 12 20.	LR	21	877	36	
		E	16 12 50.	SZ	1.3	22	36	
		E	16 14 35.	LZ	20	1671	36	
		ELR	16 16 48.	LZ	21	4565	36	
	MN	EP	16 06 40.9	SZ	1.0	6	38	
		ES	16 12 22.	LR	25	1427	38	
		ELQ	16 15 05.	LT	40	3126	38	
		ELR	16 17 20.	LZ	27	2673	38	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	23
	FM	EP	16 07 02.5	SZ	1.1	15	41	
		E	16 07 37.	SZ	1.2	41	41	
		E	16 16 28.	LZ	18	785	41	
		ELR	16 18 10.	LZ	30	1990	41	
	NG	EP	16 08 21.0	SZ	0.9	71	51	
		E	16 08 32.	SZ	0.8	100	51	
		E	16 19 52.	LZ	23	1002	51	
		EL	16 28 35.	LZ	20	2220	51	
	DH	EP	16 09 30.9	SZ	0.7	116	61	
23	17 31	39.7	44.6 N 12.3 E	NEAR ITALIAN COAST				
			H = 61 KM					
	LC	EP	17 44 11.6	SZ	1.0	20	86	
	WI	EP	17 44 05.1	SZ	1.2	25	84	
	FM	EP	17 44 02.6	SZ	1.0	18	83	
24	03 01	17.3	21.2 S 65.7 W	SOUTHERN BOLIVIA				
			H = 238 KM					
	SJ	EP	03 10 48.5	SZ	0.5	22	58	
		E	03 16 25.	SZ	0.9	48	58	
	LC	EP	03 11 42.7	SZ	0.5	4	67	
	MV	EP	03 13 01.0	SZ	1.0	15	80	
	WI	EP	03 12 56.6	SZ	1.0	104	79	
		E	03 13 51.	SZ	0.8	8	79	
	MN	EP	03 12 48.3	SZ	1.0	23	78	
	FM	EP	03 12 33.1	SZ	0.6	38	75	
		E	03 13 27.	SZ	1.0	11	75	
24	04 46	29.1	15.6 S 167.6 E	NEW HEBRIDES ISLAND				
			H = 133 KM					
	MV	EP	04 58 53.9	SZ	0.6	9	86	
		E	04 59 27.	SZ	0.6	6	86	
	WI	EP	04 59 12.1	SZ	1.5	40	89	
		E	04 59 45.	SZ	1.5	34	89	
		EPP	05 02 44.	SZ	1.5	34	89	
	MN	EP	04 59 03.9	SZ	1.5	59	88	
24	05 28	54.1	59.2 N 154.8 W	ALASKA PENINSULA				
			H = 25 KM					
	SJ	EP	05 37 45.1	SZ	0.6	36	50	
	LC	EP	05 36 41.9	SZ	0.7	9	42	
	WI	EP	05 34 55.9	SZ	0.6	11	29	
		E	05 35 17.	SZ	1.0	15	29	
	MN	EP	05 35 13.8	SZ	0.6	4	31	
		E	05 35 42.	SZ	1.0	6	31	
	FM	EP	05 35 32.3	SZ	0.8	13	33	
	NG	EP	05 36 34.8	SZ	0.6	51	41	
24	15 39	46.0	24.4 N 122.0 E	NEAR FORMOSA				
			H = 58 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	24
	MV	EP	15 52 54.0	SZ	1.0	51	93	
	WI	EP	15 53 03.2	SZ	1.0	43	95	
	MN	EP	15 53 09.2	SZ	1.0	15	94	
		EL	16 25 05.	LZ	35	478	94	
25	01 50	11.4	10.7 S 161.8 E	SOLOMON ISLAND				
			H = 80 KM					
	LC	EP	02 03 30.9	SZ	1.0	10	98	
	MV	EP	02 02 51.0	SZ	1.0	51	87	
		EP	02 02 55.0	LZ	13	306	87	
		E	02 03 58.	SZ	1.0	12	87	
		EPP	02 06 19.	SZ	1.3	25	87	
		E	02 13 38.	LT	18	447	87	
		E	02 15 26.	LT	16	407	87	
		ESS	02 19 07.	LT	25	442	87	
		E	02 25 50.	LT	50	1600	87	
		ELQ	02 26 43.	LT	25	590	87	
	WI	EP	02 03 08.1	SZ	1.3	153	91	
		E	02 03 36.	SR	1.0	35	91	
		E	02 03 59.	ST	1.0	28	91	
		EPS	02 15 00.	LT	23	1190	91	
		ELR	02 31 10.	LZ	20	2292	91	
	MN	EP	02 03 01.1	SZ	1.4	128	90	
		ESS	02 20 08.	LT	22	1230	90	
		EL	02 27 05.	LT	35	2161	90	
		EL	02 30 42.	LZ	35	2687	90	
25	07 26	05.7	15.8 S 69.5 W	PERU-BOLIVIA				
			H = 209 KM					
	SJ	EP	07 34 53.1	SZ	0.8	26	51	
		ESCP	07 39 42.	SZ	0.9	5	51	
		E	07 42 00.	SR	1.0	38	51	
	LC	EP	07 35 50.1	SZ	0.7	9	60	
		ES	07 43 45.	SR	2.5		60	
	MV	EP	07 37 16.5	SZ	0.6	4	73	
	WI	EP	07 37 09.4	SZ	0.7	30	72	
		E	07 38 03.	SZ	0.9	15	72	
		ES	07 46 18.	ST	1.4	21	72	
	MN	EP	07 37 00.4	SZ	0.8	9	70	
	NG	EP	07 36 13.9	SZ	0.6	15	66	
	DH	EP	07 35 37.4	SZ	0.7	101	58	
25	09 25	25.9	12.3 N 142.3 E	MARIANA ISLAND				
			H = 145 KM					
	WI	EP	09 38 10.3	SZ	0.6	2	90	
		E	09 38 34.	SZ	1.0	11	90	
	MN	EP	09 38 18.5	SZ	1.0	3	92	
25	10 03	07.0	4.4 S 152.7 W	LINE ISLAND REGION				
			H = 50 KM					
	SJ	EP	10 13 21.8	SZ	0.8	64	62	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	25
	LC	EP	10 12 53.3	SZ	1.0	45	57	
	MV	EP	10 12 17.6	SZ	1.3	31	53	
		EPCP	10 13 27.	SZ	0.8	7	53	
		E	10 19 55.	LT	21	410	53	
		E	10 24 49.	LR	22	306	53	
		ELR	10 27 14.	LZ	19	294	53	
	WI	EP	10 12 44.1	SZ	1.2	51	56	
		EPCP	10 13 42.	SZ	1.2	37	56	
		ELR	10 30 00.	LZ	15	704	56	
	MN	EP	10 12 25.6	SZ	1.2	39	54	
		EPCP	10 13 32.	SZ	1.0	15	54	
		ELR	10 27 25.	LZ	35	252	54	
	NG	EP	10 14 40.9	SZ	0.6	22	75	
	DH	EP	10 15 31.0	SZ	1.0	136	84	
25	12 14	57.6	23.2 S 179.9 E	NEAR FIJI ISLAND				
			H = 574 KM					
	MV	EP	12 26 28.0	SZ	0.8	6	84	
25	22 36	16.3	18.4 S 177.9 W	TONGA ISLAND				
			H = 617 KM					
	MN	EP	22 47 22.2	SZ	0.8	4	80	
26	05 22	51.3	32.2 N 138.1 E	NEAR HONSHU, JAPAN				
			H = 333 KM					
	LC	EP	05 35 21.3	SZ	1.0	31	91	
	WI	EP	05 34 20.8	SZ	0.9	27	79	
	MN	EP	05 34 26.8	SZ	1.0	14	80	
	FM	EP	05 34 44.5	SZ	0.7	38	84	
		E	05 36 02.	SZ	1.0	7	84	
26	06 09	33.0	23.4 S 176.1 W	TONGA ISLAND REGION				
			H = 214 KM					
	SJ	EP	06 22 14.8	SZ	0.6	25	91	
	LC	EP	06 21 54.0	SZ	1.0	112	87	
	WI	EP	06 21 42.1	SZ	0.9	53	84	
		E	06 22 06.	SZ	0.9	18	84	
	MN	EP	06 21 30.5	SZ	1.0	40	82	
	FM	EP	06 21 52.6	SZ	1.0	38	86	
		E	06 22 18.	SZ	0.9	15	86	
26	08 17	37.0	35.1 N 22.7 E	MEDITERRANEAN SEA				
			H = 32 KM MAG 5.0 5.2 PAL					
	SJ	EP	08 31 09.3	SZ	1.0	60	98	
		EP	08 31 10.	LZ	15	850	98	
		EL	09 00 00.	LR	17	2900	98	
	LC	EP	08 31 03.5	SZ	1.3	58	96	
		EPP	08 35 10.	SZ	2.0		97	
		ESKS	08 41 55.	LT	10	2416	97	
	WI	EP	08 31 03.5	SZ	1.4	108	96	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	26
	E		08 32 25.	ST	1.5	29	96	
	EPP		08 34 53.	SZ	2.0		96	
	E		08 43 59.	LT	22	963	96	
	EL		09 02 30.	LZ	26	9940	96	
MN	EP		08 31 16.7	SZ	1.0	9	99	
	EPP		08 35 15.	SZ	2.1		99	
	ESKS		08 41 57.	LT	12	2034	99	
	EPS		08 44 20.	LT	22	796	99	
	ELQ		09 00 40.	LR	50	4758	99	
	ELR		09 06 27.	LZ	35	2393	99	
FM	EP		08 31 01.5	SZ	1.1	38	96	
	E		08 34 01.	SZ	1.0	7	96	
	E		08 34 40.	SZ	1.1	19	96	
	EPP		08 34 51.	SZ	2.0		96	
	ESKS		08 41 33.	LT	12	748	96	
	ESP		08 43 41.	LZ	12	2244	96	
	EL		08 57 30.	LZ	20	440	96	
	E		09 04 00.	LZ	30	882	96	
	E		09 13 10.	LZ	22	6826	96	
DH	EP		08 29 05.5	SZ	1.0	337	73	
26	14 34 45.7		36.9 S 88.9 W	SOUTH PACIFIC OCEAN				
			H = 60 KM					
	LC	EP	14 46 02.0	SZ	1.0	13	72	
		EL	15 06 25.	LZ	20	685	72	
		E	15 10 00.	LZ	15	535	72	
		E	15 21 05.	LZ	15	1338	72	
	WI	EP	14 47 00.5	SZ	1.4	23	82	
	FM	EP	14 46 44.5	SZ	1.1	19	79	
26	18 40 23.0		10.3 N 90.6 W	NEAR EL SALVADOR				
			H = 45 KM					
	SJ	EP	18 44 35.4	SZ	0.7	20	18	
		EP	18 44 30.	LZ	12	915	18	
		EL	18 50 10.	LR	20	3510	18	
	LC	EP	18 45 56.5	SZ	1.0	56	26	
		EP	18 45 57.	LZ	10	2184	26	
		E	18 47 13.	ST	1.5	33	26	
		ES	18 50 22.	LR	15	2339	26	
	WI	EP	18 47 48.1	SZ	1.5	192	39	
		E	19 00 20.	LT	20	3285	39	
		EL	19 05 00.	LZ	15	3519	39	
	MN	EP	18 47 34.4	SZ	1.4	119	38	
		EL	18 58 05.	LT	30	2400	38	
		ELR	18 59 22.	LZ	30	573	38	
	FM	EP	18 47 10.5	SZ	1.3	65	35	
		E	18 48 25.	SZ	1.2	23	35	
27	23 07 42.1		31.0 N 114.3 W	GULF OF CALIFORNIA				
			H = 22 KM	MAG 5.2	5.5 PAL			
	SJ	EP	23 11 10.8	SZ	1.2	61	15	
		E	23 15 31.	SZ	1.4	127	15	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	27
	LC	EP	23 09 22.5	SZ	0.6	24	7	
		E	23 09 27.	LT	80	18173	7	
	CP	EP	23 08 04.0	SZ	0.9	33	1.3	
		ES	23 08 20.	SR			1.3	
		ES	23 08 22.	LT	13	64300	1.3	
	MV	EP	23 10 11.9	SZ	0.8	6	10	
		EL	23 13 06.	ST	1.7		10	
	WI	EP	23 10 22.6	SZ	1.2	47	11	
		EP	23 10 25.	LZ	12	2295	11	
		E	23 12 28.	LR			11	
		EL	23 13 40.	LZ	14	33400	11	
	MN	EP	23 09 46.5	SZ	1.0	27	8.5	
		EL	23 11 20.	LT	20		8.5	
27	23 26 10.2		30.8 N 114.6 W	GULF OF CALIFORNIA				
			H = 25 KM					
	LC	EP	23 27 51.0	SZ	1.0	18	7	
		EL	23 29 36.	SR	1.0	30	7	
		EL	23 32 12.	SZ	1.0	28	7	
	CP	EP	23 26 41.6	SZ	0.3	3	1.3	
		ES	23 26 58.	SR			1.3	
	MN	EP	23 28 13.7	SZ	1.0	4	8.5	
27	22 02 33.1		44.6 N 130.5 W	NEAR OREGON				
			H = 25 KM					
	LC	EP	22 07 32.0	SZ	0.3	3	23	
	MV	EP	22 04 36.8	SZ	0.5	2	8.5	
		EL	22 06 45.	LT	22	580	8.5	
	WI	EP	22 04 58.6	SZ	1.0	13	10	
28	05 22 55.7		14.0 N 92.3 W	NEAR GUATEMALA				
			H = 133 KM					
	SJ	EP	05 26 16.9	SZ	0.7	10	15	
		E	05 26 23.	SZ	0.6	32	15	
		E	05 26 51.	SZ	0.9	36	15	
		EP	05 26 20.	LZ	10	574	15	
		E	05 52 15.	LR	27	731	15	
	LC	EP	05 27 46.2	SZ	0.6	6	23	
		EP	05 27 50.	LZ	15	420	23	
		E	05 28 07.	SZ	0.9	29	23	
		ES	05 32 05.	LR	15	2573	23	
	CP	EP	05 28 42.5	SZ	0.7	5	29	
	MV	ELR	05 40 22.	LT	35		36	
	WI	EP	05 29 37.8	SZ	0.9	35	35	
		EL	05 45 20.	LZ	18	965	35	
	MN	EP	05 29 23.5	SZ	1.0	19	33	
		ELR	05 39 54.	LZ	40	1356	33	
	FM	EP	05 29 00.5	SZ	1.0	14	31	
		E	05 29 06.	SZ	1.0	17	31	
	DH	EP	05 29 09.5	SZ	1.0	104	32	
28	05 40 08.2		17.2 S 172.0 W	TONGA ISLAND				
			H = 25 KM	MAG 6.2	PAS			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
	SJ	EP	05 52 39.6	SZ	1.2	38	85
		E	05 52 50.	SZ	1.4	57	85
		E	06 03 25.	LR	25	1216	85
		E	06 15 40.	LZ	23	1732	85
		EL	06 18 40.	LZ	30	3220	85
	LC	IP	05 52 15.9	SZ	1.0	150	80
		E	05 53 18.	SR	1.7		80
		ES	06 02 25.	LR	20	1047	80
		EL	06 16 35.	LR	30	1748	80
	CP	IP	05 51 36.3	SZ	1.1	124	73
		E	05 51 46.	SZ	2.0		73
		E	06 07 00.	LZ	30	1770	73
		ELR	06 13 20.	LZ	30	2845	73
	MV	IP	05 51 39.7	SZ	1.5	340	73
		EP	05 51 40.	LZ	22	1045	73
		E	05 51 50.	SZ	1.4	370	73
		E	05 52 40.	SR	1.3	59	73
		EPP	05 54 22.	SZ	1.4	39	73
		ES	06 01 17.	LT	22	1610	73
		E	06 10 20.	LR	26	2540	73
		ELR	06 13 38.	LZ	27	5320	73
	WI	IP	05 52 00.4	SZ	1.5	470	77
		EP	05 52 05.	LZ	20	1288	77
		E	05 52 12.	SR	1.8		77
		E	05 52 38.	SR	1.8		77
		ES	06 01 55.	LR	22	1538	77
		ELR	06 15 25.	LZ	29	7290	77
	MN	IP	05 51 48.9	SZ	1.5	361	76
		EP	05 51 50.	LZ	20	1285	76
		ES	06 01 30.	LT	22	2220	76
		ESSS	06 09 42.	LT	23	1471	76
		EPKPP	06 11 00.	LZ	35	3374	76
		ELR	06 13 47.	LZ	35	9890	76
		EP*P*	06 19 13.	SZ	2.3		76
		EL	08 03 07.	LZ	30	375	76
	FM	EP	05 52 12.8	SZ	1.4	508	79
		E	06 02 10.	LZ	18	900	79
		ESP	06 03 00.	LZ	20	1130	79
		E	06 11 15.	LZ	22	655	79
		E	06 13 40.	LZ	23	1309	79
		ELR	06 15 45.	LZ	33	386	79

28 11 40 56.6 44.7 N 112.5 W MONTANA
H = 14 KM

	MV	EP	11 43 04.5	SZ	0.5	2	8.5
	WI	EP	11 42 10.5	SZ	0.5	2	5.0
		E	11 42 18.	SZ	0.5	55	5.0
	MN	EP	11 42 51.5	SZ	0.8	2	7.5
	FM	EP	11 42 23.8	SZ	0.6	5	5.7
		E	11 42 42.	SZ	0.7	23	5.7
		E	11 43 54.	SZ	1.0	39	5.7

29 04 56 41.9 22.6 S 174.5 W TONGA ISLAND
H = 25 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
							29
	WI	EP	05 09 08.6	SZ	1.0	7	83
	MN	EP	05 08 57.4	SZ	1.0	7	81
		ELR	05 35 05.	LZ	25	221	81
29	11 43 12.6		9.1 S 157.5 E				SOLOMON ISLANDS
			H = 114 KM				
	WI	EP	11 56 12.0	SZ	1.0	22	92
	MN	EP	11 56 06.3	SZ	1.0	45	91
29	06 07 22.0		9.3 S 79.1 W				NEAR PERU
			H = 100 KM				
	LC	EP	06 16 01.2	SZ	0.8	6	49
	WI	EP	06 17 29.3	SZ	0.8	4	61
	MN	EP	06 17 19.2	SZ	0.8	3	60
29	13 25 03.8		12.5 S 165.1 E				SANTA CRUZ ISLAND
			H = 100 KM				
	MN	EP	13 37 34.8	SZ	1.0	3	86
29	21 07 57.4		15.4 S 172.7 W				SAMOA ISLAND REGION
			H = 25 KM				
	LC	EP	21 20 02.8	SZ	1.0	8	79

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	30
1	SJ	E	04 28 40.	LZ	14	600		
		EP	05 32 53.2	SZ	1.5	170		
		E	05 33 13.	SZ	1.0	75		
		E	05 35 37.	SR	1.9			
		EP	08 29 33.9	SZ	0.9	38		
		EL	08 40 10.	LZ	15	316		
		E	12 14 45.	LZ	15	569		
		EL	12 35 17.	LZ	23	1080		
		EL	12 51 05.	LZ	17	1040		
		EL	12 56 53.	LZ	28	1550		
		EP	23 18 48.8	SZ	0.6	34		
1	LC	EP	02 18 13.9	SZ	0.3	5		
		IP	02 50 51.7	SZ	1.0	37	57	
		EP	03 09 43.6	SZ	0.3	5		
		EP	03 41 51.5	SZ	0.8	5		
		EP	06 59 40.8	SZ	1.0	22	57	
		IP	10 26 45.8	SZ	1.0	30	57	
		EP	12 28 41.4	SZ	1.0	22	88	
		EP	13 32 04.6	SZ	1.0	30	2.7	
		ES	13 32 39.	SR	1.0		2.7	
		EP	20 42 32.0	SZ	0.7	15	2.5	
		ES	20 43 04.	SR	0.7		2.5	
		EP	23 50 04.6	SZ	0.8	9	57	
1	CP	EL	00 00 32.	LZ	23	8380	51	
		EP	01 25 30.5	SZ	0.3	3	1.3	
		ES	01 25 47.	ST	0.2	3	1.3	
		IP	01 50 08.2	SZ	0.2	3	0.8	
		ES	01 50 18.	ST	0.2	9	0.8	
		IP	02 50 06.2	SZ	1.0	29	51	
		EP	03 09 52.9	SZ	0.6	2	7	
		EL	03 11 09.	SZ	0.8	2	7	
		IP	03 15 03.8	SZ	0.2	14	0.4	
		ES	03 15 08.	ST	0.2	14	0.4	
		EP	06 22 48.0	SZ	0.2	2	0.1	
		ES	06 22 53.	ST	0.2	22	0.1	
		EP	06 58 54.9	SZ	1.0	12	51	
		EP	07 48 03.2	SZ	0.3	2	0.7	
		ES	07 48 12.	ST	0.3	14	0.7	
		EP	08 06 05.3	SZ	0.2	3	0.7	
		ES	08 06 14.	SR	0.2	14	0.7	
		EP	09 11 20.4	SZ	0.2	4	0.7	
		ES	09 11 29.	ST	0.2	17	0.7	
		EP	10 26 00.1	SZ	1.0	17	50	
		EP	12 28 09.3	SZ	0.8	9	82	
		EP	14 05 38.5	SZ	0.3		0.7	
		ES	14 05 47.	SZ	0.3	11	0.7	
		EP	15 22 28.0	SZ	0.3	2	4.4	
		ES	15 23 20.	ST	0.5	8	4.4	
		EP	15 43 52.7	SZ	0.8	5	88	
		EP	17 00 18.4	SZ	0.3	2		
		EP	17 11 04.2	SZ	0.2	3	0.8	
		ES	17 11 14.	ST	0.2	11	0.8	
		EP	17 13 01.7	SZ	0.4	2		
		EP	18 26 56.2	SZ	0.3	2		
		E	18 27 27.	ST	0.5	8		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	31
1	CP	IP	20 19 51.1	SZ	0.3	7	0.8	
		ES	20 20 01.	ST	0.3	11	0.8	
		EP	21 14 12.5	SZ			0.8	
		ES	21 14 22.	ST	0.2	3	0.8	
		EP	23 29 36.5	SZ	0.3	2	0.1	
		ES	23 29 40.	ST			0.1	
		EP	23 49 21.9	SZ	0.8	18	51	
1	MV	EP	02 49 08.7	SZ	0.7	23	43	
		E	02 49 35.	SZ	0.8	17	43	
		E	02 50 59.	SZ	1.0	12	43	
		EP	06 57 57.3	SZ	0.7	12	44	
		E	06 59 42.	SZ	1.4	6	44	
		EP	10 25 03.0	SZ	0.7	24	43	
		EP	12 28 16.0	SZ	0.7	14	84	
		E	12 28 27.	SZ	0.9	25	84	
		EP	15 43 50.4	SZ	0.7	12	88	
		IP	17 21 27.1	SZ	0.6	90		
		EP	17 38 22.3	SZ	0.4	2	1.4	
		ES	17 38 41.	SR	0.5	7	1.4	
		EP	17 49 50.9	SZ	0.4	2	2.7	
		ES	17 50 27.	ST	0.7	9	2.7	
		EP	23 48 21.7	SZ	0.8	29	43	
		E	23 48 31.	SZ	0.9	25	43	
		E	23 50 08.	SZ	1.5	24	43	
1	WI	EP	02 49 17.9	SZ	0.9	14	45	
		E	02 50 05.	LZ	32	885	45	
		E	02 50 59.	SZ	1.0	7	45	
		E	02 52 06.	SZ	2.5		45	
		E	02 55 55.	LZ	31	885	45	
		E	02 59 35.	LZ	16	946	45	
		EL	03 01 34.	LZ	25	5050	45	
		EP	06 58 06.0	SZ	1.0	9	45	
		EP	06 58 06.	LZ	13	395	45	
		E	06 58 52.	LZ	20	253	45	
		E	06 59 44.	SZ	1.0	7	45	
		E	06 59 55.	LZ	35	700	45	
		E	07 00 06.	SZ	1.3	11	45	
		EL	07 11 39.	LZ	23	1100	45	
		EP	08 32 00.4	SZ	0.7	3		
		EP	10 25 12.0	SZ	0.6	7	45	
		E	10 25 20.	SZ	1.2	12	45	
		E	10 25 24.	SR	1.0	9	45	
		E	10 26 54.	SZ	0.9	3	45	
		E	10 27 07.	SZ	1.4	14	45	
		EL	10 37 17.	LZ	30	590	45	
		EP	12 28 33.4	SZ	0.9	13	87	
		E	12 28 45.	SZ	1.2	17	87	
		EL	12 55 43.	LZ	27	250	87	
		EP	13 33 38.2	SZ	0.5	5		
		EP	15 44 07.6	SZ	1.0	23	92	
		EP	17 22 17.6	SZ	0.3	2	3.7	
		E	17 23 03.	SR	0.5	17	3.7	
		E	17 23 30.	LR	20	2840	3.7	
		EL	17 24 37.	LZ	15	315	3.7	
		EP	23 48 33.3	SZ	0.5	4	45	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		EP	23 48 34.	LZ	12	1800	45
		E	23 48 50.	SZ	0.8	6	45
		E	23 50 20.	SZ	1.5	46	45
		E	23 51 05.	SZ	2.0		45
		E	23 54 07.	SZ	2.0		45
		E	23 55 15.	LR	26	3500	45
		E	23 58 18.	LR	28	4250	45
		EL	23 59 56.	LR			45
1	MN	EP	02 49 29.1	SZ	1.0	25	46
		E	02 56 12.	LR	25	698	46
		EL	03 02 35.	LZ	30	1980	46
		EP	06 58 16.8	SZ	0.9	8	46
		EL	07 11 25.	LZ	30	743	46
		EP	10 25 23.0	SZ	0.9	18	46
		EL	10 37 00.	LT	25	686	46
		EP	12 28 22.1	SZ	1.0	25	85
		E	12 28 34.	SZ	1.1	32	85
		EL	12 54 05.	LZ	30	496	85
		EP	15 22 35.5	SZ	0.6	5	3.4
		ES	15 23 16.	ST	0.7	5	3.4
		EP	15 43 59.0	SZ	0.9	22	90
		EP	16 13 45.5	SZ	0.3	2	0.8
		ES	16 13 56.	ST	0.5	5	0.8
		EP	17 22 03.0	SZ	0.5	5	0.7
		ES	17 22 11.	ST	0.7	14	0.7
		EL	17 23 10.	LT	20	1685	0.7
		EP	21 09 38.3	SZ	0.3	4	0.8
		ES	21 09 49.	ST	0.4	11	0.8
		EP	23 48 41.7	SZ	1.2	31	46
		E	23 55 35.	LR	25	3259	46
		EL	23 58 58.	LR	20	3990	46
1	FM	EP	02 49 52.6	SZ	0.8	13	49
		E	02 57 00.	LZ	20	330	49
		E	03 00 42.	LZ	15	517	49
		EP	06 58 41.7	SZ	0.9	7	49
		EP	10 25 47.2	SZ	0.6	5	49
		EP	12 28 42.7	SZ	0.7	5	89
		E	12 28 53.	SZ	1.2	20	89
		EP	13 33 04.1	SZ	0.5	5	
		EP	17 23 08.4	SZ	0.5	1	11
		EL	17 25 53.	SZ	3.0		11
		EP	23 49 05.9	SZ	0.8	4	49
		E	23 56 15.	LZ	20	828	49
1	NG	EP	02 50 59.8	SZ	0.6	28	58
		E	03 05 55.	LZ	17	697	58
		EL	03 11 10.	LZ	30	786	58
		EP	06 59 49.1	SZ	0.7	17	58
		EL	07 18 05.	LZ	40	533	58
		EP	10 26 54.0	SZ	0.5	6	58
		EP	13 32 09.4	SZ	0.5	18	
		EP	23 50 18.5	SZ	1.0	83	58
1	DH	EP	02 52 00.0	SZ	0.6	76	67
		EL	03 11 45.	LZ	30	2255	67
		EP	07 00 48.6	SZ	0.8	41	67
		EP	10 27 54.4	SZ	0.7	33	67

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
							33
2	SJ	EP	23 51 13.4	SZ	1.0	66	67
		E	03 05 16.	LZ	23	480	
		EL	03 13 40.	LZ	30	1038	
		EP	03 51 49.7	SZ	0.9	38	
		EP	07 00 39.1	SZ	1.0	37	
		EL	07 22 31.	LZ	28	615	
		E	22 51 08.	LZ	10	2652	
		EL	23 04 32.	LZ	15		
2	LC	EL	23 13 00.	LZ	27		
		EP	05 33 49.3	SZ	1.5	48	62
		EP	08 14 21.2	SZ	0.7	3	
		E	08 23 01.	ST	0.3	2	
		E	08 26 12.	ST	1.0	5	
		E	08 28 40.	ST	1.0	8	
		E	08 37 44.	SR	1.0	8	
		EP	10 42 16.9	SZ	0.6	3	
		EP	12 33 36.9	SZ	0.8	5	65
		EP	13 04 31.1	SZ	0.3	2	
		E	13 06 32.	ST	0.8	6	
		EP	16 10 43.2	SZ	0.9	4	
		E	16 12 52.	ST	1.0	12	
2	CP	EP	16 38 20.0	SZ	0.8	5	
		ES	01 10 29.	ST	0.4	3	
		ES	01 14 27.	ST	0.3	1	
		ES	01 17 33.	ST	0.3	1	
		EP	02 59 45.6	SZ	0.4	3	
		EP	04 46 39.0	SZ	0.2	1	1.3
		ES	04 46 55.	ST	0.2	8	1.3
		EP	05 34 29.5	SZ	1.0	34	68
		EP	06 32 59.8	SZ	0.2	2	0.1
		ES	06 33 03.	SR	0.2	7	0.1
		ES	07 01 49.	ST	0.5	5	
		EP	07 07 51.6	SZ	0.5	3	3.7
		ES	07 08 36.	SR	0.5	9	3.7
		EP	07 14 48.3	SZ	0.3	2	0.4
		ES	07 14 54.	ST	0.4	7	0.4
		ES	08 10 16.	ST	0.4	4	
		EP	08 13 24.1	SZ	0.3	2	0.4
		ES	08 13 30.	ST	0.4	13	0.4
		EP	08 20 03.4	SZ	0.3	2	0.2
		ES	08 20 08.	ST	0.3	5	0.2
		ES	08 32 47.	ST	0.4	2	
		ES	08 34 44.	ST	0.4	7	
		EP	08 45 26.5	SZ	0.2	1	0.6
		ES	08 45 35.	ST	0.4	3	0.6
		EP	08 49 24.5	SZ	0.3	3	0.5
		ES	08 49 32.	ST	0.5	7	0.5
		EP	09 00 55.2	SZ	0.4	2	
		ES	10 17 18.	ST	0.4	3	
		EP	10 41 14.3	SZ	0.6	5	0.6
		ES	10 41 22.	ST	0.5	12	0.6
		EP	10 51 46.1	SZ	0.3	1	0.1
		ES	10 51 50.	ST	0.3	2	0.1
		EP	12 00 22.3	SZ	0.8	4	89
		EP	12 10 03.9	SZ	1.2	14	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		EL	12 28 31.	LZ	22	706	
		EP	12 33 41.2	SZ	0.8	5	66
		EP	16 09 03.6	SZ	0.6	2	0.2
		ES	16 09 09.	SR	0.2	18	0.2
		EP	16 21 00.6	SZ	0.3	2	0.1
		ES	16 21 04.	ST	0.3	6	0.1
		EP	16 37 05.2	SZ	0.3	3	0.4
		ES	16 37 11.	ST	0.3	11	0.4
		EP	16 46 09.3	SZ	0.2	2	0.7
		ES	16 46 18.	ST	0.4	7	0.7
2	MV	EP	05 35 12.2	SZ	1.1	12	75
		EP	06 04 42.6	SZ	0.8	1	78
		EP	06 19 28.5	SZ	0.7	9	
		EP	12 00 19.4	SZ	0.8	6	89
		EP	12 32 59.6	SZ	1.2	40	60
		EP	17 08 01.5	SZ	0.6	4	
		EP	19 15 01.5	SZ	0.6	11	81
2	MN	EP	05 34 59.0	SZ	0.9	22	73
		EP	06 04 50.5	SZ	0.9	14	79
		EL	06 30 52.	LZ	20	220	79
		EP	12 00 28.2	SZ	0.8	6	91
		EL	12 28 45.	LZ	30	603	91
		EP	12 33 04.1	SZ	1.2	24	60
		EL	12 51 14.	LR	40	5150	60
		IP	19 15 17.3	SZ	0.8	32	84
2	FM	EP	05 34 41.6	SZ	0.8	33	70
		E	05 34 59.	SZ	0.6	12	70
		ES	05 48 12.	SR	0.3	27	0.1
		EP	05 48 20.7	SZ	0.3	2	0.1
		EP	06 05 14.1	SZ	0.7	4	84
		EP	12 32 54.1	SZ	1.3	12	59
		EP	16 11 25.0	SZ	0.7	3	
		EP	19 15 37.3	SZ	0.6	14	88
2	NG	EP	05 34 17.7	SZ	0.8	21	66
		E	05 34 35.	SZ	0.8	62	66
		EP	12 31 44.5	SZ	0.9	40	49
		EL	12 43 05.	LZ	20	197	49
		EP	19 25 47.2	SZ	1.0	98	
		E	19 26 06.	SZ	1.0	49	
		E	19 27 19.	SZ	1.0	33	
		E	19 27 25.	SZ	1.0	49	
2	DH	EP	23 18 42.1	SZ	0.6	14	
		E	00 05 00.	LZ	30	4410	67
		EP	05 33 42.8	SZ	0.7	58	61
		EL	12 43 25.	LR	25	1985	50
3	SJ	E	12 02 50.	LZ	25	380	
		EL	12 08 00.	LZ	18	440	
3	LC	IP	09 17 50.1	SZ	1.0	20	
		EP	10 26 11.4	SZ	0.8	8	
		EP	11 33 22.7	SZ	1.0	12	84
		EL	11 58 12.	LZ	25	429	84
		EP	17 39 47.6	SZ	0.4	2	3.0
		ES	17 40 25.	ST	0.3	8	3.0
		IP	18 02 48.3	SZ	0.8	22	57
		EL	18 23 20.	LZ	15	339	57

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		EP	23 30 52.8	SZ	0.3	2	3.7
		ES	23 31 39.	SR	0.3	12	3.7
3	CP	EP	00 03 21.	LZ	20	458	90
		IP	00 36 20.5	SZ	0.3	9	0.3
		ES	00 36 26.	SR	0.2	9	0.3
		EL	01 23 33.	LZ	25	260	
		EL	02 45 47.	LZ	16	308	90
		EP	07 02 38.6	SZ	1.0	9	90
		EP	07 04 22.6	SZ	1.2	9	70
		EL	07 30 35.	LZ	25	195	90
		EP	11 32 47.0	SZ	0.7	4	77
		EL	11 59 15.	LZ	18	643	77
		IP	12 44 23.8	SZ	0.2	5	0.7
		ES	12 44 33.	ST	0.4	13	0.7
		EP	13 49 15.1	SZ	1.0	6	91
		EL	14 19 04.	LZ	20	524	91
		EP	18 02 02.4	SZ	0.7	7	51
		EP	18 05 15.4	SZ	0.7	9	
		EL	18 15 33.	LZ	16	410	51
		EL	20 34 58.	LZ	20	390	
3	MV	EP	02 22 19.0	SZ	0.6	3	4.0
		ES	02 23 09.	SR	0.7	5	4.0
		EP	07 02 35.8	SZ	0.7	8	90
		E	07 06 08.	SZ	0.7	5	90
		EP	11 32 50.6	SZ	0.7	5	78
		EP	11 37 48.4	SZ	0.7	8	
		EP	18 01 04.0	SZ	0.7	17	44
		E	18 04 08.	SZ	0.7	12	44
		EP	19 02 35.2	SZ	0.3	2	0.6
3	WI	ES	19 02 43.	ST	0.3	18	0.6
		EP	00 03 34.1	SZ	1.0	11	92
		E	00 16 03.	LT	22	1530	92
		EL	00 32 26.	LZ	34	1215	92
		EP	07 02 52.4	SZ	0.7	5	93
		EP	07 04 44.4	SZ	0.7	15	74
		E	07 05 02.	SZ	0.7	8	74
		E	07 06 27.	SZ	0.7	4	74
		EL	07 31 28.	LZ	1.8	263	93
		EP	07 45 45.0	SZ	0.6	4	
		EP	08 58 39.5	SZ	1.0	18	
		E	08 59 11.	SZ	0.8	6	
		EP	09 16 24.5	SZ	0.7	3	
		EL	09 32 48.	LZ	18	316	
		EP	11 33 10.9	SZ	0.9	7	81
		EP	11 38 03.4	SZ	0.9	9	
		EL	12 02 08.	LZ	16	657	81
		EP	13 49 19.7	SZ	0.7	5	92
		EP	18 01 14.2	SZ	0.9	10	45
		EL	18 13 30.	LZ	24	1043	45
3	MN	EP	06 04 49.1	SZ	0.4	2	0.8
		ES	06 05 00.	ST	0.5	7	0.8
		EP	06 05 03.9	SZ	0.4		0.8
		ES	06 05 15.	ST	0.5	6	0.8
		EP	07 02 45.2	SZ	0.7	8	92
		EP	07 04 35.0	SZ	1.0	8	73

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	36
		E	07 06 19.	SZ	0.9	11	92	
		EL	07 30 25.	LZ	30	257	92	
		EP	09 10 48.6	SZ	0.3	1	0.3	
		ES	09 10 52.	ST	0.3	7	0.3	
		EP	11 32 57.6	SZ	1.0	18	79	
		EP	11 37 55.1	SZ	0.8	7		
		EP	11 52 49.1	SZ	0.9	7		
		EL	12 00 18.	LZ	20	439	79	
		EP	13 49 14.0	SZ	1.1	9	90	
3	FM	IP	02 07 32.0	SZ	0.3	3	0.5	
		ES	02 07 39.	ST	0.4		0.5	
		EP	07 04 18.8	SZ	0.7	20	70	
		EL	07 35 00.	LZ	20	506	70	
		EP	09 16 54.0	SZ	0.7	5		
		EP	10 15 57.1	SZ	0.6	2		
		EP	10 25 15.8	SZ	0.7	4		
		EP	11 33 20.8	SZ	0.6	5	84	
		EL	12 01 20.	LZ	20	506	84	
		EP	13 33 06.0	SZ	0.3	2	0.5	
		ES	13 33 13.	ST	0.4		0.5	
		EP	18 01 49.1	SZ	0.7	10	49	
		EL	18 12 35.	LZ	20	760	49	
		EP	19 08 35.6	SZ	0.3	4	2.1	
		ES	19 09 03.	SR	0.5	8	2.1	
		EP	19 30 23.9	SZ	0.6	6		
		EP	21 01 58.5	SZ	0.6	12		
		E	21 05 06.	ST	5.0			
3	NG	EP	08 39 23.3	SZ	1.0	66		
		E	08 39 42.	SZ	1.0	50		
3	DH	EP	18 03 55.6	SZ	0.7	60	67	
		EL	18 24 40.	LR	30	1410	67	
		EP	18 46 33.6	SZ	0.5	50	1.8	
		ES	18 46 57.	ST	0.5	99	1.8	
		EP	19 59 17.0	SZ	0.5	25	1.4	
		ES	19 59 36.	SR	0.5	36	1.4	
4	SJ	E	00 17 35.	LZ	17	1310		
		E	00 27 35.	LZ	17	1310		
		EL	00 37 57.	LZ	18	1632		
		EP	02 32 15.2	SZ	0.8	18		
		E	02 32 31.	SZ	0.7	15		
		EP	04 49 30.	LZ	15	1442	101	
		E	04 53 30.	LZ	15	2040	101	
		E	04 59 55.	LR	23	5140	101	
		E	05 02 40.	LR	23	8310	101	
		E	05 11 46.	LR	37	10300	101	
		EL	05 18 10.	LT	33	14790	101	
		EL	05 23 27.	LZ	26	5220	101	
		EP	05 53 30.6	SZ	1.0	30		
4	LC	EP	04 27 40.3	SZ	1.0	15	77	
		EP	04 48 49.0	SZ	0.9	64	91	
		E	04 51 33.	SZ	1.1	33	91	
		E	04 57 40.	LZ	30	1903	91	
		E	05 08 52.	LZ	40	11691	91	
		EL	05 19 00.	LR	45		91	
		EP	10 54 51.3	SZ	0.3	2		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	37
		E	10 59 03.	ST	0.6	3		
		EP	21 06 01.3	SZ	0.3	4	1.5	
		ES	21 06 20.	SR	0.3	10	1.5	
		EP	21 32 23.6	SZ	0.8	8		
4	CP	EP	00 03 20.5	SZ	1.0	9	90	
4	MV	EP	00 02 57.1	SZ	0.7	9	85	
		EP	03 56 52.2	SZ	0.4	1	3.0	
		ES	03 57 31.	SR	0.6	15	3.0	
		EP	04 27 29.2	SZ	0.7	19	76	
		E	04 34 34.	SZ	0.7	6	76	
		EP	04 47 39.1	SZ	1.0	103	79	
		E	04 50 38.	SZ	1.0	9	79	
		EP	15 33 25.1	SZ	0.4	19	2.8	
		ES	15 34 01.	ST	0.5	28	2.8	
		EP	18 12 33.4	SZ	0.4	5	1.8	
		ES	18 12 58.	SR	0.5	9	1.8	
4	WI	EL	02 10 40.	LZ	21	555		
		EP	04 27 37.4	SZ	1.0	39	77	
		E	04 27 45.	SZ	1.0	32	77	
		EP	04 47 48.1	SZ	1.2	56	80	
		EP	04 47 48.	LZ	10	4630	80	
		E	04 47 53.	SZ	1.0	62	80	
		E	04 48 16.	SZ	1.4	158	80	
		E	04 48 34.	SZ	1.4	140	80	
		E	04 49 51.	SZ	1.5	55	80	
		E	04 50 43.	SZ	1.3	44	80	
		E	04 50 47.	LZ	14	1579	80	
		E	04 53 09.	SR	3.2		80	
		E	04 57 49.	ST	4.7		80	
		E	04 57 50.	LR	18	5560	80	
		E	05 00 33.	LZ	22	2370	80	
		E	05 02 55.	LZ	28	3070	80	
		E	05 06 36.	LZ	31	3245	80	
		E	05 09 16.	LT	30	7940	80	
		EL	05 13 10.	LZ	28	8680	80	
		EP	15 34 17.2	SZ	0.5	5		
		EP	17 45 53.5	SZ	0.4	8	2.0	
		ES	17 46 20.	ST	0.5	36	2.0	
		EP	21 34 49.4	SZ	0.7	10		
		EP	21 38 15.7	SZ	1.0	9	95	
4	MN	EP	04 27 44.2	SZ	0.7	22	78	
		EP	04 47 53.7	SZ	1.3	180	81	
		EP	04 47 55.	LZ	10	8770	81	
		E	04 50 57.	SZ	1.4	52	81	
		E	04 57 55.	LR	25	7120	81	
		E	05 07 00.	LR	30	6630	81	
		EL	05 09 30.	LT	25		81	
		EL	05 13 40.	LZ	30		81	
		EP	15 34 02.4	SZ	0.7	6		
4	FM	EL	00 33 30.	LZ	21	1290		
		EL	02 16 30.	LZ	20	329		
		EP	04 28 01.8	SZ	1.0	33	82	
		EP	04 48 10.5	SZ	1.0	192	85	
		E	04 51 40.	LZ	20	822	85	
		E	04 58 34.	ST	4.5		85	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	38
		E	05 07 40.	LZ	33	4415	85	
		EL	05 11 45.	LZ	25	2265	85	
		EL	05 16 00.	LZ	27	8775	85	
		EP	12 33 24.9	SZ	0.3	3	1.1	
		ES	12 33 40.	ST	0.5	13	1.1	
		EP	21 34 21.3	SZ	0.5	6		
		E	21 34 46.	SZ	1.0	9		
4	NG	EP	04 48 47.1	SZ	1.0	62	92	
		E	04 48 58.	SZ	1.2	102	92	
		E	04 59 05.	LZ	16	5870	92	
		E	05 00 55.	LZ	24	4380	92	
4	DH	EL	00 45 29.	LR	25	1069	124	
		EL	04 58 15.	LT	25	2866	97	
5	SJ	EP	00 36 27.6	SZ	1.0	78	88	
		EP	00 36 30.	LZ	11	1070	88	
		E	00 47 20.	LR	25	8210	88	
		E	00 48 10.	LZ	17	7520	88	
		E	00 53 00.	LR	21	6030	88	
		E	00 54 32.	LR	20	3962	88	
		E	00 56 20.	LR	20	3718	88	
		E	00 59 40.	LR	18	4610	88	
		EL	01 04 00.	LZ	25		88	
		EP	08 20 35.6	SZ	1.0	39	83	
		EP	08 20 37.	LZ	10	1010	83	
		E	08 31 00.	LR	17	4150	83	
		E	08 37 00.	LZ	20	2150	83	
		E	08 43 15.	LR	30	4180	83	
		EL	08 46 36.	LZ	28	5250	83	
		EL	08 55 25.	LZ	16	6200	83	
5	LC	EP	00 33 58.8	SZ	0.8	8		
		EP	04 27 31.5	SZ	1.0	8		
		EP	08 18 10.0	SZ	0.7	8		
		EP	09 14 32.6	SZ	0.7	6		
		E	09 16 27.	SR	1.0	26		
		EP	13 39 36.9	SZ	1.0	38		
		EL	13 44 43.	SZ	6.0			
		EP	18 03 04.8	SZ	0.4	5	3.2	
		ES	18 03 45.	SR	0.4	10	3.2	
5	MV	EP	00 35 04.2	SZ	0.8	15	74	
		EP	04 28 53.6	SZ	1.2	15		
		EP	05 22 01.9	SZ	0.3	33		
		EP	07 41 20.3	SZ	0.3	2	1.2	
		ES	07 41 38.	ST	0.5	10	1.2	
		EP	08 19 34.1	SZ	1.0	12	74	
		E	08 19 46.	SZ	1.1	38	74	
		EP	13 43 35.1	SZ	0.8	6		
		E	13 43 46.	SR	1.0	2		
		E	13 44 06.	ST	1.0	9		
		EP	14 20 47.1	SZ	0.7	8	124	
		EP	16 23 55.2	SZ	0.3	3	0.3	
		ES	16 24 00.	ST	0.7	9	0.3	
		EP	23 16 29.6	SZ	0.8	15	44	
		EP	23 39 00.5	SZ	0.4	2	1.0	
		ES	23 39 14.	ST	0.6	10	1.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	39
5	WI	EP	00 35 40.5	SZ	1.2	48	80	
		EP	00 35 41.	LZ	14	1261	80	
		E	00 35 47.	SZ	1.2	60	80	
		E	00 35 56.	SR	1.2	60	80	
		E	00 36 07.	SZ	2.0		80	
		E	00 38 53.	LZ	15	1261	80	
		E	00 45 44.	LT	27	3690	80	
		E	00 50 50.	LR	20	2355	80	
		E	00 54 24.	LR	20	2255	80	
		E	00 56 50.	LR	20	3140	80	
		EL	00 59 32.	LZ	33		80	
		EP	04 29 14.8	SZ	0.9	6		
		E	04 29 22.	SZ	1.2	23		
		E	04 51 15.	SZ	1.5	23		
		EL	04 53 50.	LZ	23	950		
		EP	05 18 58.5	SZ	0.6	1		
		E	05 20 22.	SR	0.8	14		
		EP	05 22 39.8	SZ	0.5	8		
		E	05 24 05.	ST	0.7	9		
		EP	08 19 53.0	SZ	1.0	12	77	
		EP	08 19 57.	LZ	9	2030	77	
		E	08 19 57.	SZ	1.2	49	77	
		E	08 21 05.	SR	1.5	42	77	
		E	08 21 52.	ST	1.5	28	77	
		E	08 22 40.	SZ	1.5	27	77	
		E	08 29 21.	ST	1.2	11	77	
		E	08 29 50.	LT	25	3690	77	
		E	08 32 13.	LZ	21	2780	77	
		E	08 40 04.	LR	25	3790	77	
		EL	08 42 43.	LZ	33	13450	77	
		EP	13 43 38.5	SZ	1.4	93		
		EP	13 43 40.	LZ	9	1800		
		E	13 44 07.	SZ	1.2	23		
		E	13 45 18.	SR	1.5	24		
		E	13 46 22.	ST	1.5	23		
		E	13 48 14.	LR	12	5000		
		EL	13 51 00.	LZ	25	2150		
		EP	14 20 50.5	SZ	0.9	10	128	
		EL	15 05 10.	LZ	20	909		
		EP	17 15 37.0	SZ	0.3	3	1.4	
		ES	17 15 54.	ST	0.5	24	1.4	
5	MN	EP	00 35 27.0	SZ	1.3	58	78	
		E	00 45 20.	LT	30		78	
		E	00 49 55.	LR	25	1870	78	
		EL	00 55 25.	LR	35	2820	78	
		EL	00 58 28.	LZ	30		78	
		EP	06 49 11.3	SZ	0.9	7		
		EP	08 19 40.8	SZ	1.0	17	75	
		E	08 29 15.	LT	25	7400	75	
		E	08 34 00.	LR	20	1610	75	
		EL	08 39 21.	LR	20	2590	75	
		EL	08 41 21.	LZ	30	17200	75	
		EP	09 16 58.8	SZ	1.0	2		
		EP	13 43 16.5	SZ	2.0			
		EL	13 47 40.	LT	25	791		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	40	
5	FM	EP	00 35 51.4	SZ	0.8	2	82		
		EL	00 59 00.	LZ	30		82		
		EP	04 29 23.8	SZ	0.7	3			
		EP	06 49 34.1	SZ	0.7	3			
		EP	08 20 05.6	SZ	1.0	23	79		
		E	08 25 47.	SZ	5.0		79		
		E	08 31 30.	LZ	20	1231	79		
		E	08 33 10.	LZ	20	1795	79		
		EL	08 41 28.	LZ	22	652	79		
		E	08 43 28.	LZ	30	7765	79		
		EP	12 43 04.4	SZ	1.4	59			
		E	12 43 12.	SZ	1.5				
		EP	14 20 58.5	SZ	0.7	4	131		
		E	14 24 24.	ST	2.5		131		
		EP	23 17 11.6	SZ	0.7	5	49		
		5	NG	E	00 50 40.	LZ	20		
				E	00 56 13.	LZ	22		
				E	00 58 30.	LZ	30		
EL	01 10 45.			LZ	35				
E	08 34 32.			LZ	21				
E	08 39 52.			LZ	24				
E	08 44 26.			LZ	20				
EL	08 53 25.			LZ	30				
E	00 58 08.			LR	25	9950	110		
EL	01 06 35.			LR	25	2510	110		
6	LC	EP	17 54 09.5	SZ	0.2	15	1.5		
		ES	17 54 28.	ST	0.3	12	1.5		
		6	MV	EP	21 18 22.5	SZ	0.4	2	2.8
				ES	21 18 59.	ST	0.5	11	2.8
		6	WI	EP	01 09 51.3	SZ	1.0	5	
				EP	07 15 52.3	SZ	1.0	7	
		6	MN	EP	14 34 45.2	SZ	1.0	7	
				E	14 34 55.	SZ	1.3	11	
				EP	12 23 48.7	SZ	0.3	4	1.2
				ES	12 24 05.	ST	0.4	10	1.2
EP	22 34 13.1			SZ	0.3	1	2.8		
ES	22 34 48.			ST	0.5	14	2.8		
6	FM	EP	07 16 05.3	SZ	1.0	6			
		EP	07 47 22.1	SZ	0.7	12			
		E	07 57 46.	SZ	6.4				
		EP	16 27 34.9	SZ	0.3	1	3.8		
		ES	16 27 43.	SR			.8		
		6	DH	EP	14 51 17.1	SZ	0.4	34	1.6
ES	14 51 39.			SR	0.5	18	1.6		
EP	15 38 55.5			SZ	0.3	22	1.6		
ES	15 39 17.			ST	0.5	23	1.6		
7	SJ			EP	01 22 56.4	SZ	0.5	7	48
				EP	16 45 48.3	SZ	0.6	130	
7	LC	E	16 45 53.	SZ	0.6	130			
		EP	01 21 48.5	SZ	1.0	18	40		
		EP	07 07 36.7	SZ	0.6	3	3.0		
		ES	07 08 14.	SR	0.3	10	3.0		
		EP	08 50 59.8	SZ	1.0	15			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	41
7	MV	EP	10 16 07.0	SZ	1.3	47	89	
		EP	13 25 56.0	SZ	1.0	28		
		EP	15 11 51.0	SZ	1.0	13		
		EP	17 45 32.2	SZ	0.3	4	2.5	
		ES	17 46 04.	SR	0.3	6	2.5	
		EP	20 27 14.6	SZ	0.3	2	1.3	
		ES	20 27 32.	SR	0.3	8	1.3	
		EP	22 12 16.7	SZ	1.0	8	77	
		EP	01 19 54.3	SZ	0.8	13	27	
		E	01 20 38.	SZ	1.8		27	
		EP	01 38 34.6	SZ	0.7	9	44	
		E	01 40 21.	SZ	1.3	38	44	
		EP	05 25 28.5	SZ	0.3	4	1.4	
		ES	05 25 49.	SR	0.5	7	1.4	
		EP	08 51 09.6	SZ	1.2	35		
		E	08 51 15.	SZ	1.2	40		
		EP	09 40 37.3	SZ	0.4	1	0.7	
		ES	09 40 46.	ST	0.4	7	0.7	
7	WI	EP	10 16 09.9	SZ	1.2	30	90	
		E	10 16 20.	SZ	0.7	11	90	
		E	10 16 34.	SZ	0.7	8	90	
		EP	15 10 08.0	SZ	0.8	6		
		EP	16 49 04.1	SZ	0.6	4		
		EP	21 10 52.8	SZ	0.4	1	0.9	
		ES	21 11 05.	ST	0.5	6	0.9	
		EP	23 39 05.0	SZ	0.3	5	0.7	
		ES	23 39 14.	ST	0.4	12	0.7	
		EP	01 20 01.4	SZ	0.7		28	
		E	01 20 06.	SZ	0.9	52	28	
		E	01 20 14.	SZ	1.0		28	
		E	01 20 29.	SR	0.8	17	28	
		E	01 20 44.	SZ	0.9	15	28	
		E	01 21 05.	ST	1.3	36	28	
		EL	01 28 10.	LZ	22	1860	28	
		EP	01 38 43.8	SZ	1.1	11	45	
		EP	05 25 33.0	SZ	0.4	15	1.9	
ES	05 25 59.	SR	0.5	25	1.9			
EP	05 39 07.7	SZ	0.5	6	6.9			
ES	05 40 29.	ST	0.8	5	6.9			
EP	08 50 48.2	SZ	1.4	53				
E	08 50 54.	SZ	1.4	57				
E	08 51 00.	SZ	1.2	28				
EP	09 40 02.2	SZ	0.4	11	2.7			
ES	09 40 37.	ST	0.5	16	2.7			
EP	10 15 55.3	SZ	1.3	104	87			
E	10 16 32.	SZ	1.0	24	87			
E	10 19 22.	SZ	1.3	18	87			
EP	10 34 03.0	SZ	0.8	2				
EL	10 40 20.	LZ	25	3740	87			
EP	13 27 28.6	SZ	0.7	4				
EP	15 10 17.3	SZ	1.0	5				
EP	16 48 44.7	SZ	0.5	11				
E	16 49 02.	SZ	0.5	8				
E	16 49 11.	SZ	0.7	3				
EP	22 13 20.8	SZ	1.3	11	90			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
			22 46 28.	LZ	21	1005	90
		EL		SZ	0.5	8	5.7
		EP	23 24 00.3	SR	0.6	6	5.7
		ES	23 25 08.	SZ	0.4	15	6.0
		EP	23 27 48.1	SR	0.5	10	6.0
		ES	23 28 59.	SZ	0.9	12	29
7	MN	EP	01 20 16.2	LZ	25	2420	29
		EL	01 28 48.	SZ	1.2	22	46
		EP	01 38 55.0	LZ	30	1030	46
		EL	01 52 44.	SZ	0.3	20	0.8
		EP	09 39 40.6	ST	0.4	31	0.8
		ES	09 39 51.	SZ	0.9	7	89
		EP	10 16 07.6	SZ	2.0		89
		E	10 19 39.	LT	30		89
		E	10 33 55.	LR	40	4120	89
		EL	10 41 55.	LZ	40		89
		EL	10 46 10.	SZ	0.4	2	0.7
		EP	11 28 30.3	ST	0.5	6	0.7
		ES	11 28 39.	SZ	0.8	23	
		EP	16 48 45.6	SZ	0.8	7	
		E	16 50 50.	SZ	1.1	3	87
		EP	22 13 08.0	LZ	25	872	87
		EL	22 42 41.	SZ	0.9	33	32
7	FM	EP	01 20 40.6	SZ	0.9	5	49
		EP	01 39 19.0	LZ	25	810	49
		EL	01 54 35.	SZ	0.7	6	
		EP	08 50 23.6	SZ	0.8	6	
		E	08 50 30.	LZ	20	570	
		EL	09 10 10.	SZ	1.1	24	86
		EP	10 15 53.5	SZ	2.0		86
		E	10 19 14.	LZ	22	1140	86
		EL	10 47 10.	SZ	0.5	3	
		EP	13 26 55.5	SZ	0.7	11	
		EP	16 48 17.8	SZ	0.6	4	
		E	16 48 26.	SZ	0.8	6	
		E	16 50 41.	SZ	1.0	6	85
		EP	22 12 55.5	SZ	0.5	42	42
7	NG	EP	01 22 01.7	SZ	0.7	58	42
		E	01 22 08.	SZ	0.5	12	69
		EP	10 14 21.8	SZ	1.0	252	
7	DH	EP	07 59 18.4	SZ	0.6	50	
		E	08 00 18.	SZ	0.7	95	28
8	SJ	EP	01 06 07.2	LZ	17	1091	28
		EP	01 06 09.	LZ	12	1120	28
		E	01 07 42.	SZ	0.9	47	94
		EP	05 56 03.8	SZ	0.8	36	39
		EP	10 51 30.8	SZ	0.8	23	39
		E	10 51 58.	SZ	0.5	42	
		EP	21 16 23.6	SZ	0.6	81	20
		EP	22 13 25.7	SZ	0.7	107	20
		E	22 13 35.	SZ	1.3	238	36
8	LC	IP	01 07 17.4	SZ	2.5		36
		EL	01 19 25.	SZ	1.0	5	
		EP	01 38 12.4	SZ	1.5	31	36
		EP	01 41 44.8	SZ	1.0	15	36
		EP	02 12 14.5	SZ	1.0		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
			05 09 01.1	SZ	0.9		10
		EP		IP	1.3		111
		IP	05 55 43.4	SZ	1.0		89
		E	05 56 25.	SZ	0.7		40
		EP	10 52 36.9	SZ	0.9		9
		E	10 53 05.	SZ	0.8		6
		EP	12 21 01.4	SZ	0.6		3
		E	17 33 17.	SZ	0.3		2
		IP	20 54 22.5	SR	0.3		6
		ES	20 54 42.	SZ	0.6		7
		EP	22 14 44.7	SZ	0.9		2
8	MV	EP	01 09 04.8	SZ	0.9		28
		E	01 13 06.	SZ	1.5		61
		E	01 14 36.	ST	4.5		87
		E	01 16 09.	ST	4.0		49
		E	01 18 57.	ST	8.5		49
		EL	01 27 30.	SZ	0.8		49
		EP	01 43 31.4	SZ	1.0		13
		EP	02 14 01.0	SZ	1.0		18
		E	02 14 11.	SZ	1.0		51
		EP	05 07 18.8	SZ	1.0		8
		EP	05 55 12.7	SZ	1.0		64
		EP	22 17 03.9	SZ	0.5		10
8	WI	EP	01 08 45.6	SZ	1.3		46
		EP	01 09 02.	LZ	15		46
		E	01 09 14.	SR	1.2		249
		E	01 09 39.	SR	1.2		158
		E	01 10 37.	LZ	22		46
		E	01 12 11.	SR	1.5		138
		E	01 15 38.	SR	1.8		46
		E	01 15 40.	LT	33		46
		E	01 17 17.	SR	3.0		46
		E	01 18 40.	SR	4.0		46
		E	01 18 50.	LT	27		46
		EL	01 22 05.	LT	35		46
		EL	01 24 19.	SR	5.0		46
		EP	01 43 14.0	SZ	1.4		40
		E	01 43 24.	SZ	0.8		10
		EP	02 13 44.0	SZ	1.0		18
		E	02 13 53.	ST	1.1		41
		E	02 15 25.	SZ	1.0		12
		EP	05 07 27.3	SZ	1.0		7
		EP	05 55 32.0	SZ	1.1		71
		E	05 55 48.	SZ	1.0		23
		E	05 56 14.	SZ	1.5		37
		E	05 59 51.	SZ	1.3		22
		EP	09 42 14.9	SZ	0.4		3
		E	09 42 24.	SZ	0.5		6
		ES	09 43 26.	SR	0.5		3
		EP	10 49 36.7	SZ	0.5		13
		ES	10 50 25.	ST	0.6		51
		EP	10 54 08.8	SZ	0.8		12
		EP	21 17 45.7	SZ	0.4		14
		ES	21 17 51.	SR	0.5		25
		EP	22 16 32.8	SZ	0.9		13
		E	22 16 45.	SZ	0.5		3

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	44
8	MN	E	22 18 34.	SZ	1.5	18	41	
		EP	01 08 44.6	SZ	1.4		46	
		EP	01 08 50.	LZ	20	3360	46	
		E	01 15 35.	LT	30	9250	46	
		E	01 19 00.	LR	15		46	
		EL	01 22 28.	LZ	50	55100	46	
		EP	01 43 12.2	SZ	1.0	17	46	
		EP	02 13 42.6	SZ	1.1	21	46	
		EP	05 07 39.3	SZ	1.0	9		
		IP	05 55 20.9	SZ	1.0		84	
		EP	08 52 14.6	SZ	0.7	1		
		IP	10 49 36.0	SZ	0.5	6	3.0	
		ES	10 50 20.	ST	0.5	25	3.0	
		EP	10 53 59.0	SZ	0.9	10	58	
8	FM	EP	01 08 09.6	SZ	1.4	45	42	
		E	01 08 42.	SZ	1.4		42	
		E	01 09 39.	SZ	1.5		42	
		E	01 10 05.	SZ	2.6		42	
		E	01 14 35.	LZ	22	3830	42	
		EP	01 42 37.5	SZ	1.0	6	41	
		E	01 42 53.	SZ	1.0	12	41	
		EP	02 13 07.7	SZ	1.0	9	42	
		E	02 13 17.	SZ	1.2	62	42	
		EP	05 55 42.2	SZ	1.1	75	88	
		E	05 55 53.	SZ	0.9	13	88	
		E	05 56 23.	SZ	0.8	8	88	
		EP	10 53 37.8	SZ	0.6	10	55	
		E	10 54 24.	SZ	1.0	9	55	
		E	10 54 42.	SZ	0.8	4	55	
		IP	21 42 18.4	SZ	0.3	8	2.1	
		ES	21 42 46.	SR	0.5	11	2.1	
		EP	22 15 55.3	SZ	0.5	4	36	
8	NG	EP	01 06 38.8	SZ	0.7	24	31	
		E	01 06 54.	SZ	0.6		31	
		E	01 07 01.	SZ	1.1	732	31	
		E	01 07 27.	SZ	1.2	609	31	
		EP	02 11 40.9	SZ	0.6	14	31	
8	DH	EP	01 05 35.5	SZ	0.7	51	24	
		E	01 10 05.	LT	30		24	
		EP	02 10 32.8	SZ	1.0	50	24	
		EP	15 28 36.6	SZ	0.5	25	1.5	
		ES	15 28 57.	SR	0.5	19	1.5	
		EP	20 32 19.1	SZ	0.4	23	1.8	
		ES	20 32 43.	SR	0.5	24	1.8	
10	LC	EP	02 28 40.5	SZ	1.0	10	49	
		EP	03 04 56.8	SZ	0.7	8	63	
		EP	06 33 25.5	SZ	2.0		21	
		EP	06 38 41.7	SZ	2.0		21	
		EP	16 47 07.7	SZ	0.3	2	3.0	
		ES	16 47 45.	SZ	0.7	10	3.0	
		IP	21 00 30.7	SZ	0.2	9	1.5	
		ES	21 00 51.	SZ	0.3	8	1.5	
10	CP	IP	03 05 38.2	SZ	1.1	34	68	
		EP	03 15 44.0	SZ	0.2	15	1.0	
		ES	03 15 56.	ST	0.2	17	1.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	45
		IP	03 21 34.3	SZ				1.1
		ES	03 21 48.	ST	0.2	34		1.1
		EP	04 40 07.1	SZ	0.6	3		
		EP	05 07 56.5	SZ	0.2	1		1.4
		ES	05 08 14.	ST	0.3	8		1.4
		EP	06 31 20.1	SZ	1.0	8		15
		EP	06 32 13.5	SZ	1.0	34		15
		EP	06 32 15.	LZ	13	429		15
		E	06 35 24.	LZ	22	4250		15
		EL	06 36 30.	LZ	17	1398		15
		EP	06 37 30.8	SZ	1.0	8		15
		EP	08 43 23.9	SZ	0.2	1		1.7
		ES	08 43 46.	ST	0.3	11		1.7
		EP	14 59 08.5	SZ	0.3	8		2.9
		ES	14 59 45.	ST	0.3	12		2.9
10	MV	EP	02 26 50.9	SZ	0.7	3		36
		E	02 27 11.	SZ	0.7	5		36
		E	02 29 20.	SZ	0.8	4		36
		EP	03 06 20.7	SZ	0.6	3		75
		EP	06 29 40.7	SZ	0.8	4		8
		EP	06 30 32.5	SZ	1.0	36		8
		E	06 31 03.	ST	1.2	35		8
		EL	06 33 23.	ST	8.5			8
		EP	06 35 51.2	SZ	1.0	9		8
10	WI	EP	02 27 03.3	SZ	1.2	8		37
		E	02 27 16.	SR	1.2	16		37
		E	02 28 12.	SZ	1.2	14		37
		E	02 30 21.	SZ	1.2	14		37
		EL	02 38 21.	LZ	22	1429		37
		EP	03 06 16.6	SZ	0.8	35		74
		E	03 06 24.	SZ	0.7	8		74
		E	03 06 53.	SZ	0.8	11		74
		EP	06 08 08.4	SZ	1.1	7		
		E	06 08 14.	SZ	1.1	11		
		EP	06 30 00.0	SZ	1.0	10		9
		E	06 30 06.	SZ	1.1	22		9
		E	06 30 12.	ST	1.0	12		9
		EP	06 30 52.3	SZ	1.0	55		9
		E	06 31 08.	SZ	1.2	71		9
		E	06 31 47.	SZ	1.3	43		9
		E	06 32 13.	SR	1.0	17		9
		E	06 32 48.	LZ	15	1515		9
		E	06 33 02.	SR	1.5	44		9
		EL	06 33 39.	LZ	22	3930		9
		E	06 34 00.	SR	2.0			9
		EL	06 35 01.	SZ	6.5			9
		EP	06 36 11.8	SZ	1.0	17		9
		E	06 36 39.	SR	1.0	17		9
		E	06 38 07.	SZ	1.3	25		9
		EP	07 10 18.6	SZ	0.8	3		
		EP	07 27 12.4	SZ	1.2	8		
		EP	10 08 50.8	SZ	0.6	2		6.5
		ES	10 10 08.	SR	1.0	26		6.5
10	MN	EP	02 27 13.5	SZ	0.9	2		38
		EL	02 37 21.	LZ	20	94		38

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	46
		EP	03 06 06.9	SZ	0.7	10	72	
		EP	06 30 12.2	SZ	0.9	2	10	
		EP	06 31 07.0	SZ	1.2	31	10	
		EL	06 32 42.	LT	20	4223	10	
		E	06 34 25.	LZ	20	4717		
		E	06 38 57.	LT	20	3995		
10	FM	EP	02 28 39.2	SZ	0.5	1	49	
		EP	03 05 50.0	SZ	0.6	24	69	
		EP	06 31 00.9	SZ	1.4	27	14	
		EP	06 31 53.3	SZ	2.0		14	
		EP	06 37 14.9	SZ	2.5		14	
		EP	17 22 41.7	SZ	0.3	4	2.0	
		ES	17 23 09.	SR	0.5	5	2.0	
		EP	19 01 47.3	SZ	0.3	5	2.0	
		ES	19 02 14.	SR	0.5	28	2.0	
10	NG	EP	02 29 01.4	SZ	0.5	13		
		E	02 29 09.	SZ	0.6	29		
10	DH	EP	02 30 03.8	SZ	1.0	69	60	
11	SJ	EP	03 04 56.6	SZ	0.5	7	66	
		EP	05 17 46.	LZ	14	1940	87	
		E	05 28 34.	LR	23	4130	87	
		EL	05 44 10.	LR	40	10650	87	
		EL	05 48 10.	LZ	30	4580	87	
		EP	06 59 37.5	SZ	1.0	10	64	
		EP	06 59 39.	LZ	12	1115	64	
		E	07 08 04.	LR	18	4120	64	
		E	07 15 56.	LT	22	3219	64	
		EL	07 16 32.	LT	35	4660	64	
		EL	07 20 20.	LZ	35	3345	64	
11	LC	EP	03 03 59.0	SZ	1.0	25	59	
		EP	05 17 56.3	SZ	1.0	35	89	
		E	05 18 39.	SZ	1.0	15	89	
		E	05 30 25.	LZ	15	403	89	
		EP	06 58 37.3	SZ	0.7	12	55	
		E	06 58 46.	SR	1.0	56	55	
		E	06 59 15.	SR	1.3	32	55	
		EL	07 05 18.	LZ	10	1315	55	
		EP	07 22 59.4	SZ	0.3	2		
		EP	21 11 12.8	SZ	0.3	7	1.5	
		ES	21 11 34.	SR	0.4	19	1.5	
11	CP	EL	03 18 34.	LZ	22	875	51	
		EP	05 18 17.5	SZ	1.2	40	94	
		E	05 31 55.	LZ	16	946	94	
		EL	05 43 42.	LZ	21	1143	94	
		EL	05 48 12.	LZ	22	538	94	
		EP	06 57 52.8	SZ	0.6	10	49	
		EL	07 08 49.	LZ	25	1200	49	
		EL	07 11 41.	LZ	30	4480	49	
		IP	17 42 34.0	SZ	0.2	39	0.1	
		ES	17 42 38.	ST			0.1	
11	MV	EP	02 55 10.1	SZ	0.5	1		
		EP	03 02 16.2	SZ	0.7	15	44	
		E	03 02 29.	SZ	1.0	27	44	
		E	03 02 36.	SZ	0.9	22	44	
		E	03 02 54.	SZ	1.0	24	44	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	47
		E	03 04 01.	SZ	1.0	12	44	
		EP	05 17 59.2	SZ	0.8	15	90	
		E	05 18 23.	SZ	1.1	24	90	
		EP	06 56 52.7	SZ	0.8	8	42	
		E	06 57 07.	SR	0.8	35	42	
		E	06 58 51.	SZ	0.8	9	42	
11	WI	EP	01 21 17.4	SZ	0.7	3		
		EP	03 02 25.2	SZ	0.9	8	46	
		E	03 02 36.	SZ	0.8	12	46	
		E	03 02 41.	SR	0.8	11	46	
		E	03 02 49.	ST	0.8	17	46	
		E	03 03 26.	SZ	1.0	12	46	
		EL	03 16 04.	LZ	28	1490	46	
		EP	03 20 07.6	SZ	1.0	5	113	
		EP	05 17 45.3	SZ	1.3	126	87	
		EP	05 17 46.	LZ	15	862	87	
		E	05 18 15.	SZ	1.0	31	87	
		E	05 21 01.	SZ	1.5	23	87	
		E	05 21 12.	LZ	17	592	87	
		E	05 22 52.	ST	1.5	21	87	
		E	05 28 25.	LR	21	2620	87	
		E	05 40 45.	LZ	24	1263	87	
		EL	05 43 07.	LT	40	17400	87	
		EL	05 47 12.	LZ	24		87	
		EP	06 02 48.5	SZ	1.0	5		
		EP	06 57 02.4	SZ	0.6	15	43	
		E	06 57 13.	SR	0.8	17	43	
		E	06 58 18.	SR	0.8	14	43	
		E	07 01 05.	SZ	1.4	18	43	
		E	07 03 30.	LT	23	2040	43	
		E	07 06 53.	LZ	19	1413	43	
		EL	07 09 38.	LZ	26	5470	43	
		EP	07 24 53.0	SZ	0.7	3		
		EP	10 15 22.2	SZ	1.0	5		
		EP	17 25 58.1	SZ	0.9	10		
		E	17 26 03.	SZ	0.9	10		
11	MN	EP	03 02 35.4	SZ	1.0	17	47	
		EL	03 16 23.	LZ	25	1256	47	
		EP	05 17 57.5	SZ	1.0	15	89	
		E	05 18 58.	LZ	20	660	89	
		E	05 21 27.	SZ	1.2	14	89	
		E	05 28 33.	LT	30	1146	89	
		E	05 35 05.	LT	40	5238	89	
		E	05 41 55.	LZ	25	1909	89	
		EL	05 43 35.	LR	40	6384	89	
		EL	05 47 50.	LZ	50	7282	89	
		EP	06 57 14.1	SZ	0.9	16	45	
		EP	06 57 18.	LZ	15	872	45	
		E	07 03 50.	LR	25	1871	45	
		E	07 07 07.	LR	20	2106	45	
		EL	07 09 15.	LZ	30	3676	45	
		EP	17 25 53.5	SZ	0.8	7		
		EP	23 26 19.9	SZ	1.0	6	78	
11	FM	EP	03 03 00.8	SZ	0.4	3	50	
		EL	03 16 55.	LZ	15	391	50	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	48
		EL	03 18 30.	LZ	21	1160	50	
		EP	05 17 43.8	SZ	0.9	13	87	
		E	05 18 10.	SZ	0.8	10	87	
		E	05 28 20.	LZ	18	910	87	
		EL	05 40 25.	LZ	25	997	87	
		EP	06 57 38.4	SZ	0.9	34	48	
		E	06 57 48.	SZ	1.0	93	48	
		E	07 04 48.	SR	3.0	25	48	
		EL	07 08 15.	LZ	21	2340	48	
		IP	20 08 33.3	SZ	0.3	4	1.4	
		ES	20 08 52.	SR	0.4	14	1.4	
11	NG	EP	03 04 10.4	SZ	0.6	29	58	
		EL	03 26 40.	LZ	25	980	58	
		EP	05 16 09.4	SZ	1.0	69	68	
		E	05 16 36.	SZ	1.0	52	68	
		E	05 25 32.	LZ	20	1684	68	
		EL	05 31 40.	LZ	25	2909	68	
		EP	06 58 49.7	SZ	0.5	32	57	
		E	07 10 08.	LZ	20	2521	57	
		EL	07 15 55.	LZ	25	2081	57	
		EP	21 12 49.7	SZ	0.3	11	0.1	
		ES	21 12 53.	SR	0.5		0.1	
11	DH	EP	05 15 34.7	SZ	1.4	127	64	
		EP	06 59 51.5	SZ	1.0	314	66	
12	SJ	EP	10 05 27.4	SZ	0.7	10	66	
		EP	11 05 41.9	SZ	0.7	10	66	
		EL	11 26 40.	LZ	3.0	1368	66	
		EP	11 26 44.0	SZ	0.5	7	64	
12	LC	EP	00 35 06.5	SZ	0.5	3		
		EP	09 03 38.3	SZ	0.6	3	93	
		EP	10 06 15.0	SZ	0.9	6	74	
		EP	11 04 43.2	SZ	0.8	6	57	
		EL	11 22 50.	LZ	35	1555	57	
		EP	11 27 03.7	SZ	0.6	4	68	
		EP	12 33 58.5	SZ	0.9	6		
		EP	13 38 48.3	SZ	0.6	3		
		EP	13 50 26.6	SZ	0.5	3	81	
		EP	15 51 09.5	SZ	0.4	3		
		E	15 51 52.	SR	0.5	7		
		EP	19 36 09.0	SZ	0.3	1	3.4	
		ES	19 36 51.	SR	0.6	4	3.4	
		EP	19 46 47.5	SZ	0.2	6	1.5	
		ES	19 47 07.	SR	0.4	8	1.5	
		EP	22 07 41.3	SZ	0.9	6		
12	CP	IP	01 10 09.3	SZ	0.2	11	0.8	
		ES	01 10 19.	ST	0.2	20	0.8	
		EP	01 46 41.7	SZ	0.3	6	0.9	
		ES	01 46 53.	ST	0.5	13	0.9	
		EP	07 00 42.9	SZ	0.3	4	1.0	
		ES	07 00 56.	ST	0.3	36	1.0	
		EP	08 12 14.7	SZ	0.3		0.1	
		ES	08 12 17.	ST	0.3	41	0.1	
		EP	08 42 33.1	SZ	0.3	2	2.0	
		ES	08 42 59.	ST	0.5	7	2.0	
		EP	09 02 56.7	SZ	1.0	6	85	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	49
		EL	09 32 11.	LZ	17	221	85	
		EP	10 06 52.1	SZ	0.7	6	80	
		EP	11 03 59.1	SZ	1.0	12	51	
		EL	11 18 53.	LZ	25	1398	51	
		EP	11 27 08.2	SZ	1.0	35	69	
		EL	11 48 40.	LZ	20	706	69	
		EP	22 07 07.2	SZ	0.9	14		
		E	22 07 11.	SZ	1.0	12		
12	WI	EP	02 06 05.1	SZ	0.4	4	2.4	
		ES	02 06 36.	ST	0.6	29	2.4	
		EP	09 02 42.4	SZ	0.8	6	82	
		E	09 02 56.	SZ	0.8	12	82	
		E	09 03 42.	ST	1.4	26	82	
		EL	09 30 10.	LZ	20	503	82	
		EP	10 07 21.2	SZ	0.5	1	86	
		E	10 07 30.	SZ	0.6	2	86	
		EP	11 03 11.5	SZ	1.0	11	45	
		E	11 04 54.	SZ	2.0		45	
		E	11 09 54.	LR	25	648	45	
		E	11 13 15.	LR	18	935	45	
		EL	11 15 10.	LZ	23	3680	45	
		EP	11 27 58.8	SZ	1.1	50	76	
		E	11 28 18.	SR	1.2	23	76	
		E	11 28 53.	ST	1.0	12	76	
		EL	11 53 02.	LZ	27	647	76	
		EP	12 34 52.3	SZ	0.9	3		
		EP	13 49 32.2	SZ	1.0	9	73	
		EP	16 26 08.0	SZ	0.3	11	0.1	
		ES	16 26 12.	SR	0.4	36	0.1	
		EP	22 05 52.5	SZ	1.1	75		
		E	22 06 04.	ST	1.2	41		
		E	22 06 17.	ST	1.2	37		
		E	22 06 38.	SZ	1.2	29		
		E	22 07 10.	SZ	1.2	20		
		E	22 13 00.	ST	2.0			
12	MN	EP	09 02 44.6	SZ	0.7	5	83	
		EP	11 03 21.1	SZ	1.0	10	46	
		E	11 10 05.	LR	20	428	46	
		EL	11 14 35.	LT	30	2275	46	
		EL	11 17 01.	LZ	30	2310	46	
		EP	11 27 41.0	SZ	1.0	19	74	
		EL	11 51 30.	LZ	25	1005	74	
		EP	13 49 24.5	SZ	0.7	3	72	
		EP	22 06 15.5	SZ	1.0	43		
12	FM	IP	07 36 20.2	SZ	0.3	10	1.0	
		ES	07 36 33.	SR	0.4		1.0	
		EP	09 03 05.0	SZ	0.5	4	87	
		EP	10 07 00.8	SZ	0.7	2	82	
		E	10 07 08.	SZ	1.0	18	82	
		EP	11 03 45.3	SZ	0.6	5	49	
		EP	11 27 43.7	SZ	0.6	3	74	
		EP	12 34 39.2	SZ	0.9	8		
		EP	13 49 42.5	SZ	0.7	4	75	
		E	13 49 58.	SZ	1.0	14	75	
		EP	22 06 28.5	SZ	0.8	4		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	50
12	NG	EP	20 52 02.1	SZ	0.4	6	0.8	
		ES	20 52 15.	SZ	0.8	214	0.8	
12	DH	EP	11 05 51.9	SZ	1.2	139	67	
		EP	20 03 04.1	SZ	0.4	23	1.9	
		ES	20 03 29.	SR	0.6	72	1.9	
13	SJ	EP	00 54 47.4	SZ	0.5	15	58	
		EP	03 50 22.8	SZ	0.5	15		
		EP	04 59 17.8	SZ	0.9	48	66	
		EP	11 33 36.5	SZ	0.7	10		
13	LC	EP	00 55 41.4	SZ	0.8	9	66	
		EP	04 58 19.6	SZ	1.0	40	57	
		E	05 00 54.	SZ	1.5	24	57	
		EP	11 34 07.5	SZ	0.5	2		
		EP	11 53 21.0	SZ	1.0	25	79	
		EP	13 34 08.5	SZ	0.7	4		
		E	13 34 37.	SR	0.7	7		
		E	13 35 54.	SR	1.0	33		
		E	13 36 23.	SR	1.4	59		
13	CP	EP	00 11 24.5	SZ	0.3	7	1.4	
		ES	00 11 42.	ST	0.4	7	1.4	
		EP	00 47 27.4	SZ	0.3	10	1.0	
		ES	00 47 40.	ST			1.0	
		EP	00 56 17.6	SZ	0.7	7	71	
		EP	03 15 59.6	SZ	1.0	8	78	
		IP	04 57 33.9	SZ	0.9	19	51	
		EL	05 11 06.	LZ	18	282	51	
		EL	11 56 33.	LZ	22	1412	93	
13	MV	EP	03 00 17.7	SZ	0.4	3	0.3	
		ES	03 00 22.	ST	0.5		9 0.0	
		EP	04 56 36.8	SZ	0.7	34	44	
		E	04 58 25.	SZ	1.4	24	44	
		EP	05 04 12.9	SZ	0.4	5	1.2	
		ES	05 04 30.	ST	0.5	29	1.2	
		EL	05 06 49.	LT	20	795	44	
		EP	05 17 52.9	SZ	0.4	2	1.2	
		ES	05 18 10.	ST	0.5	10	1.2	
		EP	05 21 39.3	SZ	0.4	2	1.2	
		ES	05 21 56.	ST	0.5	13	1.2	
		EL	09 06 44.	LZ	28	369	106	
		E	11 34 58.	SZ	0.8	4	105	
		EL	11 49 44.	LZ	25	313	105	
13	WI	EP	00 56 56.2	SZ	0.7	9	78	
		E	00 57 28.	SZ	1.0	33	78	
		ES	02 31 46.	SR	0.5	5	0.8	
		EP	02 59 48.0	SZ	0.5	3	2.5	
		ES	03 00 20.	ST	0.7	13	2.5	
		EP	03 16 10.4	SZ	0.5	5	80	
		EP	04 56 46.2	SZ	1.0	17	45	
		E	04 56 58.	ST	0.9	12	45	
		E	04 57 11.	SR	0.9	10	45	
		E	04 58 38.	SZ	1.2	11	45	
		E	05 00 43.	SZ	1.0	7	45	
		EP	05 00 43.0	SZ	0.7	4		
		EL	05 09 25.	LZ	21	1083	45	
		E	11 35 07.	SZ	1.1	11	104	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	51
		EL	11 52 15.	LZ	24	585	104	
		EP	11 53 02.6	SZ	1.3	40	77	
		E	11 53 24.	SR	1.4	18	77	
		EP	13 34 46.9	SZ	0.5	3		
13	MN	EP	00 56 47.7	SZ	1.0	10	77	
		EP	04 56 55.9	SZ	0.9	18	46	
		EL	05 10 37.	LZ	30	505	46	
		EL	09 07 50.	LZ	35	499		
		EL	11 50 38.	LZ	25	321	97	
		EP	11 52 50.8	SZ	1.2	43	75	
		EP	13 34 48.3	SZ	0.8	5		
13	FM	E	13 37 07.	ST	1.4	55		
		EP	03 46 02.2	SZ	0.3	1	5.6	
		E	03 46 11.	SZ	0.4			
		ES	03 47 08.	SR	0.5		5.6	
		EP	04 57 20.9	SZ	0.8	13	49	
		EP	10 34 50.9	SZ	1.0	7		
		E	10 35 04.	SZ	0.8	4		
		EP	11 53 16.4	SZ	0.5	7	79	
		EP	17 04 21.1	SZ	0.3	1	4.3	
		ES	17 05 13.	SR			4.3	
13	NG	EP	04 58 24.9	SZ	1.4	87		
		E	04 58 35.	SZ	0.8	37		
13	DH	EP	20 33 37.0	SZ	0.5	61	1.8	
		ES	20 34 01.	SR	0.6	77	1.8	
		EP	21 18 25.5	SZ	0.5	42	1.5	
		ES	21 18 46.	SR	0.5	22	1.5	
14	LC	EP	09 22 06.0	SZ	0.6	2		
		EP	13 41 03.9	SZ	1.0	20		
		EP	18 53 08.5	SZ	0.3	2		
		EP	20 39 00.8	SZ	0.2	6	1.4	
		ES	20 39 19.	SR	0.4	11	1.4	
		EP	21 56 32.6	SZ	0.4	3		
		E	21 59 05.	SR	0.3	4		
14	CP	IP	01 39 18.7	SZ	0.3	56	0.7	
		ES	01 39 28.	SR			0.7	
		EP	17 19 17.2	SZ	0.3	3	1.4	
		ES	17 19 35.	SR			1.4	
14	MV	EP	08 48 13.9	SZ	1.2	30		
		EP	09 30 06.2	SZ	1.0	19	88	
		EL	09 32 46.	LZ	18	319		
		EP	13 44 47.5	SZ	0.8	10	69	
		EP	16 11 51.9	SZ	0.4	11	1.0	
		ES	16 12 05.	ST	0.5	49	1.0	
		EP	23 20 14.7	SZ	0.5	6		
		E	23 20 39.	SZ	0.6	5		
		E	23 21 29.	SZ	0.6	6		
14	WI	EP	08 48 14.2	SZ	1.2	39		
		EP	09 30 22.0	SZ	1.0	12	91	
		EL	09 35 00.	LZ	22	398		
		EP	10 50 28.5	SZ	0.7	7	91	
		E	10 50 35.	SZ	1.0	10	91	
		EP	13 44 53.1	SZ	1.1	26	70	
		E	13 44 58.	SZ	1.1	28	70	
		E	13 45 51.	SZ	1.0	8	70	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	52
		EP	16 12 20.0	SZ	0.4	4	3.2	
		ES	16 13 00.	SR	0.6	5	3.2	
14	MN	EP	07 35 57.1	SZ	0.8	3	70	
		E	07 36 16.	SZ	0.9	3	70	
		EP	09 30 16.3	SZ	1.0	12	90	
		EL	09 30 25.	LZ	25	183		
		EP	10 50 21.5	SZ	1.0	8	90	
		EP	13 45 02.1	SZ	1.0	23	71	
		EP	16 12 08.2	SZ	0.4	11	1.8	
		ES	16 12 33.	ST	0.5	6	1.8	
		EP	20 49 55.3	SZ	0.3	3	0.3	
		ES	20 50 00.	ST	0.5	12	0.3	
14	FM	EP	07 36 28.4	SZ	0.5	2	75	
		EP	08 48 05.4	SZ	0.6	5		
		EL	09 22 16.	LZ	22	328		
		EP	09 30 37.9	SZ	0.6	3	95	
		EP	13 45 19.2	SZ	1.0	19	74	
		E	13 46 16.	SZ	0.8	7	74	
		E	13 48 10.	SZ	1.8		74	
15	SJ	EP	08 12 03.8	SZ	0.6	92		
		EP	08 29 44.8	SZ	0.7	30	40	
		EP	11 08 23.6	SZ	0.6	67		
		E	11 08 28.	SZ	0.6	40		
15	LC	EP	02 52 12.6	SZ	0.6	2		
		EP	08 13 23.6	SZ	0.7	9		
		E	08 14 17.	SR	1.0	10		
		IP	08 30 35.8	SZ	0.6	45	46	
		E	08 30 59.	SR	0.8	37	46	
		E	08 35 42.	SZ	1.0	5	46	
		EL	08 44 40.	LZ	30	690	46	
		IP	11 09 42.5	SZ	0.5	5	0.2	
		ES	11 09 47.	SR	1.0	30	0.2	
		E	11 10 22.	SZ	1.0	8	0.2	
		EP	17 52 28.1	SZ	0.4	4	2.4	
		ES	17 52 56.	SR	0.5	8	2.4	
		EP	20 51 16.2	SZ	0.3	6	1.4	
		ES	20 51 34.	SR	0.3	8	1.4	
15	CP	EP	03 50 16.4	SZ	0.3	1	3.7	
		ES	03 51 02.	ST	0.4	6	3.7	
		IP	04 32 22.2	SZ	0.3	27	1.3	
		ES	04 32 39.	SR			1.3	
		EP	06 13 16.5	SZ	0.2	1	2.0	
		ES	06 13 43.	SR	0.3	3	2.0	
		IP	06 58 37.7	SZ	0.2	8	1.2	
		ES	06 58 53.	SR	0.2	10	1.2	
		IP	08 29 59.8	SZ	0.2	4	1.4	
		ES	08 30 17.	SR	0.3	12	1.4	
		EP	08 31 38.4	SZ	0.8	10	54	
		E	08 32 42.	SZ	0.8	12	54	
		EP	16 03 13.7	SZ	0.3	51	1.6	
		ES	16 03 36.	SR			1.6	
		EP	19 54 20.3	SZ	0.3	2	1.0	
		ES	19 54 34.	SR			1.0	
		EP	21 38 42.4	SZ	0.7	2		
		E	21 38 59.	SZ	0.6	7		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	53
		E	21 40 17.	ST	0.6	4		
		EP	23 18 41.4	SZ	0.2	1	0.8	
		ES	23 18 53.	SR	0.5	5	0.8	
15	MV	EP	08 32 12.7	SZ	1.0	37	59	
		E	08 32 32.	SZ	1.0	40	59	
		E	08 42 23.	LZ	22	940	59	
		EL	08 52 26.	LT	25	441	59	
		EP	12 46 33.6	SZ	0.5	7	2.2	
		ES	12 47 02.	ST	0.6	7	2.2	
		E	18 36 34.	LZ	24	932		
		EP	22 26 43.8	SZ	0.3	3	0.5	
		ES	22 26 50.	ST	0.4	36	0.5	
		EP	23 18 08.3	SZ	0.7	55		
15	WI	EP	02 23 20.2	SZ	0.5	4	2.2	
		ES	02 23 49.	SR	0.7	34	2.2	
		EP	05 28 38.7	SZ	0.4	4	1.8	
		ES	05 29 03.	ST	0.5	17	1.8	
		EP	05 30 48.8	SZ	0.4	2	1.1	
		ES	05 32 03.	SR	0.8	6	1.1	
		EP	08 15 14.2	SZ	0.6	8		
		E	08 15 23.	ST	0.9	9		
		E	08 15 33.	ST	0.9	12		
		EP	08 17 16.0	SZ	0.6	7		
		E	08 17 45.	SZ	1.2	14		
		EP	08 31 54.3	SZ	0.9	94	57	
		E	08 32 12.	SZ	0.6	17	57	
		E	08 32 31.	SZ	0.8	22	57	
		EP	11 11 30.9	SZ	0.5	4		
		EP	23 18 33.3	SZ	0.3	10	2.6	
		ES	23 19 07.	SR	0.6	11	2.6	
15	MN	EP	04 33 23.1	SZ	0.8	9		
		EP	05 28 33.2	SZ	0.3	5	1.4	
		ES	05 28 51.	ST	0.4	13	1.4	
		EP	08 15 24.2	SZ	0.8	5		
		E	08 16 14.	SZ	0.8	5		
		EP	08 17 22.6	SZ	0.6	7		
		E	08 17 40.	SZ	1.0	16		
		EL	08 26 14.	LZ	40	672		
		EP	08 31 54.0	SZ	1.0	24	57	
		EL	08 52 15.	LZ	30	372	57	
		EP	11 11 20.3	SZ	0.7	6		
		EP	23 17 38.8	SZ	0.2			
15	FM	EP	02 23 06.2	SZ	0.6	3	2.6	
		ES	02 23 40.	ST			2.6	
		EP	08 14 36.4	SZ	0.5	4		
		E	08 14 48.	SZ	0.6	4		
		E	08 17 13.	SZ	0.6	7		
		EP	08 31 23.2	SZ	0.6	6	53	
15	NG	EP	08 14 25.7	SZ	0.5	62		
		EP	08 29 46.1	SZ	0.8	21	40	
		E	08 30 13.	SZ	1.0	51	40	
15	DH	EP	19 20 56.7	SZ	0.4	28	1.8	
		ES	19 21 20.	SR	0.4	52	1.8	
16	SJ	EP	11 49 10.	LZ	17	2850	97	
		E	11 53 15.	LZ	17	1370	97	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	11 59 39.	LR	20	6300	97
		E	12 01 50.	LZ	21	17100	97
		E	12 02 50.	LZ	19	3010	97
		E	12 07 05.	LT	27	10730	97
		E	12 10 40.	LT	30	12520	97
		E	12 12 05.	LR	16	2490	97
		E	12 19 51.	LZ	30	11800	97
		EL	12 19 51.	LZ	30	11800	97
		EP	18 28 52.4	SZ	0.6	81	72
16	LC	EP	11 48 50.8	SZ	1.0	11	94
		EP	11 48 52.	LZ	20	2556	
		E	11 49 11.	SR	0.6	5	94
		E	11 52 14.	SZ	3.0		94
		E	11 59 30.	LZ	20	3461	
		EP	15 24 36.2	SZ	1.5	100	55
		EP	18 28 42.1	SZ	1.0	20	70
		EP	18 41 41.2	SZ	0.6	3	
		EP	20 54 07.2	SZ	0.5	9	1.5
		ES	20 54 28.	SR	0.4	22	1.5
16	CP	EP	03 52 52.0	SZ	0.3	5	0.7
		ES	03 53 02.	ST	0.3	13	0.7
		EP	04 04 12.5	SZ	0.5	3	2.5
		ES	04 04 44.	SR	0.6	22	2.5
		EP	09 28 06.1	SZ	0.3	20	0.8
		ES	09 28 17.	SR	0.3	18	0.8
		EP	09 54 33.2	SZ	0.2	41	0.7
		ES	09 54 43.	ST			0.7
		IP	10 51 55.0	SZ	0.2	4	0.8
		ES	10 52 06.	SR	0.2	10	0.8
		IP	11 48 21.1	SZ	1.0	60	86
		EP	11 48 23.	LZ	21	3610	86
		E	11 48 59.	SZ	1.2	55	86
		E	11 51 43.	SZ	1.5		86
		E	11 58 56.	LR	23	9790	86
		E	12 00 06.	LT	26	5820	86
		E	12 08 02.	LZ	30	2398	86
		E	12 11 35.	LZ	27	3380	86
		EL	12 14 37.	LZ	30	16590	86
		EP	15 24 32.7	SZ	0.8	5	55
		EP	17 00 03.1	SZ	0.3	1	0.9
		ES	17 00 25.	SR	0.4	8	0.9
		EP	18 29 23.7	SZ	1.0	4	78
		EP	19 12 23.3	SZ	0.2	1	0.6
		ES	19 12 32.	SR	0.2	8	0.6
16	MV	EP	00 00 50.6	SZ	0.3	13	0.3
		ES	00 00 55.	ST	0.5	31	0.3
		EP	04 06 12.0	SZ	0.8	4	
		EP	11 48 26.7	SZ	0.6	10	88
		EP	11 48 27.	LZ	17	2620	88
		E	11 52 06.	SZ	1.1	16	88
		E	11 52 07.	LZ	17	1273	88
		E	11 59 04.	LT	21	1612	88
		E	11 59 10.	ST	5.0		88
		E	12 00 14.	LZ	25	3365	88
		E	12 03 35.	LZ	22	906	88
		E	12 05 05.	LZ	21	1540	88

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	12 08 36.	LZ	28	2118	88
		EL	12 15 12.	LZ	23	7580	88
		EP	15 25 23.6	SZ	1.5	24	62
		EL	15 44 17.	LZ	19	1360	62
		EP	18 29 38.2	SZ	0.5	2	80
		EL	18 57 21.	LZ	21	260	80
16	WI	EP	11 48 44.1	SZ	1.0	17	91
		EP	11 48 47.	LZ	20	2644	91
		E	11 49 00.	ST	0.8	13	91
		E	11 49 13.	ST	1.1	28	91
		E	11 52 27.	LZ	20	1184	91
		E	11 59 27.	LR	22	7920	91
		E	12 00 53.	LZ	24	7380	91
		E	12 05 57.	LT	22	3199	91
		EP	12 06 11.0	SZ	0.6	4	
		E	12 09 40.	LT	23	5460	91
		E	12 13 25.	LR	35	18540	91
		EL	12 17 00.	LZ	31		91
		EP	15 25 34.0	SZ	0.8	8	64
		E	15 25 51.	SZ	1.0	17	64
		EL	15 45 50.	LZ	30	1800	64
		EP	18 29 33.0	SZ	0.8	4	79
		E	18 29 36.	SZ	1.0	43	79
		E	18 29 53.	SZ	1.0	23	79
		E	18 30 07.	SZ	1.2	21	79
		EL	18 57 00.	LZ	25	3910	79
16	MN	EP	04 04 44.5	SZ	0.6	2	4.8
		ES	04 05 42.	SR	0.8	5	4.8
		EP	11 48 32.7	SZ	0.9	21	89
		EP	11 48 34.	LZ	20	2981	89
		E	11 52 09.	LZ	25	1410	89
		E	11 59 29.	ST	3.5		89
		E	11 59 30.	LT	25	9090	89
		E	12 05 28.	LT	25	5989	89
		E	12 09 00.	LT	30	7761	89
		EL	12 12 09.	LR	40	21773	89
		EL	12 15 52.	LZ	30		89
		EP	15 25 14.7	SZ	2.0		61
		EP	18 24 26.8	SZ	0.3	5	0.2
		ES	18 24 31.	ST	0.3	25	0.2
		EP	18 29 37.8	SZ	1.4	31	80
16	FM	EL	18 55 45.	LZ	30	364	80
		EP	11 48 52.7	SZ	1.0	15	93
		E	11 49 12.	SZ	1.0	59	93
		E	11 49 45.	SZ	1.2	25	93
		E	11 50 30.	LZ	20	903	93
		E	11 52 40.	LZ	18	1072	93
		E	11 59 50.	LZ	23	2600	93
		E	12 01 15.	LZ	22	4390	93
		E	12 18 10.	LZ	30	12470	93
		EP	15 25 19.1	SZ	0.9	7	62
		E	15 25 46.	SZ	1.4	28	62
		EP	18 29 10.2	SZ	0.6	3	75
17	SJ	EP	16 18 15.8	SZ	0.5	15	
16	NG	EP	11 54 50.0	LZ	22	1801	112

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	12 04 35.	LZ	24	6220	112
		E	12 10 05.	LZ	22	1801	112
		EL	12 27 10.	LZ	40	15230	112
16	DH	EL	12 26 00.	LT	50	21080	
		EP	22 34 02.6	SZ	0.5	45	1.8
		ES	22 34 27.	SR	0.5	79	1.8
17	SJ	EP	17 37 27.8	SZ	0.7	21	
		EP	18 50 37.8	SZ	0.5	8	
		EP	22 09 28.6	SZ	0.6	9	
		EP	22 26 31.3	SZ	0.5	23	
		EP	23 41 36.3	SZ	0.5	15	
17	LC	EP	09 18 34.3	SZ	0.7	3	
		EP	09 33 31.0	SZ	1.0	10	
		EP	13 38 32.4	SZ	0.9	12	
		EP	15 48 05.	SZ	1.0	8	119
		E	16 12 24.	SZ	0.8	3	118
		E	16 13 15.	LZ	15	1092	118
		E	16 24 00.	LZ	35	1655	118
		EP	17 35 49.4	SZ	0.3	3	0.7
		ES	17 35 59.	SR	0.3	15	0.7
		EP	18 20 22.2	SZ	0.4	2	
		EP	22 51 23.5	SZ	0.5	2	
		EP	23 39 47.3	SZ	0.7	5	24
17	CP	EP	11 41 39.4	SZ	1.0	7	81
		EP	13 38 17.1	SZ	0.7	7	
		E	13 38 24.	SZ	1.1	9	
		EL	14 13 39.	LZ	17	262	
		IP	15 04 39.0	SZ	0.2	9	0.6
		ES	15 04 48.	SR	0.2	14	0.6
		IP	15 08 52.5	SZ	0.2	13	0.1
		ES	15 08 56.	SR	0.3	35	0.1
		IP	18 16 24.1	SZ			0.7
		EP	18 51 30.5	SZ	0.2	1	0.7
		ES	18 51 40.	SR	0.2	6	0.7
		EP	18 57 31.4	SZ	0.3	12	0.2
		ES	18 57 36.	ST	0.3	20	0.2
		EP	20 39 13.3	SZ	0.4	1	1.6
		ES	20 39 35.	SR	0.4	9	1.6
		EP	21 30 59.7	SZ	0.3	3	2.0
		ES	21 31 26.	ST	0.4	2	2.0
		EP	22 43 37.8	SZ	0.2	2	1.2
		ES	22 43 53.	ST	0.3	7	1.2
		EP	23 40 48.7	SZ	0.7	3	31
17	MV	EP	23 43 25.6	SZ	0.5	5	
		EP	13 38 06.8	SZ	0.7	6	
		EL	16 17 36.	LZ	25	7000	104
		EP	20 05 20.2	SZ	0.4	4	2.2
		ES	20 05 49.	ST	0.5	22	2.2
17	WI	EP	00 05 32.6	SZ	0.7	6	
		EP	09 35 02.3	SZ	0.7	4	
		E	09 35 13.	SZ	0.7	4	
		EP	11 41 59.1	SZ	0.8	7	84
		EP	13 09 55.5	SZ	0.8	8	
		E	13 11 20.	SR	0.8	13	
		EP	13 38 12.3	SZ	0.7	9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	15 59 02.	SZ	0.8		
17	MN	EP	23 41 35.3	SZ	1.0	3	107
		EP	11 41 49.2	SZ	0.8	32	36
		EP	18 17 50.2	SZ	0.4	7	83
		IP	20 04 39.4	SZ	0.5	1	
		ES	20 04 55.	ST	0.5		1.2
		EP	22 21 12.3	SZ	0.4	3	1.2
		ES	22 21 22.	SR	0.4	10	0.7
		EP	22 22 39.1	SZ	1.0	14	0.7
		EP	23 00 40.0	SZ	1.0	6	
		EP	23 41 25.7	SZ	1.0	24	35
17	FM	E	23 43 38.	SZ	1.0	8	35
		EP	11 42 10.5	SZ	0.6	3	87
		E	11 42 26.	SZ	4		87
		EP	13 09 46.5	SZ	0.5	1	
		EP	13 38 20.9	SZ	0.7	10	
		EP	19 12 14.3	SZ	0.3	2	1.3
		ES	19 12 31.	SR	0.5	14	1.3
17	DH	EP	23 40 58.8	SZ	0.9	33	32
		EP	20 29 53.0	SZ	0.4	33	1.9
		ES	20 30 18.	SR	0.5	65	1.9
		EP	23 40 29.9	SZ	1.0	262	29
		E	23 41 01.	SZ	0.6	34	29
19	SJ	EP	06 12 51.0	SZ	0.8	46	75
		EP	16 48 10.7	SZ	0.8	22	
19	LC	EP	01 11 21.2	SZ	0.8	13	
		EP	06 11 59.0	SZ	1.2	75	66
		EP	10 34 42.3	SZ	0.5	2	
		EP	11 56 24.5	SZ	0.7	4	
		E	11 56 57.	SZ	10	8	
		EP	13 35 09.7	SZ	0.8	5	85
		EP	18 03 59.7	SZ	0.2	4	3.2
		ES	18 04 40.	ST	0.3	14	3.2
		E	18 39 00.	LZ	20	332	
		EP	19 06 09.1	SZ	0.4	3	1.0
		ES	19 06 22.	SR	0.4	4	1.0
		E	19 25 30.	LZ	25	1118	
		EP	19 36 13.2	SZ	1.5	71	
		EP	19 45 12.2	SZ	0.3	7	
		E	19 45 28.7	ST	0.6	4	
		EP	19 51 25.2	SZ	1.0	8	95
		E	21 47 48.	LZ	30	854	
19	CP	E	22 01 00.	LZ	30	1397	
		EP	02 01 34.5	SZ	0.3	3	3.2
		ES	02 02 15.	ST	0.5	12	3.2
		EP	05 16 10.8	SZ	0.2	1	0.7
		ES	05 16 20.	ST	0.4		0.7
		EP	06 11 19.6	SZ	1.2	34	61
		E	06 12 03.	SZ	1.2	13	61
		EL	06 29 30.	LZ	30	630	61
		IP	08 41 19.	LZ	22	230	
		ES	09 44 31.9	SZ	0.3	9	0.7
		EL	09 44 42.	ST	0.5		0.7
		EP	10 03 01.	LZ	22	230	
		EP	11 15 44.4	SZ	0.3	2	0.6

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	60
		EP	19 38 32.5	SZ	0.5	15	1.6	
		ES	19 38 54.	ST	0.5	49	1.6	
		EP	20 20 24.5	SZ	0.5	8		
		EP	20 54 44.3	SZ	0.5	90	1.8	
		ES	20 55 08.	SR	0.5	86	1.8	
21	LC	EP	03 02 48.2	SZ	0.8	5		
		E	03 03 29.	SZ	0.8	5		
		EP	12 31 55.7	SZ	1.0	20		
		E	12 33 38.	ST	1.5	23		
		EP	14 52 50.0	SZ	0.7	3		
		EP	20 08 25.7	SZ	0.9	6		
		EP	21 13 15.2	SZ	0.6	13	2.7	
		E	21 13 30.	SR	0.3	8	2.7	
		ES	21 13 50.	SR	0.3	15	2.7	
21	MV	EP	13 02 58.8	SZ	0.5	8	79	
		E	13 03 53.	SZ	0.7	8	79	
		E	13 04 54.	SZ	3.0		79	
		E	13 12 09.	ST	2.1		79	
		EL	15 59 42.	LZ	25	389		
21	WI	EP	03 35 44.4	SZ	0.3	3	1.1	
		ES	03 35 59.	SR	0.5	4	1.1	
		EP	13 03 17.6	SZ	0.5	17	82	
		E	13 03 39.	SZ	1.0	13	82	
		E	13 05 16.	SZ	1.2	17	82	
		EP	22 04 57.1	SZ	0.8	25		
21	MN	EP	03 04 30.8	SZ	0.8	3	89	
		EP	03 35 36.5	SZ	0.4	4	1.4	
		ES	03 35 54.	ST	0.5	24	1.4	
		EL	03 43 40.0	LZ	25	140		
		IP	09 58 58.3	SZ	0.3	13		
		EP	13 03 06.9	SZ	1.8		80	
		E	13 05 05.	SZ	3.0		80	
		EP	13 06 22.5	SZ	0.3	6		
		E	13 24 41.	LZ	25	794	80	
		EL	16 00 20.	LZ	30	827		
		IP	16 16 11.3	SZ	0.4	16		
		IP	16 19 12.0	SZ	0.3	10		
		EP	22 04 44.7	SZ	1.0	11		
21	FM	EP	13 03 29.8	SZ	0.7	9	85	
		E	13 05 32.	SZ	1.2	18	85	
22	LC	EP	00 30 13.1	SZ	0.5	2	1.6	
		ES	00 30 35.	SR	0.7	4	1.6	
		EP	04 05 55.1	SZ	0.3	2		
		EP	04 11 55.1	SZ	0.6	2		
		E	04 13 13.	SR	0.6	3		
		EP	17 15 35.3	SZ	0.3	3	2.5	
		ES	17 16 07.	SR	0.2	8	2.5	
		EP	20 12 35.3	SZ	0.3	2	2.3	
		ES	20 13 05.	ST	0.7	11	2.3	
		EP	21 15 51.5	SZ	0.2	3	2.6	
		ES	21 16 25.	SR	0.4	6	2.6	
		EP	21 56 42.8	SZ	0.3	6		
		E	21 57 21.	SR	0.4	4		
		E	21 58 05.	SR	0.5	5		
		E	21 58 20.	SR	0.6	5		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	60
22	MV	EP	07 39 01.7	SZ	1.0	22	83	
22	WI	EP	00 06 34.1	SZ	0.9	17		
		EP	07 38 57.9	SZ	1.3	80	82	
22	FM	EP	07 39 14.9	SZ	0.6	5	85	
		IP	20 34 25.9	SZ	0.3	6	2.1	
		ES	20 34 53.	SR	0.5	14	2.1	
22	DH	EP	04 31 30.0	SZ	1.0	180		
		EP	18 05 46.8	SZ	0.5	18	1.4	
		ES	18 06 06.	SR	0.5	16	1.4	
23	SJ	EP	16 09 08.4	SZ	0.5	15	57	
		E	16 17 05.	LR	15	1800	57	
		E	16 21 35.	LZ	16	760	57	
		EL	16 25 10.	LT	20	1630	57	
		EL	16 28 20.	LR	30	2070	57	
23	LC	EP	08 41 47.5	SZ	0.5	2		
		EP	16 08 07.0	SZ	1.0	23	49	
		E	16 09 43.	SZ	1.0	5	49	
		E	16 13 20.	LZ	25	10		
		EP	17 44 11.6	SZ	1.0	20	86	
		EP	18 13 10.8	SZ	0.3	6	2.4	
		ES	18 13 42.	SR	0.3	3	2.4	
		EP	18 45 05.1	SZ	0.2	14	1.5	
		ES	18 45 24.	SR	0.5	5	1.5	
		EP	23 04 31.2	SZ	0.4	2	3.9	
		ES	23 05 19.	SR	0.3	11	3.9	
23	MV	EP	16 06 18.1	SZ	0.6	4	36	
		E	16 08 44.	SZ	0.6	6	36	
		E	16 08 52.	LZ	24	236	36	
		E	16 11 59.	LZ	17	522	36	
		EL	16 14 32.	LR	16	745	36	
		EL	16 15 57.	LZ	26	1745	36	
23	WI	EP	02 31 35.4	SZ	0.3	17	0.8	
		EP	10 56 27.1	SZ	0.4	4	1.3	
		ES	10 56 44.	ST	0.5	6	1.3	
		EP	11 45 51.3	SZ	0.5	4		
		EP	16 06 25.8	SZ	0.7	3	36	
		E	16 07 25.	ST	1.0	25	36	
		E	16 08 48.	SZ	0.9	16	36	
		E	16 12 20.	LR	21	877	36	
		E	16 12 50.	SZ	1.3	22	36	
		E	16 14 35.	LZ	20	1671	36	
		EL	16 16 48.	LZ	21	4565	36	
		EP	17 44 05.1	SZ	1.2	25	84	
23	MN	IP	15 49 07.4	SZ	0.3		0.2	
		ES	15 49 12.	ST	0.4		0.2	
		EP	16 06 40.9	SZ	1.0	6	38	
		E	16 12 22.	LR	25	1427	38	
		EL	16 15 05.	LT	40	3126	38	
		EL	16 17 20.	LZ	27	2673	38	
		EL	19 17 25.	LZ	45	1245		
		EP	22 50 34.8	SZ	0.4	2	1.2	
		ES	22 50 49.	SR	0.5	10	1.2	
23	FM	IP	08 17 24.2	SZ	0.3	8	0.1	
		ES	08 17 26.	SR	0.4		0.1	
		EP	16 07 02.5	SZ	1.1	15	41	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	62
		E	16 07 37.	SZ	1.2	41	41	
		E	16 16 28.	LZ	18	785	41	
		EL	16 18 10.	LZ	30	1990	41	
23	NG	EP	17 44 02.6	SZ	1.0	18	83	
		EP	16 08 21.0	SZ	0.9	71	51	
		E	16 08 32.	SZ	0.8	100	51	
		E	16 19 52.	LZ	23	1002	51	
		EL	16 28 35.	LZ	20	2220	51	
23	DH	EP	16 09 30.9	SZ	0.7	116	61	
		EP	19 13 56.7	SZ	0.4	17	1.9	
		ES	19 14 22.	SR	0.5	30	1.9	
		EP	19 20 38.1	SZ	0.5	13	1.7	
		ES	19 21 01.	SR	0.5	48	1.7	
24	SJ	EP	03 10 48.5	SZ	0.5	22	58	
		E	03 16 25.	SZ	0.9	48	58	
		EP	05 37 45.1	SZ	0.6	36	50	
		EP	07 34 13.0	SZ	0.5	7		
		E	07 36 46.	SR	1.0	18		
		EP	14 35 27.8	SZ	1.0	40		
		EP	14 35 32.	LZ	10	862		
		E	14 37 45.	SR	1.0	60		
		E	14 37 50.	LR	10	810		
		E	14 38 50.	LR	25	6760		
		EP	19 51 33.4	SZ	0.5	7		
		EP	20 08 46.7	SZ	0.7	41		
24	LC	EP	03 11 42.7	SZ	0.5	4	67	
		EP	05 03 17.7	SZ	0.5	3		
		E	05 14 00.	LZ	35	791		
		EP	05 36 41.9	SZ	0.7	9	42	
		EP	06 15 13.7	SZ	0.6	2		
		IP	07 35 44.6	SZ	1.0	33		
		IP	14 36 55.8	SZ	1.0	10		
		E	14 37 56.	SZ	1.0	20		
		E	14 41 35.	LZ	30	1000		
		E	14 42 57.	SZ	3.0			
		EP	15 13 12.3	SZ	0.4	2	1.7	
		ES	15 13 35.	SR	0.5	9	1.7	
		EP	15 53 43.3	SZ	0.5	2	1.6	
		ES	15 54 05.	SR	0.5	5	1.6	
		E	16 23 10.	LZ	40	903		
		EP	17 40 47.9	SZ	0.2	6	2.5	
		ES	17 41 20.	SR	0.3	6	2.5	
		EP	17 50 51.2	SZ	0.5	3		
		EP	18 27 05.7	SZ	1.0	8		
		E	18 28 42.	SR	1.0	30		
		EP	19 13 09.2	SZ	0.5	4	0.7	
		ES	19 13 19.	SR	0.5	6	0.7	
		EP	20 20 26.4	SZ	0.8	5		
		E	20 20 60.	SR	1.0	15		
		EP	20 28 01.2	SZ	0.2	8	1.6	
		ES	20 28 22.	SR	0.5	17	1.6	
		EP	22 34 17.6	SZ	0.2	4	0.7	
		ES	22 34 27.	SR	0.4	8	0.7	
24	MV	EP	03 13 01.0	SZ	1.0	15	80	
		EP	04 58 53.9	SZ	0.6	9	86	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	63
		E	04 59 27.	SZ	0.6	6	86	
		EL	07 50 56.	LZ	18	277		
		EP	15 13 30.4	SZ	0.4	5	0.8	
		ES	15 13 41.	SR	0.5	13	0.8	
24	WI	EP	15 52 54.0	SZ	1.0	51	93	
		EP	01 21 33.4	SZ	1.3	18		
		EP	03 12 56.6	SZ	1.0	104	79	
		E	03 13 51.	SZ	0.8	8	79	
		EP	04 59 12.1	SZ	1.5	40	89	
		E	04 59 45.	SZ	1.5	34	89	
		E	05 02 44.	SZ	1.5	34	89	
		EP	05 34 55.9	SZ	0.6	11	29	
		E	05 35 17.	SZ	1.0	15	29	
		EP	07 37 39.8	SZ	0.8	41		
		E	07 37 48.	SZ	0.7	12		
		E	07 53 40.	LZ	16	1810		
		EP	14 38 55.4	SZ	1.0	30		
		E	14 39 07.	SR	1.3	29		
		E	14 49 35.	LT	18	5280		
		E	14 52 20.	LZ	13	6840		
		EP	15 14 40.5	SZ	0.5	2	5.0	
		ES	15 15 41.	ST	0.6	10	5.0	
24	MN	EP	15 53 03.2	SZ	1.0	43	95	
		EP	03 12 48.3	SZ	1.0	23	78	
		EP	04 59 03.9	SZ	1.5	59	88	
		EP	05 27 58.7	SZ	1.3	10		
		EP	05 35 13.8	SZ	0.6	4	31	
		E	05 35 42.	SZ	1.0	6	31	
		EL	05 55 20.	LZ	23	154		
		EP	07 37 25.5	SZ	0.9	17		
		EL	07 47 50.	LT	30	1166		
		EL	07 49 22.	LZ	20	26		
		EP	14 38 40.6	SZ	1.5	49		
		EL	14 46 53.	LT	35	1537		
		E	14 51 20.	LZ	12	9644		
		EP	15 13 57.8	SZ	0.5	2		
		EP	15 53 09.2	SZ	1.0	15	94	
24	FM	EL	16 25 05.	LZ	35	478	94	
		EP	03 12 33.1	SZ	0.6	38	75	
		E	03 13 27.	SZ	1.0	11	75	
		EP	05 35 32.3	SZ	0.8	13	33	
		EP	14 38 18.2	SZ	1.0	14		
		E	14 38 42.	SZ	1.2	29		
		E	14 38 53.	SZ	1.2	23		
		E	14 39 45.	SZ	1.4	36		
		E	14 43 25.	LZ	18	352		
		E	14 47 48.	LZ	20	1680		
24	NG	EP	05 36 34.8	SZ	0.6	51	41	
24	DH	EP	15 31 45.2	SZ	0.5	42	1.5	
		ES	15 32 06.	SR	0.5	41	1.5	
		EP	17 36 09.3	SZ	0.5	24	1.8	
		ES	17 36 33.	SR	0.5	87	1.8	
25	SJ	EP	07 34 53.1	SZ	0.8	26	51	
		ES	07 39 42.	SZ	0.9	5	51	
		E	07 42 00.	SR	1.0	38	51	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	64
25	LC	EP	10 13 21.8	SZ	0.8	64	62	
		EP	02 03 30.9	SZ	1.0	10	98	
		EP	02 34 39.2	SZ	1.0	13		
		E	02 35 11.	ST	0.8	3		
		EP	06 53 29.1	SZ	0.8	6		
		EP	07 35 50.1	SZ	0.7	9	60	
		ES	07 43 45.	SR	2.5		60	
		EP	10 12 53.3	SZ	1.0	45	57	
		EP	12 13 39.7	SZ	0.7	4		
		IP	15 10 13.1	SZ	1.0	15		
		EP	20 22 55.0	SZ	0.4	2		
		E	20 23 04.	SZ	1.0	18		
		E	20 32 35.	SZ	0.8	5		
		E	20 35 01.	SR	0.8	3		
25	MV	EP	01 53 48.1	SZ	0.5	2	2.9	
		ES	01 54 24.	ST	0.5	10	2.9	
		EP	02 02 51.0	SZ	1.0	51	87	
		EP	02 02 55.0	LZ	13	306	87	
		E	02 03 58.	SZ	1.0	12	87	
		E	02 06 19.	SZ	1.3	25	87	
		E	02 13 38.	LT	18	447	87	
		E	02 15 26.	LT	16	407	87	
		E	02 19 07.	LT	25	442	87	
		E	02 25 50.	LT	50	1600	87	
		EL	02 26 43.	LT	25	590	87	
		EP	07 37 16.5	SZ	0.6	4	73	
		EP	10 12 17.6	SZ	1.3	31	53	
		E	10 13 27.	SZ	0.8	7	53	
		E	10 19 55.	LT	21	410	53	
		E	10 24 49.	LR	22	306	53	
		EL	10 27 14.	LZ	19	294	53	
		EP	12 26 28.0	SZ	0.8	6	84	
25	WI	EP	02 03 08.1	SZ	1.3	153	91	
		E	02 03 36.	SR	1.0	35	91	
		E	02 03 59.	ST	1.0	28	91	
		E	02 15 00.	LT	23	1190	91	
		EL	02 31 10.	LZ	20	2292	91	
		EP	07 37 09.4	SZ	0.7	30	72	
		E	07 38 03.	SZ	0.9	15	72	
		E	07 46 18.	ST	1.4	21	72	
		EP	09 38 10.3	SZ	0.6	2	90	
		E	09 38 34.	SZ	1.0	11	90	
		EP	10 12 44.1	SZ	1.2	51	56	
		E	10 13 42.	SZ	1.2	37	56	
		EL	10 30 00.	LZ	15	704	56	
		EP	11 59 24.0	SZ	0.3	5	1.6	
		ES	11 59 46.	ST	0.5	5	1.6	
		EP	12 15 45.1	SZ	0.6	6		
		EP	15 11 30.7	SZ	0.7	6		
		EP	20 24 57.4	SZ	0.7	11		
		E	20 25 12.	SZ	0.7	5		
		EP	20 34 30.1	SZ	0.7	6		
		EP	20 50 33.1	SZ	0.8	4		
25	MN	IP	01 53 14.2	SZ	0.3	12	1.2	
		ES	01 53 30.	ST	0.4		1.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	65
		EP	02 03 01.1	SZ	1.4	128	90	
		E	02 20 08.	LT	22	1230	90	
		EL	02 27 05.	LT	35	2161	90	
		EL	02 30 42.	LZ	35	2687	90	
		EP	07 37 00.4	SZ	0.8	9	70	
		EP	09 38 18.5	SZ	1.0	3	92	
		EP	10 12 25.6	SZ	1.2	39	54	
		E	10 13 32.	SZ	1.0	15	54	
		EL	10 27 25.	LZ	35	252	54	
		EP	11 59 19.3	SZ	0.3	5	1.4	
		ES	11 59 37.	SR	0.4		1.4	
		EP	22 13 51.6	SZ	0.3	3	0.6	
		ES	22 14 00.	SR	0.4	11	0.6	
25	NG	EP	22 47 22.2	SZ	0.8	4	80	
		EP	00 37 44.4	SZ	0.4	6		
		EP	07 36 13.9	SZ	0.6	15	66	
25	DH	EP	10 14 40.9	SZ	0.6	22	75	
		EP	07 35 37.4	SZ	0.7	101	58	
		EP	10 15 31.0	SZ	1.0	136	84	
		EP	17 10 44.0	SZ	0.5	88	1.8	
26	SJ	ES	17 11 08.	SR	0.5	87	1.8	
		EP	02 45 51.0	SZ	0.5	16		
		EP	06 22 14.8	SZ	0.6	25	91	
		EP	08 31 09.3	SZ	1.0	60	98	
		EP	08 31 10.	LZ	15	850	98	
		EL	09 00 00.	LR	17	2900	98	
		EP	18 44 30.	LZ	12	915	18	
		EP	18 44 35.4	SZ	0.7	20	18	
26	LC	EL	18 50 10.	LR	20	3510	18	
		EP	00 42 24.8	SZ	0.7	3		
		EP	00 52 11.2	SZ	0.8	3		
		EP	02 47 21.2	SZ	1.0	20		
		E	02 48 03.	SR	1.0	8		
		EP	05 35 21.3	SZ	1.0	31	91	
		EP	06 21 54.0	SZ	1.0	112	87	
		EP	08 06 45.3	SZ	0.4	2		
		EP	08 28 04.3	SZ	0.6	2		
		EP	08 31 03.5	SZ	1.3	58	97	
		E	08 35 10.	SZ	2.0		97	
		E	08 41 55.	LT	10	2416	97	
		EP	14 46 02.0	SZ	1.0	13	72	
		EL	15 06 25.	LZ	20	685	72	
		E	15 10 00.	LZ	15	535	72	
		E	15 21 05.	LZ	15	1338	72	
		EP	17 49 42.9	SZ	0.3	7	0.9	
		ES	17 49 55.	SR	0.4	5	0.9	
		EP	18 45 56.5	SZ	1.0	56	26	
		EP	18 45 57.	LZ	10	2184	26	
		E	18 47 13.	ST	1.5	33	26	
		E	18 50 22.	LR	15	2339	26	
		EP	21 10 03.3	SZ	0.7	24		
26	WI	EP	22 34 56.9	SZ	1.0	7		
		EP	02 49 16.7	SZ	0.8	28		
		EP	05 34 20.8	SZ	0.9	27	79	
		EP	05 47 01.2	SZ	0.6	3		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	66
		EP	06 21 42.1	SZ	0.9	53	84	
		E	06 22 06.	SZ	0.9	18	84	
		EP	08 08 40.4	SZ	0.8	4		
		EP	08 31 03.5	SZ	1.4	108	96	
		E	08 32 25.	ST	1.5	29	96	
		E	08 34 53.	SZ	2.0		96	
		E	08 43 59.	LT	22	963	96	
		EL	09 02 30.	LZ	26	9940	96	
		EP	14 47 00.5	SZ	1.4	23	82	
		EP	18 47 48.1	SZ	1.5	192	39	
		E	19 00 20.	LT	20	3285	39	
		EL	19 05 00.	LZ	15	3519	39	
26	MN	EP	02 49 03.0	SZ	1.0	15		
		EL	02 59 57.	LT	25	508		
		EL	03 01 20.	LZ	25	162		
		EP	05 34 26.8	SZ	1.0	14	80	
		EP	06 21 30.5	SZ	1.0	40	82	
		EP	08 31 16.7	SZ	1.0	9	99	
		E	08 35 15.	SZ	2.1		99	
		E	08 41 57.	LT	12	2034	99	
		E	08 44 20.	LT	22	796	99	
		EL	09 00 40.	LR	50	4758	99	
		EL	09 06 27.	LZ	35	2393	99	
		EP	18 47 34.4	SZ	1.4	119	38	
		EL	18 58 05.	LT	30	2400	38	
		EL	18 59 22.	LZ	30	573	38	
26	FM	EP	05 34 44.5	SZ	0.7	38	84	
		E	05 36 02.	SZ	1.0	7	84	
		EP	06 21 52.6	SZ	1.0	38	86	
		E	06 22 18.	SZ	0.9	15	86	
		EP	07 02 03.1	SZ	0.4	2	1.7	
		ES	07 02 26.	SR	0.5	9	1.7	
		EP	08 31 01.5	SZ	1.1	38	96	
		E	08 34 01.	SZ	1.0	7	96	
		E	08 34 40.	SZ	1.1	19	96	
		E	08 34 51.	SZ	2.0		96	
		E	08 41 33.	LT	12	748	96	
		E	08 43 41.	LZ	12	2244	96	
		EL	08 57 30.	LZ	20	440	96	
		E	09 04 00.	LZ	30	882	96	
		E	09 13 10.	LZ	22	6826	96	
		EP	09 43 06.6	SZ	1.0	4		
		EP	14 46 44.5	SZ	1.1	19	79	
		EP	15 42 43.4	SZ	0.7	2		
		EP	18 47 10.5	SZ	1.3	65	35	
		E	18 48 25.	SZ	1.2	23	35	
		EP	21 11 05.4	SZ	0.5	12		
		IP	23 35 26.9	SZ	0.3	34	1.4	
		ES	23 35 47.	SR			1.4	
26	DH	EP	08 29 05.5	SZ	1.0	337	73	
		EP	19 07 40.7	SZ	0.4	22	1.9	
		ES	19 08 06.	SR	0.5	49	1.9	
27	SJ	EP	00 56 21.5	SZ	0.5	13		
		EP	05 17 18.6	SZ	0.5	13		
		EP	23 11 10.8	SZ	1.2	61	15	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	67
27	LC	EP	00 57 45.5	SZ	1.0	5		
		E	00 58 19.	SR	1.0	5		
		EP	07 35 44.8	SZ	1.0	15		
		EP	08 23 15.4	SZ	0.6	3		
		EP	12 13 46.1	SZ	1.0	13		
		E	12 36 00.	LZ	20	342		
		EP	16 10 02.5	SZ	0.4	2	2.8	
		ES	16 10 38.	SR	0.6	9	2.8	
		EP	20 01 12.5	SZ	0.7	3		
		EP	22 00 34.5	SZ	0.2	1		
		EP	22 07 32.0	SZ	0.3	3	23	
		EP	23 01 05.5	SZ	0.8	8		
		E	23 03 05.	SZ	1.0	20		
		E	23 03 58.	LZ	15	2007		
		E	23 05 48.	SR	0.6	5		
		E	23 07 26.	SR	1.1	30		
		E	23 08 21.	LZ	15	2409		
		EP	23 09 22.5	SZ	0.6	24	7	
		E	23 09 27.	LT	80	18173	7	
27	SJ	E	23 15 31.	SZ	1.4	127	15	
27	LC	EP	23 18 21.0	SZ	1.7			
		E	23 20 10.	LZ	30	1800		
		E	23 20 28.	SZ	1.0	46		
		E	23 24 17.	SZ	1.1	27		
		EP	23 27 51.0	SZ	1.0	18	7	
		EL	23 29 36.	SR	1.0	30	7	
		EL	23 32 12.	SZ	1.0	28	7	
		E	23 57 51.	SZ	0.6	2		
27	CP	EP	03 04 24.1	SZ	0.2	5	0.5	
		ES	03 04 32.	SR	0.4		0.5	
		EP	12 03 30.7	SZ	0.2	2	1.1	
		ES	12 03 45.	SR	0.2	7	1.1	
		EP	12 13 12.8	SZ	0.8	5		
		E	12 39 22.	LZ	20	260		
		EL	12 42 28.	LZ	20	522		
		EP	12 52 42.7	SZ	0.3	11	1.0	
		ES	12 52 56.	SR	0.5		1.0	
		EP	14 05 18.6	SZ	0.3	7	0.2	
		ES	14 05 23.	SR	0.3	13	0.2	
		EP	23 00 14.1	SZ	0.6	4	1.0	
		ES	23 00 27.	SR	0.6		1.0	
		EP	23 04 46.0	SZ	0.6	13	0.6	
		ES	23 04 55.	SR	0.6		0.6	
		E	23 05 04.	LZ	13	4090	0.6	
		EP	23 08 04.0	SZ	0.9	33	1.3	
		ES	23 08 20.	SR			1.3	
		ES	23 08 22.	LT	13	64300	1.3	
		EP	23 24 09.2	SZ	0.3	3	0.1	
		ES	23 24 13.	SR	0.4	10	0.1	
		EP	23 26 41.6	SZ	0.3	3	1.3	
		ES	23 26 58.	SR			1.3	
		EP	23 40 11.5	SZ	0.4	5	2.9	
		ES	23 40 47.	SZ	0.5	10	2.9	
		EP	23 55 01.7	SZ	0.3	2	0.3	
		ES	23 55 07.	SR	0.4	10	0.3	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	68
27	MV	EP	06 38 02.4	SZ	0.7	5		
		E	06 41 10.	LZ	18	338		
		E	06 45 42.	LT	30	383		
		E	07 07 10.	LT	53	3630		
		E	07 12 55.	LT	21	421		
		E	07 13 54.	LT	20	1920		
		EL	07 15 15.	LR	30	1122		
		EP	07 34 00.8	SZ	0.8	10		
		EP	10 08 07.5	SZ	0.4	3		
		EP	12 13 17.8	SZ	1.0	6		
		EL	12 41 52.	LZ	19	193		
		EP	16 29 07.4	SZ	0.4	10	0.5	
		ES	16 29 13.	ST	0.5	42	0.5	
		IP	18 13 08.2	SZ	0.5	25	0.3	
		ES	18 13 12.	ST	0.6	68	0.3	
		EP	20 36 21.8	SZ	0.3	3	0.2	
		ES	20 36 24.	ST	0.3	11	0.2	
		EP	22 04 36.8	SZ	0.5	2	8.5	
		EL	22 06 45.	LT	22	580	8.5	
		E	23 05 05.	LZ	18	193		
		E	23 06 25.	LZ	14	226		
		EP	23 10 11.9	SZ	0.8	6	10	
		EL	23 13 06.	ST	1.7		10	
27	WI	EP	06 38 06.7	SZ	1.1	17		
		E	06 41 23.	LZ	18	646		
		EP	12 13 36.8	SZ	1.2	15		
		EP	12 31 23.9	SZ	0.9	7		
		EP	16 29 05.4	SZ	0.6	43		
		EP	18 13 37.1	SZ	0.3	2	2.1	
		ES	18 14 05.	SR	0.5	7	2.1	
		EP	22 04 58.6	SZ	1.0	13	10	
		EP	23 05 36.3	SZ	1.4	23		
		E	23 06 04.	SZ	1.5	41		
		EP	23 10 22.6	SZ	1.2	47	11	
		EP	23 10 25.	LZ	12	2295	11	
		E	23 12 28.	LR			11	
		EL	23 13 40.	LZ	14	33400	11	
27	MN	IP	05 25 47.8	SZ	0.3	3	0.5	
		ES	05 25 55.	SR	0.4	27	0.5	
		EP	06 38 30.2	SZ	1.4	14		
		E	06 41 48.	LZ	25	509		
		EP	11 52 09.6	SZ	0.7	5		
		EP	12 12 25.1	SZ	1.1	16		
		EP	12 30 12.6	SZ	1.0	5		
		EL	12 42 13.	LZ	20	161		
		IP	12 44 11.8	SZ	0.3	3	0.1	
		ES	12 44 15.	ST	0.3	621	0.1	
		EP	15 27 35.0	SZ	0.3	9	1.2	
		ES	15 27 50.	SR	0.5		1.2	
		IP	17 10 13.3	SZ	0.3	6	0.2	
		ES	17 10 18.	ST	0.4		0.2	
		EP	18 11 33.3	SZ	0.3	2	2.6	
		ES	18 12 05.	ST	0.5	8	2.6	
		EL	21 11 26.	LZ	35	247		
		EP	23 01 49.8	SZ	1.0	4		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	69
		EL	23 03 52.	LT	20	421		
		EL	23 08 15.	LT	20	361		
		EP	23 09 46.5	SZ	1.0	27	8.5	
		E	23 11 20.	LT	20		8.5	
27	FM	EP	23 28 13.7	SZ	1.0	4	8.5	
		EP	07 34 45.9	SZ	0.6	15		
		EP	11 53 05.2	SZ	0.5	13		
		EP	12 13 46.2	SZ	1.0	10		
		E	12 14 00.	SZ	1.4	26		
		EP	16 29 48.8	SZ	0.5	13	6.8	
27	DH	E	16 31 08.	SR	0.6	43	6.8	
		EP	12 12 17.5	SZ	0.4	49	3.2	
		ES	12 12 57.	SR	0.4	56	3.2	
		EP	19 28 16.5	SZ	0.5	85	1.8	
28	SJ	ES	19 28 41.	SR	0.5	93	1.8	
		EP	05 26 16.9	SZ	0.7	10	15	
		EP	05 26 20.	LZ	10	574	15	
		E	05 26 23.	SZ	0.6	32	15	
		E	05 26 51.	SZ	0.9	36	15	
		E	05 52 15.	LR	27	731	15	
		EP	05 52 39.6	SZ	1.2	38	85	
		E	05 52 50.	SZ	1.4	57	85	
		E	06 03 25.	LR	25	1216	85	
		E	06 15 40.	LZ	23	1732	85	
		EL	06 18 40.	LZ	30	3220	85	
		EP	15 03 15.5	SZ	0.7	19		
		EP	17 00 19.6	SZ	1.2	63		
28	LC	E	17 03 37.	SZ	1.0			
		EP	00 38 42.6	SZ	0.7	4		
		E	00 40 28.	SR	1.0	5		
		EP	00 45 27.1	SZ	0.8	6		
		EP	01 09 58.6	SZ	0.4	2		
		EP	01 31 14.1	SZ	0.8	19		
		E	01 33 04.	SR	0.8	24		
		E	01 34 25.	SR	1.4	85		
		EP	02 05 11.4	SZ	0.7	4		
		E	02 06 58.	SR	0.9	7		
		E	02 11 00.	SR	1.0	5		
		E	02 14 16.	SR	1.0	5		
		E	02 16 04.	SR	1.0	8		
		E	02 21 09.	SR	1.0	8		
		E	02 22 18.	SR	1.1	23		
		E	02 23 02.	SR	0.9	21		
		E	02 25 26.	SR	1.3	48		
		EP	05 27 46.2	SZ	0.6	6	23	
		EP	05 27 50.	LZ	15	420	23	
		E	05 28 07.	SZ	0.9	29	23	
		E	05 32 05.	LR	15	2573	23	
		IP	05 52 15.9	SZ	1.0	150	80	
		E	05 53 18.	SR	1.7		80	
		E	06 02 25.	LR	20	1047	80	
		EP	06 05 56.5	SZ	0.3	2		
		EL	06 16 35.	LR	30	1748	80	
		EP	08 11 55.2	SZ	0.7	9		
		EP	09 12 02.3	SZ	0.5	2		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	70
		EP	11 50 53.5	SZ	0.6	3		
		E	11 51 01.	SZ	0.8	19		
		E	11 52 46.	SR	0.6	10		
		EP	12 47 43.0	SZ	1.0	10		
		EP	17 00 01.0	SZ	1.2	100		
		E	17 03 33.	SZ	0.5	4		
		EP	20 38 29.1	SZ	0.3	17	1.4	
		ES	20 38 46.	SR	0.3	40	1.4	
		ES	20 59 44.	SR	0.5	8	2.4	
		EP	20 59 12.6	SR	0.2	3	2.4	
		EP	22 27 56.0	SZ	0.4	2		0.7
28	CP	EP	00 44 26.7	SZ	0.4	2		0.7
		ES	00 44 36.	ST	0.5	14		0.7
		EP	01 30 11.2	SZ	0.7	22		0.4
		ES	01 30 17.	ST	0.4	38		0.4
		ES	01 30 17.	LZ	15	1315		0.4
		EP	02 04 04.7	SZ	0.7	5		0.6
		ES	02 04 13.	ST	0.3	23		0.6
		EP	02 13 12.8	SZ	0.6	8		0.7
		ES	02 13 23.	ST	0.4	29		0.7
		EP	02 20 06.9	SZ	0.6	13		0.6
		ES	02 20 15.	ST	0.4	31		0.6
		ES	02 20 17.	LZ	15	6180		0.6
		EP	03 32 51.6	SZ	0.3	3		2.5
		ES	03 33 22.	ST	0.6			2.5
		EP	05 28 42.5	SZ	0.7	5	29	
		IP	05 51 36.3	SZ	1.1	124	73	
		E	05 51 46.	SZ	2.0		73	
		E	06 07 00.	LZ	30	1770	73	
		EL	06 13 20.	LZ	30	2845	73	
		EP	09 09 17.8	SZ	0.3	4		0.1
		ES	09 09 21.	ST	0.3	23		0.1
		EP	11 48 18.7	SZ	0.3	3		0.4
		ES	11 48 25.	ST	0.4	26		0.4
		IP	16 33 39.4	SZ	0.3	19		1.0
		ES	16 33 52.	ST	0.4			1.0
		EP	16 59 47.0	SZ	1.3	48		
28	MV	EL	01 35 00.	LZ	18	697		
		E	02 18 02.	LZ	18	249		
		E	02 24 37.	LR	20	523		
		EL	02 25 34.	LR	12	3200		
		EL	05 40 22.	LT	35		36	
		IP	05 51 39.7	SZ	1.5	340	73	
		EP	05 51 40.	LZ	22	1045	73	
		E	05 51 50.	SZ	1.4	370	73	
		E	05 52 40.	SR	1.3	59	73	
		E	05 54 22.	SZ	1.4	39	73	
		E	06 01 17.	LT	22	1610	73	
		E	06 10 20.	LR	26	2540	73	
		EL	06 13 38.	LZ	27	5320	73	
		EP	08 10 10.9	SZ	0.5	6		8.5
		EP	11 43 04.5	SZ	0.5	2		0.5
		EP	14 05 54.8	SZ				0.5
		ES	14 06 02.	ST	0.4	21		0.5
		EP	16 59 35.0	SZ	1.0	12		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	71
28	WI	EP	01 32 19.0	SZ	0.7	1		
		E	01 35 14.	ST	12	18		
		EL	01 36 00.	LZ	12	5250		
		EP	02 18 26.7	SZ	1.5	23		
		EP	02 22 24.8	SZ	1.0	4		
		E	02 25 21.	ST	1.8			
		EL	02 26 10.	LZ	11	4590		
		EP	05 29 37.8	SZ	0.9	35	35	
		E	05 45 20.	LZ	18	965	35	
		IP	05 52 00.4	SZ	1.5	470	77	
		EP	05 52 05.	LZ	20	1288	77	
		E	05 52 12.	SR	1.8		77	
		E	05 52 38.	SR	1.8		77	
		E	06 01 55.	LR	22	1538	77	
		EL	06 15 25.	LZ	29	7290	77	
		EP	11 42 10.5	SZ	0.5	2	5.0	
		E	11 42 18.	SZ	0.5	55	5.0	
		EP	11 52 02.5	SZ	0.7	1		
		E	11 54 54.	ST	1.0	14		
		EP	16 59 39.5	SZ	1.0	13		
		E	17 00 06.	SZ	1.0	9		
		EP	17 10 46.3	SZ	1.0	18		
		E	17 11 13.	SZ	1.4	29		
28	MN	EP	01 31 41.5	SZ	1.0	3		
		EL	01 33 48.	LT	20	149		
		EP	02 15 02.6	SZ	0.9	1		
		EL	02 17 00.	LT	15	581		
		EP	02 21 45.7	SZ	1.4	18		
		EL	02 23 42.	LT	20	105		
		EP	05 29 23.5	SZ	1.0	19	33	
		EL	05 39 54.	LZ	40	1356	33	
		IP	05 51 48.9	SZ	1.5	361	76	
		EP	05 51 50.	LZ	20	1285	76	
		E	06 01 30.	LT	22	2220	76	
		E	06 09 42.	LT	23	1471	76	
		E	06 11 00.	LZ	35	3374	76	
		EL	06 13 47.	LZ	35	9890	76	
		E	06 19 13.	SZ	2.3		76	
		EL	08 03 07.	LZ	30	375	76	
		EP	11 42 51.5	SZ	0.8	2	7.5	
		EP	11 51 20.7	SZ	0.8	1		
		EL	11 53 10.	LZ	15	251		
28	FM	EP	05 29 00.5	SZ	1.0	7		
		EP	05 29 06.	SZ	1.0	14	31	
		E	05 29 06.	SZ	1.0	17	31	
		EP	05 52 12.8	SZ	1.4	508	79	
		E	06 02 10.	LZ	18	900	79	
		E	06 03 00.	LZ	20	1130	79	
		E	06 11 15.	LZ	22	655	79	
		E	06 13 40.	LZ	23	1309	79	
		EL	06 15 45.	LZ	33	386	79	
		EP	10 42 07.6	SZ	0.5	2		
		EP	11 42 23.8	SZ	0.6	5	5.7	
		E	11 42 42.	SZ	0.7	23	5.7	
		E	11 43 54.	SZ	1.0	39	5.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		EP	12 48 31.9	SZ	0.5	6	
		E	12 48 52.	SZ	0.6	5	
		EP	16 59 48.3	SZ	1.0	21	
28	DH	EP	05 29 09.5	SZ	1.0	104	32
29	LC	EP	06 16 01.2	SZ	0.8	6	49
		EP	14 48 53.4	SZ	0.3	2	
		E	14 50 48.	SR	0.6	3	
		EP	17 50 46.7	SZ	0.6	4	
		EP	20 07 01.0	SZ	0.2	5	2.4
		ES	20 07 32.	SR	0.4	3	2.4
		EP	20 26 57.7	SZ	0.6	2	
		EP	21 20 02.8	SZ	1.0	8	79
		EP	21 56 14.5	SZ	0.2	2	3.0
		E	21 56 25.	SR	0.5	6	3.0
		ES	21 56 52.	SR	0.3	10	3.0
		EP	22 47 41.5	SZ	0.3	2	1.8
		ES	22 48 06.	SR	0.7	10	1.8
		E	23 28 05.	SR	0.5	8	
		IP	23 28 52.8	SZ	0.5	9	
		E	23 30 35.	SR	1.0	23	
		E	23 42 52.	SZ	0.8	5	
		E	23 44 32.	SR	0.9	4	
29	CP	IP	01 20 22.8	SZ	0.2	11	0.4
		ES	01 20 29.	ST	0.4		0.4
		EP	02 32 30.9	SZ	0.3	4	0.5
		ES	02 32 38.	ST	0.3	29	0.5
		EP	03 04 52.3	SZ	0.3	3	2.3
		ES	03 05 22.	ST	0.3	9	2.3
		IP	20 19 52.1	SZ	0.3	20	1.0
		ES	20 20 05.	SR	0.5		1.0
		EP	20 21 34.5	SZ	0.4	48	0.8
		ES	20 21 46.	SR	0.5		0.8
		EP	20 24 10.5	SZ	0.3	3	0.4
		ES	20 24 16.	SR	0.4	14	0.4
		EP	23 27 50.0	SZ	0.5	45	0.5
		ES	23 27 57.	SR	0.5		0.5
29	WI	EP	05 09 08.6	SZ	1.0	7	83
		EP	06 17 29.3	SZ	0.8	4	61
		EP	09 22 37.6	SZ	0.5	1	
		E	09 22 48.	ST	0.5	2	
		EP	11 56 12.0	SZ	1.0	22	92
29	MN	EP	05 08 57.4	SZ	1.0	7	81
		EL	05 35 05.	LZ	25	221	81
		EP	06 17 19.2	SZ	0.8	3	60
		IP	11 01 53.1	SZ	0.3	5	0.1
		ES	11 01 57.	ST	0.4	7	0.1
		EP	11 56 06.3	SZ	1.0	45	91
		EP	13 35 57.9	SZ	0.9	4	
		EP	13 37 34.8	SZ	1.0	3	86
29	FM	EP	08 07 55.1	SZ	0.4	2	4.3
		ES	08 08 47.	SR	0.6	30	4.3
		IP	15 51 09.5	SZ	0.3	8	0.1
		ES	15 51 13.	SR	0.4	33	0.1
29	DH	EP	18 20 15.5	SZ	0.3	17	1.8
		ES	18 20 40.	SR	0.5	36	1.8

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		EP	19 07 12.6	SZ	0.5	25	1.6
		ES	19 07 34.	SR	0.5	23	1.6
30	LC	EP	00 02 36.5	SZ	0.6	3	
		E	00 04 16.	SZ	0.7	9	
30	CP	EP	00 01 33.2	SZ	0.7	10	0.3
		ES	00 01 38.	SR	0.3	9	0.3
31	LC	EP	03 54 26.0	SZ	0.6	3	
		EP	19 03 56.5	SZ	0.4	3	
		EP	21 12 15.6	SZ	0.3	2	1.4
		ES	21 12 33.	SR	0.4	7	1.4
		EP	22 49 22.6	SZ	0.5	2	
31	CP	EP	03 18 42.5	SZ	0.5	3	5.6
		ES	03 19 49.	ST	0.6	19	5.6
		EP	03 28 16.7	SZ	0.3	1	2.4
		ES	03 28 47.	ST	0.4	21	2.4
		IP	05 37 13.5	SZ	0.3	36	0.1
		ES	05 37 16.	SR	0.3	38	0.1
		EP	06 26 59.1	SZ	0.2	5	0.6
		ES	06 27 08.	ST	0.3	20	0.6
		EP	08 34 16.4	SZ	0.3	1	4.2
		ES	08 35 07.	SR	0.3	12	4.2
		EP	10 30 44.3	SZ	0.3	1	1.7
		ES	10 31 06.	SR	0.3	8	1.7
		EP	14 18 56.7	SZ	0.3	1	0.9
		ES	14 19 09.	SR	0.2	8	0.9
		EP	19 59 55.2	SZ	0.2	1	1.3
		ES	20 00 12.	ST	0.2	12	1.3
		EP	23 38 29.9	SZ	0.3	4	1.5
		ES	23 38 49.	SR	0.3	11	1.5
31	MV	EP	04 08 18.2	SZ	0.4		2.5
		ES	04 08 50.	ST	0.5		2.5
		EP	08 34 16.4	SZ	0.5	4	
		E	08 34 32.	SZ	1.0	20	
		EP	17 21 54.8	SZ	0.4	7	2.5
		ES	17 22 28.	ST	0.5	34	2.5
		EP	18 37 56.0	SZ	0.5	34	0.7
		ES	18 38 06.	ST	0.5	60	0.7
31	WI	EP	03 18 47.3	SZ	0.4	2	
		E	03 20 10.	SR	1.0	34	
		EP	03 56 23.0	SZ	0.6	3	
		EP	04 08 17.3	SZ	0.5	10	
		EP	08 27 02.1	SZ	0.3	12	0.3
		ES	08 27 07.	SR	0.4	20	0.3
		EP	08 55 37.9	SZ	0.9	13	
		EP	15 57 13.7	SZ	0.5		
		EP	17 21 51.0	SZ	0.5	6	2.6
		ES	17 22 24.	SR	0.6		2.6
		EP	18 18 22.5	SZ	0.4	5	2.6
		ES	18 18 56.	SR	0.5	26	2.6
		EP	20 56 00.0	SZ	0.5	11	
31	MN	EP	03 18 11.5	SZ	0.5	2	
		E	03 18 17.	SZ	0.7		
		E	03 19 07.	LR	18	3910	
		EP	06 34 36.1	SZ	0.4	8	0.6
		ES	06 34 45.	ST	0.5	18	0.6

DAY	STA	PHASE	TIME	INST	PER		
		EP	08 34 14.3	SZ	0.6	2	
		IP	13 47 26.8	SZ	0.3	8	0.7
		ES	13 47 36.	SR	0.5	20	0.7
		IP	14 33 55.4	SZ	0.3	4	0.6
		ES	14 34 04.	ST	0.4	17	0.6
		IP	17 15 32.4	SZ	0.3	5	0.6
		ES	17 15 41.	ST	0.5		0.6
		IP	17 25 21.7	SZ	0.3	11	0.6
		ES	17 25 30.	SR	0.4		0.6
		EP	20 56 03.7	SZ	0.6	2	
		IP	22 15 43.9	SZ	0.3		0.6
		ES	22 15 52.	SR	0.5		0.6
31	FM	EP	00 35 51.1	SZ	0.4	3	2.1
		ES	00 36 18.	SR	0.6	17	2.1
		EP	03 19 17.0	SZ	0.6		
		E	03 21 20.	SZ	0.7	9	
		EP	04 08 50.0	SZ	0.3	2	6.5
		ES	04 10 06.	SR	0.5	51	6.5
31	DH	EP	20 25 46.8	SZ	0.5	56	1.9
		ES	20 26 11.	SR	0.5	62	1.9

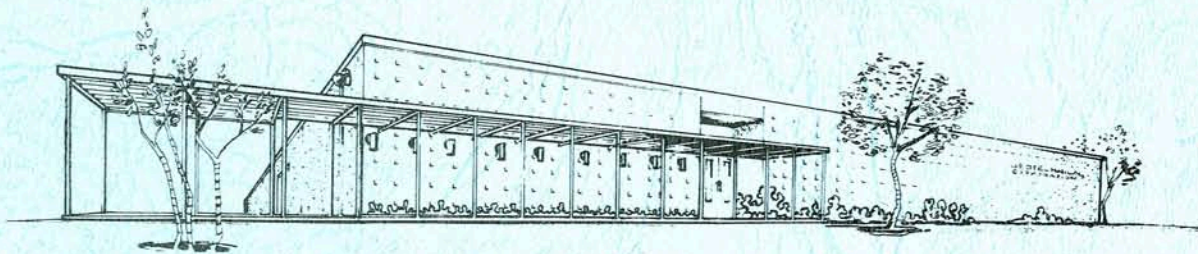
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Bulletin No. 2
February 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No.	VT/074
ARPA Order No.	104-60
ARPA Code No.	8100
Contractor	The Geotechnical Corporation Garland, Texas
Contract No.	AF 33(600)-41694

Bulletin No. 2
February 1962

25 June 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at nine of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694 (The Long-Range Seismic Measurements Program). The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin is divided into two sections:

a. Section I, Epicenters, contains data on all of the phases associated with the epicenters reported by the U. S. Coast and Geodetic Survey.

b. Section II, Phases, contains a list of all phases read which did not associate with USC&GS epicenters.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

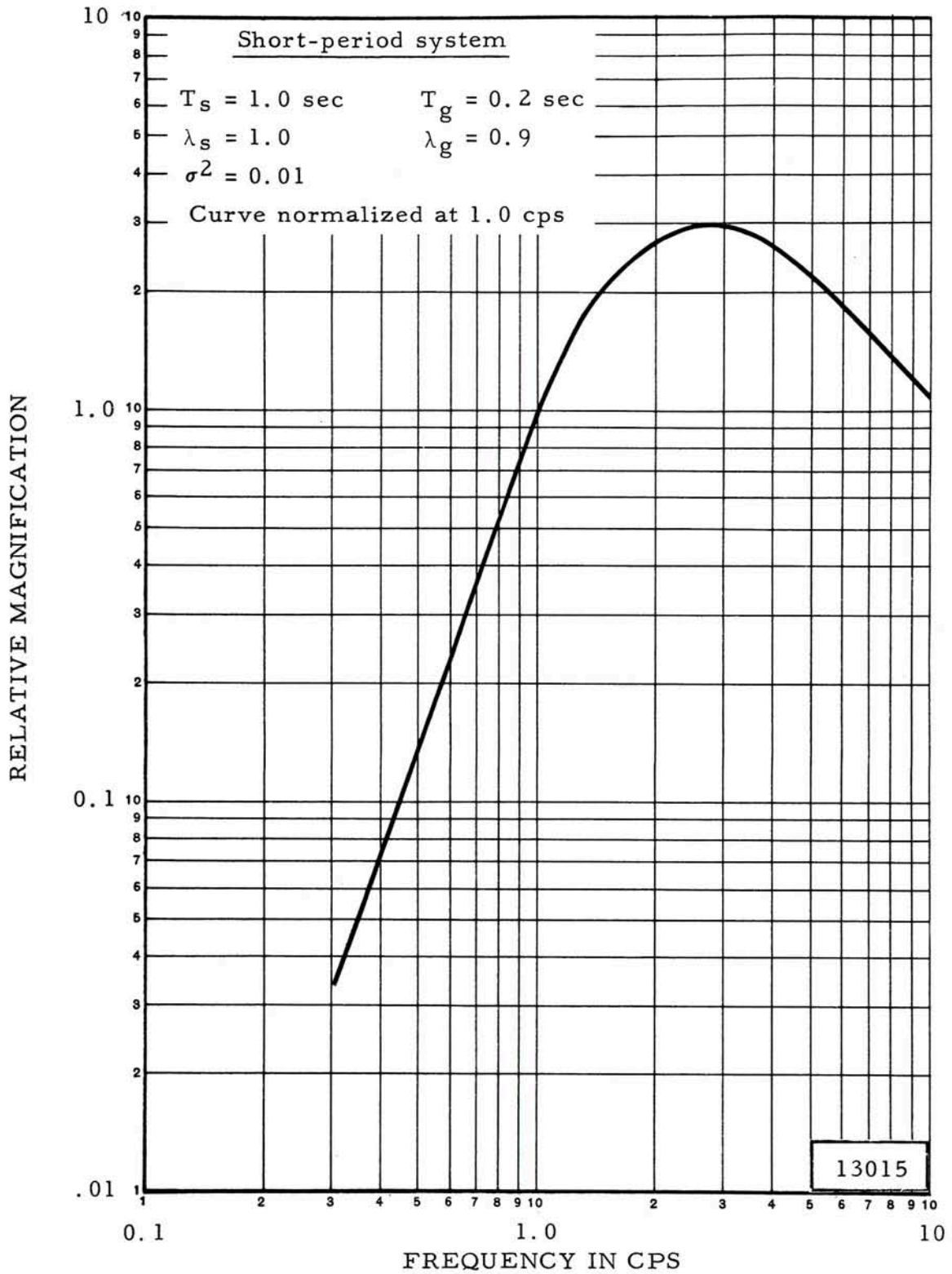


Figure 1. Frequency response of the short-period seismograph system

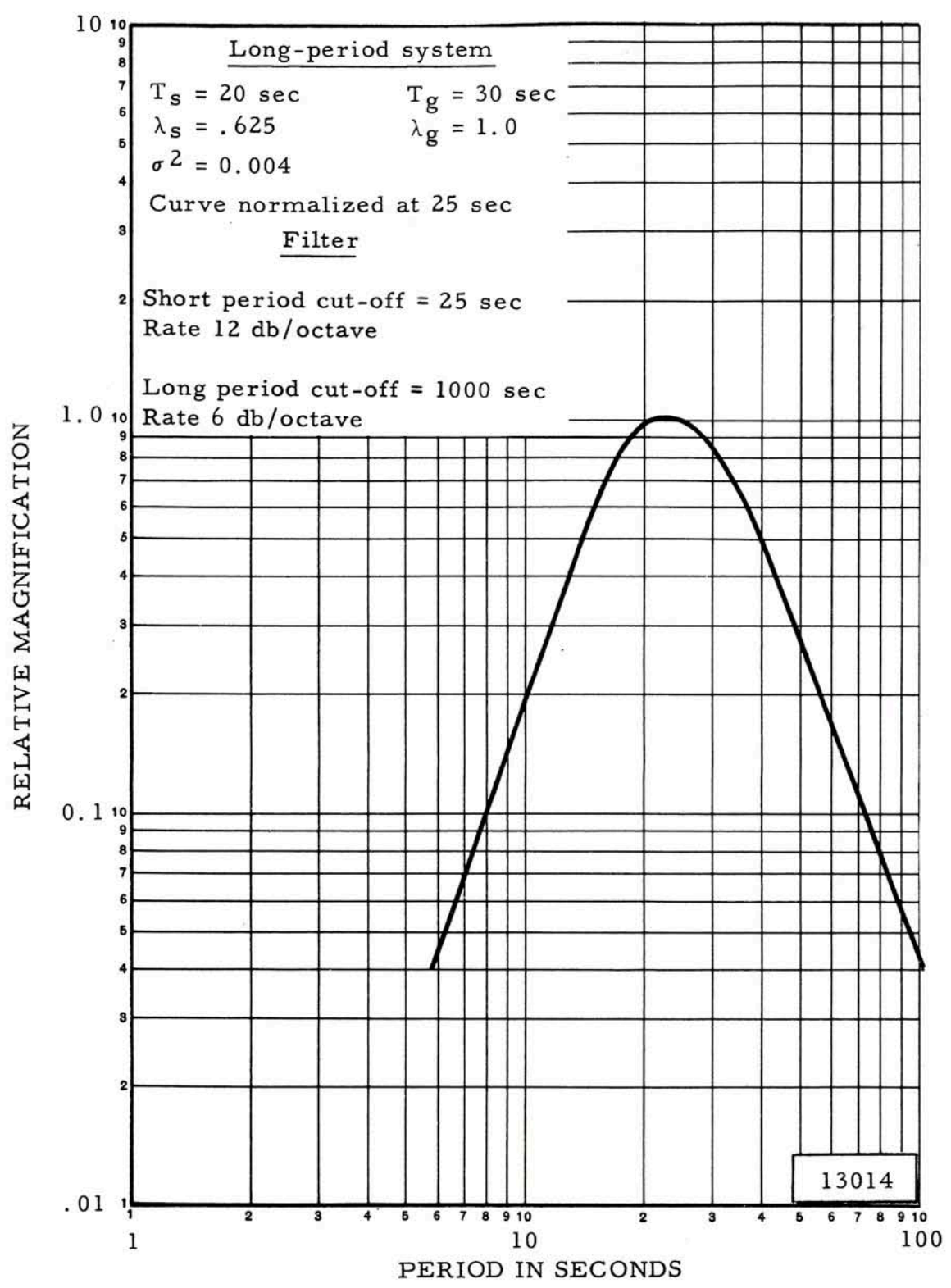


Figure 2. Frequency response of the long-period seismograph system

2.2 All data is recorded on a 35-mm Film Recorder, Geotech Model 1301A, and on a fourteen-channel Magnetic Tape System, Ampex Model 314.

2.3 A precision Timing System, Geotech Model 5400 or 5400A, is used for timing. A chronometer is used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period system everyday. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. The long-period system calibration consists of a frequency-response calibration. In the frequency-response calibration, the mass of the seismometer is driven with an electromagnetic actuator by a known sinusoidal force. Magnification is determined by a known relationship between the recorded amplitude and the driving force.

3. INTERPRETATION OF COLUMN TITLES

The column headings in Sections I and II are defined as follows:

A. DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed in Section I, and each time the station designator changes in Section II. Dates are given in Greenwich Civil Time (G. C. T.).

B. STA The station from which the data was taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York

The locations of the stations are shown in figure 3.

C. PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

(1) An "I" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "I" phases.

(2) An "E" (emersio) preceding the phase designates an emergent phase motion, and the direction of the initial break cannot be positively determined.

(3) An "I" or "E" alone designates an unidentified phase of either an impetus or emersio arrival.

D. TIME The arrival time of each phase, given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for IP arrivals is also noted in this field, either C (compressional) or D (dilation) will appear immediately to the right of the tenths of second column.

E. INST The seismograph channel from which the data was taken. The symbols used to designate the seismograph channels are given in the following table:

SZ	Short-Period Vertical
SR*	Short-Period Radial (horizontal)
ST*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to Table 1 for Instrument Orientation.

TABLE I

LRSM SITE INFORMATION

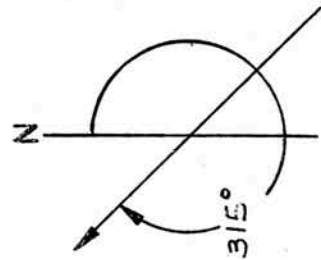
Horizontal seismometer orientation

Azimuth from True North

in Degrees*

Site Designation	Site Location	in Degrees*		Site Coordinates in deg, min, sec	Elevation	Rock Type
		Radial	Trans-verse			
SJ TX	San Jose, Texas	127	217	N 27°36'43" W 98°18'46"	375'	Limestone
LC NM	Las Cruces, New Mexico	124	214	N 32°24'08" W 106°35'58"	5200'	Limestone
CP CL	Campo, California	182	272	N 32°43'44" W 116°22'16"	3900'	Granite
MV CL	Marysville, California	295	025	N 39°13'36" W 121°18'05"	2000'	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 41°21'02" W 117°27'30"	5000'	Limestone
MN NV	Mina, Nevada	308	038	N 38°26'10" W 118°08'53"	5000'	Limestone
FM UT	Fillmore, Utah	058	148	N 39°13'06" W 112°12'25"	6200'	Limestone
NG WS	Niagara, Wisconsin	078	168	N 45°45'34" W 88°09'15"	1300'	Granite
DH NY	Delhi, New York	095	185	N 42°14'39" W 74°53'18"	2140'	Sandstone

*When earth moves in direction shown, trace moves up.



F. PER The period, in seconds, of the phase listed. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

G. AMPL The amplitude of the phase listed in millimicrons of earth displacement. Amplitudes are corrected for instrument response. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible.

H. DIST The distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to 6°. Beyond 6°, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances given in the phase list, Section II, are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETTIC SURVEY DATA

The epicenter data as reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (H) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS) or
Berkeley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for information should be mailed to:

Captain N. G. Maddox
AF Technical Applications Center, TD/1
DCS/Operations
Headquarters United States Air Force
Washington 25, D. C.

DAY STA PHASE TIME INST PER AMPL DIST 1

01 00 39 54.6 31.7 S 177.3 W KERMADEC IS. REGION
H = 30 KM

LC	EP	00 53 05.4	SZ	1.0	25	93
	EP	00 53 10.	LZ	10	376	93
	EPP	00 56 45.	LZ	13	438	93
	ES	01 04 22.	LR	13	758	93
	EPS	01 05 28.	LT	20	1062	93
	ESS	01 10 38.	LT	20	1265	93
	ESKKS	01 17 40.	LR	20	326	93
	E	01 21 00.	LR	17	2321	93
	EL	01 22 59.	LT	15	354	93
	EL	01 28 18.	LZ	20	2458	93
CP	EP	00 52 36.4	SZ	1.0	108	87
	E	00 52 49.	SZ	1.2	88	87
	EL	01 19 10.	LZ	18	5376	87
MV	EP	00 52 43.0	SZ	1.0	69	88
	EP	00 52 45.	LZ	10	1322	88
	E	00 52 53.	SZ	1.4	184	88
	ES	01 03 33.	LR	17	1380	88
	EPPS	01 05 18.	LT	22	1298	88
	ESS	01 09 03.	LT	20	754	88
	E	01 16 30.	LR	27	1895	88
	ELR	01 19 40.	LZ	31	2050	88
WI	EP	00 53 00.1	SZ	1.3	250	91
	E	00 53 12.	SZ	1.3	171	91
	ESS	01 10 19.	LR	22	1355	91
	ELQ	01 17 55.	LR	27	2015	91
	ELR	01 21 25.	LZ	19	4760	91
FM	EP	00 53 09.1	SZ	0.7	27	94
	EP	00 53 10.	LZ	10	1432	94
	E	00 53 20.	SZ	1.7	234	94
	E	00 53 35.	SZ	1.2	23	94
	E	00 54 26.	SZ	1.6	41	94
	ES	01 04 28.	LR	18	1491	94
	EPS	01 05 37.	LT	20	1360	94
	EL	01 22 40.	LZ	35	1555	94
DH	EL	01 37 22.	LZ	30	2855	119

01 06 37 57.5 35.0 N 120.6 W S CALIFORNIA
H = 30 KM MAG 4.2 4.5 PAS

CP	EP	06 38 59.0	SZ	0.4	15	4.0
	ES	06 39 34.	ST	0.5	33	4.0
	EL	06 40 18.	LR	18	5175	4.0
MV	EP	06 38 57.9	SZ	0.5	15	4.5
	ES	06 39 52.	ST	0.8	58	4.5
WI	EP	06 39 37.2	SZ	0.5	4	7
	EL	06 41 33.	ST	1.2	63	7
	EL	06 41 43.	LT	18	2965	7
FM	EP	06 39 54.2	SZ	0.5	1	8
	E	06 40 30.	SR	0.9	11	8
	EL	06 42 13.	SR	0.7	7	8

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	2
01	18 06 49.8		26.1 N 109.2 W H = 45 KM				GULF OF CALIFORNIA	
	SJ	EP	18 09 20.5	SZ	0.5	9	11	
		EL	18 12 23.	SR	1.5	575	11	
	LC	EP	18 08 28.5	SZ	0.5	2	7	
		EL	18 10 25.	SR	0.8		7	
	CP	EP	18 08 57.9	SZ	1.0	8	9	
	FM	EP	18 10 08.6	SZ	0.5	3	14	
		EL	18 14 07.	LZ	10	239	14	
		EL	18 14 40.	SZ	0.9	12	14	
02	03 32 48.3		05.4 S 147.3 E H = 161 KM				BISMARCK SEA	
02	05 41 38.7		45.7 N 151.6 E H = 37 KM				KURILE ISLAND	
	LC	EP	05 53 20.0	SZ	0.7	4	76	
	CP	EP	05 52 42.2	SZ	0.6	4	69	
	MV	EP	05 51 56.0	SZ	1.0	19	62	
	WI	IP	05 52 02.7 C	SZ	0.7	22	63	
	MN	EP	05 52 12.3	SZ	0.8	12	64	
	FM	EP	05 52 32.3	SZ	0.6	9	67	
	DH	EP	05 54 03.5	SZ	0.7	33	83	
02	06 43 28.8		36.3 N 089.4 W H = 25 KM				TENNESSEE	
	SJ	EP	06 46 15.1	SZ	0.5	19	11	
		ES	06 48 20.	ST	1.0	427	11	
	LC	EP	06 46 56.0	SZ	0.8	9	15	
		E	06 47 07.	SZ	0.8	11	15	
		ELR	06 51 07.	SZ	1.5	352	15	
	CP	EP	06 48 32.2	SZ	1.0	13	23	
	MV	EP	06 49 00.0	SZ	1.0	12	26	
	WI	EP	06 48 29.4	SZ	0.9	37	23	
		E	06 55 24.	SR	1.0	11	23	
	MN	EP	06 48 36.3	SZ	0.8	6	23	
		E	06 55 40.	ST	2.0	70	23	
	FM	EP	06 47 43.8	SZ	1.0	14	18	
		E	06 52 56.	SZ	1.2	77	18	
	NG	EP	06 45 45.2	SZ	0.5	26	9	
		E	06 45 54.	SZ	0.6	66	9	
	DH	EP	06 46 31.0	SZ	0.5	30	13	
		E	06 46 39.	SZ	0.8	103	13	
		ES	06 48 44.	ST	0.7	115	13	
02	07 59 58.5		49.9 N 078.2 E H = 00 KM				KAZAKH S. S. R.	
	LC	EP	08 13 38.6	SZ	0.8	6	98	
	CP	EP	08 13 33.5	SZ	1.0	13	97	
	MV	EP	08 12 59.5	SZ	1.0	44	90	
	WI	EP	08 12 53.3	SZ	0.7	32	88	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	3
	MN	IP	08 13 06.2 C	SZ	0.6	25	91	
	FM	EP	08 13 06.1	SZ	0.6	26	91	
	DH	EP	08 12 38.3	SZ	0.5	12	85	
02	17 20 11.1		43.7 N 148.5 E H = 49 KM				KURILE ISLANDS	
	LC	EP	17 32 14.7	SZ	0.6	3	80	
	CP	EP	17 31 32.9	SZ	1.0	8	73	
	MV	EP	17 30 49.4	SZ	1.0	12	65	
		ES	17 39 42.	LT	25	425	65	
		E	17 45 10.	LZ	30	1533	65	
	WI	EP	17 30 55.1	SZ	1.0	7	66	
	MN	EP	17 31 02.4	SZ	1.0	7	67	
		ES	17 40 07.	LT	20	594	67	
		ELG	17 47 50.	LT	27	433	67	
		ELR	17 51 55.	LZ	20	1151	67	
	FM	EP	17 31 23.5	SZ	1.0	14	71	
		EL	17 55 55.	LZ	25	909	71	
02	23 03 58.9		18.2 N 104.9 W H = 17 KM				NEAR WEST MEXICO	
	SJ	EP	23 06 52.0	SZ	0.6	2	12	
		EP	23 06 52.	LZ	12	2766	12	
		ELR	23 10 00.	LZ	14	19310	12	
		ELR	23 10 35.	SZ	2.2	98	12	
	LC	EP	23 07 24.8	SZ	1.3	113	14	
		ELR	23 11 35.	LZ	25	9249	14	
		ELR	23 11 48.	SZ	5.0		14	
	CP	EP	23 08 07.5	SZ	1.3	135	18	
		EP	23 08 08.	LZ	14	925	18	
		E	23 08 49.	SR	1.8	141	18	
		ELR	23 11 45.	LZ	25	3219	18	
	MV	EP	23 09 28.4	SZ	0.8	8	26	
		ES	23 13 50.	LR	20	526	26	
		EL	23 16 32.	LR	32	2348	26	
	WI	EP	23 09 30.	LZ	15	509	26	
		ES	23 14 20.	LT	17	1458	26	
		ELR	23 16 58.	LZ	20	1302	26	
	MN	EP	23 09 07.6	SZ	1.5	124	23	
		EP	23 09 10.	LZ	15	332	23	
		ES	23 13 30.	LT	18	1429	23	
		E	23 14 25.	LZ	17	445	23	
		ELR	23 15 13.	LZ	20	1451	23	
	FM	EP	23 08 55.5	SZ	1.2	36	22	
		EP	23 08 56.	LZ	15	430	22	
		E	23 09 07.	SZ	1.0	44	22	
		ES	23 12 43.	LR	18	2496	22	
		ELR	23 15 00.	LZ	20	1835	22	
	DH	EP	23 10 55.0	SZ	1.6	378	35	
03	00 37 53.6		01.2 S 137.8 E H = 17 KM				NEAR NEW GUINEA	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	4
LC	EP	P	00 56 31.2	SZ	0.9	3	111	
	EPP		00 57 16.	SZ	2.0	204	111	
	E		00 58 24.	LZ	20	1749	111	
	ESKS		01 03 18.	LR	20	4950	111	
	ESKKS		01 04 17.	LR	22	3360	111	
	ESP		01 06 35.	SZ	6.0		111	
	ESP		01 06 40.	LZ	25		111	
	EPKKP		01 07 32.	SZ	1.3	122	111	
	E		01 13 22.	LZ	25		111	
	EP	P	01 16 00.	LZ	20	4800	111	
	ELR		01 28 41.	LZ	25		111	
CP	EPD		00 52 10.8	SZ	2.4	170	104	
	EPD		00 52 12.	LZ	17	853	104	
	EPP		00 56 26.	SZ	2.5	193	104	
	E		01 02 55.	LT	20	3900	104	
	ESP		01 05 37.	LZ	20	5160	104	
	EPKKP		01 08 12.	SZ	1.2	18	104	
	E		01 11 52.	LZ	21	10400	104	
	ELR		01 25 25.	LZ	31		104	
MV	EP		00 51 39.2	SZ	3.0	221	100	
	EP		00 51 42.	LZ	12	3259	100	
	EPP		00 55 50.	LZ	20	1515	100	
	ESKS		01 02 15.	LR	15	13749	100	
	EL		01 23 20.	LZ	20	9468	100	
WI	EP		00 51 48.	LZ	17	1454	101	
	E		00 56 18.	LT	20	1325	101	
	ESKS		01 02 34.	LT	19	8110	101	
	ESP		01 04 57.	LZ	20		101	
	EPKKP		01 07 45.	LZ	21		101	
	E		01 10 55.	LT	26		101	
	ESSS		01 14 30.	LT	24		101	
	ELQ		01 20 40.	LR	26		101	
	ELR		01 25 50.	LZ	30		101	
MN	EP		00 51 51.0	SZ	1.2	29	103	
	EP		00 51 53.	LZ	18	970	103	
	E		00 55 02.	SZ	1.6	28	103	
	EPP		00 55 59.	LZ	25	1225	103	
	EPP		00 56 00.	SZ	1.9	79	103	
	ESKS		01 02 32.	ST	3.4		103	
	ESKS		01 02 35.	LT	25	6190	103	
	ESKKS		01 02 50.	ST	2.4	64	103	
	ES		01 03 28.	SR	3.4		103	
	EPS		01 05 10.	LR	22		103	
	EPKKP		01 08 17.	SZ	1.3	28	103	
	EL		01 23 10.	LZ	22		103	
	EL		01 34 05.	SZ	20.0		103	
FM	EPD		00 52 16.	LZ	15	98	106	
	EPP		00 56 38.	LZ	20	134	106	
	ESKS		01 03 00.	LT	20	554	106	
	EPS		01 05 56.	LT	15	4949	106	
	EL		01 27 15.	LZ	25	641	106	
NG	EP		00 56 44.	LZ	15	628	120	
	EPP		00 58 12.	LZ	25	1590	120	
	ESKKS		01 05 15.	LT	18	5040	120	
	EPS		01 07 55.	LT	25	5545	120	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	5
	ESPP		01 09 28.	LZ	18	5475	120	
	ESS		01 14 30.	LR	33	15850	120	
	ESSS		01 19 03.	LR	22	8400	120	
	E		01 22 23.	LZ	25	4775	120	
	ELR		01 32 43.	LZ	28	23600	120	
	EL		02 35 10.	LZ	30	13620	240	
DH	EP		00 57 02.5	SZ	1.1	111	129	
	EP		00 57 03.	LZ	10	6055	129	
	ESKP		01 00 32.	LZ	18	9050	129	
	ESP		01 09 23.	LZ	13	23000	129	
	EPSS		01 16 55.	LR	35	15550	129	
	ESSS		01 21 47.	LT	20	7515	129	
	E		01 25 47.	LR	25	5175	129	
	E		01 30 10.	LT	23	4470	129	
	EL		01 40 39.	LR	23	24800	129	
03	11 36 19.1		17.4 S 066.9 E				MASCARENE ISLANDS	
			H = 25 KM					
	WI	EP	11 56 54.4	SZ	1.0	4	158	
03	13 25 12.2		21.2 S 175.5 W				TONGA ISLANDS REGION	* 1p
			H = 25 KM					
	LC	EP	13 37 52.9	SZ	0.6	2	86	
	CP	EP	13 37 14.2	SZ	1.0	7	79	
	MV	EP	13 37 22.8	SZ	0.8	4	80	
	WI	EP	13 37 41.7	SZ	1.5	17	84	
	MN	EP	13 37 23.9	SZ	0.8	2	81	
	FM	EP	13 37 48.1	SZ	1.0	11	85	
03	21 38 19.9		06.5 N 073.1 W				COLOMBIA	
			H = 190 KM					
	LC	IP	21 45 42.0 D	SZ	0.9	43	40	
	WI	EP	21 47 16.0	SZ	0.7	8	53	
	FM	EP	21 46 42.1	SZ	0.7	14	48	
	NG	EP	21 45 47.0	SZ	0.6	30	41	
	DH	EP	21 45 01.3	SZ	0.7	34	36	
04	01 02 34.6		29.1 S 177.2 W				KERMADEC ISLANDS	
			H = 43 KM					
	LC	EP	01 15 31.6	SZ	0.8	3	90	* 1p
04	02 54 42.1		04.6 S 119.0 E				CELEBES	
			H = 89 KM					
	SJ	EP	03 14 04.6	SZ	1.0	24	139	
		EPP	03 16 48.	SZ	1.6	88	139	
	LC	EP	03 13 47.8	SZ	1.1	29	130	
	E		03 13 55.	SZ	1.0	23	130	
	CP	EP	03 13 32.9	SZ	0.9	21	121	
	MV	EP	03 13 20.8	SZ	1.0	9	115	
	E		03 13 27.	SZ	1.0	13	115	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	6
		EPS	03 24 13.	LR	20	1529	115	
		EL	03 48 50.	LZ	40	3064	115	
WI		EP	03 13 25.1	SZ	0.9	15	118	
		EPKKP	03 23 45.	SZ	1.2	22	118	
		EL	03 49 45.	LZ	35	2109	118	
MN		EP	03 13 25.6	SZ	1.0	11	118	
		EPKKP	03 23 43.	SZ	1.0	4	118	
FM		EP	03 13 34.1	SZ	1.0	22	124	
		E	03 14 09.	SZ	1.0	7	124	
NG		EP	03 13 52.9	SZ	0.9	28	133	
		EL	03 58 15.	LZ	32	1691	133	
04	12 59 51.8		05.3 S 151.6 E				NEW BRITAIN	
			H = 81 KM					
	WI	EP	13 13 05.0	SZ	1.2	15	95	
		EL	13 43 59.	LZ	24	581	95	
	MN	EP	13 13 01.1	SZ	1.2	15	94	
04	16 16 40.9		05.7 S 152.1 E				NEAR NEW GUINEA	
			H = 85 KM					
	WI	EP	16 29 56.4	SZ	0.8	6	95	
	MN	EP	16 29 52.9	SZ	0.8	6	95	
04	17 47 39.7		07.4 N 082.4 W				NEAR PANAMA	
			H = 38 KM					
	SJ	EP	17 53 06.5	SZ	1.0	259	25	
		E	17 53 12.	SZ	1.0	235	25	
	LC	EP	17 54 20.9	SZ	1.1	71	34	
		E	17 54 26.	SZ	1.2	55	34	
		E	17 54 33.	SZ	1.0	15	34	
		EPCP	17 57 00.	SZ	1.2	8	34	
	CP	EP	17 55 19.3	SZ	1.5	78	41	
	MV	EP	17 56 13.5	SZ	0.7	3	48	
	WI	EP	17 56 03.6	SZ	1.2	98	46	
	MN	EP	17 55 54.5	SZ	1.2	93	45	
	FM	EP	17 55 29.1	SZ	1.2	113	42	
		E	17 55 54.	SZ	1.2	72	42	
		E	18 08 40.	LZ	30	302	42	
		E	18 13 26.	LZ	20	1554	42	
04	20 40 00.0		02.8 N 083.2 W				NEAR ECUADOR	
			H = 39 KM					
	MN	EP	20 48 38.0	SZ	1.2	20	48	
04	21 29 33.2		00.5 S 020.2 W				SOUTH ATLANTIC OCEAN	
			H = 17 KM					
	SJ	EP	21 41 45.4	SZ	1.2	116	81	
	LC	EP	21 42 24.2	SZ	1.0	33	88	
		ESKS	21 52 56.	LR	15	3562	88	
		EPS	21 54 02.	LR	20	3670	88	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	7
		ESS	21 58 48.	LR	2.3	4320	88	
		EL	22 05 47.	LZ	25	1742	88	
CP		EPS	21 55 35.	LT	35	4990	96	
		ESS	22 00 43.	LT	24	7530	96	
		EL	22 18 10.	LZ	22	1869	96	
MV		EP	21 43 17.4	SZ	1.0	6	100	
		E	21 50 08.	LZ	20	302	100	
		ESKS	21 53 58.	LR	23	462	100	
		EPS	21 56 15.	LR	25	1840	100	
		ESS	22 01 46.	LR	30	4575	100	
		EL	22 17 10.	LR	30	1940	100	
		E	22 19 50.	LR	23	3100	100	
WI		EP	21 42 55.5	SZ	1.0	7	95	
		EPP	21 46 52.	SZ	1.6	60	95	
		EPS	21 55 40.	LT	35	4180	95	
		E	22 00 59.	LT	28		95	
		EL	22 19 49.	LZ	21	4560	95	
MN		EP	21 42 43.7	SZ	1.1	21	96	
		EPP	21 46 58.	SZ	1.8	88	96	
NG		EP	21 41 18.9	SZ	0.7	26	76	
		ES	21 51 00.	LT	30	2795	76	
		ESSS	21 59 10.	LT	23	2380	76	
		ELQ	22 02 30.	LT	25	4260	76	
		ELR	22 06 07.	LZ	23	6220	76	
05	01 07 44.7		05.2 S 150.9 E				BISMARCK SEA	
			H = 82 KM					
	MV	EL	01 51 15.	LZ	20	1705	92	
	WI	EL	01 53 13.	LZ	20	341	95	
05	02 30 24.9		14.0 S 168.0 E				NEW HEBRIDES ISLANDS	
			H = 91 KM					
05	14 45 51.1		38.2 N 107.6 W				COLORADO	
			H = 25 KM					
	LC	EP	14 47 28.0	SZ	0.6	2	7	
		E	14 48 00.	SR	0.9	25	7	
	CP	EP	14 48 04.9	SZ	0.4	1	9	
		E	14 48 22.	SZ	0.6	4	9	
	WI	EP	14 47 52.6	SZ	0.6	4	8	
		E	14 48 20.	ST	0.8	8	8	
		E	14 49 11.	ST	0.8	8	8	
05	22 55 49.6		35.9 N 138.8 E				HONSHU, JAPAN	
			H = 151 KM					
	MV	EP	23 07 19.1	SZ	1.2	185	76	
	WI	EP	23 07 26.9	SZ	1.0	85	77	
	NG	EP	23 08 29.0	SZ	1.1	231	89	
06	01 55 50.4		29.5 N 130.4 E				RYUKYU ISLANDS REGION	
			H = 40 KM					

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DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
	MV	EP	02 08 21.8	SZ	1.2	29	85
		E	02 08 41.	SZ	0.6	5	85
	WI	EP	02 08 28.5	SZ	1.0	23	86
	MN	EP	02 08 35.9	SZ	0.8	10	88
06	02 58 24.4		13.8 N 091.1 W				GUATEMALA
			H = 134 KM				
	SJ	EP	03 01 58.6	SZ	0.7	36	16
	LC	EP	03 03 24.8	SZ	0.4	12	24
		E	03 03 33.	SZ	0.5	23	24
	WI	EP	03 05 18.0	SZ	0.8	61	36
		E	03 06 16.	SR	0.9	16	36
		EPCP	03 07 45.	SZ	0.8	5	36
		EL	03 21 38.	LZ	16	972	36
	MN	EP	03 05 06.1	SZ	0.8	17	35
		EPCP	03 07 41.	SZ	0.8	3	35
	FM	EP	03 04 40.1	SZ	0.6	18	32
		E	03 04 49.	SZ	1.0	18	32
	DH	EP	03 04 40.9	SZ	0.8	32	32
06	03 32 50.3		37.8 N 140.4 E				HONSHU, JAPAN
			H = 372 KM				
	WI	EP	03 43 48.3	SZ	1.0	6	74
		E	03 46 06.	SZ	1.5	30	74
06	04 40 57.5		56.8 N 156.0 W				KODIAK ISLANDS REGION
			H = 80 KM				
	LC	EP	04 48 40.4	SZ	0.9	12	42
		E	04 48 55.	SZ	0.8	5	42
	WI	EP	04 46 53.8	SZ	0.6	7	29
	MN	EP	04 47 09.9	SZ	1.0	14	31
		EPCP	04 50 04.	SZ	0.6	4	31
	NG	EP	04 48 44.5	SZ	0.5	33	42
	DH	EP	04 49 56.6	SZ	0.7	26	51
		E	04 50 18.	SZ	0.7	26	51
07	07 36 05.1		20.4 S 068.4 W				CHILE BOLIVIA BORDER
			H = 222 KM				
	LC	EP	07 46 17.4	SZ	0.5	3	64
	CP	EP	07 46 56.7	SZ	0.7	8	70
		E	07 47 12.	SZ	0.9	7	70
	WI	EP	07 47 34.2	SZ	0.7	20	77
		EPCP	07 48 02.	SZ	0.7	23	77
	MN	EP	07 47 26.0	SZ	0.8	8	75
		E	07 51 00.	ST	4.0		75
	FM	EP	07 47 10.1	SZ	0.5	12	74
		E	07 47 37.	SZ	1.0	21	74
	DH	EP	07 46 11.4	SZ	0.6	14	63
08	11 49 13.9		03.2 S 141.3 E				NEW GUINEA
			H = 87 KM				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
08	16 42 04.4		19.2 S 169.1 E				NEW HEBRIDES ISLANDS
			H = 43 KM				
08	19 40 27.7		00.7 N 098.6 E				SUMATRA
			H = 43 KM				
09	01 01 37.0		34.5 N 140.9 E				CENTRAL HONSHU
			H = 25 KM				
09	12 02 33.5		24.2 S 179.5 E				KERMADEC IS. REGION
			H = 541 KM				
09	18 14 32.7		51.2 N 178.4 W				ANDREANOF ISLANDS
			H = 25 KM				
09	21 51 13.2		00.6 N 123.9 E				CELEBES
			H = 50 KM				
10	04 19 41.7		19.2 S 069.5 W				CHILE BOLIVIA BORDER
			H = 232 KM				
	LC	EP	04 29 43.6	SZ	0.5	3	63
	WI	EP	04 30 58.1	SZ	0.5	29	75
	FM	EP	04 30 34.4	SZ	0.5	6	71
		E	04 31 23.	SZ	1.0	14	71
	DH	EP	04 29 42.2	SZ	0.6	21	62
10	06 43 25.0		05.9 S 152.1 E				NEW IRELAND
			H = 40 KM				
10	19 31 56.2		17.9 N 062.2 W				LEEWARD ISLANDS
			H = 70 KM				
	SJ	EP	19 38 41.9	SZ	1.5		35
		E	19 39 01.	SZ	1.0	282	35
		E	19 39 45.	SZ	1.4	301	35
		EPP	19 40 03.	SZ	1.6		35
		EL	19 46 40.	LR	25	1298	35
		E	19 50 15.	LR	30	2298	35
		E	19 53 50.	LR	25	2597	35
		E	19 56 30.	LR	20	3060	35
		E	19 59 10.	LR	20	2186	35
	LC	IP	19 39 47.0 D	SZ	1.0	163	43
		E	19 39 56.	SZ	0.9	44	43
		EPP	19 41 27.	SZ	1.0	41	43
		EPCS	19 45 26.	ST	1.4	27	43
	CP	EP	19 40 51.8	SZ	0.9	64	51
	WI	EP	19 41 04.7	SZ	0.7	59	53
		E	19 41 45.	SZ	0.9	33	53
		ES	19 48 45.	LR	16	718	53
		EL	19 58 50.	LZ	22	2086	53
	MN	IP	19 41 05.7 D	SZ	1.0	52	53
		E	19 42 07.	SZ	1.1	51	53
	FM	EP	19 40 31.8	SZ	0.5	10	48
		E	19 41 47.	SR	1.0	10	48

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	10
	NG	EP	19 38 44.9	SZ	0.8	144	35	
		EPP	19 40 07.	SZ	1.0	53	35	
		ES	19 44 14.	LT	18	1013	35	
		ELQ	19 45 53.	ST	1.0	31	35	
		ELQ	19 45 58.	LT	29	1050	35	
		ELR	19 48 30.	LZ	25	4425	35	
	DH	EP	19 37 29.5	SZ	1.0	170	27	
		ES	19 42 07.	LR	16	1940	27	
		ESS	19 43 33.	LR	25	3360	27	
		EL	19 45 39.	LR	18	2370	27	
10	19 46 11.0		33.1 S 069.0 W			MENDOZA PROV. ARGENT.		
			H = 171 KM					
	LC	IP	19 57 30.3 D	SZ	0.9	100	74	
		E	19 57 57.	SZ	1.1	33	74	
	CP	EP	19 57 58.7	SZ	0.7	33	79	
	WI	EP	19 58 35.2	SZ	0.5	10	86	
	MN	IP	19 58 26.8 D	SZ	0.9	27	84	
	NG	EP	19 58 05.0	SZ	0.7	53	80	
		E	19 58 34.	SZ	0.6	22	80	
	DH	EP	19 57 38.0	SZ	0.7	51	76	
11	02 42 36.1		29.6 N 139.0 E			NEAR HONSHU, JAPAN		
			H = 400 KM			MAG 6.2 PAS		
	SJ	EPP	02 59 58.	SZ	1.0	71	101	
		EPP	02 59 59.	LZ	15	1743	101	
		ESKS	03 05 46.	LR	20	3060	101	
		ESP	03 08 22.	LZ	1.5	1367	101	
		E	03 24 05.	LZ	25	1932	101	
		E	03 35 06.	LZ	20	1115	101	
	LC	EP	02 55 03.9	SZ	0.6	21	93	
		EP	02 55 04.	LZ	15	608	93	
		E	02 56 38.	SZ	1.2	25	93	
		E	02 56 40.	LZ	17	630	93	
		E	02 58 50.	SZ	2.0	371	93	
		ESKS	03 05 01.	LR	19	3810	93	
		ESP	03 06 50.	LZ	19	3590	93	
		E	03 07 20.	LZ	20	2210	93	
		ESS	03 12 15.	LR	23	1308	93	
		E	03 14 20.	LR	20	1385	93	
		EP'P'	03 21 28.	LZ	26	2456	93	
		ESKPP'	03 25 10.	LT	22	2810	93	
	CP	EP	02 54 32.0	SZ	1.1	169	86	
		EP	02 54 32.	LZ	19	678	86	
		ES	03 04 30.	LT	21	5835	86	
		ESKKS	03 18 46.	LT	26	2901	86	
	MV	EP	02 53 57.1	SZ	1.2	475	79	
	WI	EP	02 54 04.0	SZ	1.4		80	
		EP	02 54 07.	LZ	17	1244	80	
		E	02 55 36.	SZ	1.7	349	80	
		ES	03 03 32.	ST	3.1	788	80	
		ES	03 03 38.	LT	21	4272	80	
		EL	03 17 12.	LZ	23	3950	80	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	11
	MN	EP	02 54 10.5	SZ	0.7	11	81	
		EP	02 54 11.	LZ	12	880	81	
		E	02 54 35.	SZ	1.2	71	81	
		E	02 55 43.	LZ	17	1001	81	
		E	02 55 45.	SZ	1.5	159	81	
		ES	03 03 43.	LR	16	2650	81	
		ES	03 03 44.	SR	2.5	336	81	
		E	03 17 12.	LZ	21	3880	81	
		ELR	03 22 37.	LZ	21	1735	81	
	FM	EP	02 54 27.6	SZ	0.5	8	85	
		E	02 56 00.	SR	1.3	20	85	
		E	02 59 10.	LZ	15	499	85	
		ESKS	03 04 00.	LR	20	380	85	
		ESKS	03 04 14.	SR	3.5		85	
		EL	03 18 27.	LZ	20	3544	85	
	NG	EP	02 55 09.6	SZ	1.2	69	94	
		EPP	02 58 58.	SZ	1.4	180	94	
		EPP	02 59 00.	LZ	18	1140	94	
		ESKS	03 05 05.	LT	20	2545	94	
		ES	03 05 37.	SR	1.4	157	94	
		ES	03 05 40.	LR	20	3235	94	
		EPS	03 07 00.	LT	18	2775	94	
		ESS	03 12 17.	LT	25	2521	94	
		E	03 21 35.	LZ	27	2670	94	
	DH	ESKS	03 05 50.	LR	18	948	101	
		ES	03 06 45.	LR	17	1475	101	
		ESS	03 14 13.	LR	17	2309	101	
11	10 01 24.8		52.0 N 168.0 W			FOX IS., ALEUT. ISLAND		
			H = 50 KM					
	SJ	EP	10 10 55.1	SZ	0.4	16	55	
		E	10 15 18.	SZ	0.5	18	55	
	LC	EP	10 10 00.1	SZ	0.6	15	48	
		E	10 10 13.	SZ	1.0	25	48	
		EPCP	10 11 25.	SZ	0.9	10	48	
	CP	EP	10 09 10.9	SZ	0.7	20	42	
	MV	EP	10 08 20.5	SZ	0.7	30	35	
	WI	EP	10 08 20.9	SZ	0.8	11	36	
		EPCP	10 10 46.	SZ	0.8	9	36	
	MN	EP	10 08 31.2	SZ	0.6	19	37	
	FM	EP	10 08 57.5	SZ	0.5	3	40	
		E	10 22 56.	LT	20	58	40	
	NG	EP	10 10 18.1	SZ	1.0	126	50	
	DH	EP	10 11 27.5	SZ	0.8	128	60	
		EL	10 33 40.	LR	23	615	60	
11	11 06 44.3		00.9 S 067.2 E			MALDIVE ISLANDS		
			H = 25 KM					
	MN	EP'	11 26 21.0	SZ	0.9	7	142	
11	13 57 00.4		04.3 S 153.5 E			NEW IRELAND REGION		
			H = 120 KM					
11	18 55 32.0		04.5 S 153.5 E			NEW IRELAND REGION		
			H = 100 KM			MAG 6.3 BRK		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	12
	SJ	EPD	19 09 50.	LZ	15	370	109	
		EPP	19 14 47.	LZ	18	3970	109	
		ESKS	19 20 22.	LR	22	6510	109	
		ESP	19 23 35.	LZ	20	9478	109	
		E	19 27 58.	LR	19	5230	109	
		ESKKP	19 28 40.	LZ	15	2833	109	
		ESS	19 29 28.	LR	22	8450	109	
		E	19 32 54.	LZ	20	4599	109	
		EL	19 45 40.	LZ	40	29422	109	
	LC	EP	19 09 12.	LZ	17	1260	101	
		EPP	19 13 15.	LZ	18	664	101	
		ESKS	19 19 48.	LR	20		101	
		ESP	19 22 10.	LZ	19		101	
		E	19 24 52.	LR	20		101	
		ESS	19 27 50.	LR	20	4630	101	
		E	19 30 30.	LT	19	3005	101	
		ESSS	19 31 40.	LR	20		101	
		EP*PKS	19 37 20.	LT	35	6840	101	
		E	19 39 40.	LR	20		101	
		EL	19 41 30.	LZ	35	51300	101	
	CP	EP	19 08 34.3	SZ	1.0	20	93	
		EP	19 08 37.	LZ	18	4725	93	
		ESKS	19 19 05.	LR	21	10900	93	
		ESP	19 20 50.	LZ	20	9930	93	
		ESS	19 26 10.	LT	19	10320	93	
		ELR	19 37 30.	LZ	38	75500	93	
	WI	EP	19 08 32.0	SZ	0.5	1	92	
		EP	19 08 35.	LZ	20	4385	92	
		ESKS	19 19 06.	LT	23	8380	92	
		ESP	19 20 47.	LZ	22		92	
		ESS	19 25 35.	LT	25	8705	92	
		EP*P*	19 34 30.	LZ	25	8028	92	
		ELR	19 37 40.	LZ	42	57400	92	
	MN	EP	19 08 30.5	SZ	0.8	11	92	
		EP	19 08 31.	LZ	18	1860	92	
		E	19 08 58.	SZ	1.1	61	92	
		E	19 11 11.	SZ	1.4	44	92	
		E	19 12 32.	LZ	17	1790	92	
		E	19 17 56.	LZ	18	1090	92	
		ESKS	19 18 56.	LT	25	7220	92	
		E	19 19 52.	SZ	2.3	125	92	
		ESP	19 20 37.	LZ	22		92	
		E	19 25 28.	LT	21	11610	92	
		EPKKS	19 29 12.	LR	22	6110	92	
		ELQ	19 32 20.	LR	19	1930	92	
		ELR	19 36 45.	LZ	30		92	
	FM	EP	19 08 57.	LZ	15	124	97	
		ESKS	19 19 10.	LR	20	383	97	
		EL	19 24 45.	LR	35	2245	97	
	NG	EPD	19 10 13.	LZ	19	1089	113	
		EPP	19 14 50.	LZ	25	2070	113	
		ESKS	19 20 33.	LR	23	1728	113	
		ESP	19 24 17.	LZ	28	12600	113	
		ESS	19 30 22.	LT	20	6950	113	
		ESSS	19 34 35.	LR	22	7900	113	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	13
		ELR	19 48 05.	LZ	35	56780	113	
	DH	E	19 15 55.	LR	22	1055	122	
		ESKS	19 21 16.	LR	18	1930	122	
		E	19 22 49.	LR	23	2365	122	
		EPS	19 26 05.	LR	20	2565	122	
		ESS	19 32 41.	LR	24	7710	122	
		EL	19 53 17.	LR	37	21500	122	
11	19 48 41.6		04.6 S	153.6 E			NEW IRELAND REGION	
			H = 107	KM				
11	22 41 13.8		04.3 S	153.7 E			NEW IRELAND REGION	
			H = 118	KM				
12	04 56 13.5		04.5 S	153.8 E			NEW IRELAND REGION	
			H = 107	KM				
12	06 45 00.4		02.0 N	128.1 E			HALMAHERA	
			H = 169	KM				
12	11 57 53.3		44.0 N	146.5 E			NEAR HOKKAIDO, JAPAN	
			H = 113	KM				
	LC	EP	12 09 51.7	SZ	0.6	3	80	
	WI	EP	12 08 38.1	SZ	0.7	3	67	
	MN	EP	12 08 47.4	SZ	0.6	5	69	
		E	12 09 14.	SZ	0.8	4	69	
12	13 44 40.0		04.4 S	153.5 E			NEW IRELAND REGION	
			H = 121	KM				
12	17 25 56.9		34.4 N	135.6 E			HONSHU, JAPAN	
			H = 317	KM				
	LC	EP	17 38 32.1	SZ	0.6	2	92	
	WI	EP	17 37 30.7	SZ	0.9	9	80	
	MN	EP	17 37 38.0	SZ	0.6	5	81	
12	22 05 34.9		12.6 N	139.8 E			MARIANA ISLANDS REGION	
			H = 73	KM				
	WI	EP	22 18 32.3	SZ	0.6	10	91	
	MN	EP	22 18 34.0	SZ	0.7	6	91	
		E	22 25 59.	SZ	0.7	5	91	
12	23 24 55.2		26.4 N	140.9 E			BONIN ISLANDS REGION	
			H = 168	KM				
	LC	EP	23 37 55.4	SZ	0.5	4	94	
		E	23 38 30.	SZ	1.1	20	94	
	WI	EP	23 36 56.2	SZ	0.7	7	82	
	FM	EP	23 37 29.5	SZ	0.6	6	85	
		E	23 37 55.	SZ	1.4	37	85	
13	00 46 16.3		54.1 N	035.1 W			NORTH ATLANTIC OCEAN	
			H = 27	KM				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	14
	SJ	EP	00 55 31.9	SZ	0.7	37	53	
	LC	EP	00 55 42.7	SZ	0.8	6	54	
	WI	EP	00 55 41.8	SZ	0.8	11	54	
		E	00 56 06.	SZ	0.8	6	54	
		EL	01 11 20.	LZ	40	1763	54	
	MN	EP	00 55 59.6	SZ	0.7	3	57	
	FM	EP	00 55 30.1	SZ	0.5	4	52	
		EL	01 11 32.	LZ	30	466	52	
	NG	EP	00 53 05.7	SZ	1.0	30	35	
		EPCP	00 55 41.	SZ	1.0	15	35	
		ELR	01 03 00.	LZ	25	6260	35	
	DH	EP	00 52 16.0	SZ	0.7	36	29	
		EL	01 00 00.	LR	28	4830	29	
13	02 22 15.2		49.0 N 156.2 E H = 45 KM				KURILE ISLANDS	
	SJ	EP	02 34 11.3	SZ	0.9	16	78	
	LC	EP	02 33 30.8	SZ	0.5	2	71	
	WI	EP	02 32 09.3	SZ	0.5	1	59	
	FM	EP	02 32 38.8	SZ	0.5	4	63	
	DH	EP	02 34 21.8	SZ	0.7	17	80	
13	20 33 42.6		42.7 N 145.3 E H = 105 KM				NEAR HOKKAIDO, JAPAN	
14	01 53 33.9		04.3 S 153.5 E H = 119 KM				NEW IRELAND REGION	
	DH	EL	02 51 33.	LR	30	1920	123	
14	02 09 28.5		06.2 N 126.8 E H = 101 KM				NEAR MINDANAO, P. I.	
14	02 47 30.7		00.1 N 123.8 E H = 96 KM				NORTHERN CELEBES	
	LC	EP	03 06 21.5	SZ	0.9	14	124	
14	06 36 01.3		38.1 S 073.1 W H = 44 KM MAG 4.5				NEAR CHILE COAST BRK	
	SJ	EP	06 47 10.3	SZ	1.5	375	70	
		IP	06 47 12. C	LZ	18	8596	70	
		E	06 48 22.	SR	1.5	1238	70	
		E	06 48 29.	SR	1.5	1238	70	
		EPP	06 49 50.	LZ	15	31073	70	
		E	06 51 55.	LZ	25	12689	70	
		E	06 55 28.	LZ	15	25599	70	
		ES	06 56 20.	LR	20	4488	70	
		ESS	07 01 00.	LR	23	5065	70	
		EL	07 05 15.	LZ	20	1091	70	
		EP'P'	07 15 21.	SZ	1.0	73	70	
	LC	IP	06 47 51.0 C	SZ	1.0	20	77	
		EP	06 47 54.	LZ	20	39500	77	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	15
		EPP	06 50 54.	LZ	22	22320	77	
		ES	06 57 38.	ST	2.6	577	77	
		ES	06 57 40.	LT	20		77	
		E	07 02 32.	LZ	30	42400	77	
		EL	07 14 45.	SZ	25.0		77	
	CP	EP	06 48 17.5	SZ	1.0	65	82	
		EP	06 48 18.	LZ	19	54850	82	
		EPP	06 51 30.	LZ	24	28690	82	
		ES	06 58 18.	SR	10.0		82	
		ES	06 58 22.	LT	32		82	
		E	07 03 19.	LT	25		82	
		ESSS	07 07 03.	LT	25		82	
		EL	07 14 12.	LZ	28	69300	82	
		EL	07 15 16.	SZ	19.5		82	
	MV	EP	06 48 53.5	SZ	0.5	9	89	
	WI	EP	06 48 52.9	SZ	0.8	20	89	
		EP	06 48 56.	LZ	22	38673	89	
		EPP	06 52 25.	LZ	20	12454	89	
		ES	06 59 41.	ST	6.0		89	
		E	07 01 30.	LZ	23	67496	89	
		E	07 05 56.	LZ	23	35710	89	
		EPKCP	07 06 28.	SZ	1.4	15	89	
		E	07 14 16.	LZ	21	64238	89	
		EP'P'	07 14 46.	SZ	2.5	79	89	
		EL	07 19 37.	LZ	19	64238	89	
		EL	07 20 26.	SZ	19.5		89	
	MN	EP	06 48 43.4	SZ	1.0	27	87	
		E	06 52 35.	SZ	2.5	624	87	
		ESKS	06 59 11.	ST	3.0	362	87	
		ES	06 59 22.	ST	9.0		87	
		E	07 03 22.	SR	5.0		87	
		EPKCP	07 06 36.	SZ	1.0	9	87	
		ELR	07 18 25.	SZ	23.0		87	
	FM	EP	06 48 34.5	SZ	0.7	7	85	
		EP	06 48 35.	LZ	10	618	85	
		E	06 51 20.	SZ	2.0	352	85	
		E	06 53 40.	SR	2.0	121	85	
		ES	06 58 57.	SR	2.5	181	85	
		E	07 03 15.	LR	25	238	85	
		EL	07 17 46.	SR	20.0		85	
	NG	EP	06 48 31.2	SZ	1.0	108	85	
		IP	06 48 33. C	LZ	22	83750	85	
		E	06 53 00.	LZ	28	16550	85	
		E	06 55 45.	LZ	20	18800	85	
		ES	06 58 56.	ST	2.5	955	85	
		ES	06 59 00.	LT	25	56000	85	
		ESS	07 04 28.	LT	20	53850	85	
		EL	07 11 10.	LZ	30		85	
	DH	EP	06 48 07.6	SZ	1.2	548	80	
		E	06 48 26.	SZ	1.7		80	
		E	06 49 11.	SZ	1.3	910	80	
		E	06 49 26.	SZ	1.4	1079	80	
		E	06 50 54.	LT	25	16610	80	
		E	06 53 13.	LT	23	14000	80	
		E	06 55 21.	LT	25	10980	80	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
	E		06 57 26.	LT	23	14175	80
	ES		06 58 12.	ST	2.0	212	80
	ES		06 58 18.	LT	17	25210	80
14	07 08 21.1		38.2 S 073.7 W				NEAR CHILE
			H = 40 KM				
	SJ	EP	07 19 29.3	SZ	1.0	73	70
	LC	EP	07 20 10.0	SZ	1.0	30	77
	CP	EP	07 20 35.0	SZ	0.9	9	81
	WI	EP	07 21 11.4	SZ	0.7	5	89
	MN	EP	07 21 02.5	SZ	1.0	9	87
	FM	EP	07 20 53.9	SZ	0.6	9	85
	NG	EP	07 20 50.5	SZ	0.9	55	84
	DH	EP	07 20 27.1	SZ	0.8	84	80
	E		07 21 10.	SZ	0.8	84	80
14	07 38 09.9		04.2 S 153.4 E				NEW IRELAND REGION
			H = 137 KM				
14	08 11 59.3		38.1 S 073.7 W				NEAR CHILE
			H = 40 KM				
	LC	EP	08 23 47.4	SZ	1.0	20	77
		E	08 23 55.	SZ	1.0	25	77
	WI	EP	08 24 50.3	SZ	0.6	3	89
	MN	EP	08 24 40.0	SZ	0.8	3	87
		E	08 24 49.	SZ	0.9	4	87
	FM	EP	08 24 31.2	SZ	0.5	8	85
		E	08 24 40.	ST	0.7	3	85
	NG	EP	08 24 28.6	SZ	0.9	22	84
14	08 29 00.1		38.2 S 073.1 W				NEAR CHILE
			H = 40 KM				
	SJ	EP	08 40 07.6	SZ	0.7	16	69
	LC	EP	08 40 49.1	SZ	0.8	19	77
		E	08 40 59.	SZ	1.0	25	77
	CP	EP	08 41 13.7	SZ	0.9	6	81
	WI	EP	08 41 51.5	SZ	0.6	4	89
	MN	EP	08 41 41.9	SZ	0.9	4	87
	FM	EP	08 41 33.5	SZ	0.7	11	85
	NG	EP	08 41 30.3	SZ	0.9	55	85
	DH	EP	08 41 07.1	SZ	0.7	51	80
14	11 43 35.1		05.7 N 126.0 E				NEAR MINDANAO, P. I.
			H = 147 KM				
	LC	EPKPP	12 12 36.	SZ	0.6	3	116
	NG	IP'	12 02 15.1 D	SZ	0.5	15	120
15	00 59 45.1		08.9 S 147.7 E				NEW GUINEA
			H = 60 KM				
15	07 12 42.9		36.9 N 112.4 W				ARIZONA UTAH BORDER
			H = 26 KM				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
15	09 03 38.6		37.9 S 074.1 W				NEAR CHILE
			H = 40 KM				
15	09 06 45.1		37.0 N 112.9 E				ARIZONA UTAH BORDER
			H = 21 KM				
15	09 56 01.0		49.4 S 032.1 E				PRINCE EDWARD ISLAND
			H = 25 KM				
15	14 11 08.7		17.5 S 178.3 W				FIJI ISLANDS
			H = 600 KM				
15	15 25 29.5		04.4 S 153.8 E				NEW IRELAND REGION
			H = 109 KM				
15	15 29 55.6		23.7 S 179.7 W				FIJI ISLANDS REGION
			H = 555 KM				
15	16 41 37.4		04.5 S 153.8 E				NEW IRELAND REGION
			H = 104 KM				
15	20 28 47.2		38.1 S 073.2 W				NEAR CHILE
			H = 40 KM				
15	20 55 59.7		23.9 S 176.5 W				TONGA ISLANDS REGION
			H = 25 KM				
15	23 40 39.4		31.9 N 137.9 E				NEAR HONSHU, JAPAN
			H = 257 KM				
16	02 55 07.0		38.1 S 073.1 W				NEAR CHILE
			H = 40 KM				
	LC	EP	03 06 56.9	SZ	0.9	8	77
		E	03 07 03.	SZ	0.9	6	77
	WI	EP	03 07 57.3	SZ	0.6	2	89
	FM	EP	03 07 40.1	SZ	0.5	4	85
		E	03 07 50.	SZ	1.0	18	85
	NG	EP	03 07 36.9	SZ	0.7	21	84
	DH	EP	03 07 12.5	SZ	0.8	42	80
16	15 54 32.3		49.4 N 156.0 E				KURILE ISLANDS
			H = 24 KM				
	LC	EP	16 05 50.0	SZ	0.6	1	71
	WI	EP	16 04 18.3	SZ	0.7	4	57
		E	16 12 50.	LR	27	972	57
		ELR	16 21 50.	LZ	25	2128	57
	MN	EP	16 04 38.6	SZ	0.7	4	60
		ESCP	16 09 12.	LZ	14	230	60
		E	16 09 50.	LZ	15	338	60
		EL	16 12 45.	LZ	25	365	60
	FM	EP	16 04 58.7	SZ	0.5	4	63
	DH	EP	16 06 35.2	SZ	0.7	17	79
		ES	16 16 35.	LR	20	675	79

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	18
		EL	16 34 57.	LR	22	2420	79	
17	03 43	45.1	61.6 S H = 25 KM	162.9 E	MACQUARIE IS.	REGION		
17	11 07	01.6	02.7 S H = 54 KM	130.2 E	CERAM			
	FM	EL	11 59 30.	LZ	25	85	130	
17	18 16	06.2	38.0 S H = 40 KM	073.5 W	NEAR CHILE			
	LC	EP	18 27 53.9	SZ	0.6	4	77	
		E	18 27 57.	SZ	1.0	8	77	
		E	18 27 59.	SZ	1.0	13	77	
	WI	EP	18 28 56.4	SZ	0.6	2	89	
	FM	EP	18 28 37.7	SZ	0.6	6	85	
17	22 01	51.1	49.2 N H = 23 KM	156.0 E	KURILE ISLANDS			
	WI	EP	22 11 48.6	SZ	0.5	2	59	
		ELR	22 30 05.	LZ	28	1253	59	
	MN	EP	22 11 57.3	SZ	0.5	2	60	
		E	22 12 02.	SZ	1.0	11	60	
	FM	EL	22 32 25.	LZ	30	423	62	
17	22 28	22.8	52.7 N H = 29 KM	169.7 W	FOX IS., ALEUT. IS.			
	SJ	EP	22 38 15.6	SZ	0.5	18	58	
	LC	EP	22 37 13.5	SZ	1.0	28	50	
		E	22 37 38.	SZ	1.0	13	50	
	CP	EP	22 36 25.2	SZ	0.8	34	43	
	WI	EP	22 35 33.0	SZ	1.0	27	37	
		E	22 36 33.	SZ	1.2	16	37	
	MN	EP	22 35 45.1	SZ	0.7	19	39	
		E	22 38 01.	SZ	0.7	4	39	
	FM	EP	22 36 09.0	SZ	1.0	14	42	
	DH	EP	22 38 34.3	SZ	0.5	93	61	
18	01 28	34.9	49.2 N H = 46 KM	156.6 E	KURILE ISLANDS			
	LC	EP	01 39 48.0	SZ	0.5	1	71	
		E	01 39 55.	SZ	0.7	5	71	
		E	01 40 13.	SZ	1.0	7	71	
		E	01 40 22.	SZ	1.1	9	71	
	WI	EP	01 38 27.5	SZ	0.5	3	58	
		EL	01 56 33.	LZ	24	1134	58	
	FM	EP	01 38 57.5	SZ	0.5	4	63	
		EL	01 55 59.	LZ	30	688	63	
	NG	EP	01 39 46.0	SZ	1.0	29	70	
		EL	02 05 41.	LZ	23	1485	70	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	19
	DH	EL	02 10 07.	LR	25	1546	78	
18	10 42	32.8	41.5 N H = 40 KM	142.4 E	NEAR HOKKAIDO, JAPAN			
	LC	EP	10 54 54.0	SZ	0.5	2	83	
18	17 25	17.3	08.1 N H = 70 KM	074.6 W	COLOMBIA			
	SJ	EP	17 31 17.2	SZ	1.0	235	29	
		EPP	17 32 00.	SZ	1.2	303	29	
		ES	17 36 07.	ST	1.6	531	29	
	LC	IP	17 32 32.3 D	SZ	0.9	107	38	
		EP	17 32 34.	LZ	15	687	38	
		EPP	17 34 05.	LZ	15	9210	38	
		ES	17 38 25.	SR	1.6		38	
		ES	17 38 25.	LR	22	6430	38	
		ESSS	17 41 25.	LT	20		38	
		EL	17 44 22.	LZ	32		38	
	CP	EP	17 33 33.0	SZ	1.0	93	46	
		EP	17 33 36.	LZ	15	3160	46	
		EPP	17 35 38.	LZ	16	3510	46	
		E	17 43 44.	LZ	24	8890	46	
		ELR	17 46 22.	LZ	30	14180	46	
	MV	EP	17 34 21.1	SZ	1.0	52	52	
	WI	EP	17 34 07.7	SZ	1.0	86	50	
		EP	17 34 12.	LZ	15	2629	50	
		E	17 36 38.	LZ	15	2104	50	
		ES	17 41 17.	LR	20	4505	50	
		E	17 44 15.	LR	24	5770	50	
		ELQ	17 45 45.	LR	28	5538	50	
		ELR	17 48 24.	LZ	31	7689	50	
	MN	EP	17 34 01.1	SZ	1.4	218	49	
	FM	EP	17 33 33.6	SZ	0.7	42	46	
		EP	17 33 33.	LZ	12	2576	46	
		EPP	17 35 26.	LZ	15	1841	46	
		E	17 38 03.	ST	1.0	9	46	
		EL	17 43 56.	LZ	15	13811	46	
	NG	EP	17 32 41.0	SZ	0.6	66	39	
		EP	17 32 42.	LZ	17	3495	39	
		E	17 32 56.	SZ	0.8	153	39	
		EPPP	17 34 33.	LZ	17	13590	39	
		EPCS	17 38 39.	ST	2.5	637	39	
		EPCS	17 38 40.	LT	25	6680	39	
		E	17 41 44.	LZ	23	15100	39	
		EL	17 43 32.	LR	32	26225	39	
	DH	EP	17 31 59.3	SZ	0.8	141	34	
		EP	17 32 00.	LZ	18	2240	34	
		E	17 32 13.	SZ	1.0	294	34	
		E	17 32 18.	SZ	0.6	175	34	
		EPP	17 33 12.	LZ	17	2405	34	
		ES	17 37 17.	LT	18	3540	34	
		EPCS	17 38 21.	ST	1.5	194	34	
		ELR	17 41 40.	LZ	32	30050	34	

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DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
18	22 26	06.5	15.5 S H = 45 KM	166.8 E	NEW HEBRIDES ISLANDS		
	MN	EP	22 38 57.7	SZ	0.6	2	89
	FM	EL	23 08 40.	LZ	35	518	90
18	23 25	20.1	00.6 S H = 43 KM	091.7 W	GALAPAGOS ISLANDS		
	SJ	EP	23 31 19.3	SZ	0.8	89	29
		E	23 31 33.	SZ	1.0	71	29
	LC	IP	23 32 19.2 C	SZ	0.8	100	36
		E	23 32 34.	SZ	0.8	29	36
	CP	EP	23 33 00.0	SZ	0.8	52	41
	MV	EP	23 33 58.0	SZ	1.0	34	48
	WI	EP	23 33 57.5	SZ	1.0	34	48
		EPCP	23 35 26.	SZ	1.0	22	48
	MN	EP	23 33 43.0	SZ	1.0	72	46
		EPCP	23 35 19.	SZ	1.0	27	46
	FM	EP	23 33 27.2	SZ	1.0	76	44
		EPCP	23 35 12.	SZ	0.8	23	44
	NG	EP	23 33 43.0	SZ	0.7	87	46
	DH	EP	23 33 37.4	SZ	0.5	64	46
18	23 59	50.9	13.1 S H = 54 KM	165.8 E	NEW HEBRIDES ISLANDS		
19	02 58	46.9	52.3 N H = 32 KM	158.4 E	NEAR KAMCHATKA		
19	04 57	40.2	04.2 S H = 117 KM	153.3 E	NEW IRELAND REGION		
19	11 04	46.6	20.2 S H = 95 KM	175.1 W	TONGA ISLANDS		
19	20 16	03.6	11.7 N H = 39 KM	088.1 W	NEAR NICARAGUA		
20	05 51	06.5	16.1 S H = 35 KM	178.1 E	FIJI ISLANDS REGION		
	WI	EP	06 03 27.9	SZ	1.6	44	83
	FM	EP	06 03 41.0	SZ	1.4	46	85
		E	06 03 48.	SZ	1.3	38	85
20	06 40	20.3	11.4 S H = 81 KM	166.4 E	SANTA CRUZ ISLANDS		
20	09 15	55.1	06.8 N H = 29 KM	092.5 E	NICOBAR ISLANDS		
	WI	EP	09 34 58.2	SZ	1.0	8	125
		EL	10 14 10.	LT	40	4084	125
	MN	EP	09 35 01.9	SZ	0.6	3	127

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		E	09 35 21.	SZ	1.1	19	127
		E	09 37 50.	SR	5.5		127
	FM	EP	09 35 06.1	SZ	0.5	3	134
20	09 22	37.6	12.0 S H = 102 KM	169.5 E	SANTA CRUZ IS. REGION		
	FM	EP	09 35 21.2	SZ	0.7	19	89
		E	09 36 30.	LZ	40	170	89
20	10 07	26.6	25.9 S H = 655 KM	178.4 E	FIJI ISLANDS REGION		
	WI	EP	10 19 19.0	SZ	1.1	75	90
		E	10 21 35.	SZ	1.3	24	90
	MN	EP	10 19 08.1	SZ	1.1	44	88
		E	10 21 01.	SZ	1.1	21	88
		ES	10 29 03.	SR	2.5	192	88
	FM	EP	10 19 30.5	SZ	0.6	20	92
		E	10 21 50.	SZ	1.0	7	92
20	14 11	49.6	29.3 S H = 140 KM	068.9 W	LA RIOJA PROV., ARGEN.		
	SJ	EP	14 22 04.8	SZ	0.8	75	63
	WI	EP	14 24 02.3	SZ	0.6	10	83
	MN	EP	14 23 52.7	SZ	1.1	16	82
	FM	EP	14 23 40.8	SZ	0.7	30	79
	NG	EP	14 23 22.6	SZ	0.8	26	76
	DH	EP	14 22 51.4	SZ	0.7	52	71
20	16 02	15.0	06.9 N H = 157 KM	073.1 W	COLOMBIA		
	WI	EP	16 11 12.3	SZ	0.6	3	52
	MN	EP	16 11 06.4	SZ	0.5	2	52
	NG	EP	16 09 43.3	SZ	0.6	35	41
	DH	EP	16 08 57.8	SZ	0.5	38	36
20	16 05	44.6	43.0 N H = 55 KM	144.9 E	NEAR HOKKAIDO, JAPAN		
	SJ	EP	16 18 38.0	SZ	0.5	15	89
		EP	16 18 38.	LZ	18	2116	89
		ES	16 29 10.	LR	25	6793	89
		ELR	16 48 20.	LZ	23	3225	89
	CP	EP	16 17 18.2	SZ	1.2	58	74
		E	16 17 35.	LZ	15	3095	74
		ES	16 26 55.	LR	23	2944	74
		EL	16 39 12.	LZ	28	10790	74
	MV	EP	16 16 34.5	SZ	1.5	81	67
		EP	16 16 38.	LZ	20	1339	67
		E	16 17 14.	SR	1.2	90	67
		ES	16 25 30.	LT	20	3984	67
		EL	16 37 05.	LZ	30	7222	67

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	22
	WI	E	16 46 55.	LT	45	23488	67	
		EP	16 16 41.3	SZ	0.8	10	68	
		EP	16 16 45.	LZ	17	2147	68	
		E	16 18 55.	SZ	1.2	32	68	
		EPS	16 26 07.	LR	20	2330	68	
		ELR	16 38 00.	LZ	24	7460	68	
		EP*P*	16 44 58.	SZ	1.9	72	68	
	MN	IP	16 16 50.0 C	SZ	1.3	48	70	
		E	16 17 03.	SZ	1.4	276	70	
		ES	16 25 54.	SR	2.7	310	70	
	FM	EP	16 17 08.4	SZ	1.4	77	73	
		EP	16 17 11.	LZ	20	1535	73	
		E	16 17 20.	SZ	1.0	105	73	
		ES	16 26 33.	LT	22	2700	73	
		E	16 31 10.	LZ	23	962	73	
		EL	16 40 10.	LZ	35	4354	73	
	NG	EP	16 17 48.5	SZ	0.7	42	80	
		EP	16 17 49.	LZ	20	2092	80	
		E	16 18 02.	SZ	0.9	68	80	
		ES	16 27 44.	SR	2.5	956	80	
		ES	16 27 46.	LR	25	3220	80	
		ESS	16 32 58.	LR	22	1748	80	
		EL	16 41 40.	LR	40	6345	80	
	DH	EP	16 18 30.2	SZ	0.8	98	88	
		ES	16 29 15.	LR	18	2695	88	
		EL	16 46 02.	LR	28	5810	88	
20	17 05 38.9		04.0 S 104.2 E			SUMATRA		
			H = 25 KM					
20	19 08 39.8		46.8 N 152.8 E			KURILE ISLANDS		
			H = 22 KM					
	WI	EP	19 18 55.3	SZ	0.6	15	61	
	FM	EP	19 19 24.8	SZ	0.5	12	66	
		E	19 21 26.	SZ	1.2	18	66	
	NG	EP	19 20 11.0	SZ	0.7	21	73	
	DH	EP	19 20 58.2	SZ	0.7	61	82	
20	20 11 13.7		50.6 S 110.8 E			NEAR SOUTH AUSTRALIA		
			H = 31 KM					
	FM	EP*1	20 31 06.5	SZ	0.7	6	149	
		EP*2	20 31 14.	SZ	1.0	18	149	
20	22 02 38.2		26.1 N 098.6 E			NORTHERN BURMA		
			H = 25 KM					
	MV	E	22 30 55.	LZ	25	816	105	
		E	22 45 27.	LZ	20	1133	105	
		EL	22 51 45.	LT	35	11451	105	
	WI	EPP	22 20 58.6	SZ	1.4	20	105	
		ELQ	22 50 00.	LT	51	27190	105	
		ELR	22 57 40.	LZ	25	6340	105	
	MN	EPP	22 21 08.0	SZ	1.0	4	106	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	23
	FM	EP*	22 21 13.8	SZ	0.5	3	111	
		EPP	22 21 47.	SZ	1.2	48	111	
		E	22 55 45.	LT	30	5644	111	
		EL	23 01 40.	LZ	28	4909	111	
	NG	EPP	22 21 32.7	SZ	1.2	46	108	
		ESP	22 30 50.	LZ	20	1308	108	
		ESS	22 36 40.	LR	30	1170	108	
		ESSS	22 40 52.	LR	28	1091	108	
		EL	22 46 50.	LR	33	3820	108	
	DH	EL	22 53 59.	LR	33	22950	111	
21	00 06 02.4		24.8 S 177.1 W			TONGA ISLANDS REGION		
			H = 38 KM					
	WI	EP	00 18 40.7	SZ	1.3	32	86	
21	09 50 05.4		56.8 S 146.7 E			WEST OF MACQUARIE IS.		
			H = 25 KM					
	NG	EP*	10 09 43.4	SZ	0.8	9	144	
		EL	10 59 11.	LZ	20	785	144	
21	09 53 12.2		51.2 N 179.5 E			RAT IS.. ALEUT. IS.		
			H = 40 KM					
21	10 01 19.0		12.0 S 165.9 E			SANTA CRUZ ISLANDS		
			H = 25 KM					
21	17 21 57.0		16.3 N 093.0 W			CHIAPAS, MEXICO		
			H = 80 KM					
	SJ	EP	17 24 57.6	SZ	0.7	39	13	
	LC	IP	17 26 28.5 D	SZ	1.0	258	20	
		EPP	17 26 52.	SZ	1.0	46	20	
		ES	17 30 08.	SR	1.2	21	20	
	CP	EP	17 27 31.9	SZ	1.0	82	27	
	WI	EP	17 28 24.1	SZ	1.0	186	33	
		E	17 29 04.	SZ	1.1	35	33	
		EPCP	17 31 07.	SZ	1.0	12	33	
	MN	EP	17 28 11.6	SZ	0.8	49	31	
		E	17 28 51.	SZ	1.1	16	31	
		EPCP	17 31 03.	SZ	0.8	10	31	
		E	17 34 27.	SZ	1.0	16	31	
	FM	EP	17 27 45.6	SZ	0.7	44	28	
		E	17 28 01.	SZ	1.0	14	28	
	NG	EP	17 27 54.3	SZ	0.6	42	29	
		ES	17 32 31.	ST	1.1	68	29	
	DH	EP	17 28 00.6	SZ	0.9	55	30	
21	23 46 49.4		03.0 N 086.5 W			NEAR PANAMA		
			H = 25 KM					
	MN	EP	23 55 12.1	SZ	0.6	2	46	
	FM	EP	23 54 50.1	SZ	1.0	7	43	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	24
22	09 50	25.3	32.7 S H = 246	179.7 W KM	KERMADEC ISLANDS			
22	10 35	01.4	25.6 S H = 25	069.8 E KM	INDIAN OCEAN			
22	16 38	01.4	29.4 N H = 25	131.1 E KM	RYUKYU ISLANDS			
	WI EP	16 50 37.9		SZ	1.0	15	85	
	MN EP	16 50 47.7		SZ	0.8	7	87	
22	21 55	12.7	27.8 S H = 25	073.4 E KM	INDIAN OCEAN			
23	11 40	52.8	06.3 S H = 80	147.0 E KM	NEW GUINEA			
23	18 05	27.1	04.0 S H = 25	152.6 E KM	NEW IRELAND			
23	19 29	15.1	11.1 N H = 100	125.8 E KM	SAMAR, P. I.			
23	20 00	30.4	10.9 N H = 98	125.8 E KM	SAMAR P. I.			
23	20 21	28.6	03.8 S H = 25	152.0 E KM	NEW BRITAIN			
24	01 03	17.6	12.2 N H = 40	088.8 W KM	NEAR EL SALVADOR			
24	06 05	42.9	00.6 S H = 25	099.4 E KM	NEAR SUMATRA			
24	12 22	48.1	49.0 N H = 62	156.2 E KM	KURILE ISLANDS			
24	13 48	44.8	09.5 N H = 25	120.9 E KM	SULU SEA			
24	14 27	01.4	10.7 S H = 50	161.3 E KM	SOLOMON ISLANDS			
24	15 10	56.0	05.6 S H = 25	153.6 E KM	NEW BRITAIN			
24	17 57	13.5	10.8 S H = 25	161.6 E KM	SOLOMON ISLANDS			
24	18 06	45.1	34.3 N H = 25	070.1 E KM	AFGHAN PAKIS BORDER			
24	19 34	33.6	05.5 S H = 40	146.1 E KM	NEW GUINEA			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	25
25	06 05	44.8	49.3 N H = 25	129.2 W KM	NEAR VANCOUVER ISLAND			
	MV EP	06 08 02.8		SZ	1.0	4	10	
	WI EP	06 08 29.1		SZ	1.1	25	11	
	NG EP	06 11 40.4		SZ	0.8	18	29	
25	06 06	32.2	14.9 S H = 187	167.5 E KM	NEW HEBRIDES ISLANDS			
25	06 22	06.9	11.7 N H = 25	120.9 E KM	MINDORO, P. I.			
25	06 40	35.7	21.9 S H = 434	177.6 W KM	TONGA ISLANDS			
25	14 00	43.9	17.1 S H = 24	168.4 E KM	NEW HEBRIDES ISLANDS			
	MV EP	14 13 28.2		SZ	1.0	9	87	
	WI EP	14 13 45.0		SZ	0.8	8	91	
25	17 17	38.9	45.2 N H = 25	111.2 W KM	WESTERN MONTANA			
	WI EP	17 19 04.8		SZ	0.5	5	5.5	
25	20 10	56.3	17.7 S H = 60	174.1 W KM	TONGA ISLANDS			
26	01 13	09.4	42.0 N H = 60	141.8 E KM	NEAR HOKKAIDO, JAPAN			
	LC EP	01 25 31.0		SZ	0.5	2	83	
	MV EP	01 24 21.7		SZ	0.5	5	71	
	WI EP	01 24 39.8		SZ	2.0	120	74	
	MN EP	01 24 30.5		SZ	0.7	2	72	
	E	01 24 49.		SZ	1.2	42	72	
	FM EP	01 24 47.8		SZ	0.8	5	75	
	E	01 25 05.		SZ	1.4	46	75	
26	02 17	38.6	09.3 S H = 47	152.9 E KM	D'ENTRECASTEAUX IS.			
	MN EP	02 31 01.3		SZ	1.0	9	96	
26	03 30	37.6	33.0 S H = 25	178.4 W KM	KERMADEC ISLANDS			
26	08 44	48.8	00.1 S H = 25	122.3 E KM	NORTHERN CELEBES			
	LC EP	09 03 45.5		SZ	0.7	3	125	
	E	09 04 12.		SZ	1.0	4	125	
	WI EPKPP	09 14 22.		SZ	1.0	10	112	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	26
	NG	EP	09 03 54.0	SZ	1.0	29	127	
		E	09 23 45.	LT	28	767	127	
		EL	09 45 47.	LZ	30	1834	127	
26	13 21 55.0		27.4 N 115.1 W	BAJA CALIFORNIA				
			H = 25 KM					
	LC	EP	13 24 02.2	SZ	0.7	3	9.0	
		E	13 24 09.	SZ	0.8	24	9.0	
		E	13 24 24.	SZ	1.0	27	9.0	
		E	13 26 26.	SZ	1.0	11	9.0	
	CP	EP	13 23 15.0	SZ	0.5	17	5.3	
	WI	EP	13 25 15.4	SZ	0.9	8	14	
	FM	EP	13 24 53.2	SZ	1.0	29	12	
26	15 55 33.7		44.7 N 146.6 E	KURILE ISLANDS				
			H = 25 KM					
	WI	EP	16 06 20.1	SZ	0.5	5	66	
	MN	EP	16 06 29.2	SZ	0.6	7	67	
		E	16 06 33.	SZ	0.6	5	67	
	FM	EP	16 06 47.8	SZ	0.7	11	70	
	NG	EP	16 07 29.7	SZ	0.7	15	78	
26	21 29 42.3		06.9 S 150.5 E	NEW BRITAIN				
			H = 60 KM					
27	00 04 43.9		06.0 S 076.9 W	NORTHERN PERU				
			H = 65 KM					
	MN	EP	00 14 36.0	SZ	0.5	8	58	
		ESCS	00 24 07.	SR	5.0		58	
	FM	EP	00 14 15.8	SZ	1.0	7	56	
	NG	EP	00 13 52.5	SZ	0.7	7	53	
		EL	00 33 05.	LZ	30	916	53	
	DH	EP	00 13 21.0	SZ	0.7	69	48	
27	01 39 03.6		07.1 S 155.2 E	SOLOMON ISLANDS				
			H = 25 KM					
	MN	EP	01 52 11.4	SZ	1.2	28	92	
27	05 40 53.0		36.6 N 071.4 E	HINDU KUSH				
			H = 100 KM					
27	05 52 28.5		63.0 N 150.0 W	CENTRAL ALASKA				
			H = 100 KM					
	SJ	EP	06 01 04.8	SZ	0.5	14	49	
		E	06 01 26.	SZ	0.6	25	49	
		E	06 01 45.	SZ	0.6	25	49	
	LC	EP	06 00 03.3	SZ	0.8	6	41	
		E	06 00 24.	SZ	1.0	10	41	
	WI	EP	05 58 20.1	SZ	0.6	4	29	
		E	05 58 40.	SZ	1.1	57	29	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	27
		E	06 08 26.	ST	2.5	100	29	
	MN	EP	05 58 40.0	SZ	0.9	7	31	
	NG	EP	05 59 39.9	SZ	0.8	74	38	
	DH	EP	06 00 50.0	SZ	0.5	19	47	
27	06 34 55.4		27.7 N 101.9 E	SZECHWAN, CHINA				
			H = 40 KM					
27	09 20 36.0		35.7 N 070.5 E	PAK.-AFGHAN. BORDER				
			H = 122 KM					
27	12 40 48.9		37.4 S 073.2 W	NEAR CENTRAL CHILE				
			H = 40 KM	MAG 6.2 6.5 PAS				
	SJ	EP	12 51 50.5	SZ	0.7	19	69	
		EP	12 51 51.	LZ	14	6834	69	
		E	12 52 00.	SZ	0.9	109	69	
		ES	13 01 00.	LR	26	8282	69	
		ESCS	13 01 57.	LR	21	14540	69	
		EL	13 07 00.	LZ	20	2497	69	
	LC	EP	12 52 32.8	SZ	0.9	22	76	
		EP	12 52 36.	LZ	15	4630	76	
		E	12 56 40.	LZ	15	1640	76	
		ES	13 02 22.	ST	2.7	171	76	
		ES	13 02 22.	LT	23	11100	76	
		E	13 04 09.	LT	25	2310	76	
		ESS	13 07 24.	LR	25	7600	76	
		E	13 10 50.	LR	25	7830	76	
		EL	13 13 04.	LT	35	17900	76	
		ELR	13 17 00.	LZ	35	24100	76	
		E	13 20 09.	SZ	5.0		76	
		EL	13 23 00.	SZ	15.0		76	
	WI	EP	12 53 35.1	SZ	0.7	4	88	
		EP	12 53 38.	LZ	17	2879	88	
		ES	13 04 16.	LT	23	8560	88	
		ES	13 04 26.	ST	2.5	167	88	
		ESS	13 10 17.	LT	28	7029	88	
		E	13 14 00.	LR	26	5564	88	
		E	13 17 05.	LT	33	9215	88	
		EL	13 24 25.	LZ	23	11000	88	
	MN	EP	12 53 27.3	SZ	0.8	5	86	
		EP	12 53 28.	LZ	15	3780	86	
		ESKS	13 03 51.	ST	1.6	21	86	
		ESKS	13 03 55.	LT	30		86	
		E	13 04 00.	ST	8.0		86	
		ESS	13 09 55.	LT	25	4790	86	
		E	13 13 38.	LR	36	7790	86	
		E	13 16 40.	LT	26	6630	86	
		E	13 18 00.	LZ	30	5210	86	
		ELR	13 22 35.	LZ	25		86	
	NG	EP	12 53 13.0	SZ	0.8	37	83	
		EP	12 53 13.	LZ	16	5800	83	
		E	12 53 22.	SZ	1.0	88	83	
		ES	13 03 36.	LR	25	10800	83	
		ESKS	13 03 44.	LT	18	3850	83	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
							28
	NG	ESS	13 09 04.	LT	19	4000	83
		E	13 15 56.	LZ	32	6480	83
		ESKKS	13 18 32.	LR	28	10800	83
		EL	13 22 40.	LR	30	20175	83
	DH	EP	12 52 50.8	SZ	0.8	53	79
		EP	12 52 52.	LZ	23	735	79
		ES	13 02 54.	LR	23	11850	79
		ESS	13 08 08.	LT	22	3760	79
		EL	13 17 30.	LR	35	17770	79
27	14 03	27.3	19.2 S H = 140	069.4 W KM	NORTHERN CHILE		
	WI	EP	14 14 56.3	SZ	0.7	9	75
		E	14 15 27.	SZ	0.7	11	75
	NG	EP	14 14 04.7	SZ	0.6	6	67
	DH	EP	14 13 29.5	SZ	0.7	17	61
27	14 21	24.5	02.7 S H = 40	130.1 E KM	CERAM SEA		
	LC	EP	14 40 13.4	SZ	0.8	2	121
		EPKPP	14 50 24.	SZ	0.9	3	121
28	07 19	44.5	31.4 N H = 62	139.2 E KM	NEAR HONSHU. JAPAN		
	WI	EP	07 31 46.8	SZ	1.2	28	80
	MN	EP	07 31 52.0	SZ	1.0	9	81
27	21 34	11.8	46.1 N H = 115	026.3 E KM	ROMANIA		
28	05 19	54.1	02.5 S H = 25	140.5 E KM	NEAR NEW GUINEA		
28	13 44	55.8	09.0 S H = 180	075.2 W KM	PERU		
	LC	EP	13 53 39.3	SZ	1.0	9	51
	WI	EP	13 55 07.6	SZ	0.9	12	63
	NG	EP	13 54 14.9	SZ	0.6	19	56
	DH	EP	13 53 42.2	SZ	0.8	87	51
28	18 04	09.0	51.6 N H = 60	179.6 W KM	ANDREANOF ISLANDS		
	NG	EP	18 13 50.0	SZ	0.6	13	57
28	18 32	14.4	19.3 S H = 110	069.6 W KM	NORTHERN CHILE		
	WI	EP	18 43 44.9	SZ	0.9	20	75
		E	18 44 14.	SZ	0.8	18	75
	NG	EP	18 42 59.7	SZ	0.7	8	67

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
							29
28	20 34	24.9	19.4 N H = 60	069.3 W KM	NEAR DOMINICAN REP.		
	WI	EP	20 42 46.6	SZ	0.7	12	46
	MN	EP	20 42 46.1	SZ	0.5	17	46
	NG	EP	20 40 35.3	SZ	0.7	6	31
		EL	20 46 45.	LR	25	1004	31
	DH	EP	20 39 40.3	SZ	0.7	26	24
		E	20 43 42.	ST	0.7	63	24
		ES	20 43 48.	LR	23	1365	24
		EL	20 47 02.	LZ	23	882	24
28	20 44	22.4	02.9 S H = 25	140.7 E KM	NEAR NEW GUINEA		

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DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
1	SJ	EP	00 52 53.0	SZ	0.4	16	
		E	00 54 36.	SZ	0.5	18	
		E	00 55 11.	SZ	0.4	16	
		E	00 56 11.	SZ	0.5	18	
		EL	01 04 52.	LR	25	1815	
		EL	01 20 25.	LR	20	1467	
		EP	18 34 37.7	SZ	0.5	9	
		E	18 36 10.	SZ	0.5	27	
		E	18 37 04.	SZ	0.8	47	
1	LC	EP	04 16 23.8	SZ	0.4	1	
		EP	06 44 23.0	SZ	0.4	1	
		EP	09 16 18.8	SZ	0.7	4	
		EP	11 44 03.0	SZ	0.9	10	
		EP	11 54 18.0	SZ	0.5	2	
		EP	18 59 36.8	SZ	0.4	1	4.5
		ES	19 00 32.	SR	0.6	9	4.5
		IP	19 43 38.7 D	SZ	0.4	3	3.1
		ES	19 44 17.	SR	0.6	19	3.1
		IP	20 31 15.3 D	SZ	0.3	21	1.5
		ES	20 31 35.	SR	0.6		1.5
1	CP	EP	03 11 35.5	SZ	0.3	45	
		EP	03 24 56.5	SZ	0.3	5	2.8
		ES	03 25 32.	ST	0.4	22	2.8
		EP	04 15 26.6	SZ	0.3	1	2.6
		ES	04 16 00.	ST	0.5	16	2.6
		EP	07 59 14.0	SZ	0.4	3	4.1
		ES	08 00 04.	SR	0.5	14	4.1
		EP	22 05 01.0	SZ	0.3	1	1.7
		ES	22 05 24.	ST	0.5	13	1.7
1	MV	EP	07 59 12.5	SZ	0.5	13	
		EP	08 32 07.6	SZ	0.5	15	
		E	08 32 49.	ST	0.6	23	
1	WI	EP	07 59 51.5	SZ	0.4	1	
		EL	08 01 38.	ST	0.7	11	
		EP	08 32 40.0	SZ	0.4	2	
		EL	08 33 53.	SR	0.7	6	
		EP	18 10 42.4	SZ	1.3	19	
		EP	19 10 29.0	SZ	0.9	7	
1	FM	EP	01 55 04.5	SZ	0.4	14	1.2
		ES	01 55 20.	SR	0.4	35	1.2
		EP	07 13 45.5	SZ	0.6	12	1.3
		ES	07 14 02.	SR	0.6	33	1.3
		EP	08 00 08.9	SZ	0.5	10	
		E	08 02 10.	SR	0.7	26	
		EP	09 09 14.1	SZ	0.5	16	
		EP	11 23 11.1	SZ	0.5	16	
1	DH	EP	15 18 00.4	SZ	0.5	13	1.5
		ES	15 18 20.	SR	0.7	31	1.5
		EP	18 04 36.8	SZ	0.3	22	1.6
		ES	18 04 59.	ST	0.4	60	1.6
2	LC	EP	17 43 38.5	SZ	0.9	28	
		E	17 44 28.	SZ	1.1	10	
		EP	20 12 28.0	SZ	0.3	2	
		E	20 13 00.	SZ	0.3	7	
		E	20 13 38.	SZ	0.4	17	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
2	CP	E	20 13 56.	SR	0.5	19	
		EP	04 56 45.4	SZ	0.3	27	0.4
		ES	04 56 52.	SR	0.4	26	0.4
		EP	14 27 12.4	SZ	0.3	51	1.1
		ES	14 27 27.	SR	0.4	54	1.1
		EP	17 43 02.4	SZ	0.8	5	
		EP	18 01 43.2	SZ	0.3	3	
		E	18 01 52.	SZ	0.3	7	
		EP	22 41 20.8	SZ	0.3	71	1.2
		ES	22 41 36.	SR	0.4	73	1.2
2	WI	EP	12 29 26.0	SZ	1.0	5	
		EP	17 43 25.0	SZ	0.7	10	
		E	17 44 16.	SZ	1.0	7	
2	MN	EP	07 22 42.9	SZ	0.7	2	
		E	07 24 48.	SR	0.8	3	
		EP	11 48 04.1	SZ	0.5	1	
		EP	14 28 17.1	SZ	0.6	3	
		E	14 29 21.	ST	1.0	6	
		EP	16 38 14.6	SZ	0.4	5	1.5
		ES	16 38 35.	ST	0.6	11	1.5
		EP	17 43 13.8	SZ	0.6	3	
		E	17 44 03.	SZ	1.0	11	
		EP	18 16 00.1	SZ	0.5	2	
		EP	23 58 27.9	SZ	0.8	8	
2	FM	EP	10 10 42.0	SZ	0.3	2	1.5
		ES	10 11 01.	ST	0.5	5	1.5
		EP	23 25 15.5	SZ	0.4	4	2.3
		ES	23 25 45.	ST	0.6	8	2.3
		EP	23 48 50.5	SZ	0.5	31	1.3
		ES	23 49 07.	SR	0.7	40	1.3
2	DH	EP	17 09 01.3	SZ	0.4	33	1.8
		ES	17 09 26.	SR	0.5	53	1.8
3	SJ	EP	00 58 10.0	SZ	0.3	8	
		E	00 58 18.	LZ	20	2787	
		E	00 58 25.	SZ	0.4	25	
		E	01 03 55.	LR	20	2796	
		E	01 05 20.	LR	25	5363	
		E	01 08 00.	LR	25	16781	
		E	01 14 35.	LR	20	5766	
		E	01 19 05.	LR	35	12375	
		E	01 33 00.	LR	30	9186	
		E	02 35 10.	LR	35	10800	
		EL	02 40 45.	LR	20	6989	
3	LC	EP	08 05 41.1	SZ	0.5	1	
		EP	08 20 18.3	SZ	0.5	1	
		EP	20 11 33.1	SZ	0.8	7	
		E	20 12 43.	SZ	1.0	8	
		IP	20 23 42.6 D	SZ	0.3	6	1.5
		ES	20 24 01.	SR	0.6	24	1.5
3	MN	EP	07 21 58.8	SZ	0.6	1	
		IP	13 04 18.8 C	SZ	0.2	12	0.1
		ES	13 04 21.	SR	0.5	27	0.1
		EP	20 12 47.2	SZ	0.5	5	
3	WI	EP	20 12 58.7	SZ	0.9	20	
3	FM	EP	01 07 57.7	SZ	1.0	100	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
7	DH	EP	18 51 17.2	SZ	0.3	17	1.8
		ES	18 51 41.	ST	0.4	32	1.8
10	SJ	EP	03 23 47.0	SZ	0.7	24	
		E	03 24 15.	SZ	0.8	30	
		EP	04 57 35.0	SZ	0.5	17	
		E	04 58 21.	SZ	0.7	36	
		EP	05 05 44.4	SZ	0.6	30	
		EP	09 11 31.3	SZ	0.4	16	
10	LC	EP	02 16 19.9	SZ	0.6	6	
		E	02 16 26.	SZ	0.8	11	
		E	02 16 39.	SZ	1.0	8	
		EP	05 08 09.4	SZ	1.0	8	
		EP	17 44 38.8	SZ	0.7	2	
		IP	20 10 53.6 D	SZ	0.3	6	2.4
		ES	20 11 25.	SR	0.4	9	2.4
		IP	20 38 28.4 D	SZ	0.3	9	1.3
		ES	20 38 45.	SR	0.5	9	1.3
		EP	21 42 09.6	SZ	0.6	9	
10	CP	EP	12 25 40.7	SZ	0.3	1	4.0
		ES	12 26 29.	SR	0.4	5	4.0
10	WI	EP	02 18 14.5	SZ	0.9	16	
		EP	13 17 15.2	SZ	0.9	7	
		E	13 20 48.	SZ	1.5	25	
10	MN	EP	01 18 00.8	SZ	0.9	7	
		EP	03 30 50.0	SZ	0.8	6	
		EP	11 25 43.3	SZ	0.3	2	3.3
		ES	11 26 24.	ST	0.6	4	3.3
		EP	12 17 11.0	SZ	0.8	3	
		E	19 53 10.	LZ	17	1080	
		EL	19 56 50.	LT	25	471	
		EL	19 59 00.	LZ	30	1002	
10	NG	EL	13 56 40.	LZ	25	1042	
10	DH	EP	19 42 29.8	SZ	0.6	36	0.7
		ES	19 42 39.	ST	0.7	146	0.7
		EP	20 52 39.8	SZ	0.4	28	1.6
		ES	20 53 02.	ST	0.5	96	1.6
		EP	23 10 29.9	SZ	0.4	17	1.5
		ES	23 10 50.	ST	0.5	42	1.5
11	SJ	EP	05 31 55.8	SZ	0.6	40	
11	LC	EP	05 33 09.4	SZ	0.5	3	
		EP	08 32 11.7	SZ	0.7	6	
		EP	11 03 28.1	SZ	0.7	5	
		IP	20 18 47.0 D	SZ	0.3	9	1.5
		ES	20 19 06.	SR			1.5
11	CP	EL	03 20 00.	LZ	20	1630	
11	MV	EP	09 53 54.4	SZ	0.5	26	4.3
		ES	09 54 47.	SR	0.7	81	4.3
11	WI	EP	08 30 48.0	SZ	0.7	23	
		EP	09 54 37.5	SZ	0.5	1	
		E	09 56 08.	ST	0.8	18	
		E	09 58 18.	ST	1.0	19	
		EL	21 04 51.	LZ	28	2533	
		EP	21 36 37.2	SZ	0.3	1	2.4
		ES	21 37 08.	ST	0.5	27	2.4
11	MN	IP	07 06 07.6 D	SZ	0.3	5	0.1

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST
		ES	07 06 11.	SR	0.6	12	0.1
		EP	08 30 59.4	SZ	0.7	18	
		EP	11 05 04.5	SZ	0.7	2	
11	FM	EP	01 51 03.5	SZ	0.3	45	1.6
		ES	01 51 24.	SR	0.5	249	1.6
		EP	03 54 27.7	SZ	0.5	41	
		E	03 56 01.	SZ	0.7	78	
		E	03 57 58.	SR	1.0	130	
		EP	08 31 18.5	SZ	0.6	47	
11	NG	EL	03 32 02.	SR	1.0	61	
12	LC	EP	14 35 51.9	SZ	0.5	2	
12	WI	EP	03 36 52.3	SZ	0.5	4	
		EP	05 10 47.0	SZ	0.4	2	2.5
		ES	05 11 19.	ST	0.6	11	2.5
		EP	05 16 26.7	SZ	0.4	1	2.4
		ES	05 16 58.	ST	0.5	6	2.4
		EP	05 18 54.0	SZ	0.4	2	2.6
		ES	05 19 27.	ST	0.6	11	2.6
12	MN	IP	09 36 27.2 C	SZ	0.3	2	0.6
		ES	09 36 36.	ST	0.5	5	0.6
		EP	23 37 01.2	SZ	1.0	7	
		EP	23 47 25.9	SZ	0.6	5	
		E	23 48 03.	SZ	0.8	4	
12	NG	EP	20 28 11.7	SZ	0.4	9	1.4
		ES	20 28 29.	ST	0.5	17	1.4
13	SJ	EP	01 17 50.0	LZ	20	11	
		E	01 20 36.	LZ	20	1394	
		E	01 22 50.	LZ	20	1115	
		E	01 24 25.	LZ	20	697	
		E	01 30 00.	LZ	15	872	
		EP	01 35 20.1	SZ	0.4	16	
		E	01 35 48.	SZ	0.4	16	
		E	01 44 26.	SZ	0.5	18	
		EP	02 43 21.0	SZ	0.3	16	
13	LC	EP	01 56 36.8	SZ	0.3	3	0.7
		ES	01 56 46.	SR	0.5	7	0.7
		IP	17 41 57.0 D	SZ	0.3	5	2.7
		ES	17 42 31.	ST	0.5	7	2.7
		IP	21 17 54.1 D	SZ	0.3	1	3.1
		ES	21 18 33.	ST	0.6	3	3.1
13	CP	EP	12 28 40.4	SZ	0.3	102	1.2
		ES	12 28 56.	ST	0.4	123	1.2
13	WI	EP	08 09 46.2	SZ	0.5	1	2.6
		ES	08 10 19.	ST	0.7	11	2.6
		EP	13 22 31.3	SZ	0.7	7	
13	MN	EP	01 29 14.6	SZ	0.3	2	0.6
		ES	01 29 23.	ST	0.5	9	0.6
		IP	08 09 12.9 C	SZ	0.3	6	0.6
		ES	08 09 21.	SR	0.5	17	0.6
		EP	13 22 27.9	SZ	0.6	3	
		IP	13 50 05.2 C	SZ	0.3	6	0.4
		ES	13 50 11.	SR	0.5	22	0.4
13	FM	EP	01 39 51.7	SZ	0.3	13	1.5
		ES	01 40 11.	SR	0.5	38	1.5
		EP	07 40 43.3	SZ	0.3	13	5.0

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	36
13	NG	ES	07 41 44.	SR	0.5	38	5.0	
		EP	21 40 33.8	SZ	0.5	22		
		E	21 40 37.	SZ	1.0	163		
13	DH	EP	16 59 13.5	SZ	0.3	22	1.7	
		ES	16 59 37.	ST	0.4	34	1.7	
		EP	19 19 05.6	SZ	0.3	22	2.0	
		ES	19 19 32.	SR	0.4	30	2.0	
		EP	20 51 21.2	SZ	0.3	22	1.6	
		ES	20 51 43.	ST	0.4	34	1.6	
		EP	21 06 27.0	SZ	0.2	11	1.5	
		ES	21 06 46.	ST	0.3	64	1.5	
14	SJ	EP	04 44 59.3	SZ	0.6	20		
		E	04 46 20.	SZ	0.7	37		
		E	04 46 36.	SZ	0.9	59		
		E	04 46 57.	SZ	0.8	46		
		E	04 47 12.	SZ	0.8	122		
		EP	15 08 16.7	SZ	0.7	24		
		E	15 08 59.	SZ	0.8	46		
		EP	16 36 24.9	SZ	1.0	97		
14	LC	EP	03 42 25.3	SZ	0.6	2		
		EP	07 46 40.0	SZ	0.5	1		
		EP	08 15 55.1	SZ	0.7	3		
		E	08 16 04.	SZ	1.0	5		
		E	08 17 26.	SZ	0.9	4		
		EP	15 12 29.3	SZ	0.9	4		
		EP	15 38 35.5	SZ	0.3	2	1.6	
		ES	15 38 58.	SR	0.5	8	1.6	
		EP	17 28 58.7	SZ	0.7	3		
		EP	20 50 33.0	SZ	0.3	12	1.5	
		ES	20 50 52.	SR	0.5	20	1.5	
14	MN	IP	03 06 59.2 C	SZ	0.3	9	0.3	
		ES	03 07 05.	ST	0.5	34	0.3	
		EP	19 34 37.8	SZ	0.9	4		
14	FM	EP	15 02 15.5	SZ	0.3	28	1.1	
		ES	15 02 30.	SR	0.5	79	1.1	
14	DH	EP	06 36 46.4	SZ	0.6	57		
		EP	16 14 13.8	SZ	0.3	11	1.6	
		ES	16 14 36.	SR	0.5	51	1.6	
16	SJ	EP	03 33 06.1	SZ	0.5	9		
16	LC	EP	08 02 30.0	SZ	0.6	2		
		IP	17 38 38.1 D	SZ	0.3	8	3.0	
		ES	17 39 16.	SR	0.5	23	3.0	
		IP	19 05 11.6 C	SZ	0.3	4	0.5	
		ES	19 05 19.	SR	0.5		0.5	
		EP	19 21 59.0	SZ	0.6	1		
		IP	20 44 54.9 D	SZ	0.3	4	2.5	
		ES	20 45 27.	SR	0.5	8	2.5	
16	WI	EP	22 04 28.2	SZ	0.7	10		
		E	22 04 54.	SZ	0.7	5		
16	MN	EP	23 04 19.9	SZ	1.0	7		
16	FM	EP	22 25 10.4	SZ	0.3	64	1.4	
		ES	22 25 28.	ST	0.5	119	1.4	
		EP	23 01 55.8	SZ	0.5	14		
		E	23 02 04.	SZ	0.5	31		
16	NG	EP	21 38 24.5	SZ	1.0	57		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	37
17	SJ	EP	04 25 45.0	SZ	0.7	12		
17	LC	EP	07 49 39.3	SZ	0.6	4		
		E	07 50 12.	SZ	0.6	2		
		IP	22 01 09.2 D	SZ	0.3	3	1.4	
		ES	22 01 27.	SR	0.6	9	1.4	
17	CP	EP	01 08 04.3	SZ	0.4	3	2.6	
		ES	01 08 37.	SR	0.5	18	2.6	
		EL	04 35 40.	LZ	20	1759		
		EL	11 59 00.	LZ	22	1099		
		EL	18 56 00.	LZ	15	1372		
17	WI	EP	03 30 48.2	SZ	0.5	1		
		E	03 31 06.	SZ	0.5	3		
		E	03 32 11.	SR	0.7	21		
		EL	03 39 33.	LZ	25	1466		
		EP	04 25 51.2	SZ	1.0	7		
		EP	19 46 42.0	SZ	0.8	9		
17	MN	EP	01 08 38.4	SZ	0.8	3		
		EP	04 25 41.6	SZ	1.0	7		
		E	04 29 20.	LR	35	141		
		E	04 32 00.	LR	45	2960		
		EL	04 38 05.	LZ	35	2060		
		EP	09 41 01.3	SZ	0.6	2		
		EL	11 55 43.	LZ	28	520		
		EP	14 22 57.5	SZ	0.6	2		
17	FM	EP	03 29 39.5	SZ	0.3	125		
		E	03 40 03.	LZ	25	423		
		EL	03 45 03.	LZ	40	1806		
		EL	19 00 02.	LZ	20	342		
		EP	19 46 16.7	SZ	0.5	16		
17	DH	EP	19 43 45.5	SZ	0.4	28	1.5	
		ES	19 44 05.	SR	0.5	55	1.5	
18	SJ	EP	08 26 26.5	SZ	0.6	29		
18	LC	EP	07 13 13.1	SZ	1.0	5		
		IP	17 55 15.4 D	SZ	0.3	10	2.5	
		ES	17 55 48.	SR	0.6	17	2.5	
		IP	21 25 41.7 D	SZ	0.3	8	1.5	
		ES	21 26 00.	ST	0.5	9	1.5	
		EP	23 19 13.2	SZ	0.8	8		
		E	23 19 44.	SZ	0.9	18		
18	CP	EP	23 19 49.5	SZ	0.7	10		
		E	23 20 18.	SZ	1.0	15		
18	WI	EP	11 13 50.	LZ	20	539		
		EP	23 20 26.8	SZ	0.5	27		
		E	23 20 56.	SZ	0.7	26		
		EL	23 27 00.	LZ	25	1134		
		EL	23 52 10.	LZ	14	1833		
18	MN	EP	01 34 37.6	SZ	0.7	4		
		EP	23 20 18.7	SZ	1.0	13		
		E	23 20 46.	SZ	1.1	23		
18	FM	E	05 13 34.	LZ	25			
		EP	22 41 36.1	SZ	0.5			
		EP	23 20 03.2	SZ	1.0	158		
		E	23 47 05.	LZ	25	500		
18	NG	EP	07 11 22.9	SZ	0.7	14		
		EL	07 37 03.	LZ	20	5425		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	38
18	DH	EL	07 30 00.	LR	25	1418		
		EP	23 19 10.2	SZ	0.7	35		
		E	23 19 38.	SZ	0.7	35		
20	SJ	EL	23 24 30.	LR	27	835		
		EP	03 11 07.9	SZ	0.6	17		
		EP	09 35 28.5	SZ	0.5	7		
		EP	19 13 24.0	SZ	0.5	7		
20	LC	EP	22 25 29.1	SZ	0.5	22		
		EP	11 41 44.0	SZ	0.5	1		
		IP	16 14 19.9 D	SZ	0.3	5	1.5	
		ES	16 14 40.	SR	0.5	11	1.5	
		IP	17 26 28.2 D	SZ	1.1	228		
		E	17 26 40.	SZ	1.1	79		
		E	17 30 07.	SR	1.0	32		
		IP	19 11 48.9 D	SZ	0.3	2	0.6	
		ES	19 11 57.	SR	0.5	15	0.6	
		EP	19 16 18.8	SZ	0.5	2		
		EP	20 10 18.1	SZ	0.5	2		
		IP	21 03 48.8 D	SZ	0.3	5	0.6	
		ES	21 03 57.	SR	0.5	15	0.6	
20	CP	EP	01 21 45.7	SZ	0.3	23	1.5	
		ES	01 22 05.	ST	0.4	56	1.5	
		EP	22 22 03.4	SZ	0.3	60		
		EL	22 58 00.	LZ	35	6760		
20	WI	EP	03 13 19.6	SZ	0.7	22		
		E	03 13 43.	SZ	0.9	38		
20	MN	EP	02 13 10.0	SZ	1.0	9		
		E	11 16 40.	LZ	18	1640		
		E	11 25 55.	LT	19	2640		
		E	11 33 37.	LT	37	4550		
		E	11 35 39.	LT	31	8170		
		E	11 38 15.	LZ	33	11540		
		EL	11 43 10.	LZ	20	1340		
		EP	19 16 20.3	SZ	1.0	9		
		E	19 16 38.	SZ	1.0	12		
20	FM	EP	03 12 54.3	SZ	0.5	59		
		E	03 13 18.	SZ	0.5	43		
20	NG	EP	08 26 48.	LZ	35	646		
		EL	10 12 45.	LR	30	1758		
		EP	21 53 06.1	SZ	1.0	70		
		E	21 53 33.	SZ	1.0	56		
20	DH	EP	03 11 56.2	SZ	0.7	44		
		IP	20 26 59.2 D	SZ	0.3	17	1.6	
		ES	20 27 21.	ST	0.4	54	1.6	
21	LC	IP	16 14 20.8 D	SZ	0.3	6	2.3	
		ES	16 14 51.	SR	0.5	12	2.3	
		IP	19 13 49.1 D	SZ	0.3	2	0.6	
		ES	19 13 58.	SR	0.5	5	0.6	
		IP	21 03 49.9 D	SZ	0.3	5	1.5	
		ES	21 04 10.	SR	0.5	9	1.5	
21	WI	EL	10 42 00.	LZ	20	538		
		EL	12 06 10.	LZ	18	621		
		EP	22 20 29.3	SZ	0.3	3	3.0	
		ES	22 21 07.	ST	0.7	14	3.0	
21	MN	EP	01 18 29.3	SZ	1.0	23		

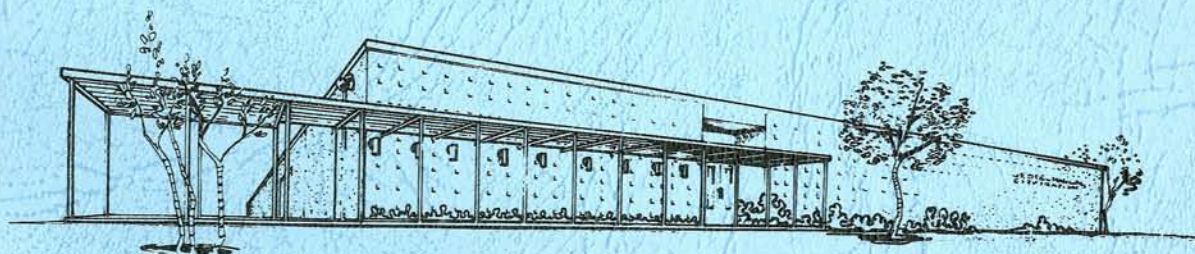
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	39
21	FM	EP	09 26 56.2	SZ	0.7	1		
		EL	00 19 05.	LZ	20	414		
		EL	08 53 50.	LZ	25	573		
		EL	10 30 10.	LZ	25	328		
		EL	10 45 00.	LZ	25	328		
		EL	12 08 35.	LZ	30	387		
		EP	21 19 50.0	SZ	0.3	52	0.1	
		ES	21 20 17.	SR	0.5	124	0.1	
		EP	22 20 18.1	SZ	0.3	19	2.1	
		ES	22 20 47.	SR	0.5	77	2.1	
		EP	22 30 22.8	SZ	0.3	19	2.2	
		ES	22 30 52.	SR	0.4	86	2.2	
		EP	23 54 50.1	SZ	1.0	29		
21	NG	EL	12 22 53.	LZ	20	1048		
		EP	21 40 53.2	SZ	0.5	10		
		E	21 40 56.	SZ	1.0	171		
21	DH	EL	12 27 40.	LZ	22	710		
		EP	17 20 01.7	SZ	0.3	49	1.3	
		ES	17 20 18.	SR	0.4	88	1.3	
22	SJ	EP	17 30 31.6	SZ	0.6	17		
22	LC	IP	14 52 34.2 D	SZ	0.3	3	2.6	
		ES	14 53 07.	SR	0.5	11	2.6	
		IP	15 20 59.1 D	SZ	0.3	4	0.6	
		ES	15 21 08.	SR	0.5	9	0.6	
		IP	15 32 35.0 D	SZ	0.3	3	2.4	
		ES	15 33 06.	SR	0.5	8	2.4	
		EP	17 31 56.6	SZ	0.5	6		
		IP	18 21 17.7 D	SZ	0.3	6	2.6	
		ES	18 21 51.	SR	0.5	13	2.6	
		IP	20 36 35.6 D	SZ	0.3	5	1.6	
		ES	20 36 57.	SR	0.5	10	1.6	
22	WI	EP	06 03 01.4	SZ	0.8	5		
		EL	06 47 55.	LZ	30	1653		
		EP	10 26 48.5	SZ	0.5	6		
22	MN	IP	01 27 31.5 D	SZ	0.3	5	0.1	
		ES	01 27 35.	SR	0.6	8	0.1	
		EP	06 02 59.6	SZ	0.8	1		
		E	06 22 38.	LR	20	473		
		EL	06 38 10.	LT	35	532		
		EL	06 46 40.	LZ	30	368		
		EP	10 26 48.9	SZ	0.8	7		
		EP	17 33 35.6	SZ	0.6	7		
22	FM	EP	03 38 15.3	SZ	0.5	16	1.4	
		ES	03 38 34.	ST	0.6	37	1.4	
		E	06 44 30.	LZ	60	992		
		EP	22 06 00.5	SZ	0.5	37		
		EP	23 06 40.2	SZ	0.3	10	1.4	
		ES	23 06 58.	SR	0.5	47	1.4	
		EP	23 39 39.8	SZ	0.5	53		
		E	23 40 00.	SZ	0.3	48		
22	NG	EL	06 37 30.	LZ	25	2845		
22	DH	EP	15 16 58.5	SZ	0.4	17	1.5	
		ES	15 17 19.	ST	0.5	23	1.5	
25	WI	EP	13 05 55.4	SZ	0.8	8		
25	NG	EL	07 25 18.	LZ	25	518		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	40		
26	LC	EP	09 12 32.5	SZ	0.7	3				
		EP	10 12 56.9	SZ	0.5	2				
		EP	15 50 11.6	SZ	0.7	3				
		EP	16 56 25.6	SZ	1.0	6				
		IP	20 22 21.3 D	SZ	0.3	4	1.5			
		ES	20 22 41.	SR	0.5	12	1.5			
		26	MV	EP	09 07 55.7	SZ	0.4	3	3.0	
				ES	09 08 34.	ST	0.5	35	3.0	
		26	WI	EP	02 43 52.1	SZ	1.0	5		
				EP	10 14 09.3	SZ	0.9	16		
EP	12 46 49.5			SZ	0.6	5				
EP	16 55 59.3			SZ	1.0	7				
EL	17 22 08.			LZ	28	1623				
26	MN	IP	09 22 07.0 D	SZ	0.3	3	0.6			
		ES	09 22 16.	SR	0.5	12	0.6			
		EP	12 46 45.9	SZ	0.6	2				
		EP	16 55 50.8	SZ	1.0	7				
		E	16 56 22.	SZ	1.5	11				
		E	16 58 54.	SR	2.0	49				
26	FM	EL	02 22 35.	LZ	15	395				
		E	08 39 45.2	LZ	25	333				
		E	08 45 55.	LZ	25	666				
		EP	09 03 33.8	SZ	0.5	11				
		EP	11 28 17.5	LZ	25	916				
		E	11 31 22.	LZ	10					
		EP	17 06 23.8	SZ	0.4	10	1.5			
		ES	17 06 43.	SR	0.5	21	1.5			
		EL	17 23 55.	LZ	25	250				
		26	NG	EL	17 35 27.	LZ	27	1398		
26	DH	E	13 41 15.	LT	17	4760				
		EP	18 31 29.7	SZ	0.3	16	1.7			
		ES	18 31 53.	SR	0.4	29	1.7			
		EP	20 32 35.6	SZ	0.3	27	1.6			
		ES	20 32 57.	ST	0.5	87	1.6			
27	LC	EP	03 35 09.1	SZ	0.7	2				
		EP	05 29 11.6	SZ	1.0	6				
		EP	08 50 06.2	SZ	0.8	2				
		EP	15 09 17.9	SZ	0.3	1	2.7			
		ES	15 09 52.	SR	0.5	5	2.7			
		IP	20 02 32.5 D	SZ	0.3	2	2.4			
27	WI	ES	20 03 04.	ST	0.5	6	2.4			
		EP	08 51 30.6	SZ	0.5	2				
27	MN	EP	18 03 05.9	SZ	0.7	4				
		EP	08 51 31.2	SZ	0.6	4				
27	DH	IP	14 13 15.0 C	SZ	0.3	5	0.7			
		ES	14 13 25.	ST	0.6	31	0.7			
		EP	08 48 23.1	SZ	0.5	13				
27	DH	ES	08 52 27.	ST	0.8	40				
		EP	15 44 40.8	SZ	0.3	17	1.6			
		ES	15 45 03.	ST	0.5	65	1.6			
		EP	22 29 13.8	SZ	0.3	17	2.8			
		ES	22 29 49.	ST	0.5	24	2.8			
		EP	00 13 15.7	SZ	0.7	17				
28	LC	EP	05 11 56.3	SZ	1.0	7				
		E	05 12 58.	SZ	1.0	7				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	41
28	MN	EP	04 00 59.6	SZ	0.3	1	3.2	
		ES	04 01 39.	SR	0.4	8	3.2	
		EP	13 07 15.1	SZ	0.5	5		
		EP	13 41 29.1	SZ	0.4	1	4.4	
		E	13 41 37.	SZ	0.5	8	4.4	
		ES	13 42 23.	ST	0.8	14	4.4	
28	NG	EP	13 08 08.6	SZ	0.6	13		
28	DH	EP	18 35 04.0	SZ	0.3	28	1.8	
		ES	18 35 28.	ST	0.4	42	1.8	
		EP	20 25 48.8	SZ	0.3	34	1.6	
		ES	20 26 10.	ST	0.4	68	1.6	

Bulletin No. 3
March 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

Bulletin No. 3
March 1962

01 November 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at nine of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, The Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

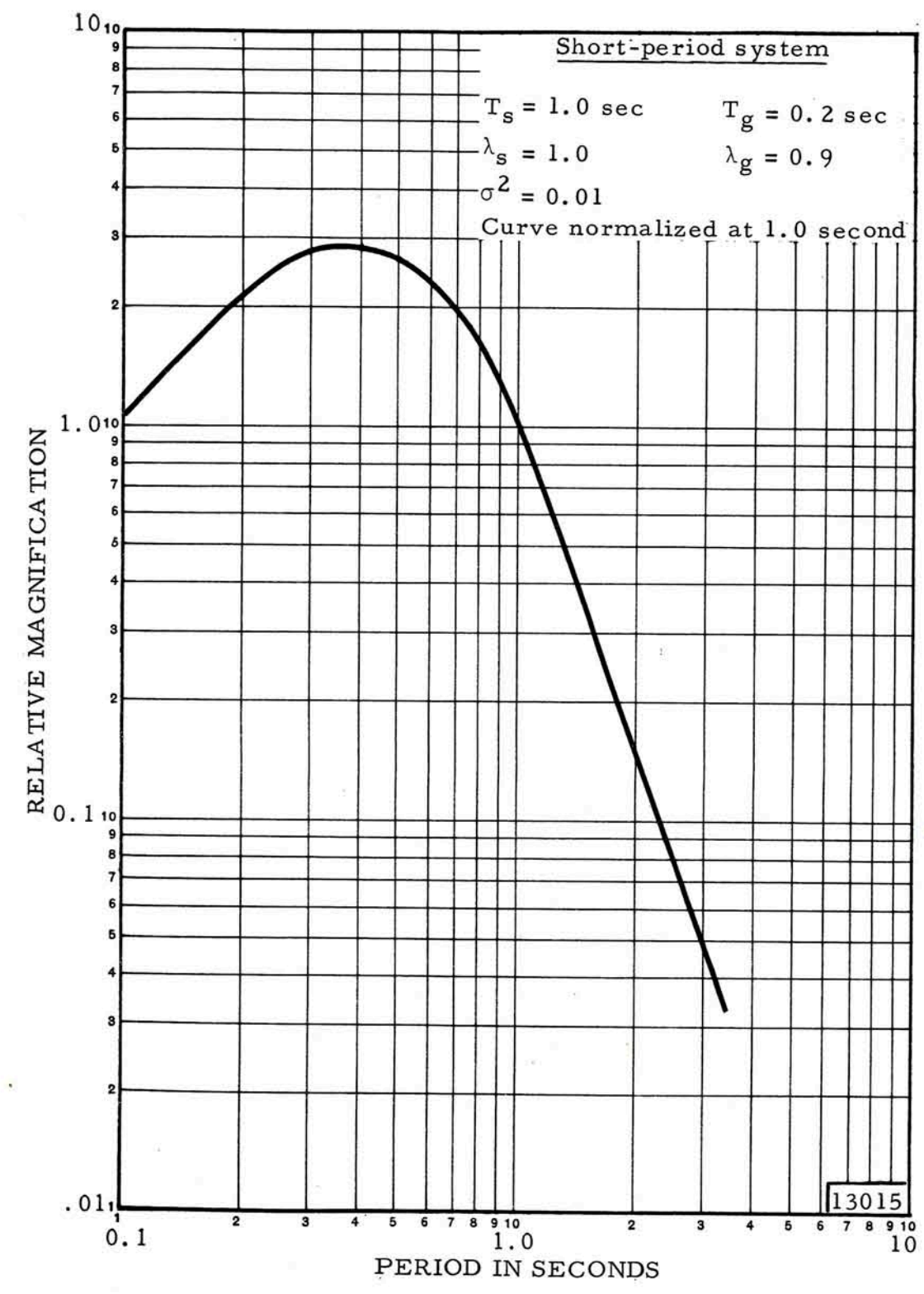


Figure 1. Frequency response of the short-period seismograph system

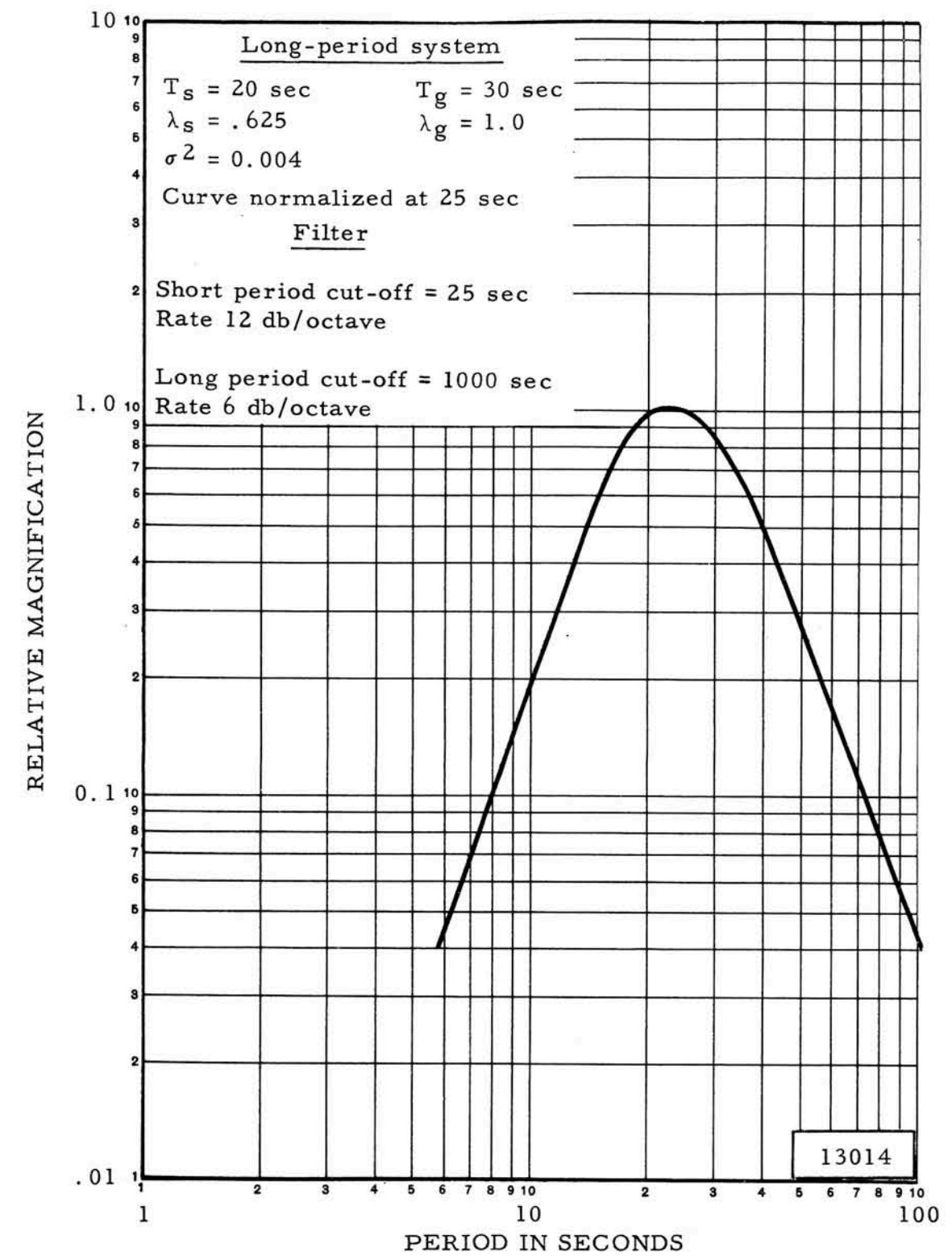


Figure 2. Frequency response of the long-period seismograph system

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system used the Sprengnether moving-coil seismometer. The short-period system used the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data is recorded by 35-mm Film Recorders, Geotech Model 1301A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period system at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

3.2 STA The station from which the data was taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators appear only before the initial arrival (P) phase and depth phases. These are defined as follows:

a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.

b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.

c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest

second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compressional) or D (dilation) will appear immediately to the right of the tenths of second column.

3.5 INST The seismograph channel from which the data was taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

3.7 AMP This column contains the amplitude of the phase given as millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

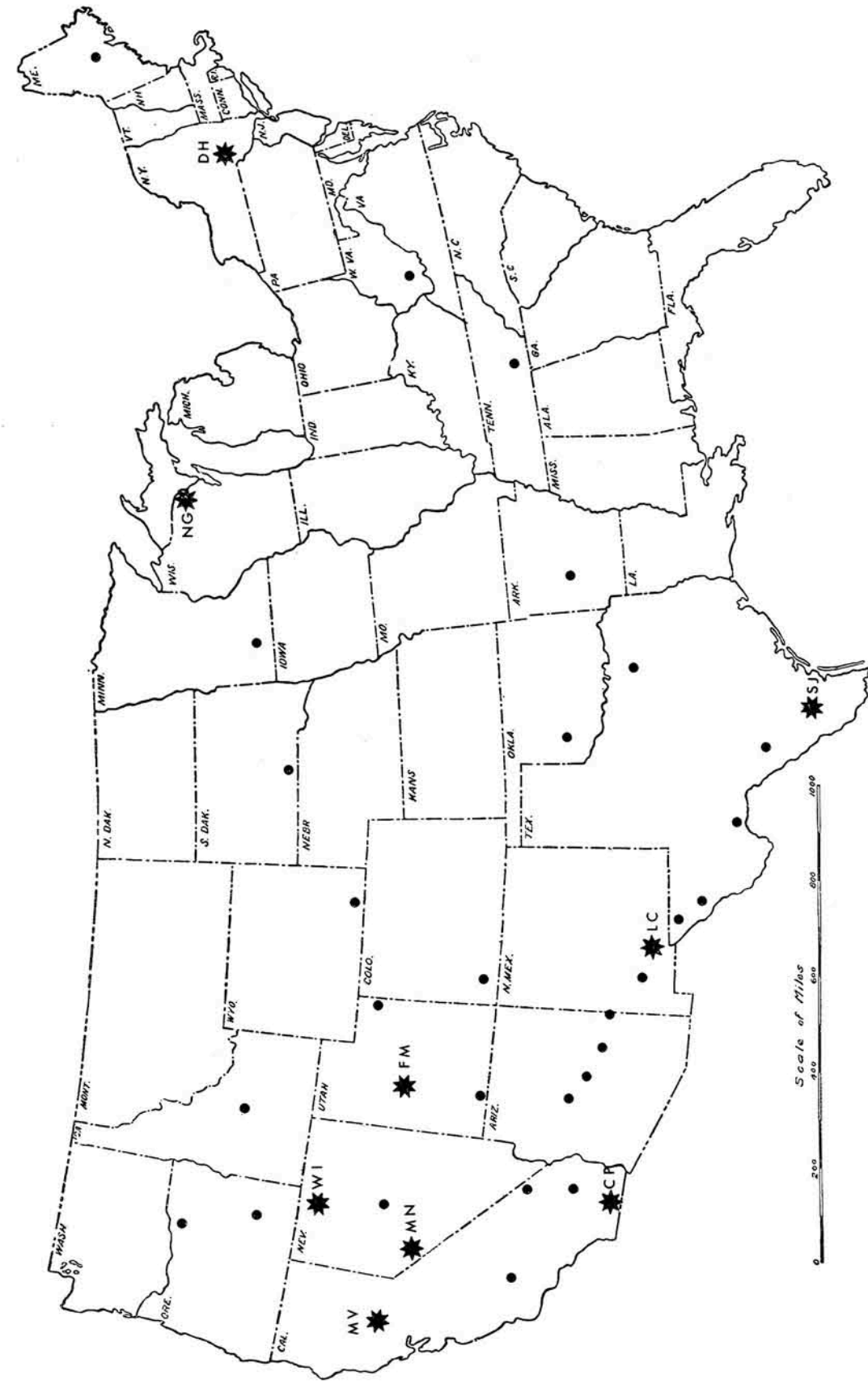
$$30.0 (2) = 30 \times 10^2 = 3000 \text{ m}\mu$$

$$30.0 (1) = 30 \times 10^1 = 300 \text{ m}\mu$$

$$30.0 (0) = 30 \times 10^0 = 30.0 \text{ m}\mu$$

All amplitudes are corrected for instrument response and are measured peak-to-peak. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one



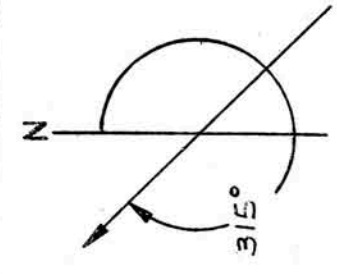
* Denotes bulletin sites for March 1962

Figure 3. LRSM Program Sites

TABLE I
LRSM SITE INFORMATION

Site Designation	Site Location	Horizontal seismometer orientation		Site Coordinates in deg, min, sec	Elevation	Rock Type
		Azimuth from True North in Degrees*	Trans-verse			
		Radial				
SJ TX	San Jose, Texas	127	217	N 27°36'43"	375'	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98°18'46"	5200'	Limestone
CP CL	Campø, California	182	272	N 32°24'08"	3900'	Granite
MV CL	Marysville, California	295	025	W 106°35'58"	2000'	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32°43'44"	5000'	Limestone
MN NV	Mina, Nevada	308	038	W 116°22'16"	5000'	Limestone
FM UT	Fillmore, Utah	058	148	N 39°13'36"	6200'	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121°18'05"	1300'	Granite
DH NY	Delhi, New York	095	185	N 41°21'02"	2140'	Sandstone
				W 117°27'30"		
				N 38°26'10"		
				W 118°08'53"		
				N 39°13'06"		
				W 112°12'25"		
				N 45°45'34"		
				W 88°09'15"		
				N 42°14'39"		
				W 74°53'18"		

*When earth moves in direction shown, trace moves up.



degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Revised Unified Magnitude (m) of the earthquake is determined by:

$$m = \log_{10} A + B$$

Where: m = Revised Unified Magnitude

A = $1/2$ P-P amplitude in millimicrons/second of the "P" phase (initial arrival).

B = Log function of distance and depth.

The average magnitude (sum of station magnitudes) is listed on the last line of an epicenter print-out.
number of stations

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceeding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETTIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month
Second group, origin time of the event
Third group, geographic coordinates of the epicenter
Fourth group, geographic description

Line 2 (from left to right)

First group, depth (H) of the hypocenter in kilometers
Second group, magnitude (MAG) as determined by Pasadena (PAS)
or Berkley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1
DCS/Operations
Headquarters United States Air Force
Washington 25, D. C.
ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	02 12	37.2	15.7 S H =062 KM	074.4 W	SOUTHERN PERU			
1	04 51	57.2	25.7 N H =052 KM	124.8 E	RYUKYU ISLANDS			
1	07 70	11.4	51.1 N H =025 KM	179.1 W	ANDREANOF ISLANDS			
1	11 22	11.6	49.4 N H =086 KM	155.3 E	KURILE ISLANDS			
1	18 35	12.9	43.0 N H =048 KM	146.2 E	NEAR HOKKAIDO, JAPAN			
1	20 38	31.1	38.0 S H =025 KM	074.0 W	NEAR CENTRAL CHILE			
1	22 20	03.5	37.3 N H =025 KM	004.9 W	NEAR SPAIN			
1	23 41	14.5	14.0 S H =073 KM	172.5 E	NEW HEBRIDES ISLANDS	MAG 6.00	PAS	
2	LC	SS	00 11 22	LT	22	30.3 (2)	91.0	
		SSS	00 14 54	LR	27	13.4 (2)		
		SKKS	00 18 30	LT	23	30.0 (2)		
		LR	00 22 28	LZ	23	44.8 (2)		
2	SJ	SS	00 12 18	LT	18	45.5 (2)	96.0	
		L	00 24 15	LR	23	75.0 (2)		
2	NG	SS	00 14 55	LR	22	36.4 (2)	107.0	
		L	00 25 20	LT	38	10.5 (3)		
2	FM	LQ	00 17 00	LT	39	11.9 (3)	88.0	
		LR	00 21 45	LZ	24	13.4 (3)		
2	DH	SKKS	00 17 27	LR	29	52.5 (2)	117.0	
2	MV	LR	00 18 10	LZ	25	98.7 (2)	82.0	
2	WI	L	00 19 55	LZ	28	95.0 (2)	85.0	
2	DH	L	00 37 32	LZ	27	77.2 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	00 28	12.7	06.1 N H = 100 KM	125.9 E	NEAR MINDANAO, P. I.			
2	MN	e	00 49 30	LZ	17	26.8 (2)		
2	MN	e	00 52 17	LR	18	32.9 (2)		
2	LC	e	00 54 01	LZ	22	10.7 (1)		
2	LC	e	00 56 48	LZ	23	91.8 (1)		
2	LC	L	01 02 56	LR	25	15.9 (2)		
2	MN	e	01 04 45	LR	25	66.7 (1)		
2	MN	e	02 03 30	LZ	27	12.7 (2)		
2	02 15	05.9	51.7 N H = 025 KM	173.5 W	ANDREANOF ISLANDS			
2	WI	eP	02 22 32.5	Z	0.5	2.0 (0)	39.0	3.85
		epP	02 22 43	Z	0.5	3.0 (0)		
2	LC	eP	02 24 10.0	Z	0.6	2.0 (0)	51.0	3.92
2	NG	eP	02 24 26.0	Z	0.8	19.0 (0)	53.0	4.78
2	DH	eP	02 25 42.5	Z	0.4	11.1 (1)	64.0	5.39
							AVG.	4.49
2	04 18	09.0	00.8 N H = 194 KM	123.9 E	CELEBES			
2	LC	eP [†]	04 36 51.8	Z	1.0	4.0 (0)	123.0	
2	WI	eP	04 31 58.6	Z	0.5	3.0 (0)		
2	CP	iP	08 13 02.0D	Z	0.2	6.0 (0)	0.1	
		S	08 13 06	T	0.3	17.0 (0)		
2	08 57	19.3	51.4 N H = 034 KM	178.1 W	ANDREANOF ISLANDS			
2	WI	eP	09 05 12.9	Z	1.0	9.0 (0)	42.0	4.15
2	FM	eP	09 05 48.0	Z	0.6	6.0 (0)	47.0	4.50
2	LC	eP	09 06 47.6	Z	1.0	11.0 (0)	55.0	4.54
		epP	09 07 00	Z	1.1	17.0 (0)		
2	NG	eP	09 07 00.3	Z	0.5	11.0 (0)	56.0	4.84
							AVG.	4.51

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	13 02	59.0	05.4 N H = 030 KM	126.5 E	NEAR MINDANAO, P. I.			
2	MN	ePD	13 17 08.5	Z	2.0	61.0 (0)	106.0	6.08
		e	13 20 37	Z	1.2	11.0 (0)		
		e	13 20 41	Z	1.3	44.0 (0)		
		PP	13 21 39	Z	2.0	85.0 (0)		
2	WI	ePD	13 17 11.6	Z	0.7	2.0 (0)	107.0	4.96
		e	13 20 58	Z	1.0	7.0 (0)		
		PP	13 21 31	Z	1.0	5.0 (0)		
		PKKP	13 32 53	Z	1.5	37.0 (0)		
2	LC	eP [†]	13 21 46.9	Z	0.7	3.0 (0)	117.0	
		e	13 22 10	Z	1.1	20.0 (0)		
		PKKP	13 32 16	Z	0.6	3.0 (0)		
		SP	13 32 38	LZ	18	46.5 (1)		
		SP	13 32 39	Z	1.1	17.0 (0)		
		e	13 40 01	LR	23	78.5 (1)		
		SSS	13 43 38	LR	32	15.6 (2)		
		L	13 52 13	LT	30	14.5 (2)		
2	NG	eP [†]	13 21 52.7	Z	0.7	22.0 (0)	120.0	
		L	14 00 40	LZ	30	27.2 (2)		
2	FM	L	13 54 10	LZ	25	28.2 (2)	110.0	
							AVG.	5.53
2	WI	eP	13 22 45.9	Z	0.5	3.0 (0)	2.4	
		S	13 23 16	R	0.7	32.0 (0)		
2	CP	iP	14 05 21.9D	Z	0.3	3.0 (0)	0.4	
		S	14 05 28	T	0.5	5.0 (0)		
2	CP	iP	14 59 09.4D	Z	0.3	31.0 (0)	0.6	
		S	14 59 18	T	0.6	61.0 (0)		
2	MN	eP	15 22 23.5	Z	0.5	4.0 (0)	0.7	
		S	15 22 33	T	0.5	9.0 (0)		
2	CP	eP	15 33 50.7	Z	0.2	4.0 (0)	1.2	
		S	15 34 06	T	0.3	9.0 (0)		
2	WI	eP	16 52 25.3	Z	0.5	2.0 (0)	2.2	
		S	16 52 54	R	0.7	19.0 (0)		
2	FM	eP	17 17 47.1	Z	0.4	4.0 (0)	2.1	
		S	17 18 15	T	0.5	3.0 (0)		
2	LC	eP	17 45 14.3	Z	0.4	10.0 (0)	2.5	
		S	17 45 46	R	0.5	18.0 (0)		
2	LC	eP	20 03 03.2	Z	0.2	8.0 (0)	1.5	
		S	20 03 22	T	0.4	17.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	NG	eP	21 49 08.1	Z	0.4	5.0 (0)	0.6	
		eS	21 49 17	Z	0.5	21.0 (0)		
		e	21 49 20	Z	1.0	17.7 (1)		
2	DH	eP	21 59 46.4	Z	0.5	12.0 (0)		
2	DH	e	22 00 14	Z	0.5	43.0 (0)		
3	00 54 20.9		28.2 N 100.8 E				SIKANG PROVINCE, CHINA	
			H =025 KM					
3	CP	eP	02 36 38.1	Z	0.2	1.0 (0)	1.5	
		S	02 36 57	T	0.4	4.0 (0)		
3	MN	eP	04 42 30.0	Z	0.4	5.0 (0)	1.0	
		S	04 42 43	T	0.5	12.0 (0)		
3	WI	eP	04 42 49.4	Z	0.5	3.0 (0)	2.1	
		S	04 43 17	R	0.7	12.0 (0)		
3	04 53 54.7		00.1 S 122.0 E				CELEBES	
			H =025 KM					
3	MN	eP	07 51 04.7	Z	0.5	17.0 (0)	1.1	
		S	07 51 19	T	0.5	21.0 (0)		
3	CP	eP	09 44 33.3	Z	0.3	2.0 (0)	1.1	
		S	09 44 47	R	0.4	4.0 (0)		
3	10 01 17.4		00.1 N 126.5 E				MOLUCCA PASSAGE	
			H =025 KM					
3	LC	eP†	10 20 08.9	Z	0.8	7.0 (0)	121.0	
		PS	10 31 38	LR	25	72.5 (1)		
		e	10 39 00	LR	35	87.8 (1)		
		L	10 58 42	LZ	25	12.4 (2)		
3	NG	eP†	10 20 17.2	Z	1.0	28.3 (1)	125.0	
		L	11 06 25	LZ	25	10.2 (2)		
3	MN	L	10 51 32	LZ	30	34.6 (1)	109.0	
3	FM	LR	10 53 45	LZ	26	17.1 (2)	114.0	
3	SJ	L	11 02 30	LR	27	24.4 (2)	130.0	
3	10 40 14.8		55.2 N 162.5 E				NEAR KAMCHATKA	
			H =028 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MV	eP	10 49 25.8	Z	0.8	9.0 (0)	52.0	4.45
3	MN	eP	10 49 38.3	Z	0.6	1.0 (0)	54.0	3.72
		e	10 49 49	Z	1.0	14.0 (0)		
3	FM	eP	10 49 58.8	Z	0.5	4.0 (0)	57.0	4.40
3	LC	eP	10 50 53.7	Z	0.8	4.0 (0)	65.0	4.30
							AVG.	4.24
3	12 14 52.1		07.4 N 126.5 E				NEAR MINDANAO, P. I.	
			H =090 KM					
3	MV	eP	12 28 42.4	Z	0.7	18.0 (0)	103.0	5.71
		PP	12 33 06	Z	0.8	13.0 (0)		
		L	13 01 40	LR	30	59.0 (2)		
3	WI	ePD	12 28 51.6	Z	0.7	6.0 (0)	105.0	5.43
		e	12 29 03	Z	1.0	14.0 (0)		
		PP	12 33 10	Z	0.7	8.0 (0)		
		PKKP	12 44 42	Z	1.0	14.0 (0)		
		PKKP	12 45 00	Z	1.2	58.0 (0)		
		LQ	12 59 50	LR	30	32.2 (2)		
		LR	13 04 25	LZ	35			
3	MN	ePD	12 28 54.5	Z	0.5	3.0 (0)	106.0	5.28
3	MN	e	12 29 10	Z	1.0	9.0 (0)	105.0	
		e	12 29 49	Z	1.2	14.0 (0)		
		e	12 32 51	Z	1.6	20.0 (0)		
		PP	12 33 10	LZ	25	78.1 (1)		
		PP	12 33 14	Z	1.2	14.0 (0)		
		PS	12 42 25	LR	20	11.0 (1)		
		PKKP	12 44 29	Z	0.7	5.0 (0)		
		e	12 44 57	Z	1.0	7.0 (0)		
		PKKS	12 48 00	LR	25	19.1 (2)		
		L	13 03 20	LR	30	35.4 (2)		
3	FM	ePD	12 29 11.4	Z	0.7	4.0 (0)	110.0	5.46
		eP†	12 33 18.0	Z	1.0	18.0 (0)		
		PKKP	12 44 28	Z	0.7	13.0 (0)		
		LR	13 04 38	LZ	22	33.6 (2)		
3	CP	eP†	12 33 18.7	Z	0.6	12.0 (0)	110.0	
3	LC	eP†	12 33 30.8	Z	0.8	37.0 (0)	116.0	
		SKS	12 40 21	R	2.2	14.0 (1)		
		PKKP	12 44 01	Z	0.8	10.7 (1)		
		PS	12 44 20	LR	23	26.6 (2)		
		e	12 45 45	LZ	23	18.2 (2)		
		SS	12 50 22	LR	30	25.6 (2)		
		SSS	12 54 43	LR	26	25.0 (2)		
		LQ	13 03 40	LT	32	16.3 (2)		
		LR	13 08 55	LZ	25	21.1 (2)		
3	NG	eP†	12 33 35.2	Z	0.7	36.0 (0)	119.0	
		PP	12 34 58	LZ	22	10.3 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		PKKP	12 43 52	Z	0.8	18.0 (0)		
		PS	12 44 41	LT	25	17.2 (2)		
		PPS	12 46 03	LZ	17	14.3 (2)		
		LR	13 10 49	LZ	25	28.1 (2)		
3	SJ	eP	12 33 49.6	Z	0.8	16.0 (0)	125.0	
		PS	12 45 35	LR	30	27.4 (2)		
		SSS	12 56 54	LT	25	18.2 (2)		
		LQ	13 06 05	LT	28	27.9 (2)		
							AVG.	5.49
3	16 01 55.0		21.5 S 179.1 W				FIJI ISLANDS	
			H = 613 KM					
3	LC	eP	16 13 42.5	Z	1.0	7.0 (0)	88.0	4.14
		epP	16 15 55	Z	1.3	32.0 (0)		
							AVG.	4.14
3	16 13 56.9		16.1 S 174.2 W				TONGA ISLANDS	
			H = 129 KM					
3	MV	eP	16 25 22.6	Z	1.0	28.0 (0)	74.0	4.75
3	MN	eP	16 25 31.7	Z	1.0	53.0 (0)	76.0	5.03
		e	16 25 53	Z	1.0	10.0 (0)		
		L	16 47 55	LZ	35	37.9 (1)		
3	WI	eP	16 25 43.4	Z	1.2	39.0 (0)	78.0	4.89
3	FM	eP	16 25 56.3	Z	1.0	40.0 (0)	81.0	5.05
3	LC	eP	16 26 00.1	Z	0.9	42.0 (0)	82.0	4.95
		e	16 26 21	Z	1.1	14.0 (0)		
							AVG.	4.95
3	MV	eP	16 30 12.2	Z	0.3	23.0 (0)	1.3	
		S	16 30 29	T	0.4	30.0 (0)		
3	MN	eP	16 30 12.7	Z	0.5	4.0 (0)	1.5	
		S	16 30 32	T	0.7	14.0 (0)		
3	WI	eP	16 30 35.9	Z	0.5	3.0 (0)	3.1	
		S	16 31 15	R	0.6	10.0 (0)		
3	DH	eP	16 41 51.7	Z	0.4	10.4 (1)	1.8	
		S	16 42 16	R	0.4	12.0 (1)		
3	MV	eP	16 52 03.7	Z	0.3	46.0 (0)	1.3	
		S	16 52 20	T	0.4	24.4 (1)		
3	WI	eP	16 52 23.7	Z	0.5	5.0 (0)	0.4	
		S	16 52 30	R				
3	FM	eP	16 53 07.0	Z	0.3	1.0 (0)		
3	FM	L	16 54 40	T	0.5	3.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	LC	eP	17 15 59.5	Z	0.3	2.0 (0)	2.4	
		S	17 16 30	T	0.5	6.0 (0)		
3	FM	eP	17 36 00.5	Z	0.3	4.0 (0)	2.1	
		S	17 36 28	T	0.4	6.0 (0)		
3	LC	eP	18 17 13.8	Z	0.3	4.0 (0)	1.5	
		S	18 17 32	R	0.5	21.0 (0)		
3	MV	eP	18 19 45.0	Z	0.3	26.0 (0)	1.4	
		S	18 20 02	T	0.4	26.0 (0)		
3	MN	eP	18 19 46.0	Z	0.5	26.0 (0)	1.5	
		S	18 20 05	T	0.5	30.0 (0)		
3	WI	eP	18 20 11.4	Z	0.5	3.0 (0)	2.7	
		S	18 20 47	R	0.6	20.0 (0)		
3	MV	eP	18 29 49.0	Z	0.3	94.0 (0)	1.4	
		S	18 30 07	T	0.4	19.4 (1)		
3	MN	eP	18 29 49.6	Z	0.5	15.0 (0)		
3	WI	eP	18 30 07.8	Z	0.5	4.0 (0)	0.5	
		S	18 30 15	R	0.6	21.0 (0)		
3	CP	eP	20 40 59.6	Z	0.3	3.0 (0)	3.0	
3	CP	S	20 41 38	R	0.6	10.0 (0)	3.1	
4	00 41 39.1		10.6 S 075.8 W				CENTRAL PERU	
			H = 020 KM					
4	LC	eP	00 50 52.0	Z	1.1	18.0 (0)	52.0	4.61
4	FM	eP	00 51 50.8	Z	1.3	98.0 (0)	61.0	5.46
4	MN	eP	00 52 09.0	Z	1.0	5.0 (0)	63.0	4.30
							AVG.	4.78
4	MV	eP	02 49 08.6	Z	0.3	14.0 (0)	0.9	
		S	02 49 21	T	0.5	97.0 (0)		
4	MN	eP	02 58 12.7	Z	0.5	4.0 (0)	0.1	
		S	02 58 17	T	0.6	11.0 (0)		
4	LC	eP	04 30 26.0	Z	0.9	7.0 (0)		
4	WI	eP	04 49 32.3	Z	0.5	5.0 (0)	3.5	
		e	04 49 39	Z	0.5	9.0 (0)		
		S	04 50 16	R	0.6	30.0 (0)		
4	MN	eP	05 13 38.6	Z	0.6	12.0 (0)	1.0	
		S	05 13 52	T	0.7	26.0 (0)		
4	WI	eP	05 13 54.4	Z	0.5	2.0 (0)	2.4	
		S	05 14 25	R	0.6	26.0 (0)		
		e	05 14 57	Z	0.5	8.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	CP	{P S	08 08 26.8C 08 08 37	Z T	0.3 0.4	5.0 (0) 8.0 (0)	0.7	
4	08 26 14.4		01.4 S 120.2 E H = 144 KM				CELEBES	
4	CP	{P S	09 16 52.1D 09 17 02	Z T	0.3 0.4	19.0 (0) 25.0 (0)	0.7	
4	11 40 24.5		67.6 N 171.4 W H = 015 KM				CHUKOTSKY PENINSULA, U S S	
4	WI	eP e PCP L	11 47 52.3 11 48 07 11 50 01 12 01 10	Z Z Z LT	1.0 1.2 1.2 30	69.0 (0) 51.0 (0) 19.0 (0) 83.0 (1)	39.0	4.97
4	MV	eP PCP	11 47 55.0 11 50 02	Z Z	1.0 0.7	63.0 (0) 14.0 (0)	39.0	4.90
4	MN	eP e PP	11 48 11.2 11 48 25 11 49 50	Z Z Z	0.5 1.2 1.6	13.0 (0) 56.0 (0) 26.0 (0)	41.0	4.61
4	FM	eP	11 48 23.7	Z	0.8	32.0 (0)	43.0	4.80
4	NG	eP	11 48 51.7	Z	0.7	6.0 (0)	46.0	4.43
4	CP	eP PCP	11 48 56.0 11 50 27	Z Z	0.7 0.7	10.0 (0) 6.0 (0)	47.0	4.75
4	LC	eP e	11 49 26.9 12 01 02	Z LR	1.0 17	41.0 (0) 45.6 (1)	51.0	5.01
							AVG.	4.79
4	MN	e	12 02 03	LZ	37	52.3 (1)		
4	NG	LQ	12 05 46	LR	20	17.0 (2)	46.0	
4	CP	{P e S	12 06 35.9D 12 06 46 12 06 52	Z Z T	0.2 0.4 0.5	3.0 (0) 4.0 (0) 8.0 (0)	1.3	
4	MN	e	12 08 02	LZ	13	17.6 (2)		
4	LC	LQ	12 08 25	LT	18	19.3 (2)	51.0	
4	SJ	LQ LR	12 12 35 12 17 40	LT LZ	20 15	21.2 (2) 47.6 (2)	59.0	
4	12 49 55.6		27.1 N 129.5 E H = 025 KM				RYUKYU ISLANDS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	WI	eP	13 02 46.6	Z	1.0	7.0 (0)	88.0	4.54
4	FM	eP	13 03 07.5	Z	0.8	4.5 (0)	93.0	4.64
							AVG.	4.59
4	CP	eP S	13 53 23.0 13 53 38	Z T	0.3 0.5	7.0 (0) 16.0 (0)	1.2	
4	CP	eP S	14 05 29.9 14 05 36	Z T	0.3 0.4	1.0 (0) 4.0 (0)	0.4	
4	14 14 16.4		00.9 S 121.4 E H = 168 KM				CELEBES	
4	16 20 53.5		36.3 S 072.9 W H = 060 KM				NEAR CENTRAL CHILE	
4	LC	eP L	16 32 32.4 16 57 50	Z LZ	1.1 23	45.0 (0) 65.8 (1)	75.0	5.01
4	FM	eP	16 33 16.3	Z	1.0	29.0 (0)	84.0	5.01
4	MN	eP e	16 33 17.5 16 33 25	Z Z	0.7 0.7	2.0 (0) 5.0 (0)	84.0	4.28
4	WI	eP	16 33 33.5	Z	1.0	9.0 (0)	87.0	4.55
							AVG.	4.71
4	MN	eP	19 11 38.1	Z	1.0	3.0 (0)		
4	LC	eP S	20 11 19.9 20 11 40	Z R	0.3 0.4	2.0 (0) 10.0 (0)	1.5	
4	CP	eP S	20 32 31.3 20 33 09	Z T	0.3 0.5	4.0 (0) 7.0 (0)	3.0	
4	MN	eP	20 41 36.5	Z	0.8	5.0 (0)		
4	MN	e	20 43 18	Z	1.2	25.0 (0)		
4	CP	eP S	21 29 34.7 21 29 50	Z T	0.3 0.4	2.0 (0) 7.0 (0)	1.2	
4	MN	eP	21 34 36.8	Z	1.0	5.0 (0)		
4	MN	e	21 34 45	Z	0.8	6.0 (0)		
4	MN	e	21 35 54	Z	1.2	14.0 (0)		
4	FM	eP	22 41 47.5	Z	0.6	9.0 (0)		
5	01 50 50.6		16.0 N 104.9 W H = 025 KM				NEAR JAUSCO, MEXICO	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	03 42	33.3	04.0 S 103.3 E				NEAR SUMATRA	
			H =078 KM					
5	07 44	00.0	34.6 N 121.6 W				NEAR CALIFORNIA	
			H =025 KM	MAG	4.25	PAS		
5	10 15	22.1	55.9 S 027.9 W				SANDWICH ISLANDS	
			H =025 KM					
5	14 59	54.2	11.3 N 126.3 E				LEYTE, PHILIPPINE ISLANDS	
			H =049 KM					
5	16 46	23.9	19.1 N 121.1 E				NEAR LUZON, PHILIPPINE ISL	
			H =014 KM					
5	20 57	52.1	40.3 N 125.1 W				NEAR CALIFORNIA	
			H =025 KM					
6	05 55	42.3	13.7 N 093.7 E				ANDAMAN ISLANDS	
			H =018 KM					
6	13 12	58.7	41.9 N 127.0 W				NEAR CALIFORNIA	
			H =025 KM					
6	15 32	33.0	12.5 N 143.9 E				MARIANA ISLANDS	
			H =033 KM					
6	18 49	22.0	12.1 S 167.8 E				SANTA CRUZ ISLANDS	
			H =060 KM					
7	LC	eP	01 52 36.4	Z	1.0	7.0 (0)		
7	NG	L	02 01 05	LZ	20	18.3 (2)		
7	02 07	11.8	62.2 N 026.6 W				NEAR ICELAND	
			H =043 KM					
7	FM	eP	02 16 35.8	Z	1.2	23.6 (0)	54.0	4.59
7	WI	eP	02 16 40.8	Z	1.3	30.0 (0)	55.0	4.86

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	LC	LR eP	02 35 00 02 16 58.2	LZ Z	35 1.3	50.5 (1) 32.0 (0)	57.0	4.89
7		LR	02 34 53	LZ	25	31.6 (2)		
7	NG	LR	02 25 10	LZ	20	23.4 (2)	39.0	
7	MN	LR	02 34 30	LZ	30	12.2 (2)	58.0	
7	MV	L	02 38 00	LZ	20	21.9 (2)	58.0	
							AVG.	4.88
7	MN	L	02 10 00	LZ	31	12.9 (2)		
7	WI	L	02 11 05	LZ	40	83.1 (1)		
7	LC	L	02 11 20	LZ	25	24.3 (2)		
7	MV	L	02 13 05	LZ	20	20.1 (2)		
7	CP	iP S	03 11 17.2D 03 11 32	Z T	0.2 0.4	13.0 (0) 35.0 (0)	1.2	
7	WI	eP	05 17 14.6	Z	1.0	95.0 (0)		
7	08 16	37.7	40.2 N 077.2 E				KIRGHIS, S. S. R.	
			H =025 KM					
7	CP	eP	10 07 34.5	Z	0.6	2.0 (0)		
7	10 36	47.7	05.3 S 153.9 E				SOLOMON ISLANDS	
			H =025 KM					
7	CP	eP	10 40 08.5	Z	0.3	3.0 (0)		
7	11 01	00.4	19.3 N 145.3 E				MARIANA ISLANDS	
			H =680 KM	MAG	7.00	PAS		
7	MV	eP	11 12 11.7	Z	0.7	15.4 (1)	82.0	5.34
		eP	11 12 12	LZ	20	48.8 (2)		
		epP	11 14 39	Z	1.0	13.5 (1)		
		PP	11 15 30	LZ	24	98.4 (2)		
		esPP	11 18 35	LZ	23	51.7 (2)		
		S	11 21 24	R	2.2	18.3 (2)		
		S	11 21 27	LR	27	20.4 (3)		
		esS	11 25 41	LR	29	20.0 (3)		
		e	11 30 02	LR	32	15.4 (3)		
		e	11 34 57	LZ	18	86.0 (2)		
		e	11 39 45	LR	25	66.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
7	MN	eP	11 12 22.0	Z	1.5		84.0					
		eP	11 12 22.0	LZ	18	37.2 (2)						
		epP	11 14 50	Z	1.5	34.7 (1)						
		epP	11 14 50	LZ	18	38.1 (2)						
		epPP	11 17 59	Z	1.2	76.0 (0)						
		esPP	11 19 00	LZ	20	30.4 (2)						
		e	11 21 42	LR	22							
		e	11 21 43	T	2.5	60.0 (1)						
		e	11 21 54	R	1.5	51.0 (0)						
		e	11 30 40	Z	1.0	18.0 (0)						
		PiPi	11 38 26	Z	1.0	14.0 (0)						
		PiPi	11 38 52	Z	1.5	62.0 (0)						
		SKPPi	11 40 58	Z	1.8	96.0 (0)						
		SKPPi	11 41 00	LZ	25	21.8 (2)						
		e	11 55 45	LR	35	54.6 (2)						
		PiPiPi	11 59 00	Z	1.5	22.0 (0)						
		7	WI	eP	11 12 22.7	Z				84.0		
				eP	11 12 23	LZ		20	32.8 (2)			
				epP	11 14 45	LZ		20	26.2 (2)			
				e	11 15 45	LZ		22	80.1 (2)			
epPP	11 17 35			Z	0.7	35.0 (0)						
esPP	11 18 50			LZ	27	47.7 (2)						
e	11 21 40			T	2.0	54.8 (1)						
e	11 21 40			LT	24	15.6 (3)						
e	11 21 54			R	2.0	74.2 (1)						
e	11 24 35			LT	24	75.4 (2)						
e	11 28 50			LZ	22	11.9 (3)						
PKKP	11 30 17			Z	0.9	8.0 (0)						
e	11 34 30			LZ	25	70.9 (2)						
PiPi	11 38 23			Z	1.5	22.0 (0)						
SKPPi	11 41 05			Z	1.5	60.0 (0)						
SKPPi	11 41 10			LZ	22	59.0 (2)						
e	11 42 05			LZ	22	67.6 (2)						
PiPiPi	11 59 01			Z	1.5	15.0 (0)						
7	CP			eP	11 12 41.8	Z	0.8	16.3 (1)	88.0		5.41	
				eP	11 12 43	LZ	21	19.8 (2)				
		epP	11 15 04	Z	1.0	15.3 (1)						
		epP	11 15 10	LZ	23	22.2 (2)						
		PPP	11 18 20	LZ	23	14.8 (2)						
		e	11 19 18	LZ	22	39.6 (2)						
		SKS	11 22 05	T	1.7	43.8 (1)						
		SKS	11 22 10	LT	28	23.2 (3)						
		S	11 22 24	T	1.8	37.1 (1)						
		e	11 27 06	R	2.2	19.8 (1)						
		e	11 27 28	LR	36							
		PKKP	11 30 32	Z	0.8	13.0 (0)						
		e	11 31 50	LZ	38	23.0 (3)						
		PiPi	11 38 23	Z	1.0	14.0 (0)						
		7	FM	eP	11 12 44.0	Z	0.7	25.7 (1)		88.0		5.72

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
		eP	11 12 45	LZ	22	23.3 (2)						
		epP	11 15 01	Z	1.1	10.2 (1)						
		epP	11 15 07	LZ	20	25.9 (2)						
		esP	11 16 08	LZ	21	47.5 (2)						
		esPP	11 19 30	LZ	21	45.7 (2)						
		SKS	11 22 09	T	2.0	61.8 (1)						
		SKS	11 22 13	LT	19	15.9 (3)						
		SP	11 23 40	Z	4.0							
		SP	11 23 46	LZ	26	12.9 (3)						
		e	11 27 14	LZ	28	16.4 (3)						
		PKKP	11 30 28	Z	0.5	7.0 (0)						
		esSS	11 32 09	LT	46	60.6 (4)						
		e	11 34 25	LZ	26	41.1 (2)						
		PiPi	11 38 10	Z	0.9	12.0 (0)						
		SKPPi	11 40 51	Z	2.0	10.2 (1)						
		PiPiPi	11 59 20	Z	2.0	12.8 (1)						
		7	LC	iP	11 13 16.1D	Z	1.0	25.4 (1)	95.0	5.90		
				eP	11 13 16	LZ	23	30.6 (2)				
				epP	11 15 41	Z	1.2	23.6 (1)				
				epP	11 15 41	LZ	23	36.1 (2)				
esP	11 16 50			LZ	21	53.0 (2)						
esPP	11 20 28			LZ	27	65.0 (2)						
e	11 22 16			Z	1.5	75.0 (0)						
SKS	11 22 53			R	1.3	46.0 (0)						
SKS	11 23 00			LR	33	15.4 (3)						
SP	11 24 59			LZ	27	47.0 (3)						
e	11 26 45			LR	25	16.5 (3)						
esSP	11 29 03			LZ	25							
esSS	11 33 53			LR	30	18.8 (3)						
e	11 40 32			R	1.8	40.0 (0)						
7	NG			eP	11 13 37.1	Z	0.8	72.0 (0)			100.0	5.75
				eP	11 13 38	LZ	22	18.4 (2)				
				epP	11 16 07	LZ	18	21.7 (2)				
		e	11 16 54	Z	0.8	63.0 (0)						
		esP	11 17 15	LZ	20	36.6 (2)						
		PP	11 17 50	Z	1.0	12.9 (1)						
		epPP	11 19 57	Z	1.2	16.0 (0)						
		esPP	11 21 03	LZ	23	62.2 (2)						
		SKS	11 23 09	T	1.8	67.0 (0)						
		SKS	11 23 13	LT	17	71.1 (2)						
		SP	11 25 50	LZ	25	10.8 (3)						
		e	11 27 15	LT	30	16.9 (3)						
		esPS	11 29 53	LT	27	17.5 (3)						
		e	11 31 47	LT	32	17.6 (3)						
		e	11 32 10	Z	0.8	27.0 (0)						
		7	SJ	esSS	11 35 00	LR	30	17.0 (3)				
		ePD	11 13 57.1	Z	0.9	12.1 (1)	104.0	6.43				
epP	11 16 20	Z	1.0	37.0 (0)								
e	11 16 54	Z	1.0	94.0 (0)								

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		PP	11 18 31	Z	1.4	19.2 (1)		
		esPP	11 21 32	LZ	24	56.7 (2)		
		SKS	11 23 33	LR	23	10.7 (3)		
		e	11 24 18	T	1.7	43.8 (1)		
		SP	11 26 25	LZ	24	94.7 (2)		
		PS	11 27 45	LR	34	32.0 (3)		
		PKKP	11 29 49	Z	0.7	11.3 (1)		
		esPS	11 30 33	LR	37	41.6 (3)		
		e	11 31 24	LR	26	21.8 (3)		
		e	11 35 20	LR	34	28.0 (3)		
7	DH	ePD	11 14 20.0	Z	0.8	89.0 (0)	110.0	6.28
		eP	11 18 19.0	Z	0.9	11.5 (1)		
							AVE.	6.08
7	LC	e	12 17 09	LR	31	75.5 (2)	95.0	
7	LC	e	13 16 03	LR	35	25.2 (2)	95.0	
7	13 58 32.4		17.2 N 147.1 E				MARIANA ISLANDS	
			H =041 KM					
7	WI	eP	14 10 53.5	Z	0.7	5.0 (0)	83.0	4.45
		e	14 11 25	Z	1.0	12.0 (0)		
		e	14 21 34	Z	1.0	7.0 (0)		
7	FM	eP	14 11 15.6	Z	0.8	6.8 (0)	87.0	4.53
							AVG.	4.49
7	15 15 53.1		51.5 N 160.6 E				NEAR KAMCHATKA	
			H =020 KM					
7	WI	eP	15 25 26.0	Z	1.0	12.0 (0)	55.0	4.58
		e	15 25 37	Z	1.0	28.4 (1)		
		e	15 25 48	Z	1.2	35.0 (0)		
7	MN	eP	15 25 36.1	Z	1.0	18.0 (0)	56.0	4.75
		e	15 25 48	Z	1.0	25.0 (0)		
7	FM	eP	15 26 00.0	Z	0.7	7.2 (0)	60.0	4.52
7	NG	eP	15 26 45.7	Z	1.0	29.0 (0)	67.0	5.16
7	LC	eP	15 26 50.0	Z	0.6	3.0 (0)	68.0	4.29
							AVG.	4.66
7	17 34 25.6		02.1 S 133.9 E				NEW GUINEA	
			H =089 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MN	eP	17 53 45.1	Z	0.5	18.0 (0)	3.5	
		S	17 54 29	T	1.0	28.0 (0)		
7	19 08 46.9		52.4 N 174.5 W				ANDREANOF ISLANDS	
			H =025 KM					
7	WI	eP	19 16 18.0	Z	1.0	14.0 (0)	40.0	4.30
		PCP	19 18 25	Z	1.0	95.0 (0)		
7	FM	eP	19 16 55.0	Z	0.7	9.1 (0)	44.0	4.31
7	LC	eP	19 17 54.8	Z	0.9	14.0 (0)	52.0	4.62
7	NG	eP	19 18 06.3	Z	0.6	20.0 (0)	53.0	4.92
		e	19 18 32	Z	0.9	23.0 (0)		
							AVG.	4.54
7	19 20 01.1		36.4 N 071.6 E				HINDU KUSH	
			H =100 KM					
7	CP	CP	21 05 54.1	Z	0.3	6.0 (0)	0.8	
		S	21 06 05	T	0.5	34.0 (0)		
7	21 08 03.4		27.1 N 057.1 E				IRAN	
			H =025 KM					
7	LC	eP	21 10 03.8	Z	0.3	43.0 (0)	1.5	
		S	21 10 22	T	0.5	68.0 (0)		
7	21 57 08.8		123.9 E				CELEBES	
			H =025 KM					
8	01 54 40.5		22.3 S 039.1 E				MOZAMBIQUE CHANNEL	
			H =025 KM					
8	08 11 12.9		17.9 N 146.5 E				MARIANA ISLANDS	
			H =131 KM					
8	10 33 41.9		35.1 S 179.7 W				NORTH ISLAND, NEW ZEALAND	
			H =025 KM					
8	10 47 03.9		46.0 N 152.7 E				KURILE ISLANDS	
			H =048 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	18 00	05.5	06.6 S 154.5 E H = 067 KM				SOLOMON ISLANDS	
8	20 48	38.1	44.9 S 079.4 W H = 025 KM				NEAR SOUTHERN CHILE	
8	20 52	38.1	01.2 N 126.1 E H = 043 KM				MOLUCCA PASSAGE	
8	21 38	35.4	03.4 S 029.2 E H = 025 KM				REPUBLIC OF CONGO	
9	LC	eP	01 50 15.4	Z	0.9	5.0 (0)		
9	CP	S	06 51 21	T	0.4	11.0 (0)	0.3	
		iP	06 51 15.3D	Z	0.3	5.0 (0)		
9	06 57	08.7	18.4 S 178.7 W H = 472 KM				FIJI ISLANDS	
9	CP	eP	07 08 23.2	Z	1.0	10.2 (1)	79.0	4.97
		e	07 09 08	Z	1.2	24.0 (0)		
		epP	07 10 07	Z	1.5	28.0 (0)		
9	MV	eP	07 08 24.1	Z	1.1	97.0 (0)	79.0	4.96
9	MN	eP	07 08 32.3	Z	1.2	81.0 (0)	80.0	4.83
		epP	07 10 16	Z	1.5	49.0 (0)		
		PP	07 11 41	Z	1.3	26.0 (0)		
		L	07 30 15	LZ	20	60.5 (1)		
9	WI	eP	07 08 43.6	Z	1.2	12.4 (1)	83.0	5.07
		e	07 09 04	T	1.0	19.0 (0)		
		epP	07 10 29	Z	1.5	37.0 (0)		
		PP	07 11 59	Z	1.0	10.0 (0)		
9	FM	eP	07 08 55.5	Z	1.2	77.0 (0)	85.0	4.96
		epP	07 10 40	Z	1.4	37.0 (0)		
9	LC	iP	07 09 00.1D	Z	1.0	66.0 (0)	86.0	4.92
		epP	07 10 45	Z	1.3	44.0 (0)		
							AVG.	4.95
9	LC	eP	07 50 20.0	Z	0.8	4.0 (0)		
9	NG	eP	07 50 36.2	Z	0.8	18.0 (0)		
9	CP	iP	07 53 58.1D	Z	0.3	9.0 (0)	0.4	
		S	07 54 05	T	0.4	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	08 31	27.6	06.4 S 154.7 E H = 117 KM				SOLOMON ISLANDS	
9	MN	eP	08 44 29.3	Z	0.7	4.0 (0)	93.0	4.56
							AVG.	4.56
9	MN	eP	08 40 05.5	Z	0.5	3.0 (0)	4.0	
		S	08 40 55	R	0.7	10.0 (0)		
9	CP	eP	09 54 57.9	Z	0.3	3.0 (0)	1.1	
		S	09 55 12	R	0.5	5.0 (0)		
9	MV	e	10 07 04	LT	29	26.4 (3)		
9	WI	eP	10 21 49.4	Z	0.7	12.0 (0)		
9	MN	L	12 57 50	LZ	30	37.0 (2)		
9	CP	iP	14 35 21.3C	Z	0.3	8.0 (0)	0.5	
		S	14 35 29	T	0.4	18.0 (0)		
9	CP	iP	14 49 28.2C	Z	0.3	11.0 (0)	0.6	
9	CP	S	14 49 36	T	0.4	18.0 (0)	0.5	
9	WI	eP	15 08 52.5	Z	0.3	3.0 (0)	2.2	
		S	15 09 21	Z	0.5	22.0 (0)		
9	17 30	02.0	24.5 S 179.6 W H = 586 KM				FIJI ISLANDS	
9	CP	eP	17 41 26.9	Z	0.9	53.0 (0)	83.0	4.77
		e	17 41 44	Z	0.8	9.0 (0)		
9	MN	eP	17 41 37.3	Z	1.0	27.0 (0)	85.0	4.53
		e	17 41 54	Z	1.0	5.0 (0)		
9	WI	eP	17 41 47.9	Z	1.0	19.0 (0)	87.0	4.48
9	FM	eP	17 41 58.6	Z	1.0	33.0 (0)	89.0	4.82
9	LC	eP	17 42 00.6	Z	1.0	73.0 (0)	90.0	5.26
		e	17 43 29	Z	1.3	18.0 (0)		
							AVG.	4.79
9	LC	eP	18 14 23.8	Z	0.3	5.0 (0)	2.9	
		S	18 15 00	R	0.4	13.0 (0)		
9	CP	eP	20 22 46.7	Z	0.2	3.0 (0)	0.8	
		S	20 22 58	T	0.4	10.0 (0)		
9	LC	eP	20 51 51.1	Z	0.3	13.0 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		S	20 52 08	R	0.5	54.0 (0)		
9	22 07 35.6		05.8 S 146.4 E H =076 KM			NEAR NEW GUINEA		
9	MV	eP	22 20 55.3	Z	1.0	69.0 (0)	96.0	5.84
		LR	22 51 13	LZ	25	25.7 (2)		
9	MN	eP	22 21 05.9	Z	0.7	12.0 (0)	98.0	5.28
		e	22 21 59	Z	0.7	18.0 (0)		
		PP	22 25 02	Z	1.5	39.0 (0)		
		L	22 52 22	LZ	30	21.5 (1)		
9	WI	eP	22 21 09.0	Z	1.0	33.0 (0)	99.0	5.64
		e	22 22 42	Z	0.8	18.0 (0)		
		PP	22 25 14	Z	1.5	67.0 (0)		
		L	22 53 05	LZ	40	44.0 (1)		
9	FM	eP	22 21 28.1	Z	0.9	27.0 (0)	103.0	5.75
		LR	22 55 00	LZ	26	21.1 (2)		
9	LC	ePD	22 22 06.2	Z	0.8	4.0 (0)	107.0	5.30
9	LC	PP	22 25 59	Z	0.9	7.0 (0)	10.7	
		PKKP	22 37 31	Z	1.0	17.0 (0)		
		L	22 57 38	LZ	25	34.3 (2)		
9	NG	eP [†]	22 26 17.0	Z	1.0	4.0 (0)	118.0	
		eL	23 03 03	LZ	25	22.6 (2)		
9	DH	eP [†]	22 26 37.5	Z	1.0	85.0 (0)	128.0	
		L	23 10 00	LZ	23	26.9 (2)		
							AVG.	5.58
9	MN	eP	22 52 53.0	Z	0.6	13.0 (0)		
9	MN	e	22 53 12	Z	0.7	8.0 (0)		
9	MN	L	22 53 38	Z	1.2	21.0 (0)		
9	FM	eP	22 53 14.5	Z	0.7	15.0 (0)		
9	NG	eP	23 25 31.3	Z	0.2	5.0 (0)	0.7	
		S	23 25 41	R	0.4	15.0 (0)		
		e	23 25 45	Z	1.0	21.4 (2)		
10	00 57 22.3		06.5 S 129.4 E H =202 KM			BANDA SEA		
10	LC	PKKP	01 26 03	Z	1.0	9.0 (0)	122.0	
10	MN	L	02 04 20	LZ	32	75.5 (1)	113.0	
10	FM	L	02 05 00	LZ	19	98.5 (1)	116.0	
10	CP	eP	01 00 06.4	Z	0.6	23.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	WI	eP	01 03 38.3	Z	0.5	10.0 (0)		
10	LC	eP	01 05 15.9	Z	0.7	6.0 (0)		
10	NG	eP	01 05 27.7	Z	0.6	12.0 (0)		
10	WI	L	01 45 40	LZ	25	59.0 (2)		
10	03 01 17.5		03.8 N 097.7 E H =025 KM			SUMATRA		
10	WI	eP [†]	03 20 19.0	Z	1.0	5.0 (0)	125.0	
10	MN	eP [†]	03 20 20.3	Z	1.5	21.0 (0)	126.0	
10	FM	eP [†]	03 20 27.6	Z	0.7	3.6 (0)	130.0	
10	SJ	eP [†]	03 20 56.5	Z	0.7	9.0 (0)	146.0	
10	LC	eP	04 05 58.0	Z	1.0	10.0 (0)		
10	04 59 27.5		31.2 S 178.3 W H =069 KM			KERMADEC ISLANDS		
10	MV	eP	05 12 10.5	Z	0.8	9.0 (0)	88.0	4.64
10	MN	eP	05 12 17.5	Z	1.0	22.0 (0)	89.0	4.99
		e	05 12 29	Z	1.2	16.0 (0)		
10	WI	eP	05 12 28.8	Z	1.0	24.0 (0)	92.0	5.18
10	FM	eP	05 12 37.0	Z	1.0	10.8 (0)	94.0	4.90
							AVG.	4.94
10	CP	eP	05 45 38.0	Z	0.7	16.0 (0)		
10	WI	eP	07 16 35.8	Z	0.7	8.0 (0)		
10	MV	eP	08 08 29.5	Z	0.5	98.0 (0)	4.1	
10	MN	eP	08 08 31.4	Z	0.9	18.0 (0)		
10	MN	e	08 08 34	Z	0.9	64.0 (0)		
10	MN	e	08 08 50	LZ	22	35.7 (1)		
10	WI	eP	08 09 10.3	Z	1.0	21.0 (0)		
10	MV	S	08 09 20	R	0.8	17.8 (1)	4.1	
10	FM	eP	08 09 29.7	Z	1.0	11.0 (0)		
10	CP	eP	08 09 30.0	Z	0.5	7.0 (0)		
10	MN	e	08 09 40	LZ	22	22.7 (2)		
10	MV	e	08 09 57	LR	18	34.6 (2)	4.1	
10	WI	e	08 10 09	R	1.0	41.5 (1)		
10	LC	eP	08 10 21.3	Z	1.0	6.0 (0)		
10	LC	e	08 10 31	Z	1.2	14.0 (0)		
10	WI	e	08 11 16	R	1.2	12.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	FM	e	08 12 08	Z	1.3	38.0 (0)		
10	WI	e	08 12 51	R	1.7	12.9 (1)		
10	LC	e	08 14 10	R	2.0	50.0 (0)		
10	LC	e	08 14 14	LT	18	19.8 (2)		
10	WI	L	08 31 30	LZ	25	14.5 (2)		
10	08 44 00.1		23.2 N 120.6 E	FORMOSA				
			H =031 KM					
10	WI	eP	08 57 31.0	Z	1.2	12.0 (0)	97.0	5.10
							AVG.	5.10
10	12 08 07.1		11.0 S 165.6 E	SANTA CRUZ ISLANDS				
			H =025 KM					
10	MV	eP	12 20 41.0	Z	0.8	18.0 (0)	85.0	4.95
		L	12 49 55	LZ	20	20.2 (2)		
10	MN	eP	12 20 50.5	Z	1.0	5.0 (0)	87.0	4.40
10	WI	eP	12 20 58.1	Z	1.0	7.0 (0)	89.0	4.57
		L	12 51 45	LZ	22	73.6 (1)		
10	FM	eP	12 21 12.6	Z	0.5	3.6 (0)	91.0	4.64
10	FM	L	12 50 03	LZ	20	24.6 (2)		
10	LC	L	12 52 39	LZ	20	19.0 (2)	95.0	
10	SJ	L	12 57 11	LR	23	20.8 (2)	101.0	
10	NG	L	13 03 15	LZ	23	15.3 (2)	109.0	
							AVG.	4.64
10	12 25 45.3		24.6 N 120.1 E	NEAR FORMOSA				
			H =121 KM					
10	MN	L	12 47 45	LZ	25	76.0 (1)		
10	CP	eP	13 41 56.2	Z	0.5	9.0 (0)		
10	MV	eP	13 41 57.0	Z	0.6	24.0 (0)		
10	MV	e	13 42 48	R	1.0	30.0 (0)		
10	CP	iP	14 08 37.5D	Z	0.3	14.0 (0)	0.1	
		S	14 08 40	T	0.4	25.0 (0)		
10	MN	eP	15 25 35.2	Z	0.5	2.0 (0)		
10	MN	L	15 26 54	R	1.0	17.0 (0)		
10	MV	eP	19 03 01.1	Z	0.3	9.0 (0)	1.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	MV	S	19 03 24	R	0.4	25.0 (0)		
10	MN	eP	19 03 24.3	Z	0.3	11.0 (0)	3.3	
10	MN	S	19 04 05	T	0.6	24.0 (0)		
10	CP	iP	20 07 34.5D	Z	0.3	14.0 (0)	1.2	
10	CP	S	20 07 49	T	0.5	16.0 (0)	1.1	
10	LC	eP	21 42 32.3	Z	0.3	16.0 (0)	1.5	
		S	21 42 51	R	0.5	48.0 (0)		
10	WI	L	21 53 07	LZ	42	28.8 (2)		
10	MV	e	22 37 50	LT	27	34.2 (2)		
10	MV	e	22 47 25	LT	33	71.6 (2)		
10	MV	e	22 49 55	LT	30	68.6 (2)		
11	02 26 05.7		14.8 N 092.1 W	GUATEMALA				
			H =206 KM					
11	SJ	eP	02 29 20.0	Z	0.9	12.1 (1)	14.0	5.03
		L	02 32 25	LR	30	89.5 (2)		
11	LC	eP	02 30 51.2	Z	0.7	27.0 (0)	23.0	4.69
		e	02 35 05	LZ	18	15.6 (2)		
		L	02 36 12	LT	25	14.2 (2)		
11	CP	eP	02 31 50.9	Z	0.8	8.0 (0)	29.0	4.20
11	FM	eP	02 32 05.0	Z	0.9	45.0 (0)	31.0	4.90
		PCP	02 35 00	Z	0.8	14.0 (0)		
		L	02 42 04	LZ	25	80.6 (1)		
11	DH	eP	02 32 05.6	Z	0.8	12.5 (1)	31.0	5.39
11	NG	eP	02 32 06.7	Z	0.5	10.0 (0)	31.0	4.50
		e	02 33 04	Z	0.7	14.0 (0)		
		PCP	02 34 59	Z	0.5	15.0 (0)		
		L	02 40 55	LZ	30	35.6 (2)		
11	MN	eP	02 32 38.6	Z	0.8	17.0 (0)	35.0	4.43
		e	02 33 33	Z	1.0	17.0 (0)		
		PP	02 34 03	Z	1.2	21.0 (0)		
		PCP	02 35 17	Z	0.6	7.0 (1)		
		S	02 38 06	LR	17	29.2 (1)		
		L	02 43 10	LZ	38	14.1 (3)		
11	WI	eP	02 32 42.3	Z	1.0	56.0 (0)	35.0	4.95
		e	02 32 58	Z	0.9	81.0 (0)		
		PCP	02 35 10	Z	0.6	8.0 (0)		
		L	02 45 25	LT	15	12.3 (2)		
11	MV	eP	02 32 51.7	Z	0.6	3.0 (0)	36.0	3.80
		eP	02 32 52	LZ	20	41.7 (1)		
		PCP	02 35 14	Z	0.7	8.0 (0)		
		L	02 43 45	LT	30	23.0 (2)		
							AVG.	4.65

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MN	eP	06 10 29.8	Z	1.0	15.0 (0)		
11	WI	eP	06 10 42.0	Z	1.0	7.0 (0)		
11	FM	eP	06 10 55.0	Z	1.0	14.7 (0)		
11	07 18 56.7		13.9 S 172.1 E				NEW HEBRIDES ISLANDS	
			H =133 KM					
11	MV	eP	07 31 05.1	Z	0.9	7.0 (0)	82.0	4.19
		L	07 55 45	LZ	25	28.8 (2)		
11	MN	eP	07 31 15.8	Z	1.2	21.0 (0)	85.0	4.54
		e	07 32 32	Z	2.0	98.0 (0)		
		e	07 42 40	LZ	27	50.9 (1)		
		L	07 56 55	LZ	25	26.9 (2)		
11	CP	eP	07 31 20.0	Z	1.0	37.0 (0)	85.0	4.87
		LR	07 46 10	LZ	28	26.8 (2)		
11	WI	eP	07 31 24.8	Z	0.8	5.0 (0)	86.0	4.20
		L	07 56 50	LZ	40	35.5 (2)		
11	FM	eP	07 31 42.0	Z	2.1	15.3 (1)	90.0	5.36
		L	07 59 15	LZ	30	20.9 (2)		
11	LC	eP	07 31 49.3	Z	0.7	3.0 (0)	92.0	4.33
		S	07 42 56	LT	17	79.5 (1)		
		PS	07 44 01	LT	20	82.5 (1)		
		SS	07 49 07	LT	20	92.7 (1)		
		L	08 00 14	LT	25	11.2 (2)		
11	NG	L	08 08 22	LZ	25	20.2 (2)	10.6	
							AVG.	4.59
11	15 23 40.7		52.3 N 178.0 E				RAT ISLANDS, ALEUTIANS ISL	
			H =135 KM					
11	MV	eP	15 31 30.7	Z	0.6	11.7 (1)	43.0	5.49
		eP	15 31 31	LZ	20	11.4 (2)		
		e	15 32 37	Z	0.8	62.0 (0)		
		PCP	15 33 14	Z	0.7	25.0 (0)		
		SCP	15 36 57	Z	0.8	28.0 (0)		
		S	15 37 49	T	1.2	30.0 (0)		
		S	15 37 49	LR	25	45.0 (2)		
		e	15 41 05	LR	22	33.6 (2)		
		SCS	15 41 16	R	1.0	24.0 (0)		
		L	15 42 30	LT	23	82.6 (2)		
		L	15 44 00	LZ	30	54.9 (2)		
11	WI	eP	15 31 38.4	Z	1.0	77.0 (0)	44.0	4.99
		eP	15 31 40	LZ	17	12.1 (2)		
		e	15 33 25	Z	1.2	10.7 (1)		
		SCP	15 37 03	Z	1.0	56.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	15 37 32	R	0.9	18.0 (0)		
		S	15 38 05	LR	25	23.8 (2)		
		SCS	15 41 28	R	1.0	12.0 (0)		
		SCS	15 41 32	LR	18	38.4 (2)		
		L	15 43 38	LR	20	56.6 (2)		
		L	15 45 05	LZ	35	87.0 (2)		
11	MN	eP	15 31 50.3	Z	0.5	42.2 (0)	46.0	5.13
		e	15 34 11	Z	1.5	94.0 (0)		
		SCP	15 37 07	Z	1.0	23.0 (0)		
		PCS	15 37 20	R	1.2	24.0 (0)		
		S	15 38 23	T	2.0	88.0 (0)		
11	FM	eP	15 32 15.5	Z	0.7	98.0 (0)	49.0	5.45
		e	15 33 15	Z	0.9	10.2 (1)		
		SCP	15 37 20	Z	1.0	96.0 (0)		
11	CP	eP	15 32 27.8	Z	1.0	17.8 (1)	51.0	5.52
		SCP	15 37 28	Z	1.0	43.0 (0)		
		SCS	15 42 08	T	1.9	26.2 (1)		
11	LC	iP	15 33 12.8C	Z	0.9	19.4 (1)	57.0	5.78
		eP	15 33 17	LZ	22	10.1 (2)		
		SCP	15 37 54	Z	1.1	28.0 (0)		
		S	15 40 57	LR	27	22.9 (2)		
		SS	15 45 02	LR	22	24.4 (2)		
		e	15 45 57	LR	22	33.7 (2)		
		e	15 48 22	LZ	23	35.0 (2)		
		LQ	15 49 25	LT	25	68.4 (2)		
		LR	15 50 45	LZ	35	49.7 (2)		
11	NG	eP	15 33 20.9	Z	0.7	37.4 (1)	58.0	6.13
		eP	15 33 23	LZ	20	10.1 (2)		
		PPP	15 36 55	LZ	22	15.2 (2)		
		S	15 41 08	R	1.2	29.0 (0)		
		S	15 41 08	LR	27	27.4 (2)		
		SCS	15 42 55	R	1.2	23.0 (0)		
		L	15 48 10	LZ	20	38.0 (2)		
11	SJ	eP	15 34 10.1	Z	0.7	17.9 (1)	65.0	5.81
		S	15 42 35	LR	20	30.6 (2)		
		L	15 51 15	LR	20	37.2 (2)		
		L	15 53 37	LT	35	16.6 (3)		
11	DH	eP	15 34 21.5	Z	0.6	42.0 (1)	67.0	6.17
		e	15 35 18	Z	0.7	75.0 (0)		
							AVG.	5.61
11	16 16 24.1		19.4 N 144.9 E				MARIANA ISLANDS	
			H =428 KM					
11	WI	eP	16 28 07.7	Z	0.5	8.0 (0)	84.0	4.40
11	MN	eP	16 28 11.4	Z	1.0	9.4 (0)	85.0	4.22
		epP	16 29 47	Z	0.7	3.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	16 30 22	Z	1.4	19.2 (0)	AVG.	4.32
11	MN	eP	17 02 35.1	Z	1.0	7.5 (0)		
11	LC	eP	18 08 15.3	Z	0.3	16.0 (0)	1.5	
		S	18 08 34	R	0.4	8.0 (0)		
11	19 19 05.6		09.0 N 126.7 E				NEAR MINDANAO, PHILIPPINE	
			H =025 KM					
11	MV	eP	19 32 56.5	Z	0.7	4.0 (0)	101.0	4.76
		eP	19 32 58	LZ	22	16.1 (2)		
		PP	19 37 13	Z	1.2	27.0 (0)		
		SKS	19 43 35	R	2.0	10.3 (1)		
		SKS	19 43 38	LR	20	39.6 (2)		
		SP	19 46 17	LZ	23	50.5 (2)		
		PKKP	19 49 13	Z	0.8	5.0 (0)		
		SS	19 51 05	LR	30	16.7 (3)		
		SSS	19 55 37	LR	24	57.1 (2)		
		eL	20 00 45	LT	35	98.1 (2)		
		eLR	20 04 30	LZ	30	13.4 (3)		
11	WI	eP	19 33 05.6	Z	1.0	5.0 (0)	103.0	4.90
11	WI	eP	19 33 10	LZ	12	13.9 (2)	104.0	
		PP	19 37 25	LZ	25	46.6 (2)		
		SP	19 46 35	LZ	35	75.5 (2)		
		PKKP	19 49 22	Z	1.2	56.0 (0)		
		SS	19 52 05	LR	28	66.4 (2)		
		SSS	19 56 20	LT	28	98.9 (2)		
		LQ	20 02 25	LT	35	19.1 (3)		
		LR	20 08 55	LZ	25	11.0 (3)		
11	MN	eP	19 33 09.8	Z	1.0	5.6 (0)	104.0	5.08
		eP	19 33 10	LZ	20	13.2 (2)		
		e	19 33 19	Z	1.1	26.8 (0)		
		PP	19 37 23	LZ	19	22.3 (2)		
		SKS	19 43 45	LR	20	36.8 (2)		
		SKS	19 43 48	T	2.0	88.3 (0)		
		S	19 44 57	LT	20	40.0 (2)		
		e	19 46 10	LR	31	58.3 (2)		
		e	19 46 35	LZ	21	55.6 (2)		
		e	19 47 34	LZ	30	44.6 (2)		
		PKKP	19 49 03	Z	1.2	12.3 (0)		
		e	19 51 25	LR	36	88.8 (2)		
		LR	21 06 37	LZ	25	46.8 (1)		
11	FM	ePD	19 33 36.0	Z	1.3	23.0 (0)	108.0	5.85
		ePD	19 33 45	LZ	20	97.7 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		PP	19 37 57	LZ	19	13.5 (2)		
		e	19 38 12	Z	1.5	10.3 (1)		
		SP	19 47 10	LZ	21	50.5 (2)		
		PKKP	19 48 50	Z	0.9	6.0 (0)		
		SS	19 53 01	LT	29	14.8 (3)		
		LQ	20 03 31	LR	30	18.3 (3)		
		LR	20 07 20	LZ	31	10.3 (3)		
11	LC	eP ⁱ	19 37 48.7	Z	1.0	13.0 (0)	115.0	
		PP	19 38 48	LZ	18	18.2 (2)		
		PKKP	19 48 25	Z	1.2	46.0 (0)		
		SP	19 48 27	LZ	25	74.0 (2)		
		e	19 54 02	LZ	22	37.2 (2)		
		PSPS	19 55 17	LR	30	16.7 (3)		
		SSS	19 59 11	LR	33	12.7 (3)		
		e	20 01 40	LR	25	57.0 (2)		
		e	20 02 45	LR	30	67.0 (2)		
		LQ	20 05 25	LT	35	13.0 (3)		
		LR	20 10 50	LZ	25	87.8 (2)		
11	NG	eP ⁱ	19 37 50.7	Z	0.5	5.0 (0)	117.0	
		e	19 38 09	Z	1.0	42.0 (0)		
		PP	19 39 11	Z	1.2	45.0 (0)		
		PP	19 39 12	LZ	18	35.6 (2)		
		PKKP	19 48 14	Z	0.7	14.0 (0)		
		PS	19 48 48	LT	22	77.0 (2)		
		e	19 50 20	LZ	23	41.9 (2)		
		SS	19 55 13	LR	28	12.1 (3)		
		PSPS	19 56 05	LT	40	24.8 (3)		
		LQ	20 08 32	LR	45	30.4 (3)		
		LR	20 18 00	LZ	25	11.7 (3)		
11	SJ	eP ⁱ	19 38 06.0	Z	0.8	59.0 (0)	124.0	
		PP	19 40 00	LZ	20	26.5 (2)		
		SP	19 49 40	LZ	29	81.0 (2)		
		PPS	19 51 30	LR	20	54.7 (2)		
		SSS	20 01 21	LR	22	14.1 (3)		
		e	20 04 15	LR	28	13.1 (3)		
		LQ	20 10 20	LT	27	96.6 (2)		
							AVG.	5.09
11	CP	eP	19 20 48.9D	Z	0.3	11.0 (0)	1.4	
		e	19 20 59	Z	0.4	12.0 (0)		
		S	19 21 06	T	0.5	20.0 (0)		
11	WI	eP	19 26 12.1	Z	0.4	4.0 (0)	3.7	
		S	19 26 58	R	0.5	25.0 (0)		
11	19 58 49.6		08.7 N 126.3 E				MINDANAO, PHILIPPINE ISLAN	
			H =171 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	CP	LR	20 08 30	LZ	25	11.3 (3)		
11	21 23	10.5	08.7 N 126.2 E	MINDANAO, PHILIPPINE ISLAN				
			H =157 KM					
11	CP	eP	23 24 54.0	Z	0.2	9.0 (0)	0.7	
		S	23 25 04	T	0.4	19.0 (0)		
12	01 07	38.7	04.6 N 125.8 E	CELEBES SEA				
			H =044 KM					
12	LC	eP	01 26 31.8	Z	0.7	2.0 (0)	118.0	
12	MN	eP	01 49 13.6	Z	0.7	4.0 (0)		
12	LC	eP	02 02 11.0	Z	1.0	9.0 (0)		
12	WI	eP	02 04 33.5	Z	0.7	7.0 (0)		
12	WI	e	02 07 00	LZ	20	11.8 (2)		
12	02 11	09.6	34.1 N 070.9 E	HINDU KUSH				
			H =044 KM					
12	MN	eP	02 17 36.1	Z	0.7	3.0 (0)		
12	MN	eP	05 13 27.4	Z	1.0	5.0 (0)		
12	09 41	45.7	09.0 N 083.0 W	COSTA RICA				
			H =113 KM					
12	SJ	eP	09 46 50.3	Z	0.5	27.0 (0)	24.0	4.63
		eP	09 46 56	LZ	14	55.6 (2)		
		epP	09 47 12	Z	2.0	14.6 (2)		
		PP	09 47 23	Z	1.2	45.8 (1)		
		e	09 49 09	LR	18	32.1 (2)		
		S	09 51 06	LR	20	69.8 (2)		
		L	09 52 54	LR	31	28.2 (3)		
12	LC	eP	09 48 06.0	Z	0.9	9.0 (0)	32.0	4.20
		e	09 48 22	Z	1.0	41.0 (0)		
		e	09 48 22	LZ	15	14.8 (2)		
		epP	09 48 35	Z	1.5	68.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		pp	09 49 25	Z	1.5	68.0 (0)		
		PP	09 49 27	LZ	17	16.0 (2)		
		PCP	09 51 00	Z	1.2	39.0 (0)		
		S	09 53 25	LR	25	57.0 (2)		
		L	09 58 10	LZ	30	10.4 (3)		
12	DH	eP	09 48 24.7	Z	1.0	18.2 (1)	34.0	5.56
12	NG	eP	09 48 47.8	Z	1.4	21.0 (1)	37.0	5.72
		epP	09 49 16	Z	1.5	25.6 (1)		
		PP	09 50 18	Z	1.8	29.9 (1)		
		S	09 54 37	LR	20	25.3 (2)		
		LQ	09 56 57	LR	35	21.0 (3)		
		LR	10 01 43	LZ	24	13.5 (3)		
12	CP	eP	09 49 06.5	Z	0.9	24.0 (0)	39.0	4.78
		PCP	09 51 20	Z	0.9	24.0 (0)		
		e	09 52 52	R	1.0	12.0 (0)		
		S	09 55 15	LT	20	60.0 (2)		
		LR	10 02 05	LZ	27	97.5 (2)		
12	FM	eP	09 49 14.2	Z	1.0	36.0 (0)	40.0	4.86
		eP	09 49 15	LZ	15	12.8 (2)		
		PP	09 50 58	Z	2.0	26.0 (1)		
		PP	09 50 58	LZ	18	14.3 (2)		
		S	09 55 36	LT	28	57.4 (2)		
		L	10 01 43	LZ	30	79.6 (2)		
12	MN	eP	09 49 40.6	Z	2.0	73.4 (1)	44.0	5.76
		eP	09 49 48	LZ	15	14.6 (2)		
		e	09 51 06	Z	3.0	16.4 (2)		
		L	10 03 12	LZ	50	17.8 (2)		
12	WI	eP	09 49 50.4	Z	1.4	11.6 (1)	45.0	5.12
		eP	09 49 55	LZ	12	32.3 (2)		
		S	09 56 47	LR	32	43.7 (2)		
		e	10 01 10	LR	35	37.1 (2)		
		L	10 05 00	LT	25	58.6 (2)		
12	MV	eP	09 49 59.5	Z	2.0	26.2 (1)	46.0	5.42
		eP	09 50 00	LZ	12	29.2 (2)		
		PP	09 52 00	LZ	18	12.7 (2)		
		SCP	09 55 22	LZ	19	95.6 (1)		
		S	09 56 48	LR	20	57.4 (2)		
		L	10 04 45	LZ	35	94.5 (2)		
							AVG.	5.13
12	11 40	12.8	08.1 N 083.0 W	NEAR PANAMA				
			H =058 KM	MAG	6.75	PAS		
12	SJ	eP	11 45 30.4	Z	0.8	59.0 (0)	25.0	5.37
		eP	11 45 35	Z	0.7	26.4 (1)		
		eP	11 45 35	LZ	15	59.9 (3)		
		PP	11 46 21	LZ	13	75.7 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	11 46 44	Z	1.2	85.6 (1)		
		e	11 47 47	LZ	12	84.6 (3)		
		e	11 48 48	LZ	16	40.3 (3)		
		e	11 48 55	T	2.4	45.5 (2)		
		S	11 50 06	LT				
		L	11 51 53	LZ	36			
12	LC	eP FS	11 46 44.1	Z	0.8	6.0 (0)	34.0	4.22
12	LC	eP	11 46 52.0	Z	1.0	69.0 (0)	33.0	
		eP	11 46 52	LZ	20	48.4 (3)		
		PCP	11 49 23	Z	1.0	36.0 (0)		
		S	11 52 10	LR				
		LQ	11 53 25	R	4.5	20.2 (2)		
		LR	11 54 49	Z	8.0			
		L	11 57 00	LZ				
12	DH	eP FS	11 47 03.1	Z	0.7	67.0 (0)	35.0	5.41
		eP	11 47 11	Z	0.7	12.5 (1)		
		e	11 49 42	Z	1.8	16.1 (2)		
		L	11 59 00	Z	15.0	15.0 (1)		
12	NG	eP FS	11 47 26.0	Z	1.1	53.0 (0)	39.0	4.98
12	NG	eP	11 47 33.7	Z	1.1	24.9 (1)	38.0	
		eP	11 47 35	LZ	22	10.4 (3)		
		e	11 48 02	Z	1.5	55.6 (1)		
		PP	11 49 05	Z	1.8	17.1 (2)		
		PP	11 49 05	LZ	22	13.9 (3)		
		e	11 49 56	Z	1.1	31.9 (1)		
		S	11 53 25	T	3.0	20.6 (2)		
		S	11 53 25	LT	30	73.0 (3)		
		L	11 57 12	LR				
		L	11 57 56	R	7.0	15.7 (3)		
12	CP	eP	11 47 43.0	Z	0.9	28.0 (0)	40.0	4.69
		eP	11 47 50	LZ	17	17.2 (3)		
		PP	11 49 25	LZ	20	55.0 (2)		
		PCP	11 49 54	Z	0.9	47.0 (0)		
		S	11 53 58	LT	26	40.6 (3)		
		e	11 57 05	LT	28	21.6 (3)		
		LR	11 59 53	LZ	35	40.0 (3)		
12	FM	eP FS	11 47 53.2	Z	0.8	11.0 (0)	41.0	4.39
		eP	11 47 55	LZ	17	11.6 (3)		
		eP	11 48 00	Z	0.9	89.0 (0)		
		PP	11 49 41	Z	2.5	21.3 (2)		
		PP	11 49 42	LZ	22	15.2 (3)		
		SCP	11 53 36	LZ	25	10.6 (3)		
		S	11 53 53	LT	25	33.5 (3)		
		e	11 58 15	LR	28	41.3 (3)		
		LR	11 59 42	LZ	35	24.6 (3)		
12	MN	iP FS	11 48 18.3C	Z	0.8	17.0 (0)	44.0	4.54
		eP	11 48 19	LZ	20	70.9 (2)		
		e	11 51 50	R	3.5			
		e	11 55 05	T	7.0			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	WI	eP FS	11 57 20	LZ	40	11.2 (3)		
		eP	11 48 22	LZ	15	20.2 (3)	46.0	
		eP	11 48 29.0	Z	0.7	4.0 (0)		4.06
		e	11 48 35	Z				
		PCP	11 50 02	Z	2.0	60.7 (1)		
		PP	11 50 30	Z	1.5	47.1 (1)		
		PP	11 50 30	LZ	18	50.8 (2)		
		e	11 51 53	T	2.2	75.7 (1)		
		PCS	11 53 55	LT	18	37.2 (2)		
		PCS	11 53 56	T	3.0	93.2 (1)		
		S	11 55 05	LT	22	63.0 (2)		
12	MV	eP FS	11 48 37.7	Z	1.0	8.0 (0)	47.0	
		eP	11 48 45.4	Z	1.4	42.2 (1)		4.91
		eP	11 48 46	LZ	20	16.2 (3)		
		e	11 49 46	Z	2.0	70.2 (1)		
		PP	11 50 23	Z	1.6	33.2 (1)		
		PP	11 50 23	LZ	17	95.5 (2)		
		e	11 51 25	T	2.6	43.8 (1)		
		e	11 54 19	R	3.0	87.8 (1)		
		S	11 55 35	T	6.0			
		S	11 55 35	LR				
		L	12 03 50	LZ				
							AVG.	4.73
12	MV	eP	12 20 11.8	Z	0.6	21.0 (0)		
12	WI	eP	12 20 18.0	Z	0.8	46.0 (0)		
12	FM	eP	12 20 46.8	Z	0.7	39.0 (0)		
12	CP	eP	12 21 00.4	Z	0.7	15.0 (0)		
12	NG	iP	12 21 27.1D	Z	0.5	25.0 (0)		
12	LC	eP	12 21 36.5	Z	0.7	12.0 (0)		
12	13 23 40.8		22.7 S 068.3 W				CHILE BOLIVIA BORDER	
			H = 158 KM					
12	LC	eP	13 34 12.5	Z	1.0	8.0 (0)	66.0	4.20
		eP AS	13 34 37.4	Z	1.0	6.0 (0)		
12	FM	eP	13 35 04.6	Z	0.7	7.0 (0)	75.0	4.25
		eP AS	13 35 29.2	Z	0.7	13.0 (0)		
12	MN	eP	13 35 18.0	Z	1.0	5.0 (0)	77.0	3.95
		eP AS	13 35 43.3	Z	1.0	9.0 (0)		
		e	13 40 23	Z	0.7	6.0 (0)		
12	WI	eP	13 35 26.3	Z	0.7	17.0 (0)	79.0	4.59
		eP AS	13 35 53.4	Z	0.7	18.0 (0)		
		epP	13 36 05	Z	1.2	44.0 (0)		
		e	13 40 34	Z	0.5	4.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.24
12	13 42	33.4	08.3 N 083.1 W	NEAR PANAMA			H = 024 KM	
12	SJ	eP	13 47 50.1	Z	0.7	19.0 (0)	24.0	4.43
12	LC	eP	13 49 04.0	Z	1.0	6.0 (0)	32.0	4.13
12	FM	eP	13 50 12.5	Z	0.9	6.0 (0)	41.0	4.02
12	MN	eP	13 50 38.3	Z	1.0	26.0 (0)	44.0	4.62
		e	13 51 51	Z	2.0	73.0 (0)		
12	WI	eP	13 50 48.8	Z	1.0	7.0 (0)	45.0	4.24
							AVG.	4.30
12	WI	eP	15 13 31.0	Z	1.0	9.0 (0)		
12	MN	eP	15 13 41.0	Z	1.0	9.0 (0)		
12	16 57	46.8	02.9 S 080.2 W	ECUADOR			H = 025 KM	
12	LC	eP	17 05 58.8	Z	0.7	3.0 (0)	44.0	3.83
12	MN	eP	17 07 13.5	Z	0.5	1.0 (0)	54.0	3.80
							AVG.	3.82
12	17 20	07.8	16.1 S 168.2 E	NEW HEBRIDES ISLANDS			H = 172 KM	
12	MN	eP	17 32 42.2	Z	1.2	8.0 (0)	89.0	4.32
		epP	17 33 25	Z	1.0	5.0 (0)		
							AVG.	4.32
12	MV	eP	18 17 01.0	Z	0.3	10.0 (0)	2.6	
12	WI	eP	18 17 10.8	Z	0.4	2.0 (0)	3.5	
		e	18 17 14	Z	0.4	16.0 (0)		
12	MV	S	18 17 34	T	0.5	33.0 (0)	2.6	
12	FM	eP	18 17 46.4	Z	0.3	1.0 (0)	5.0	
12	WI	S	18 17 54	R	0.5	46.0 (0)	3.5	
12	FM	S	18 18 46	R	0.4	2.0 (0)	5.0	
12	19 29	25.8	10.6 S 161.4 E	SOLOMON ISLANDS			H = 138 KM	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	WI	eP	19 42 18.1	Z	0.7	5.0 (0)	92.0	4.55
							AVG.	4.55
12	CP	iP	20 30 21.8C	Z	0.3	21.0 (0)	0.7	
		S	20 30 32	T	0.5	34.0 (0)		
12	CP	eP	21 01 00.5	Z	0.4	2.0 (0)		
12	CP	eP	21 10 30.4	Z	0.3	4.0 (0)	2.8	
		S	21 11 06	R	0.5	13.0 (0)		
12	MN	eP	21 34 21.6	Z	0.7	3.0 (0)		
12	NG	eP	21 57 11.1	Z	0.3	4.0 (0)	0.5	
		S	21 57 19	R	0.5	10.0 (0)		
		e	21 57 21	R	1.0	99.0 (0)		
12	FM	eP	23 49 19.5	Z	0.3	37.0 (0)	1.1	
		S	23 49 34	R	0.4	14.0 (0)		
13	LC	eP	02 08 00.3	Z	1.0	4.0 (0)		
13	LC	eP	03 03 03.1	Z	1.0	6.0 (0)		
13	WI	eP	05 48 44.0	Z	0.7	2.0 (0)		
13	06 07	47.4	37.3 N 138.3 E	HONSHU, JAPAN			H = 042 KM	
13	WI	eP	06 19 31.9	Z	0.7	2.0 (0)	76.0	4.03
							AVG.	4.03
13	CP	eP	08 14 58.3	Z	0.3	8.0 (0)	2.5	
		S	08 15 30	R	0.5	21.0 (0)		
13	CP	eP	08 20 04.5	Z	0.5	17.0 (0)	2.6	
		S	08 20 38	T	0.7	52.0 (0)		
13	LC	eP	08 20 59.7	Z	0.5	4.0 (0)		
13	LC	L	08 22 55	R	0.7	13.0 (0)		
13	LC	L	08 22 58	LR	18	66.2 (1)		
13	WI	eP	08 43 04.4	Z	0.4	3.0 (0)	0.8	
		S	08 43 15	T	0.5	11.0 (0)		
13	CP	iP	08 47 30.0D	Z	0.3	8.0 (0)	2.7	
		S	08 48 04	T	0.5	20.0 (0)		
13	CP	eP	09 40 53.7	Z	0.3	10.0 (0)	0.9	
		S	09 41 06	T	0.5	21.0 (0)		
13	LC	eP	10 45 51.1	Z	0.8	9.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	11 29	48.6	02.9 N 128.8 E H = 152 KM	MOLUCCA PASSAGE				
13	WI	eP	12 30 53.7	Z	0.5	2.0 (0)	3.8	
		e	12 31 02	Z	0.5	9.0 (0)		
13	FM	eP	12 31 28.4	Z	0.3	1.0 (0)	4.6	
13	WI	S	12 31 41	R	0.7	38.0 (0)	3.8	
13	FM	S	12 32 25	R	0.4	1.0 (0)	4.6	
13	CP	eP	15 04 54.9	Z	0.3	14.0 (0)	3.6	
		S	15 05 39	R	0.5	18.0 (0)		
13	CP	eP	15 23 01.1	Z	1.0	19.0 (0)		
13	LC	eP	15 36 36.0	Z	1.2	24.0 (0)		
13	LC	eP	20 47 22.0	Z	1.0	8.0 (0)		
13	LC	eP	21 17 36.0	Z	0.3	2.0 (0)	0.6	
		S	21 17 45	R	0.4	13.0 (0)		
13	CP	eP	22 14 59.6	Z	0.2	2.0 (0)	0.6	
		S	22 15 08	R	0.3	17.0 (0)		
13	WI	eP	24 08 41.8	Z	0.3	2.0 (0)	3.9	
		S	24 09 30	T	0.5	22.0 (0)		
14	MV	eP	00 08 19.0	Z	0.3	17.0 (0)	2.2	
		S	00 08 48	T	0.5	39.0 (0)		
14	WI	eP	02 41 02.2	Z	0.7	6.0 (0)		
14	WI	eP	03 12 35.2	Z	1.0	10.0 (0)		
14	CP	eP	08 23 17.2	Z	0.3	4.0 (0)	0.6	
		S	08 23 26	T	0.5	10.0 (0)		
14	08 27	22.4	08.8 N 126.8 E H = 028 KM	MINDANAO, PHILIPPINE ISLAN				
14	LC	PKKP	08 56 46	Z	0.8	14.0 (0)	115.0	
14	WI	PKKP	08 57 40	Z	1.0	12.0 (0)	103.0	
14	FM	eP	08 32 35.2	Z	1.0	19.0 (0)		
14	MN	eP	08 32 49.8	Z	1.0	5.0 (0)		
14	WI	eP	08 32 58.0	Z	0.7	16.0 (0)		
14	WI	e	08 33 32	T	0.8	6.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	CP	{P S	08 48 07.6C 08 48 22	Z R	0.3 0.4	5.0 (0) 17.0 (0)	1.1	
14	CP	eP	12 33 57.8	Z	0.4	5.0 (0)	2.9	
14	FM	eP	12 34 01.4	Z	1.1	24.0 (0)		
14	NG	eP	12 34 05.8	Z	0.7	14.0 (0)		
14	MN	eP	12 34 20.7	Z	1.0	5.0 (0)		
14	WI	eP	12 34 30.4	Z	1.0	5.0 (0)		
14	CP	S	12 34 34	T	0.5	12.0 (0)	2.9	
14	FM	e	12 34 36	Z	1.0	11.0 (0)		
14	MN	e	12 34 58	Z	1.0	11.0 (0)		
14	WI	e	12 35 12	Z	1.0	12.0 (0)		
14	CP	eP	13 58 25.1	Z	0.3	3.0 (0)	2.3	
		S	13 58 55	R	0.5	10.0 (0)		
14	15 17	32.7	04.9 S 152.4 E H = 057 KM	NEW BRITAIN				
14	LC	eP	15 24 45.3	Z	0.4	4.0 (0)		
14	MN	eP	15 25 13.1	Z	0.7	5.0 (0)		
14	FM	eP	15 25 17.7	Z	0.4	2.0 (0)		
14	WI	eP	15 26 00.4	Z	1.0	5.0 (0)		
14	MN	e	15 26 08	Z	1.0	20.0 (0)		
14	MN	e	15 26 41	Z	1.2	26.0 (0)		
14	LC	L	15 26 42	LR	17	52.5 (2)		
14	LC	L	15 26 47	Z	0.7	12.0 (0)		
14	MN	e	15 27 48	R	2.0	10.6 (1)		
14	FM	e	15 28 01	T	1.5	42.0 (0)		
14	MV	eP	15 28 25.8	Z	1.0	8.0 (0)		
14	MN	e	15 28 34	R	1.5	11.6 (1)		
14	MV	e	15 28 37	LZ	20	12.2 (1)		
14	WI	e	15 29 31	T	1.5	71.0 (0)		
14	CP	{P S	16 43 14.9D 16 43 19	Z T	0.3 0.4	22.0 (0) 44.0 (0)	0.1	
14	DH	eP	17 48 03.6	Z	0.3	59.0 (0)	1.8	
		S	17 48 28	R	0.5	45.0 (0)		
14	CP	eP	18 16 55.3	Z	0.3	4.0 (0)	0.6	
		S	18 17 04	T	0.4	9.0 (0)		
14	CP	eP	18 36 16.3	Z	0.3	2.0 (0)	0.1	
		S	18 36 19	R	0.4	9.0 (0)		
14	FM	eP	18 46 40.8	Z	0.4	5.0 (0)	2.0	
		S	18 47 07	R	0.5	31.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	LC	eP	19 59 25.3	Z	0.8	39.0 (0)		
14	LC	eP	20 47 31.4	Z	0.3	28.0 (0)	1.4	
		S	20 47 49	T	0.4	56.0 (0)		
14	MV	eP	23 30 24.8	Z	0.2	3.0 (0)	0.4	
		S	23 30 32	T	0.3	11.0 (0)		
15	01 51	19.4	45.7 N 151.3 E	KURILE ISLANDS				
			H = 043 KM					
15	13 07	06.9	20.6 S 178.8 W	FIJI ISLANDS				
			H = 623 KM					
15	21 13	04.1	07.1 S 106.1 E	NEAR JAVA COAST				
			H = 083 KM					
15	22 58	08.3	10.5 S 162.6 E	SOLOMON ISLANDS				
			H = 100 KM					
16	FM	eP	02 54 31.7	Z	0.4	1.0 (0)	1.5	
		e	02 54 34	Z	0.4	8.0 (0)		
		S	02 54 52	T	0.5	7.0 (0)		
16	WI	eP	05 23 37.4	Z	1.0	10.0 (0)		
16	MN	eP	05 23 55.5	Z	0.7	4.0 (0)		
16	LC	eP	05 25 21.5	Z	1.0	8.0 (0)		
16	09 42	24.7	26.8 N 127.2 E	RYUKYU ISLANDS				
			H = 176 KM					
16	MV	eP	09 55 00.0	Z	0.8	6.0 (0)	89.0	4.33
16	MN	eP	09 55 03.2	Z	2.0	37.0 (0)	89.0	4.72
		e	09 55 12	Z	1.0	5.0 (0)		
16	WI	eP	09 55 07.3	Z	0.8	5.0 (0)	90.0	4.24
							AVG.	4.53
16	CP	iP	10 10 46.1D	Z	0.3	55.0 (0)	0.6	
		S	10 10 55	T	0.6	10.6 (1)		
16	LC	eP	12 18 06.8	Z	0.5	8.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	MN	eP	12 19 48.1	Z	1.0	5.0 (0)		
16	WI	eP	12 20 00.4	Z	0.5	4.0 (0)		
16	LC	e	12 23 11	Z	0.8	8.0 (0)		
16	WI	e	12 24 22	Z	0.5	4.0 (0)		
16	MN	e	12 36 38	Z	1.0	5.0 (0)		
16	15 26	00.6	21.7 S 173.0 E	NEW HEBRIDES ISLANDS				
			H = 216 KM					
16	MV	eP	15 38 21.0	Z	0.8	10.0 (0)	87.0	4.27
		L	16 05 17	LZ	25	13.5 (2)		
16	CP	eP	15 38 23.1	Z	0.6	3.0 (0)	87.0	4.00
16	MN	eP	15 38 29.0	Z	1.2	14.0 (0)	89.0	4.47
		e	15 38 37	Z	1.5	44.0 (0)		
		LR	16 06 12	LZ	35	17.6 (2)		
16	WI	eP	15 38 38.7	Z	1.0	15.0 (0)	90.0	4.58
		L	16 07 12	LZ	30	70.7 (1)		
16	FM	eP	15 38 51.8	Z	1.0	11.0 (0)	93.0	4.64
16	LC	eP	15 38 57.0	Z	1.0	8.0 (0)	94.0	4.50
		L	16 09 00	LZ	30	55.8 (1)		
16	NG	L	16 20 29	LZ	25	10.3 (2)	111.0	4.32
							AVG.	
16	LC	eP	17 17 51.4	Z	0.5	3.0 (0)		
16	LC	L	17 20 02	R	0.7	10.0 (0)		
16	19 42	39.2	10.8 S 165.7 E	SANTA CRUZ ISLANDS				
			H = 025 KM					
16	MV	iP	19 55 09.0C	Z	0.9	27.1 (1)	84.0	5.10
		e	19 55 20	Z	0.8	64.0 (0)		
		PP	19 58 22	Z	1.3	32.1 (0)		
		e	20 05 28	LR	22	43.9 (1)		
		PPS	20 06 40	LR	35	20.5 (2)		
		e	20 17 48	LR	27	14.8 (2)		
		LR	20 20 40	LZ	28	69.9 (2)		
16	CP	eP	19 55 19.8	Z	1.2	24.0 (1)	86.0	5.90
		e	19 55 34	Z	1.0	75.0 (0)		
		e	19 55 41	Z	1.4	13.2 (1)		
		PP	19 58 32	Z	1.6	30.0 (0)		
		LR	20 21 40	LZ	28	48.4 (2)		
16	MN	eP	19 55 19.8	Z	1.2	37.8 (1)	86.0	6.05
		eP	19 55 20	LZ	20	54.0 (1)		
		e	19 55 49	Z	1.2	68.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		S	20 05 50	LT	25	19.9 (2)		
		e	20 11 55	LT	25	14.9 (2)		
		L	20 26 50	LT	30	58.7 (2)		
16	WI	eP	19 55 26.6	Z	1.0	90.0 (0)	88.0	5.68
		eP	19 55 30	LZ	20	47.2 (1)		
		S	20 06 00	LR	25	68.2 (1)		
		LQ	20 18 40	LR	35	35.3 (2)		
16	FM	eP	19 55 42.7	Z	1.0	10.2 (1)	91.0	5.81
		e	19 56 17	Z	1.5	57.0 (0)		
		LR	20 24 07	LZ	37	89.7 (2)		
16	LC	eP	19 55 56.5	Z	1.1	95.0 (0)	94.0	5.74
		eP	19 55 58	LZ	20	27.2 (1)		
		PP	19 59 42	Z	1.5	49.0 (0)		
		S	20 06 55	LT	25	12.3 (2)		
		PS	20 08 40	LR	26	16.8 (2)		
		e	20 13 55	LT	27	16.4 (2)		
		LR	20 25 03	LZ	27	82.6 (2)		
16	SJ	SKKS	20 07 31	LR	21	20.8 (2)	100.0	
		PS	20 09 40	LR	24	22.4 (2)		
		LR	20 29 02	LR	31	87.5 (2)		
16	NG	PS	20 11 00	LR	25	75.5 (1)	109.0	
		PKKP	20 12 39	Z	1.0	42.0 (0)		
		LR	20 32 18	LZ	23	98.5 (2)		
							AVG.	5.75
16	MN	eP	20 20 30.7	Z	0.3	7.0 (0)	1.1	
		S	20 20 45	T	0.4	39.0 (0)		
16	LC	eP	20 45 11.7	Z	0.3	17.0 (0)	1.5	
		S	20 45 31	R	0.4	14.0 (0)		
16	DH	eP	20 53 54.9	Z	0.4	11.0 (0)	3.5	
		e	20 54 15	Z	0.4	28.0 (0)		
		S	20 54 38	R	0.5	73.0 (0)		
16	CP	eP	21 22 40.5	Z	0.4	9.0 (0)	3.1	
16	MV	eP	21 22 59.7	Z	0.5	6.0 (0)		
16	CP	S	21 23 19	T	0.7	34.0 (0)	3.1	
16	MV	L	21 24 05	Z	0.7	26.0 (0)		
16	WI	L	21 54 10	LZ	20	60.6 (1)		
16	FM	eP	23 26 58.3	Z	0.3	2.0 (0)	2.6	
		e	23 27 05	Z	0.5	9.0 (0)		
		S	23 27 31	T	0.6	11.0 (0)		
16	MV	eP	23 29 19.7	Z	0.3	15.0 (0)	1.0	
		S	23 29 33	R	0.5	37.0 (0)		
16	CP	iP	23 30 19.8D	Z	0.2	8.0 (0)	0.1	
		S	23 30 24	T	0.3	15.0 (0)		
16	CP	iP	23 50 36.8C	Z	0.2	4.0 (0)	0.3	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		S	23 50 42	T	0.4	13.0 (0)		
17	CP	eP	00 05 25.0	Z	0.4	4.0 (0)	2.3	
		S	00 05 55	R	0.8	14.0 (0)		
17	MN	eP	03 58 35.0	Z	1.0	11.0 (0)		
17	WI	eP	03 58 44.5	Z	1.0	22.0 (0)		
17	FM	eP	03 58 56.7	Z	0.8	10.0 (0)		
17	LC	eP	03 59 01.2	Z	1.0	10.0 (0)		
17	MN	eP	07 48 02.2	Z	0.3	2.0 (0)	2.7	
		S	07 48 37	T	0.4	8.0 (0)		
17	WI	eP	07 48 41.5	Z	0.5	2.0 (0)	3.8	
		S	07 49 28	R	0.6	8.0 (0)		
17	FM	eP	09 14 56.9	Z	0.3	2.0 (0)	4.4	
		e	09 15 06	Z	0.3	17.0 (0)		
		S	09 15 50	R	0.5	43.0 (0)		
17	LC	iP	09 33 38.6C	Z	0.3	8.0 (0)	0.8	
		S	09 33 50	R	0.4	17.0 (0)		
17	17 57	04.5	17.7 S 177.4 W	TONGA ISLANDS				
			H =673 KM					
17	17 58	38.6	51.4 N 159.2 E	KURILE ISLANDS				
			H =025 KM					
17	WI	eP	18 08 04.5	Z	1.0	7.0 (0)	54.0	4.34
17	FM	eP	18 08 44.1	Z	0.4	1.0 (0)	60.0	4.05
17	LC	eP	18 09 38.8	Z	0.7	1.0 (0)	68.0	3.75
		e	18 10 28	Z	1.3	15.0 (0)		
17	NG	eP	18 09 43.5	Z	0.7	14.0 (0)	69.0	4.90
17	DH	eP	18 10 23.0	Z	0.8	63.0 (0)	76.0	5.42
							AVG.	4.50
17	DH	eP	18 40 59.3	Z	0.3	33.0 (0)	1.8	
		S	18 41 23	Z	0.4	50.0 (0)		
17	18 56	39.3	09.8 N 122.5 E	NEGROS ISLANDS, P. I.				
			H =025 KM					
17	FM	eP	20 15 23.4	Z	0.3	10.0 (0)	2.1	
		S	20 15 51	R	0.5	31.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	20 47 31.7		10.6 N 043.7 W H = 025 KM				NORTH ATLANTIC OCEAN	
17	DH	eP	20 55 24.4	Z	0.7	18.4 (1)	42.0	5.62
		S	21 01 41	R	2.5	93.4 (1)		
17	NG	eP	20 56 40.2	Z	0.9	33.0 (0)	52.0	4.96
		eP	20 56 42	LZ	19	30.9 (3)		
		S	21 04 09	LR				
		LR	21 11 41	LZ	30	33.8 (3)		
17	SJ	eP	20 56 55.4	Z	0.8	71.0 (0)	54.0	5.45
		eP	20 57 02	LZ	10	12.4 (4)		
		e	20 57 05	Z	1.0	43.3 (1)		
		PCP	20 58 01	Z				
		e	20 59 53	T	2.0	18.9 (2)		
		S	21 04 30	LR	17	32.6 (3)		
		e	21 04 43	T	7.0			
		L	21 09 00	LZ	25	44.2 (3)		
17	LC	eP	20 57 47.0	Z	0.9	14.0 (0)	61.0	4.77
		e	20 57 52	Z	1.1	11.7 (1)		
		eP	20 57 52	LZ	15	28.0 (3)		
		PP	21 00 18	Z	2.5	76.7 (1)		
		PP	21 00 18	LZ	20	77.0 (2)		
		S	21 06 15	LT				
		S	21 06 19	T	4.3			
		e	21 06 37	R	4.0			
		SCS	21 07 48	R	3.2			
		PiP	21 27 11	Z	1.5	38.0 (0)		
17	FM	eP	20 58 21.5	Z	0.7	4.0 (0)	67.0	4.36
		e	20 58 27	Z	1.0	68.0 (0)		
		eP	20 58 30	LZ	15	18.6 (3)		
		e	20 59 17	Z	0.8	81.0 (0)		
		e	21 03 00	LZ	18	55.9 (2)		
		S	21 07 17	LR	17	33.1 (3)		
		S	21 07 26	R	4.5			
		SS	21 11 33	LR	18	34.0 (3)		
		e	21 15 00	LR	18	42.6 (3)		
		LR	21 18 05	LZ	28			
		PiP	21 26 57	Z	2.7	78.1 (1)		
17	CP	eP	20 58 45.0	Z	0.6	21.0 (0)	70.0	5.04
		eP	20 58 48	LZ	15	20.8 (3)		
		e	20 59 02	Z	1.0	12.1 (1)		
		e	20 59 59	Z	1.5	12.6 (1)		
		PP	21 01 10	Z	3.1	13.5 (2)		
		PP	21 01 22	LZ	19	40.0 (2)		
		S	21 08 02	R	3.5			
		S	21 08 10	LT	21	31.2 (3)		
		e	21 13 10	LZ	20	17.3 (2)		
		e	21 15 29	LT	27	22.2 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	21 20 42	LZ	43	17.1 (3)		
		L	21 24 50	LZ	26	17.4 (3)		
17	WI	eP	20 58 48.0	Z	0.7	5.0 (0)	71.0	4.38
		eP	20 58 52	LZ	12	35.7 (3)		
		e	20 58 53	Z				
		PP	21 01 30	LZ	15	14.7 (3)		
		PPP	21 03 25	LZ	22	79.9 (2)		
		S	21 08 10	LR	36	21.9 (3)		
17	MN	eP	20 58 54.2	Z	1.2	23.0 (0)	72.0	4.83
		eP	20 58 56	LZ	20			
		e	20 59 02	Z	1.4	35.4 (1)		
		e	20 59 28	Z	1.0	54.0 (0)		
		e	20 59 55	LZ	22	38.8 (2)		
		e	21 00 38	Z	1.2	88.0 (0)		
		PP	21 01 40	LZ	22			
		e	21 04 20	LZ	20	47.7 (2)		
							AVG.	4.93
17	CP	eP	21 27 52.7	Z	0.3	3.0 (0)	1.4	
		S	21 28 11	T	0.4	7.0 (0)		
17	21 29 14.2		22.3 S 169.7 E H = 100 KM				LOYALTY ISLANDS	
17	LC	eP	21 34 56.0	Z	1.0	5.0 (0)		
17	21 38 44.2		37.8 N 122.0 W H = 025 KM				CALIFORNIA	
17	MN	eP	21 39 31.5	Z	0.5	3.0 (0)	3.0	3.55
17	WI	eP	21 40 01.5	Z	0.5	4.0 (0)	5.0	4.30
		e	21 40 20	Z	0.5	15.0 (0)		
		S	21 40 56	T	0.6	79.0 (0)		
17	CP	eP	21 40 27.2	Z	0.4	3.0 (0)	7.0	4.42
17	FM	eP	21 40 45.6	Z	0.3	2.0 (0)	8.0	4.37
		e	21 42 46	T	0.7	5.0 (0)		
							AVG.	4.17
17	LC	eP	21 58 54.2	Z	0.3	12.0 (0)	1.4	
		S	21 59 12	T	0.5	33.0 (0)		
17	CP	eP	22 06 35.8	Z	0.3	3.0 (0)	1.5	
		S	22 06 55	T	0.5	5.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	CP	eP	23 34 56.6	Z	1.0	12.0 (0)		
18	WI	L	00 34 20	LZ	22	98.4 (1)		
18	00 40 09.8		36.0 S 176.9 W				NEAR NEW ZEALAND	
			H = 025 KM					
18	CP	eP	00 53 03.4	Z	1.0	34.0 (0)	89.0	4.43
		e	00 53 19	Z	0.8	8.0 (0)		
18	MN	eP	00 53 15.0	Z	1.0	16.0 (0)	92.0	5.00
18	WI	eP	00 53 26.1	Z	1.0	15.0 (0)	94.0	4.98
		e	00 53 42	Z	1.5	31.0 (0)		
18	LC	eP	00 53 33.6	Z	1.2	20.0 (0)	95.0	5.12
							AVG.	4.89
18	01 26 51.0		27.7 S 177.3 W				KERMADEC ISLANDS	
			H = 089 KM					
18	MN	eP	01 39 26.1	Z	1.0	14.0 (0)	87.0	4.68
18	WI	eP	01 39 36.4	Z	1.0	7.0 (0)	89.0	4.45
18	LC	eP	01 39 42.6	Z	1.0	10.0 (0)	90.0	4.60
18	FM	eP	01 39 43.6	Z	0.9	9.0 (0)	90.0	4.79
							AVG.	4.63
18	NG	eP	02 34 09.0	Z	1.0	42.0 (0)		
18	MN	eP	02 36 01.2	Z	1.1	9.0 (0)		
18	WI	eP	02 36 11.0	Z	1.0	5.0 (0)		
18	MN	eP	02 58 03.2	Z	1.0	7.0 (0)		
18	WI	eP	02 58 14.4	Z	0.7	4.0 (0)		
18	03 06 18.8		16.5 S 168.2 E				NEW HEBRIDES ISLANDS	
			H = 014 KM					
18	CP	eP	03 19 06.1	Z	1.0	12.0 (0)	87.0	3.58
18	MN	eP	03 19 10.0	Z	1.0	27.0 (0)	88.0	5.23
		e	03 19 20	Z	1.2	10.9 (1)		
		e	03 20 29	Z	2.2	13.6 (1)		
		e	03 27 50	LZ	20	30.7 (1)		
	SKS		03 29 43	LR	17	15.1 (2)		
	PS		03 31 05	LT	20	14.6 (2)		
	e		03 42 35	LR	30	30.1 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	LR	03 46 07	LZ			88.0	
18	WI	eP	03 19 18.1	Z	1.5	70.0 (0)	90.0	5.37
		S	03 30 00	LT	15	96.3 (1)		
		PS	03 31 27	LT	22	19.2 (2)		
		SS	03 35 55	LT	30	90.0 (1)		
		LR	03 47 10	LZ	35	10.8 (3)		
18	FM	eP	03 19 31.6	Z	1.6	57.0 (0)	93.0	5.44
18	LC	eP	03 19 45.3	Z	1.0	10.0 (0)	96.0	5.00
		S	03 31 05	LR	18	11.0 (2)		
		PS	03 32 20	LR	25	12.3 (2)		
		SS	03 37 31	LR	26	22.3 (2)		
		LQ	03 45 38	LR	32	24.1 (2)		
		LR	03 49 25	LZ	23	47.4 (2)		
18	NG	e	03 41 17	LR	24	22.6 (2)	111.0	
		L	03 58 30	LZ	25	10.4 (3)		
18	SJ	L	03 48 50	LR	32	46.5 (2)	101.0	
		L	03 53 12	LZ	25	46.1 (2)		
							AVG.	4.93
18	05 28 21.3		40.6 N 142.4 E				NEAR HONSHU, JAPAN	
			H = 033 KM					
18	WI	eP	05 39 39.3	Z	1.0	10.0 (0)	71.0	4.50
		e	05 39 56	Z	1.2	24.0 (0)		
18	MN	eP	05 39 48.0	Z	0.4	3.0 (0)	73.0	4.37
18	FM	eP	05 40 06.1	Z	0.7	7.0 (0)	76.0	4.50
18	CP	eP	05 40 14.6	Z	1.0	9.0 (0)	77.0	4.25
18	NG	eP	05 40 46.1	Z	1.0	28.0 (0)	83.0	5.05
18	LC	eP	05 40 48.9	Z	1.0	17.0 (0)	84.0	4.83
18	DH	eP	05 41 25.4	Z	1.0	11.6 (1)	91.0	5.83
							AVG.	4.76
18	CP	eP	08 30 11.0	Z	0.2	2.0 (0)	0.6	
		S	08 30 19	R	0.3	6.0 (0)		
18	MN	eP	12 32 42.5	Z	0.4	4.0 (0)	3.2	
		S	12 33 23	T	0.5	16.0 (0)		
18	WI	eP	12 34 58.2	Z	0.5	5.0 (0)		
18	FM	eP	13 25 23.9	Z	0.3	5.0 (0)	3.4	
		e	13 25 43	Z	0.4	6.0 (0)		
		S	13 26 06	R	0.4	9.0 (0)		
18	13 38 40.8		22.3 S 173.7 E				NEW HEBRIDES ISLANDS	
			H = 100 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	CP	eP	13 51 13.4	Z	0.6	3.0 (0)	87.0	4.80
18	MN	eP	13 51 20.2	Z	1.0	5.0 (0)	88.0	4.20
		LR	14 19 10	LZ	25	51.8 (1)		
18	WI	eP	13 51 29.8	Z	1.0	12.0 (0)	90.0	4.68
		e	13 51 38	Z	1.0	17.0 (0)		
18	FM	eP	13 51 40.9	Z	0.8	7.0 (0)	92.0	4.74
18	LC	eP	13 51 47.4	Z	0.8	3.0 (0)	94.0	4.47
		e	13 51 55	Z	1.3	20.0 (0)		
		L	14 21 50	LZ	22	32.1 (1)		
						AVG.		4.58
18	14 54 59.3		09.1 N 126.4 E			MINDANAO, PHILIPPINE IS.		
			H =044 KM					
18	15 30 31.6		40.6 N 019.6 E			SOUTHERN ALBANIA		
			H =025 KM					
18	DH	eP	15 41 26.0	Z	0.7	34.0 (0)	67.0	5.36
		S	15 50 20	LR	20	27.6 (2)		
		SS	15 54 45	LR	22	22.6 (2)		
		e	16 01 10	LT	27	23.2 (3)		
		L	16 03 22	LT	30	51.7 (2)		
18	NG	eP	15 41 59.2	Z	1.0	42.0 (0)	73.0	5.12
		S	15 51 28	LT	18	55.3 (2)		
		SS	15 56 15	LR	22	17.7 (2)		
		e	15 59 42	LR	23	27.6 (2)		
		L	16 03 05	LT	30	12.9 (3)		
		L	16 09 07	LZ	23	13.4 (3)		
18	FM	eP	15 43 28.1	Z	0.8	9.0 (0)	90.0	4.75
		S	15 54 23	LT	23	24.0 (2)		
		SS	16 00 17	LT	23	24.0 (2)		
		LR	16 12 42	LZ	24	10.9 (3)		
18	WI	eP	15 43 30.2	Z	1.0	12.0 (0)	90.0	4.78
		eP	15 43 37	LZ	15	40.9 (1)		
		e	15 45 22	T	1.2	28.0 (0)		
		S	15 54 25	LT	17	24.7 (2)		
		SS	16 00 25	LT	22	15.4 (2)		
		L	16 12 22	LT	30	30.6 (2)		
18	LC	eP	15 43 41.4	Z	1.1	25.0 (0)	92.0	5.16
		e	15 43 53	Z	1.2	44.0 (0)		
		PP	15 47 19	Z	1.2	16.0 (0)		
		SKS	15 54 17	LT	18	12.0 (2)		
		S	15 54 47	LR	20	23.2 (2)		
		PS	15 55 47	LT	20	14.0 (2)		
		SS	16 00 50	LR	23	21.2 (2)		
		SKKS	16 07 44	LR	27	22.3 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		L	16 10 14	LR	37	11.3 (3)		
		LR	16 12 27	LZ	24	89.7 (2)		
18	MN	eP	15 43 42.7	Z	0.8	3.0 (0)	93.0	4.48
		e	15 45 07	Z	1.8	58.0 (0)		
		PP	15 47 26	Z	2.0	76.0 (0)		
		S	15 54 52	LR	20	18.3 (2)		
		SP	15 56 12	LZ	22	61.5 (1)		
		SS	16 00 52	LR	40	31.9 (2)		
		SKKS	16 07 57	LR	22	24.3 (2)		
		e	16 10 42	LR	35	53.2 (2)		
		LQ	16 12 57	LR	37	78.9 (2)		
		LR	16 18 10	LZ	30	46.8 (2)		
18	CP	eP	15 44 02.4	Z	0.8	6.0 (0)	97.0	3.77
		e	15 44 17	Z	1.0	25.0 (0)		
		e	15 45 07	Z	1.0	12.0 (0)		
		PP	15 48 01	Z	1.3	32.0 (0)		
		e	15 48 15	Z	1.5	39.0 (0)		
18	SJ	S	15 54 39	LR	21	40.3 (2)	91.0	
		PS	15 55 46	LT	19	39.4 (2)		
		SS	16 00 38	LR	23	32.6 (2)		
		L	16 07 13	LR	43	12.2 (3)		
						AVG.		4.71
18	CP	eP	15 58 04.1	Z	0.3	3.0 (0)	1.1	
		S	15 58 18	T	0.5	4.0 (0)		
18	CP	eP	16 06 46.8C	Z	0.3	8.0 (0)	1.3	
		S	16 07 03	T	0.5	16.0 (0)		
18	20 18 54.3		23.7 N 114.5 E			CHINA		
			H =043 KM					
18	LC	PS	20 47 48	LR	25	61.9 (1)	112.0	
		SSS	20 55 00	LR	30	73.2 (1)		
		L	21 08 00	LT	40	29.4 (2)		
18	MN	LQ	21 02 35	LT	35	15.0 (2)	101.0	
18	WI	LR	21 07 50	LZ	20	59.0 (1)	99.0	
18	NG	L	21 11 00	LZ	22	28.3 (2)	108.0	
18	SJ	L	21 19 05	LT	26	14.6 (2)	118.0	
18	LC	eP	20 25 04.4	Z	0.3	55.0 (0)	1.5	
		S	20 25 24	R	0.5	38.0 (0)		
19	LC	eP	02 45 37.4	Z	0.7	2.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	MN	L	03 07 30	LZ	27	38.4 (1)		
19	WI	eP	04 30 43.8	Z	0.7	3.0 (0)		
19	04 49 31.7		57.3 S 147.2 E H =025 KM				SOUTH OF TASMANIA	
19	WI	eP [†]	05 08 35.3	Z	0.6	2.0 (0)	126.0	
		LR	05 49 00	LZ	35	83.0 (0)		
19	NG	eP [†]	05 09 04.1	Z	0.8	9.0 (0)	145.0	
		LR	05 58 20	LZ	25	10.1 (2)		
19	LC	SS	05 27 35	LR	25	34.2 (1)	126.0	
		G	05 41 35	LR	40	16.3 (2)		
		LR	05 47 02	LZ	30	74.9 (1)		
19	MN	LR	05 45 00	LZ	25	15.2 (1)	125.0	
19	FM	LR	05 48 10	LZ	30	76.8 (1)	128.0	
19	MV	LR	05 50 10	LZ	22	72.8 (1)	125.0	
19	05 54 24.4		00.3 N 123.5 E H =053 KM				CELEBES ISLANDS	
19	MV	ePD	06 08 53.2	Z	0.7	5.0 (0)	110.0	5.60
		eP [†]	06 12 52.0	Z	0.9	43.0 (0)		
		LR	06 45 35	LZ	35	35.2 (2)		
19	WI	ePD	06 08 58.0	Z	0.9	6.0 (0)	112.0	
		eP [†]	06 12 56.0	Z	1.0	68.0 (0)		
		PP	06 13 37	Z	1.2	62.0 (0)		
		e	06 15 36	Z	1.2	33.0 (0)		
		SP	06 23 12	LZ	32	80.8 (1)		
		PKKP	06 23 52	Z	1.1	23.0 (0)		
		e	06 24 02	Z	1.0	50.0 (0)		
		e	06 24 36	Z	1.2	29.0 (0)		
		L	06 46 32	LZ	30	14.1 (2)		
19	MN	ePD	06 09 01.5	Z	0.5	3.0 (0)	112.0	
		eP [†]	06 12 57	Z	1.0	39.0 (0)		
		PP	06 13 39	Z	1.5	17.3 (1)		
		PP	06 13 50	LZ	22	49.3 (1)		
		PS	06 23 20	LR	32	10.4 (2)		
		PKKP	06 23 51	Z	1.2	18.0 (0)		
		e	06 36 35	LZ	20	49.3 (1)		
		e	06 40 25	LZ	28	67.1 (1)		
		LR	06 46 48	LZ	32	26.1 (2)		
19	FM	ePD	06 09 15.0	Z	1.0	3.7 (0)	116.0	
		eP [†]	06 13 05.5	Z	0.9	82.0 (0)		
		PP	06 14 06	Z	1.2	61.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	06 14 54	Z	1.7	15.9 (1)		
		PKKP	06 23 36	Z	1.0	13.0 (0)		
		SPP	06 25 05	LZ	19	58.1 (1)		
		L	06 49 22	LZ	30	23.9 (2)		
19	CP	ePD	06 09 24.2	Z	0.9	13.0 (0)	116.0	
		Pi	06 13 04.0	Z	0.9	96.0 (0)		
		e	06 13 40	Z	1.0	37.0 (0)		
19	LC	ePD	06 09 56.4	Z	0.8	2.0 (0)	122.0	
		Pi	06 13 18.7	Z	0.8	19.2 (1)		
		e	06 13 56	Z	1.0	21.0 (0)		
		PP	06 14 54	Z	1.2	48.0 (0)		
		PKKP	06 23 12	Z	1.0	32.0 (0)		
		PS	06 24 50	LR	28	14.1 (2)		
		e	06 26 30	Z	1.2	16.0 (0)		
19	NG	eP [†]	06 13 23.9	Z	0.8	32.4 (1)	126.0	
		PP	06 15 17	Z	1.1	72.0 (0)		
		PSPS	06 33 09	LT	22	17.4 (2)		
		L	06 54 30	LZ	35	27.6 (2)		
19	SJ	eP [†]	06 13 22.2	Z	0.7	10.1 (0)	132.0	
		e	06 13 36.1	Z	1.4	57.8 (1)		
19	SJ	SKP	06 16 49	Z	1.3	10.9 (2)	131.0	
		e	06 17 00	R	1.9	15.4 (2)		
19	DH	eP [†]	06 13 24.7	Z	0.7	24.0 (0)	134.0	
		e	06 13 41	Z	1.1	50.8 (1)		
		PP	06 16 11	Z	1.0	17.2 (1)		
		SKP	06 16 57	Z	0.7	20.6 (1)		
		e	06 17 59	Z	0.8	69.0 (0)		
							AVG.	5.60
19	CP	iP	08 06 05.7D	Z	0.3	5.0 (0)	1.1	
		S	08 06 20	T	0.4	9.0 (0)		
19	MV	eP	08 14 40.5	Z	0.3	32.0 (0)	1.4	
		S	08 14 58	R	0.4	21.0 (0)		
19	MN	eP	08 53 59.0	Z	1.2	15.0 (0)		
19	WI	eP	08 54 09.2	Z	1.2	20.0 (0)		
19	LC	eP	08 54 22.4	Z	1.0	12.0 (0)		
19	MV	eP	08 54 41.6	Z	0.6	8.0 (0)		
19	CP	eP	09 18 34.5	Z	0.4	5.0 (0)	1.1	
		S	09 18 49	R	0.6	9.0 (0)		
		eP	09 41 16.0	Z	0.3	3.0 (0)		
		S	09 41 30	T	0.5	6.0 (0)		
19	14 00 08.9		02.3 S 077.1 W H =119 KM				EASTERN ECUADOR	
19	SJ	eP	14 07 03.5	Z	0.6	15.8 (0)	36.0	4.82

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	LC	eP	14 08 10.9	Z	1.0	7.0 (0)	45.0	4.04
		e	14 08 17	Z	1.0	27.0 (0)		
19	NG	eP	14 08 44.4	Z	0.7	28.0 (0)	49.0	4.90
19	FM	eP	14 09 20.6	Z	1.0	22.0 (0)	54.0	4.74
19	MN	eP	14 09 34.5	Z	1.0	7.0 (0)	56.0	4.29
		e	14 09 43	Z	1.0	14.0 (0)		
		e	14 10 13	Z	1.0	13.0 (0)		
		L	14 29 40	LZ	15	57.7 (1)		
19	WI	eP	14 09 51.1	Z	0.6	6.0 (0)	58.0	4.45
		L	14 32 32	LZ	20	33.6 (1)		
						AVG.		4.55
19	15 34 44.5		31.8 S 179.9 E			KERMADEC ISLANDS		
			H =469 KM					
19	MV	eP	15 46 55.6	Z	0.7	7.0 (0)	90.0	4.35
19	MN	eP	15 47 01.5	Z	0.7	5.0 (0)	92.0	4.25
19	WI	eP	15 47 13.0	Z	1.2	20.0 (0)	94.0	4.77
						AVG.		4.45
19	WI	eP	19 08 04.5	Z	0.5	3.0 (0)		
19	CP	eP	19 28 56.7	Z	0.3	3.0 (0)	2.6	
		S	19 29 30	R	0.4	5.0 (0)		
19	MN	eP	20 30 40.5	Z	0.4	1.0 (0)	2.8	
19	WI	eP	20 30 45.4	Z	0.5	2.0 (0)	3.3	
19	MN	S	20 31 16	R	0.5	7.0 (0)		
19	WI	S	20 31 26	T	0.6	10.0 (0)		
19	20 57 24.2		04.3 S 103.1 E			NEAR SUMATRA		
			H =100 KM					
19	WI	eP†	21 16 23.0	Z	0.6	11.0 (0)	129.0	
19	FM	eP†	21 16 30.8	Z	0.7	13.0 (0)	132.0	
19	LC	eP†	21 16 40.4	Z	0.8	2.0 (0)	141.0	
		SKP	21 20 17	Z	1.2	8.0 (0)		
19	SJ	eP†	21 17 04.5	Z	0.8	82.7 (0)	149.0	
19	LC	eP	20 59 50.6	Z	0.3	4.0 (0)	3.1	
19	LC	S	21 00 29	R	0.5	10.0 (0)	3.1	
19	LC	eP	21 14 10.4	Z	1.0	10.0 (0)		
19	FM	eP	21 15 06.3	Z	0.9	21.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	WI	iP	21 15 32.2C	Z	0.7	16.0 (0)		
19	NG	eP	21 41 51.1	Z	0.5	10.0 (0)	0.1	
		S	21 41 54	Z	1.0	70.0 (0)		
19	CP	iP	22 32 41.0D	Z	0.3	6.0 (0)	4.5	
		S	22 33 35	T	0.5	9.0 (0)		
19	FM	eP	22 33 57.1	Z	0.3	9.0 (0)	1.6	
		S	22 34 19	R	0.4	11.0 (0)		
19	FM	eP	23 45 08.7	Z	0.5	70.0 (0)	1.5	
		S	23 45 28	R	0.6	28.0 (0)		
20	LC	eP	01 03 21.8	Z	0.6	8.0 (0)		
20	FM	eP	01 04 03.0	Z	0.7	4.0 (0)		
20	MN	eP	01 04 07.5	Z	0.5	1.0 (0)		
20	FM	e	01 04 25	Z	0.8	7.0 (0)		
20	LC	L	01 05 15	R	0.7	15.0 (0)		
20	LC	L	01 05 27	LR	20	98.6 (1)		
20	MN	L	01 06 02	LZ	20	30.7 (1)		
20	FM	L	01 06 30	R	1.1	17.0 (0)		
20	WI	L	01 09 07	LZ	12	21.7 (2)		
20	01 36 30.3		15.8 N 094.5 W			GULF OF TEHAUNTEPEC		
			H =025 KM					
20	SJ	eP	01 39 29.6	Z	0.6	46.0 (0)	12.0	5.43
		L	01 41 41	T	0.8	67.2 (0)		
20	LC	eP	01 41 01.0	Z	0.6	14.0 (0)	20.0	4.09
		PP	01 41 24	Z	0.9	32.0 (0)		
		L	01 46 25	LT	30	18.6 (2)		
20	CP	eP	01 42 02.3	Z	0.8	8.0 (0)	26.0	4.10
		PP	01 42 41	Z	1.0	13.0 (0)		
20	FM	eP	01 42 22.0	Z	0.9	9.0 (0)	28.0	4.25
		L	01 51 40	LZ	25	65.5 (1)		
20	MN	eP	01 42 45.4	Z	1.1	29.0 (0)	31.0	4.82
		L	01 51 52	LZ	40	64.9 (1)		
20	WI	eP	01 42 59.1	Z	0.7	15.0 (0)	32.0	4.70
		L	01 55 05	LZ	25	64.9 (1)		
						AVG.		4.55
20	WI	eP	02 51 24.0	Z	1.0	50.0 (0)		
20	WI	eP	07 46 45.5	Z	0.5	6.0 (0)	3.3	
		S	07 47 27	T	0.6	3.0 (0)		
20	LC	eP	07 56 20.6	Z	0.8	6.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	10 03	58.3	27.9 N 111.2 W H = 025 KM	GULF OF CALIFORNIA				
20	LC	eP	10 05 29.8	Z	0.4	5.0 (0)	6.0	4.20
		e	10 06 01	Z	0.6	53.0 (0)		
		S	10 06 35	R	0.7	36.0 (0)		
		S	10 06 46	LR	15	22.9 (3)		
		L	10 07 14	R	0.8	98.0 (0)		
20	CP	eP	10 05 33.6	Z	0.5	6.0 (0)	7.0	4.63
		S	10 07 03	T	1.0	33.0 (0)		
20	FM	eP	10 06 48.5	Z	1.0	7.0 (0)	12.0	4.47
		L	10 10 04	Z	2.0	31.7 (1)		
		L	10 10 08	LZ	23	54.0 (2)		
20	MN	eP	10 06 52.7	Z	1.2	3.0 (0)	12.0	3.99
		e	10 07 15	Z	1.0	23.0 (0)		
		L	10 09 35	LZ	30	10.7 (2)		
		e	10 10 41	Z	2.0	17.9 (1)		
20	WI	eP	10 07 24.2	Z	0.9	6.0 (0)	15.0	3.52
		PP	10 07 42	Z	1.4	38.0 (0)		
		L	10 10 16	LT	35	93.5 (1)		
20	MV	eP	10 07 27.7	Z	0.5	3.0 (0)	15.0	3.48
		LR	10 11 30	LZ	24	32.6 (2)		
20	SJ	L	10 10 00	LR	21	86.5 (2)	11.0	
		L	10 10 18	R	3.3			
20	NG	L	10 16 11	LT	17	10.1 (2)	25.0	
		L	10 19 24	LZ	16	44.3 (2)		
							AVG.	4.05
20	LC	eP	11 11 30.4	Z	1.5	46.0 (0)		
20	LC	e	11 11 37	Z	1.5	70.0 (0)		
20	FM	eP	11 12 11.1	Z	1.1	14.0 (0)		
20	MN	eP	11 12 15.9	Z	1.2	12.0 (0)		
20	NG	eP	11 12 21.4	Z	1.3	87.0 (0)		
20	MV	eP	11 12 23.5	Z	1.3	29.0 (0)		
20	NG	e	11 12 27	Z	1.2	91.0 (0)		
20	WI	eP	11 12 29.2	Z	1.0	8.0 (0)		
20	MN	eP	11 24 23.9	Z	0.4	2.0 (0)	4.1	
		e	11 24 33	Z				
20	FM	eP	11 24 36.0	Z	0.3	2.0 (0)	5.4	
		e	11 24 52	Z	0.3	6.0 (0)		
20	MN	S	11 25 14	R			4.1	
20	FM	S	11 25 40	R	0.5	27.0 (0)	5.4	
20	LC	L	11 37 55	LR	20	98.6 (1)		
20	MV	LR	11 38 00	LZ	21	83.5 (1)		
20	MN	L	11 42 17	LZ	22	61.4 (1)		
20	WI	L	11 44 55	LZ	20	75.9 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	CP	eP	13 54 57.2	Z	0.3	4.0 (0)	2.7	
		S	13 55 31	T	0.5	7.0 (0)		
20	CP	iP	14 27 35.1C	Z	0.2	5.0 (0)	0.6	
		S	14 27 44	T	0.4	10.0 (0)		
20	FM	eP	14 51 37.2	Z	0.3	15.0 (0)	1.5	
		S	14 51 56	R	0.5	19.0 (0)		
20	16 31	48.3	50.8 N 129.7 W H = 025 KM	QUEEN CHARLOTTE SOUND				
20	WI	eP	16 34 51.1	Z	1.2	37.0 (0)	13.0	5.02
		eP	16 34 52	LZ	12	77.9 (1)		
		S	16 37 27	LT	22	10.6 (2)		
		L	16 37 50	LR	28	23.2 (2)		
20	MN	eP	16 35 18.0	Z	2.2	18.8 (1)	15.0	4.63
		e	16 36 16	Z	2.0	23.0 (1)		
		S	16 38 10	LT	17	17.6 (3)		
		LQ	16 39 00	LT	32	40.3 (3)		
		LR	16 40 40	LZ	12	68.5 (3)		
20	FM	eP	16 35 47.8	Z	1.0	33.0 (0)	17.0	4.12
		eP	16 35 53	LZ	13	30.2 (1)		
		e	16 39 12	LZ	21	14.9 (2)		
		LR	16 40 35	LZ	30	20.3 (2)		
20	CP	eP	16 36 36.4	Z	1.0	51.0 (0)	22.0	4.61
		e	16 37 31	Z	1.5	50.0 (0)		
20	LC	eP	16 37 12.6	Z	1.0	47.0 (0)	25.0	4.80
		S	16 41 50	LR	20	71.6 (1)		
		L	16 44 05	LR	32	16.7 (2)		
20	NG	eP	16 37 39.0	Z	1.2	68.0 (0)	28.0	5.05
		L	16 46 16	LT	19	44.1 (2)		
		L	16 48 54	LZ	18	70.0 (2)		
20	SJ	L	16 49 12	LT	21	57.9 (2)	33.0	
							AVG.	4.72
20	LC	eP	18 25 15.0	Z	0.5	5.0 (0)		
20	WI	L	18 29 25	LZ	25	10.3 (2)		
20	LC	e	18 29 46	R	0.6	8.0 (0)		
20	18 52	55.8	22.8 N 143.2 E H = 098 KM	MARIANA ISLANDS				
20	MN	eP	19 05 01.9	Z	1.0	70.0 (0)	81.0	5.14
		L	19 31 10	LZ	30	43.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	WI	eP	19 05 08.6	Z	1.0	50.0 (0)	82.0	5.00
20	CP	eP	19 05 31.0	Z	0.7	16.0 (0)	87.0	5.06
20	FM	eP	19 05 31.9	Z	0.8	33.0 (0)	87.0	5.12
20	LC	eP	19 06 05.7	Z	0.8	31.0 (0)	94.0	5.49
						AVG.		5.16
20	CP	eP	19 05 07.2	Z	0.3	5.0 (0)	1.4	
		S	19 05 25	R	0.5	8.0 (0)		
20	DH	eP	19 29 41.3	Z	0.3	5.0 (0)	2.8	
		S	19 30 16	T	0.5	25.0 (0)		
20	WI	L	20 42 50	LZ	45	46.7 (2)		
20	LC	eP	21 07 53.8	Z	1.0	22.0 (0)		
20	LC	e	21 08 23	Z	0.9	12.0 (0)		
20	FM	eP	21 08 40.5	Z	0.8	14.0 (0)		
20	FM	e	21 09 10	Z	0.6	5.0 (0)		
20	DH	eP	21 33 23.9	Z	0.3	10.0 (0)	1.6	
		S	21 33 46	R	0.5	32.0 (0)		
20	DH	eP	21 43 35.1	Z	0.3	10.0 (0)	4.7	
		S	21 44 32	T	0.5	51.0 (0)		
20	MN	eP	22 24 17.8	Z	0.5	9.0 (0)	2.4	
		S	22 24 49	R	0.7	4.0 (0)		
20	23 10 38.1		32.0 N 094.6 E				TIBET	
			H =025 KM					
21	01 53 13.3		62.1 N 152.7 W				SOUTHERN ALASKA	
			H =122 KM					
21	WI	eP	01 59 09.4	Z	0.7	6.0 (0)	30.0	4.13
		epP	01 59 36	Z	1.0	13.0 (0)		
		esP	01 59 54	Z	1.0	13.0 (0)		
		PCP	02 02 10	Z	1.0	5.0 (0)		
		SCP	02 05 40	Z	0.7	4.0 (0)		
21	MV	eP	01 59 10.0	Z	0.5	6.0 (0)	30.0	4.28
		epP	01 59 40	Z	0.8	14.0 (0)		
21	MN	eP	01 59 28.3	Z	0.5	5.0 (0)	32.0	4.17
		epP	01 59 56	Z	0.7	12.0 (0)		
		PCP	02 02 17	Z	0.8	7.0 (0)		
		SCP	02 05 48	Z	0.8	5.0 (0)		
21	FM	eP	01 59 44.1	Z	0.7	8.0 (0)	34.0	4.31
		epP	02 00 12	Z	0.8	7.0 (0)		
		PCP	02 02 22	Z	0.7	8.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	CP	eP	02 00 17.8	Z	0.3	3.0 (0)	38.0	4.30
21	NG	eP	02 00 34.1	Z	1.0	27.0 (0)	40.0	4.73
		epP	02 01 02	Z	1.1	36.0 (0)		
21	LC	eP	02 00 53.5	Z	1.2	8.0 (0)	42.0	4.07
		epP	02 01 22	Z	1.2	8.0 (0)		
		PCP	02 02 47	Z	1.0	5.0 (0)		
		SCP	02 06 25	Z	1.0	7.0 (0)		
						AVG.		4.28
21	02 30 18.5		22.2 S 170.4 E				LOYALTY ISLANDS	
			H =025 KM					
21	MN	eP	02 43 19.8	Z	0.7	3.0 (0)	91.0	4.43
		L	03 12 15	LZ	30	11.9 (2)		
21	WI	eP	02 43 31.1	Z	0.5	2.0 (0)	93.0	4.50
		L	03 13 30	LZ	35	10.6 (2)		
21	LC	PS	02 56 44	LR	20	46.3 (1)	97.0	
		LR	03 15 14	LZ	20	13.2 (2)		
21	MV	L	03 11 12	LZ	27	25.3 (1)	89.0	
21	FM	LR	03 14 16	LZ	28	62.0 (1)	95.0	
21	NG	L	03 30 50	LZ	17	13.5 (1)	113.0	
						AVG.		4.46
21	03 18 29.1		06.6 S 150.1 E				NEW BRITAIN	
			H =025 KM					
21	CP	iP	04 47 48.8C	Z	0.3	18.0 (0)	0.6	
		S	04 47 57	T	0.5	31.0 (0)		
21	LC	eP	06 00 59.8	Z	1.5	16.0 (0)		
21	WI	eP	06 02 40.6	Z	0.5	2.0 (0)		
21	SJ	eP	06 04 20	LR	15	13.6 (2)		
21	SJ	e	06 05 30	LR	19	17.4 (2)		
21	LC	e	06 05 34	LR	20	46.4 (1)		
21	LC	L	06 06 54	LR	23	17.4 (2)		
21	MN	L	06 10 30	LT	35	11.9 (2)		
21	06 11 26.2		04.4 S 080.7 W				NEAR NORTHERN PERU	
			H =078 KM					
21	LC	eP	06 19 29.0	Z	1.2	32.0 (0)	44.0	4.63
21	FM	eP	06 20 32.5	Z	0.7	17.0 (0)	52.0	5.14

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eP	06 21 02.5	Z	0.8	39.0 (0)	56.0 AVG.	5.19 4.98
21	LC	eP	08 22 09.4	Z	0.8	3.0 (0)		
21	LC	eP	10 00 48.9	Z	0.8	5.0 (0)		
21	LC	e	10 01 01	Z	0.8	6.0 (0)		
21	WI	eP	10 01 47.0	Z	0.7	3.0 (0)		
21	CP	eP	11 52 07.9	Z	0.4	2.0 (0)	1.6	
		S	11 52 30	T	0.5	4.0 (0)		
21	CP	iP	12 27 01.6D	Z	0.3	43.0 (0)	1.2	
		S	12 27 17	T	0.5	72.0 (0)		
21	CP	iP	15 44 33.4C	Z	0.3	10.0 (0)	0.9	
		S	15 44 45	T	0.5	17.0 (0)		
21	DH	eP	16 13 17.5	Z	0.3	10.0 (0)	1.5	
		S	16 13 38	R	0.5	13.0 (0)		
21	DH	eP	17 05 16.2	Z	0.3	10.0 (0)	1.6	
		S	17 05 38	T	0.5	13.0 (0)		
21	DH	eP	17 24 36.1	Z	0.3	72.0 (0)	1.8	
		S	17 25 00	R	0.4	10.2 (1)		
21	21 04 15.6		48.6 N 153.4 E H = 025 KM				KURILE ISLANDS	
21	WI	eP	21 14 22.6	Z	0.7	5.0 (0)	60.0	4.35
21	MN	eP	21 14 32.0	Z	0.7	5.0 (0)	61.0 AVG.	4.43 4.39
21	DH	eP	21 42 55.0	Z	0.3	46.0 (0)	1.7	
		S	21 43 18	R	0.4	12.4 (1)		
21	FM	eP	22 37 51.1	Z	0.3	4.0 (0)	2.0	
		S	22 38 17	R	0.7	7.0 (0)		
21	CP	iP	22 41 27.0C	Z	0.3	12.0 (0)	0.9	
		S	22 41 39	T	0.5	18.0 (0)		
21	22 57 51.2		05.9 S 112.9 E H = 631 KM				JAVA SEA	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	23 15 39.5	Z	0.5	74.0 (0)	121.0	
		PP	23 17 23	Z	1.0	9.0 (0)		
		epP	23 18 19	Z	0.8	10.0 (0)		
		e	23 22 43	R	2.0	91.0 (0)		
		eP	23 28 08	Z	0.8	24.0 (0)		
21	WI	eP	23 15 43.7	Z	1.2	22.9 (1)	124.0	
		PP	23 17 31	Z	1.4	77.0 (0)		
		epP	23 18 24	Z	1.5	10.9 (1)		
		PKKP	23 25 38	Z	1.2	20.0 (0)		
		eP	23 28 13.0	Z	1.2	24.0 (0)		
21	MN	eP	23 15 45.0	Z	0.8	74.0 (0)	124.0	
		e	23 16 22	Z	1.0	23.0 (0)		
		PP	23 17 31	Z	1.5	14.7 (1)		
		PP	23 17 35	LZ	25	55.3 (1)		
		epP	23 18 25	Z	1.5	13.5 (1)		
		PPP	23 20 30	LZ	22	55.3 (1)		
		eP	23 28 13.0	Z	1.0	16.0 (0)		
		SPP	23 29 10	LZ	25	82.9 (1)		
		e	23 31 25	LZ	25	46.0 (1)		
		e	23 48 15	LZ	32	89.8 (1)		
21	LC	eP	23 15 52.4	Z	0.8	8.0 (0)	134.0	
		e	23 16 06	Z	1.3	88.0 (0)		
		epP	23 18 27	Z	1.4	51.0 (0)		
		SKP	23 18 40	Z	1.0	11.2 (1)		
		SKP	23 18 40	LZ	17	23.6 (2)		
		PKS	23 19 45	LR	20	10.2 (2)		
		esPKS	23 22 55	LR	22	10.2 (2)		
		eP	23 28 35.0	Z	1.0	17.0 (0)		
		e	23 31 10	Z	0.9	12.0 (0)		
		e	23 33 48	LZ	23	10.6 (2)		
21	CP	eP	23 15 53.2	Z	1.2	31.6 (1)	126.0	
		PP	23 17 45	Z	1.7	76.0 (0)		
		PKS	23 19 17	T	2.4	35.9 (1)		
		eP	23 28 21	Z	1.3	67.0 (0)		
21	FM	eP	23 15 53.6	Z	0.5	69.0 (0)	128.0	
		PP	23 17 52	Z	1.9	21.5 (1)		
		eP	23 28 22.1	Z	0.5	6.0 (0)		
21	NG	eP	23 16 08.2	Z	0.9	11.1 (1)	136.0	
		SKP	23 18 44	Z	1.0	96.0 (0)		
		SKP	23 18 45	LZ	20	17.7 (1)		
		PKS	23 19 41	T	1.3	25.5 (1)		
		PKS	23 19 43	LT	19	99.1 (1)		
		esSKP	23 22 55	LZ	17	20.3 (1)		
		SKKP	23 27 44	Z	1.5	21.2 (1)		
		e	23 33 50	LZ	20	22.7 (1)		
		PiP	23 36 50	LZ	20	17.7 (1)		
		SSS	23 40 55	LT	22	22.4 (1)		
21	DH	eP	23 16 18.7	Z	0.5	26.0 (1)	142.0	
		epP	23 18 45	Z	1.1	20.4 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
21	SJ	SKP	23 19 03	Z	0.6	19.2 (1)	144.0					
		eP ⁱ AS	23 28 47.6	Z	0.7	25.4 (1)						
		eP ⁱ	23 16 21.5	Z	0.5	18.7 (1)						
		eP ⁱ	23 16 23	LZ	14	70.0 (2)						
		e	23 16 42	Z	1.2	88.9 (1)						
		e	23 19 26	LR	14	29.4 (2)						
		eP ⁱ AS	23 28 50	Z	0.7	21.4 (1)						
21	MV	e	23 10 40	LZ	20	13.3 (2)						
21	MV	e	23 29 57	LZ	17	19.7 (2)						
21	MV	e	23 31 17	LZ	18	11.7 (2)						
21	MV	e	23 33 20	LZ	25	15.4 (2)						
21	MV	e	23 37 08	LZ	23	81.0 (1)						
22	CP	iP	00 10 04.3D	Z	0.3	9.0 (0)	1.1					
		S	00 10 18	T	0.6	15.0 (0)						
22	00	19 43.1	05.9 S 112.9 E	JAVA SEA								
			H = 611 KM									
22	MN	eP ⁱ	00 37 24.2	Z	0.7	6.0 (0)	124.0					
		e	00 37 39	Z	0.8	49.0 (0)						
		PP	00 39 27	Z	1.5	62.0 (0)						
		e	00 39 45	LZ	22	60.3 (1)						
		epP ⁱ	00 39 56	Z	1.0	18.0 (0)						
		SKP	00 40 11	Z	0.9	11.0 (0)						
		e	00 40 21	Z	0.8	14.0 (0)						
		PKKP	00 47 28	Z	0.8	21.0 (0)						
		SKKP	00 50 53	Z	1.1	11.0 (0)						
		MV	eP ⁱ	00 37 32.9	Z	0.9			1.1 (2)	121.0		
			epP ⁱ	00 39 48	Z	0.8			1.3 (1)			
	SKP	00 40 15	Z	1.0	5.0 (1)							
	PKKP	00 47 37	Z	0.6	1.0 (1)							
22	WI	eP ⁱ	00 37 35.0	Z	0.8	47.0 (0)	123.0					
		epP ⁱ	00 39 48	Z	1.0	17.0 (0)						
		SKP	00 40 19	Z	1.0	20.0 (0)						
		e	00 45 35	LZ	38	29.5 (2)						
		PKKP	00 47 32	Z	1.1	64.0 (0)						
		SP	00 48 28	LZ	22	13.8 (2)						
		SKKP	00 50 40	Z	1.1	13.0 (0)						
		PSP	00 51 06	LZ	30	17.6 (2)						
		e	00 51 26	Z	0.9	22.0 (0)						
		22	CP	eP ⁱ	00 37 46.4	Z			1.1	14.4 (1)	126.0	
				epP ⁱ	00 40 01	Z			1.3	51.4 (0)		
e	00 40 08			Z	1.0	43.3 (0)						
e	00 40 28			Z	0.9	30.1 (0)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG			
22	FM	eP ⁱ	00 37 47.1	Z	0.9	1.0 (2)	128.0				
		PP	00 40 01	Z	1.6	1.0 (2)					
22	LC	epP ⁱ	00 40 10	Z	0.9	5.7 (1)	134.0				
		SKP	00 40 29	Z	0.9	2.7 (1)					
		eP ⁱ	00 37 48.1	Z	0.8	6.0 (0)					
		e	00 38 01	Z	1.0	68.5 (1)					
		epP ⁱ	00 40 17	Z	1.2	28.1 (0)					
		SKP	00 40 36	Z	0.9	53.7 (0)					
		SKP	00 40 40	LZ	19	26.1 (2)					
		SKKP	00 49 44	Z	1.4	31.5 (0)					
		NG	eP ⁱ	00 38 01.9	Z	0.9			64.1 (0)	136.0	
			e	00 38 04	Z	0.7			87.0 (0)		
			epP ⁱ	00 40 21	Z	1.0			26.3 (1)		
	SKP	00 40 40	Z	0.7	53.0 (0)						
	SKP	00 40 42	LZ	18	38.2 (2)						
	epPKS	00 43 51	LT	20	98.9 (2)						
	e	00 46 45	LT	18	24.6 (2)						
	SKKP	00 49 35	Z	1.3	82.4 (1)						
22	DH	eP ⁱ	00 38 12.1	Z	0.8	19.8 (1)	143.0				
		eP ⁱ	00 38 13	LZ	16	18.8 (2)					
		e	00 39 11	Z	1.1	21.5 (1)					
		epP ⁱ	00 40 27	LZ	23	13.5 (2)					
	SKP	00 40 59	Z	0.8	16.7 (1)						
22	SJ	eP ⁱ	00 38 15.0	Z	0.6	18.9 (1)	144.0				
		eP ⁱ	00 38 15	LZ	14	73.4 (2)					
22	SJ	eP	00 34 18.0	Z	0.6	51.0 (0)					
22	LC	eP	00 36 18.1	Z	1.0	98.0 (0)					
22	DH	eP	00 36 54.0	Z	0.8	10.4 (1)					
22	00	37 36.8	06.0 S 113.0 E	JAVA SEA							
			H = 595 KM								
22	MV	eP ⁱ	00 55 24.4	Z	0.9	3.8 (0)	121.0				
22	CP	eP ⁱ	00 55 27.1	Z	1.6	20.2 (1)	126.0				
22	WI	eP ⁱ	00 55 29.0	Z	1.0	25.0 (0)	123.0				
22	MN	eP ⁱ	00 55 30.0	Z	1.0	23.0 (0)	124.0				
22	FM	eP ⁱ	00 55 38.4	Z	0.7	1.3 (1)	128.0				
22	NG	eP ⁱ	00 55 51.9	Z	0.9	21.0 (0)	136.0				
		e	00 55 55	Z	0.5	20.0 (0)					
22	LC	eP ⁱ	00 55 53.0	Z	1.0	24.4 (0)	134.0				
		SKP	00 58 27	Z	1.1	12.7 (0)					
22	DH	eP ⁱ	00 56 04.1	Z	0.8	21.9 (1)	143.0				
22	SJ	eP ⁱ	00 56 06.6	Z	0.5	28.0 (1)	144.0				
22	FM	eP	00 47 12	Z	0.8	7.0 (0)					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	MV	e	00 48 03	LZ	24	17.5 (2)		
22	MV	e	00 52 03	LZ	32	22.6 (2)		
22	DH	eP	00 54 41.0	Z	0.6	77.0 (0)		
22	LC	eP	00 54 48.8	Z	1.2	32.4 (0)		
22	MV	e	00 55 00	LR	28	42.9 (2)		
22	NG	eP	00 55 15.6	Z	0.7	33.0 (0)		
22	NG	e	00 55 40	Z	1.0	39.2 (1)		
22	MN	e	00 55 40	LZ	25	16.3 (2)		
22	MN	eP	00 55 55.0	Z	1.0	53.0 (0)		
22	WI	eP	00 56 05.0	Z	0.8	74.0 (0)		
22	MV	eP	00 56 08.8	Z	1.0	31.0 (0)		
22	CP	eP	00 56 14.0	Z	1.0	24.7 (0)		
22	SJ	e	00 56 18	T	1.0	19.1 (1)		
22	WI	e	00 56 22	T	0.8	22.0 (0)		
22	FM	eP	00 56 27.4	Z	0.8	2.8 (1)		
22	WI	e	00 56 44	T	1.0	27.0 (0)		
22	MV	e	00 59 00	LR	25	20.3 (2)		
22	MN	e	00 59 54	LZ	28	14.4 (2)		
22	WI	e	01 04 42	LT	32	33.6 (2)		
22	MN	e	01 10 17	LT	35	23.4 (2)		
22	LC	eP	01 23 03.9	Z	1.0	48.9 (0)		
22	SJ	e	01 44 31	Z	0.4	45.8 (0)		
22	LC	eP	01 46 52.0	Z	0.7	6.0 (0)		
22	01 50 52.4		18.9 S 173.1 W			FIJI ISLANDS		
			H =060 KM					
22	MN	eP	02 02 49.5	Z	1.0	24.0 (0)	79.0	4.80
22	WI	eP	02 02 52.3	Z	1.0	17.0 (0)	79.0	4.63
22	FM	eP	02 03 04.5	Z	1.0	18.6 (0)	82.0	4.72
22	LC	eP	02 03 05.8	Z	1.0	17.1 (0)	82.0	4.73
						AVG.		4.72
22	LC	eP	04 24 28.8	Z	0.3	23.9 (0)	2.4	
		S	04 25 00	R	0.4	33.1 (0)		
22	06 21 01.8		15.8 S 167.6 E			NEW HEBRIDES ISLANDS		
			H =015 KM					
22	06 35 03.6		84.8 N 004.2 E			SVALBARD REGION		
			H =036 KM					
22	12 05 03.2		16.3 S 167.5 E			NEW HEBRIDES ISLANDS		
			H =045 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	12 07 05.5		32.2 S 066.9 W			SAN LUIS, ARGENTINA		
			H =249 KM					
22	LC	eP	12 18 17.3	Z	0.8	15.4 (0)	74.0	4.48
		L	12 42 10	LZ	18	21.9 (2)		
22	CP	eP	12 18 47.9	Z	0.7	6.0 (0)	80.0	4.13
22	NG	eP	12 18 54.3	Z	0.7	20.0 (0)	81.0	4.66
22	FM	eP	12 19 05.7	Z	0.7	19.0 (0)	83.0	4.68
22	MN	eP	12 19 17.0	Z	2.0	90.0 (0)	85.0	4.90
22	WI	eP	12 19 26.4	Z	1.0	20.0 (0)	88.0	4.65
						AVG.		4.59
22	WI	eP	14 04 03.0	Z	0.7	11.0 (0)		
22	LC	eP	14 59 39.6	Z	0.7	5.0 (0)		
22	15 13 03.9		03.2 S 142.3 E			NEAR NEW GUINEA		
			H =025 KM			MAG 5.75	BRK	
22	WI	eP	15 26 50.0	Z	1.5	23.0 (0)	100.0	5.29
		eP	15 26 58	LZ	18	18.6 (2)		
		PP	15 30 48	Z	1.5	31.0 (0)		
		PP	15 31 04	LZ	19	34.8 (2)		
		SKS	15 37 30	LT	17	10.5 (3)		
		S	15 38 22	LR	22	62.4 (2)		
		PS	15 39 50	LT	21	24.8 (3)		
		e	15 42 17	LZ	19	10.4 (3)		
		SS	15 44 45	LT	30	22.2 (3)		
		e	15 47 26	LZ	21	10.0 (3)		
		SSS	15 49 05	LT	28	11.6 (3)		
		LR	15 58 37	LZ	27	20.3 (3)		
22	MN	eP	15 26 50.5	Z	0.7	3.0 (0)	100.0	4.73
		eP	15 26 52	LZ	22	11.4 (2)		
		PP	15 29 53	Z	2.2	22.1 (1)		
		PP	15 30 45	LZ	25	26.0 (2)		
		SKS	15 37 30	LR	21	54.6 (2)		
		PS	15 39 45	LR	20	55.1 (2)		
22	CP	eP	15 27 05.0	LZ	21	17.6 (2)	101.0	
		PP	15 31 03	Z	1.0	9.0 (0)		
		PP	15 31 07	LZ	24	17.6 (2)		
		SKS	15 37 34	T	3.0	36.6 (1)		
		SKS	15 37 37	LT	19	11.3 (3)		
		PPS	15 41 03	LT	23	16.3 (3)		
		SS	15 45 40	LT	24	28.6 (3)		
		e	15 50 37	LT	22	90.0 (2)		
		LR	15 58 31	LZ	32	30.3 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG			
22	LC	ePD	15 27 33.8	Z	1.0	48.9 (0)	110.0	6.46			
		ePD	15 27 39	LZ	20	79.9 (1)					
		eP†	15 31 37.0	Z	1.2	8.0 (0)					
		PP	15 32 05	LZ	22	28.2 (2)					
		SKS	15 38 30	LR	20	67.6 (2)					
		SP	15 41 35	Z	4.5	87.3 (1)					
		PS	15 41 37	LR	20	14.3 (3)					
		PKKP	15 42 55	Z	1.1	57.4 (0)					
		SS	15 47 35	LR	33	23.6 (3)					
		SSS	15 51 25	LR	30	93.1 (2)					
		LR	16 03 25	LZ	35	19.2 (3)					
		22	FM	PP	15 31 29	LZ			15	26.9 (2)	104.0
				SKS	15 37 55	LT			18	89.4 (2)	
				PS	15 40 40	LT			22	14.4 (3)	
				SS	15 46 23	LT			29	25.6 (3)	
e	15 48 45			LZ	22	74.2 (2)					
SSS	15 50 10			LT	27	15.2 (3)					
e	15 56 15			LZ	22	61.2 (2)					
LR	16 00 15			LZ	41	42.3 (3)					
22	NG			eP†	15 31 53.0	Z	0.9	21.0 (0)	119.0		
				PP	15 33 15	Z	1.6	20.1 (1)			
		PP	15 33 15	LZ	23	20.1 (2)					
		e	15 34 55	LZ	19	14.0 (2)					
		SKS	15 38 50	LT	14	47.6 (2)					
		SKKS	15 40 16	LT	16	49.8 (2)					
		S	15 41 05	LT	17	33.8 (2)					
		PS	15 43 00	LT	22	79.6 (2)					
		SPP	15 44 16	LZ	20	82.4 (2)					
		SS	15 49 30	LR	26	17.0 (3)					
		SSS	15 54 08	LT	24	13.0 (3)					
		L	16 03 00	LT	37	16.6 (3)					
		L	16 08 10	LR	30	47.2 (3)					
		22	SJ	PP	15 32 58	LZ	18	39.1 (2)		117.0	
				SKS	15 38 49	LR	16	55.3 (2)			
SKKS	15 39 53			LR	20	64.7 (2)					
PS	15 42 46			LR	23	21.1 (3)					
PPS	15 43 52			LR	24	17.6 (3)					
SS	15 49 21			LR	22	16.2 (3)					
SSS	15 53 24			LR	31	14.4 (3)					
e	15 57 15			LR	23	10.4 (3)					
LQ	16 00 15			LR	21	79.0 (2)					
LR	16 07 08			LZ	25	16.9 (3)					
22	DH			PP	15 34 23	LZ	17	25.4 (2)	129.0		
				SKP	15 35 30	LZ	16	63.5 (2)			
				SP	15 44 36	LZ	22	23.2 (2)			
				e	15 48 28	LZ	22	39.4 (2)			
				SS	15 51 45	LT	23	10.5 (3)			
		e	15 57 06	LZ	24	47.4 (2)					
		e	16 04 03	LZ	24	48.7 (2)					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	MV	LR	16 12 41	LZ	41	28.5 (3)	97.0	
		SKS	15 37 00	LR	17	16.2 (3)		
		PS	15 39 23	LR	24	16.8 (3)		
		e	15 43 48	LR	38	40.4 (3)		
		LR	15 55 04	LZ	35	31.6 (3)		
						AVG.	5.49	
22	16 16 26.4	02.1 S 139.3 E	NEAR NORTH COAST OF NEW GU					
		H = 044 KM						
22	LC	PKKP	16 46 05	Z	0.9	8.0 (0)	111.0	
22	17 46 09.0	02.0 S 139.4 E	NEAR NEW GUINEA					
		H = 032 KM						
22	18 59 00.8	28.1 S 067.5 W	ARGENTINA					
		H = 217 KM						
22	SJ	eP	19 09 05.0	Z	0.6	36.4 (0)	63.0	4.98
22	LC	iP	19 09 54.7D	Z	1.0	13.9 (0)	71.0	4.34
		PCP	19 10 23	Z	0.9	15.8 (0)		
		epP	19 10 48	Z	1.2	36.0 (0)		
22	DH	eP	19 09 55.4	Z	0.8	21.9 (1)	71.0	5.64
22	NG	iP	19 10 25.8D	Z	0.7	33.0 (0)	76.0	4.87
22	CP	eP	19 10 27.0	Z	0.9	35.0 (0)	76.0	4.79
22	FM	eP	19 10 42.6	Z	1.0	17.1 (1)	79.0	5.43
		e	19 11 11	Z	1.6	14.3 (1)		
22	MN	eP	19 10 54.8	Z	1.0	36.0 (0)	81.0	4.76
22	WI	eP	19 11 04.1	Z	1.0	68.0 (0)	83.0	5.03
						AVG.	5.00	
22	MN	eP	19 00 55	LZ	22	87.9 (2)		
22	19 47 20.4	02.1 S 139.0 E	NEAR NEW GUINEA					
		H = 057 KM						
22	LC	eP	20 49 18.1	Z	0.8	6.0 (0)		
22	NG	iP	20 50 13.9C	Z	0.3	30.0 (0)	0.1	
		S	20 50 17	R	0.4	15.8 (1)		
22	20 50 24.9	15.7 S 068.7 W	BOLIVIA					
		H = 100 KM						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	LC	eP	21 00 21.6	Z	0.7	6.0 (0)	60.0	4.53
22	CP	eP	21 01 03.1	Z	0.6	5.0 (0)	66.0	4.32
22	WI	eP	21 01 42.6	Z	0.8	22.0 (0)	73.0	4.74
						AVG.		4.53
22	NG	eP	21 40 01.0	Z	0.5	7.0 (0)	0.1	
		e	21 40 05	Z	1.0	10.5 (1)		
22	WI	eP	22 05 22.7	Z	0.7	14.0 (0)		
22	MN	eP	23 17 13.5	Z	1.2	27.0 (0)		
22	WI	eP	23 17 26.2	Z	1.2	16.0 (0)		
22	LC	eP	23 17 44.8	Z	1.0	43.6 (0)		
23	00 15 34.4		17.4 S 178.9 W				FIJI ISLANDS	
			H =576 KM					
23	CP	eP	00 26 38.8	Z	0.7	13.0 (0)	79.0	4.31
23	MN	eP	00 26 47.5	Z	0.9	22.0 (0)	80.0	4.28
23	WI	eP	00 26 58.8	Z	0.9	22.0 (0)	83.0	4.26
23	FM	eP	00 27 10.4	Z	0.7	7.3 (0)	85.0	4.12
23	LC	eP	00 27 16.8	Z	0.8	8.0 (0)	86.0	4.20
						AVG.		4.23
23	CP	tP	00 28 49.1C	Z	0.3	18.0 (0)	0.3	
		S	00 28 54	T	0.5	42.0 (0)		
23	CP	tP	03 18 31.9C	Z	0.3	9.0 (0)	0.5	
		S	03 18 39	T	0.5	17.0 (0)		
23	MN	eP	04 20 12	Z	0.6	4.0 (0)		
23	LC	eP	04 49 32.7	Z	0.7	5.0 (0)		
23	05 34 40.5		38.0 S 072.8 W				NEAR SOUTHERN CALIFORNIA CHILE.	
			H =067 KM					
23	SJ	eP	05 45 43.9	Z	0.7	18.9 (0)	69.0	4.91
23	LC	eP	05 46 26.0	Z	0.9	43.0 (0)	77.0	5.13
		L	06 09 32	LT	22	78.9 (1)		
		L	06 13 00	LZ	16	30.8 (2)		
23	CP	eP	05 46 51.1	Z	1.1	37.0 (0)	81.0	4.98
23	NG	eP	05 47 07.4	Z	1.0	41.0 (0)	85.0	5.16
23	FM	eP	05 47 10.4	Z	0.7	24.0 (0)	85.0	5.03

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	MN	LR	06 18 32	LZ	17	12.5 (2)		
		eP	05 47 18.7	Z	1.0	14.0 (0)	87.0	4.75
23	WI	eP	05 47 28.5	Z	0.6	5.0 (0)	89.0	4.52
						AVG.		4.93
23	MV	eP	08 46 52.0	Z	0.2	6.0 (0)	2.7	
		S	08 47 26	R	0.4	13.0 (0)		
23	14 45 27.6		28.5 S 167.6 E				NORFOLK ISLAND	
			H =023 KM					
23	15 08 45.5		22.8 S 179.4 E				FIJI ISLANDS	
			H =608 KM					
23	CP	tP	16 25 17.0C	Z	0.3	3.0 (0)	1.4	
		S	16 25 35	R	0.5	7.0 (0)		
23	CP	eP	18 42 40.6	Z	0.3	8.0 (0)	1.1	
		S	18 42 55	T	0.5	23.0 (0)		
23	DH	eP	18 51 42.5	Z	0.3	66.0 (0)	1.8	
		S	18 52 07	R	0.5	33.0 (0)		
23	MN	eP	19 05 11.5	Z	0.6	4.0 (0)		
23	FM	eP	19 06 13.4	Z	1.7	69.0 (0)		
23	WI	eP	19 06 44.0	Z	1.0	10.0 (0)		
23	SJ	L	19 07 28	LR	20	55.9 (2)		
23	LC	e	19 08 20	LR	25	17.4 (2)		
23	WI	e	19 09 30	Z	0.9	6.0 (0)		
23	LC	e	19 09 50	LZ	18	33.6 (2)		
23	LC	e	19 12 22	LT	20	79.1 (1)		
23	CP	tP	19 18 30.4C	Z	0.3	5.0 (0)	0.1	
		S	19 18 33	T	0.4	11.0 (0)		
23	WI	e	19 53 56	Z	1.0	5.0 (0)		
23	DH	eP	21 01 59.9	Z	0.3	6.0 (0)	1.9	
		S	21 02 25	R	0.5	33.0 (0)		
23	NG	eP	21 41 45.0	Z	0.4	3.0 (0)	0.1	
		S	21 41 50	R	0.5	21.0 (0)		
		e	21 41 54	Z	1.0	96.0 (0)		
23	MN	eP	22 11 33.4	Z	0.5	1.0 (0)		
24	01 34 07.9		17.8 S 173.0 W				FIJI ISLANDS	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	MN	eP	01 45 57.5	Z	1.1	30.0 (0)	77.0	4.95
		L	02 09 20	LZ	28	48.5 (1)		
24	WI	eP	01 46 08.6	Z	1.1	23.0 (0)	79.0	4.77
24	FM	eP	01 46 21.0	Z	1.2	18.0 (0)	81.0	4.63
		LR	02 11 40	LZ	28	43.8 (1)		
24	LC	eP	01 46 25.7	Z	1.2	31.0 (0)	82.0	4.77
24	MV	L	02 08 48	LZ	20	50.5 (1)	74.0	
24	NG	L	02 28 45	LZ	18	95.6 (1)		
							AVG.	4.78
24	WI	eP	01 48 41.0	Z	1.0	7.0 (0)		
24	FM	eP	01 48 25	Z	0.9	9.0 (0)		
24	MN	eP	01 52 17.7	Z	0.3	15.0 (0)	0.8	
		S	01 52 29	T	0.6	18.0 (0)		
24	WI	e	01 54 03	T	0.5	12.0 (0)		
24	MN	eP	03 39 06.7	Z	0.5	27.0 (0)	1.0	
24	CP	eP	03 39 09.7	Z	0.3	6.0 (0)	0.4	
		S	03 39 16	R	0.6	11.0 (0)		
24	MN	S	03 39 20	T	0.8	50.0 (0)	1.0	
24	WI	eP	03 40 00.0	Z	0.5	19.0 (0)		
24	FM	eP	03 40 04.8	Z	0.3	2.0 (0)		
24	WI	L	03 41 17	T	0.6	24.0 (0)		
24	FM	L	03 41 19	R	0.5	5.0 (0)		
24	CP	eP	03 50 55.0	Z	0.3	3.0 (0)	0.6	
		S	03 51 04	T	0.5	7.0 (0)		
24	MN	eP	05 47 06.7	Z	0.3	8.0 (0)	1.1	
		e	05 47 21	R	0.5	39.0 (0)		
24	MN	eP	06 20 07.4	Z	0.3	13.0 (0)		
24	WI	eP	07 19 00.5	Z	0.3	3.0 (0)	1.8	
		S	07 19 25	R	0.5	7.0 (0)		
24	CP	eP	09 08 40.2	Z	0.3	9.0 (0)	1.9	
		S	09 09 05	T	0.5	24.0 (0)		
24	12 59 30.9		05.7 S 145.0 E H =111 KM				NEAR NEW GUINEA	
24	MV	eP	13 12 51.8	Z	0.6	13.0 (0)	97.0	5.34
		eP	13 12 52	LZ	20	75.8 (1)		
		PP	13 16 43	Z	1.5	28.0 (0)		
		e	13 17 21	Z	1.5	57.0 (0)		
		SKS	13 23 18	R	2.7	27.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		SKS	13 23 18	LR	18	25.8 (2)		
		S	13 24 16	LR	24	42.3 (2)		
		PS	13 25 55	LR	26	82.5 (2)		
		SS	13 30 50	LT	26	42.4 (2)		
		e	13 39 40	LR	30	39.0 (2)		
		LR	13 43 40	LZ	34	17.2 (3)		
24	MN	eP	13 13 01.4	Z	0.7	11.0 (0)	99.0	5.29
		P	13 13 02	LZ	21	69.8 (1)		
		e	13 13 08	Z	0.9	19.0 (0)		
		esP	13 13 37	Z	0.9	17.0 (0)		
		PP	13 17 01	LZ	22	66.5 (1)		
		PP	13 17 09	Z	1.3	34.0 (0)		
		epPD	13 17 29	Z	1.7	11.0 (1)		
		esPP	13 17 55	Z	1.8	13.5 (1)		
		SKS	13 23 30	LR	22	22.6 (2)		
		SP	13 25 45	LZ	30	47.5 (2)		
		PPS	13 26 42	LR	24	57.5 (2)		
		SS	13 31 18	LR	27	10.4 (3)		
		SSS	13 35 00	LT	25	32.8 (2)		
		e	13 41 00	LZ	28	38.2 (2)		
		L	13 45 00	LZ	35	18.7 (3)		
24	WI	eP	13 13 03.6	Z	1.0	5.0 (0)	100.0	4.80
		eP	13 13 05	LZ	16	11.1 (2)		
		esP	13 13 45	Z	1.1	23.0 (0)		
		e	13 16 37	Z	1.0	5.0 (0)		
		PP	13 17 23	Z	1.2	20.0 (0)		
		epPP	13 17 43	Z	1.6	58.0 (0)		
		SKS	13 23 35	R	2.0	10.2 (1)		
		SKS	13 23 35	LT	20	22.2 (2)		
		esS	13 25 25	LR	29	30.0 (2)		
		SP	13 25 52	LZ	30	50.0 (2)		
		PPS	13 26 57	LT	24	66.2 (2)		
		PKKP	13 29 30	Z	0.8	5.0 (0)		
		LR	13 45 35	LZ	40	28.4 (3)		
24	CP	eP	13 13 10.2	Z	0.6	5.0 (0)	101.0	5.02
		epP	13 13 40	Z	1.5	60.0 (0)		
		PP	13 17 05	Z	1.0	19.0 (0)		
		SP	13 26 10	LZ	21	33.0 (2)		
		SS	13 31 47	LT	25	24.3 (2)		
		LQ	13 40 56	LR	37	92.5 (2)		
		LR	13 45 35	LZ	35	17.5 (3)		
24	FM	eP	13 13 23.0	Z	0.7	8.0 (0)	104.0	5.46
		eP	13 13 27	LZ	21	49.0 (1)		
		PP	13 17 37	Z	1.9	70.0 (0)		
		PP	13 17 38	LZ	15	89.8 (1)		
		SP	13 26 37	LZ	20	41.8 (2)		
		e	13 27 33	LR	25	50.0 (2)		
		e	13 28 26	LZ	21	40.6 (2)		
		e	13 42 06	LZ	30	38.4 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	FM	e LR	13 46 06	LZ	33	94.4 (2)		
24	LC	ePD	13 50 03	LZ	23	65.4 (2)		
24	LC	ePD	13 13 49.7	Z	0.7	2.0 (0)	108.0	5.06
		ePD	13 13 51	LZ	18	60.9 (1)		
		eP†	13 17 50.7	Z	1.0	7.0 (0)		
		PP	13 18 17	Z	1.7	91.0 (0)		
		PP	13 18 20	LZ	24	74.2 (1)		
		SKS	13 24 22	LR	23	13.8 (2)		
		SP	13 27 30	LZ	23	37.0 (2)		
		PPS	13 28 25	LR	25	52.4 (2)		
		PKKP	13 29 16	Z	0.8	35.0 (0)		
		e	13 29 45	Z	1.0	55.0 (0)		
		e	13 29 55	Z	1.1	65.0 (0)		
		SS	13 33 17	LR	30	34.0 (2)		
		e	13 34 55	LR	27	44.3 (2)		
		LQ	13 44 54	LT	35	81.3 (2)		
		LR	13 49 43	LZ	22	61.7 (2)		
24	SJ	PD	13 14 30	LZ	13	80.2 (1)	116.0	
		PP	13 19 15	LZ	20	75.4 (1)		
		SP	13 28 52	LZ	22	67.9 (2)		
		SS	13 36 11	LT	30	51.6 (2)		
		SSS	13 39 33	LT	23	38.3 (2)		
		e	13 43 10	LT	23	32.9 (2)		
		L	13 48 27	LT	24	17.5 (3)		
24	NG	eP†	13 18 08.8	Z	0.8	17.0 (0)	119.0	
		PP	13 19 28	Z	1.0	28.0 (0)		
		PP	13 19 35	LZ	17	13.7 (2)		
		epPP	13 19 58	Z	1.3	87.0 (0)		
		PKKP	13 28 27	Z	1.0	14.0 (0)		
		e	13 28 57	Z	1.0	28.0 (0)		
		SP	13 29 08	LZ	23	38.1 (2)		
		SS	13 35 37	LT	18	76.7 (2)		
		e	13 36 52	LR	25	73.4 (2)		
		SSS	13 40 02	LR	25	33.2 (2)		
		e	13 49 50	LZ	37	91.9 (2)		
		e	13 50 59	LZ	25	66.3 (2)		
		L	13 55 10	LZ	22	13.6 (3)		
24	NG	L	14 52 35	LZ	30	39.1 (2)	241.0	
24	DH	eP†	13 18 30.3	Z	1.0	51.0 (0)	129.0	
		PP	13 20 39	LZ	18	20.1 (2)		
		SS	13 38 00	LR	27	10.3 (3)		
		LR	13 59 37	LZ	35	18.9 (3)		
							AVG.	5.16
24	15 25 16.1		02.1 S 138.8 E				NEAR NEW GUINEA	
			H = 084 KM					
24	NG	L	16 23 46	LZ	22	77.3 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	CP	eP	17 33 03.7	Z	0.2	2.0 (0)	0.1	
		S	17 33 07	R	0.4	7.0 (0)		
24	CP	eP	19 22 45.5	Z	0.3	13.0 (0)	0.9	
		S	19 22 58	T	0.5	21.0 (0)		
24	WI	eP	19 57 37.5	Z	1.0	12.0 (0)		
24	LC	eP	19 57 55.3	Z	1.0	10.0 (0)		
24	20 42 47.3		06.7 S 155.3 E				SOLOMON ISLANDS	
			H = 053 KM					
24	MV	eP	22 50 54.4	Z	0.3	5.0 (0)	1.5	
24	WI	eP	22 51 05.0	Z	0.4	2.0 (0)	2.5	
24	MV	S	22 51 15	R	0.4	15.0 (0)	1.5	
24	WI	S	22 51 37	R	0.5	11.0 (0)	2.5	
25	DH	eP	05 18 37.3	Z	0.4	6.0 (0)	3.7	
		S	05 19 23	T	0.6	29.0 (0)		
25	05 28 30.7		05.8 S 130.7 E				BANDA SEA	
			H = 038 KM					
25	MN	eP	06 20 05.1	Z	0.5	5.0 (0)	3.2	
		S	06 20 45	R	0.8	18.0 (0)		
25	CP	eP	06 45 44.4	Z	0.2	35.0 (0)	0.7	
		S	06 45 54	T	0.4	62.0 (0)		
25	CP	eP	07 10 26.8	Z	0.2	9.0 (0)	2.4	
		e	07 10 36	Z	0.3	49.0 (0)		
		S	07 10 58	T	0.5	10.6 (1)		
25	MV	L	07 30 00	LZ	15	69.2 (1)		
25	08 12 38.0		51.2 N 169.8 W				FOX ISLANDS	
			H = 045 KM					
25	MV	eP	08 19 35.0	Z	0.9	12.0 (0)	36.0	5.42
25	WI	eP	08 19 47.0	Z	0.8	6.0 (0)	37.0	4.17
		PCP	08 22 07	Z	0.8	6.0 (0)		
		L	08 31 36	LZ	18	20.0 (2)		
25	MN	eP	08 19 56.7	Z	1.0	7.0 (0)	38.0	4.14
25	FM	eP	08 20 23.9	Z	0.7	7.0 (0)	42.0	4.25
25	CP	eP	08 20 35.6	Z	0.8	16.0 (0)	43.0	4.50

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	LC	eP	08 21 25.0D	Z	0.9	18.0 (0)	49.0	4.75
		e	08 21 35	Z	0.8	9.0 (0)		
25	SJ	eP	08 22 28.1	Z	1.2	91.8 (0)	58.0	5.38
25	DH	eP	08 22 52.8	Z	0.7	43.0 (0)	62.0	5.40
						AVG.		4.75
25	LC	eP	08 30 54.0	Z	1.5	23.0 (0)		
25	WI	eP	08 31 52.8	Z	1.1	10.0 (0)		
25	MN	eP	10 21 06.4	Z	0.3	8.0 (0)	0.6	
		S	10 21 15	R	0.4	16.0 (0)		
25	11 00 19.0		11.3 S 165.7 E			SANTA CRUZ ISLANDS		
			H = 085 KM					
25	MN	eP	11 12 37.5	Z	0.9	4.0 (0)	83.0	4.10
25	MV	eP	11 12 46.7	Z	0.7	5.0 (0)	85.0	4.30
25	LC	eP	11 13 34.2	Z	1.0	7.0 (0)	95.0	4.74
						AVG.		4.38
25	CP	eP	11 01 05.4	Z	0.3	22.0 (0)	0.9	
		S	11 01 17	T	0.4	54.0 (0)		
25	11 44 27.7		49.5 S 008.7 W			NORTH WEST OF BOUVET ISLAN		
			H = 025 KM					
25	LC	eP	12 03 14.1	Z	1.0	5.0 (0)	119.0	
		PP	12 04 31	Z	1.2	8.0 (0)		
25	CP	eP	12 03 27.1	Z	0.7	11.0 (0)	125.0	
25	FM	eP	12 03 30.3	Z	0.7	9.0 (0)	127.0	
		PP	12 05 25	Z	1.0	14.0 (0)		
25	MN	eP	12 03 36.5	Z	0.8	16.0 (0)	130.0	
25	WI	eP	12 03 39.5	Z	0.9	24.0 (0)	131.0	
		PP	12 05 53	Z	1.5	23.0 (0)		
25	MV	eP	12 03 39.6	Z	0.7	11.0 (0)	132.0	
25	CP	eP	12 16 39.0	Z	0.2	8.0 (0)	0.9	
		S	12 16 51	T	0.3	13.0 (0)		
25	13 38 56.3		28.2 N 096.1 E			TIBET INDIA BORDER		
			H = 025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	15 28 45.9		06.8 N 073.1 W			NORTHERN COLOMBIA		
			H = 112 KM					
25	LC	eP	15 36 14.9	Z	0.8	61.0 (0)	40.0	5.18
		e	15 37 08	Z	0.8	9.0 (0)		
25	FM	eP	15 37 14.8	Z	0.6	12.0 (0)	48.0	4.55
25	MN	eP	15 37 43.0	Z	0.7	5.0 (0)	52.0	4.30
25	WI	eP	15 37 49.0	Z	0.5	7.0 (0)	52.0	4.64
						AVG.		4.67
25	WI	eP	18 38 21.9	Z	0.6	2.0 (0)		
25	20 49 09.0		27.8 N 099.6 E			SINKIANG PROVINCE, CHINA		
			H = 025 KM					
25	LC	eP	21 33 00.5	Z	0.3	20.0 (0)	1.5	
		S	21 33 20	R	0.5	34.0 (0)		
25	21 37 36.1		36.5 N 016.7 E			MEDITERRANEAN SEA		
			H = 025 KM					
25	WI	eP	21 50 45.5	Z	0.8	5.0 (0)	92.0	4.59
25	LC	eP	21 50 50.0	Z	0.8	6.0 (0)	93.0	4.77
						AVG.		4.68
25	21 44 40.8		01.6 N 127.2 E			HALMAHERA		
			H = 060 KM					
25	LC	eP	22 03 29.2	Z	1.0	5.0 (0)	119.0	
26	LC	eP	01 04 00.8	Z	0.7	6.0 (0)		
26	03 10 53.5		00.5 S 127.6 E			HALMAHERA		
			H = 055 KM					
26	CP	eP	05 53 46.0	Z	0.2	17.0 (0)	1.1	
		S	05 54 00	T	0.4	11.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	09 22	06.7	38.7 N H =025 KM	020.6 E	IONIAN ISLANDS			AVG. 5.07
26	WI	eP	09 35 14.3	Z	1.5	15.0 (0)	92.0	4.80
26	LC	eP	09 35 24.0	Z	1.2	12.0 (0)	94.0	4.80
						AVG.		5.19 4.80
26	CP	eP	11 47 15.1	Z	0.2	10.0 (0)	0.4	
		S	11 47 21	T	0.4	48.0 (0)		
26	12 04	54.6	00.5 S H =025 KM	019.2 W	MID-ATLANTIC OCEAN			
26	DH	eP	12 15 41.8	Z	0.7	25.0 (0)	66.0	5.19
		S	12 24 35	LR	24	50.5 (2)		
		LR	12 34 50	LZ	27	59.9 (2)		
26	NG	eP	12 16 42.6	Z	0.7	14.0 (0)	76.0	4.80
		S	12 26 21	LT	17	28.1 (2)		
		SSS	12 34 30	LT	25	13.0 (2)		
		L	12 36 25	LT	28	34.3 (2)		
		LR	12 39 00	LZ	25	73.7 (2)		
26	SJ	eP	12 17 07.9	Z	1.1	97.8 (0)	81.0	5.40
		S	12 27 08	LR	20	28.4 (2)		
		L	12 37 32	LR	34	58.9 (2)		
26	LC	eP	12 17 47.1	Z	1.1	25.0 (0)	89.0	5.03
		e	12 18 02	Z	1.6	76.0 (0)		
		e	12 18 29	Z	1.2	28.0 (0)		
		e	12 28 24	LR	20	21.6 (2)		
		PS	12 29 33	LR	22	23.9 (2)		
		SS	12 34 14	LR	22	19.1 (2)		
		LR	12 45 40	LZ	23	44.3 (2)		
26	WI	eP	12 18 26.7	Z	1.0	7.0 (0)	97.0	4.94
		PS	12 31 06	LT	24	13.8 (2)		
		SS	12 36 15	LT	25	34.6 (2)		
		LQ	12 44 08	LR	23	10.3 (2)		
		LR	12 50 23	LZ	28	75.7 (2)		
26	FM	SP	12 30 22	LZ	18	10.7 (2)	93.0	
		LR	12 46 40	LZ	35	27.9 (2)		
26	MN	ePS	12 31 15	LT	22	11.4 (2)	98.0	
		SS	12 36 40	LT	26	19.9 (2)		
		LQ	12 45 05	LT	43	12.7 (2)		
		LR	12 50 46	LZ	32	31.4 (2)		
26	MV	PS	12 31 35	LR	20	10.5 (2)	100.0	
		SS	12 37 10	LR	22	18.5 (2)		
		LR	12 51 45	LZ	35	40.7 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	15 20	41.8	05.5 S H =122 KM	148.1 E	NEW BRITAIN			
26	WI	eP	16 45 44.9	Z	1.5	68.0 (0)	91.0	5.36
		eP	16 45 45	LZ	18	22.6 (2)		
		PP	16 49 22	Z	1.5	30.0 (0)		
		PP	16 49 35	LZ	14	12.1 (2)		
		S	16 56 44	LT	24	39.0 (2)		
		PS	16 57 54	LR	20	21.4 (2)		
		SS	17 02 47	LT	24	15.4 (2)		
		SSS	17 06 26	LR	23	16.1 (2)		
		LQ	17 10 20	LR	21	13.2 (2)		
		LR	17 15 53	LZ	24	70.0 (2)		
						AVG.		5.36
26	MV	eP	16 22 22.6	Z	0.4	11.0 (0)	1.5	
		S	16 22 42	T	0.5	12.9 (0)		
26	WI	eP	16 22 58.0	Z	0.4	2.0 (0)	3.8	
		S	16 23 44	T	0.8	25.0 (0)		
26	16 32	43.6	40.6 S H =032 KM	073.3 W	NEAR NORTHERN CHILE			
26	SJ	eP	16 44 02.9	Z	0.8	10.6 (1)	72.0	4.83
		eP	16 44 10	LZ	15	47.2 (2)		
		S	16 53 25	LR	23	82.2 (2)		
		e	16 58 55	LT	19	53.6 (2)		
		L	17 09 55	LT	16	18.0 (3)		
26	LC	eP	16 44 43.2	Z	0.8	86.0 (0)	79.0	5.50
		eP	16 44 44	LZ	18	26.6 (2)		
		e	16 44 55	Z	0.9	12.9 (1)		
		e	16 45 10	Z	0.8	47.0 (0)		
		e	16 45 25	Z	1.2	72.0 (0)		
		e	16 45 45	Z	1.0	34.0 (0)		
		e	16 46 09	T	1.0	15.0 (0)		
		e	16 46 16	Z	1.1	25.0 (0)		
		PP	16 47 41	Z	1.2	20.0 (0)		
		S	16 54 45	LR	22	46.5 (2)		
		SS	16 59 44	LT	25	30.4 (2)		
		e	17 03 46	LR	22	29.9 (2)		
		L	17 07 58	LT	27	51.8 (2)		
		L	17 10 44	LZ	23	90.8 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	DH	eP	16 45 04.2	Z	1.0	23.0 (1)	82.0	5.96
		eP	16 45 05	LZ	16	24.2 (2)		
		S	16 55 18	LR	22	53.2 (2)		
26	CP	LR	17 14 50	LZ	25	41.4 (2)	83.0	4.42
		eP	16 45 06.6	Z	0.6	4.0 (0)		
		eP	16 45 08	LZ	17	13.5 (2)		
26	NG	e	16 45 17	Z	0.7	35.0 (0)	87.0	5.98
		S	16 55 31	LT	21	23.8 (2)		
		SS	17 00 58	LT	21	75.2 (1)		
26	FM	LR	17 11 00	LZ	21	45.7 (2)	87.0	4.86
		eP	16 45 25.4	Z	0.9	17.0 (1)		
		eP	16 45 27	LZ	17	24.1 (2)		
26	MN	e	16 45 37	Z	0.9	13.6 (1)	89.0	5.51
		SKS	16 55 51	LT	20	60.5 (2)		
		L	17 08 43	LR	23	40.2 (2)		
26	MV	eP	16 45 26.2	Z	0.8	13.0 (0)	91.0	4.88
		eP	16 45 29	LZ	17	17.5 (2)		
		PP	16 48 45	LZ	20	71.0 (2)		
26	MN	S	16 56 04	LR	25	48.3 (2)	91.0	5.14
		e	16 58 16	LZ	19	20.0 (2)		
		LR	17 14 53	LZ	22	10.5 (3)		
26	MN	eP	16 45 35.0	Z	1.5	10.3 (1)	91.0	5.14
		eP	16 45 37	LZ	19	16.3 (2)		
		PP	16 49 02	Z	1.7	52.4 (0)		
26	MN	PP	16 49 14	LZ	19	94.0 (1)	91.0	5.14
		S	16 56 21	LT	27	42.2 (2)		
		SP	16 57 31	LZ	21	13.6 (2)		
26	MN	SS	17 02 25	LT	24	22.6 (2)	91.0	5.14
		PKKP	17 03 17	Z	0.9	60.0 (0)		
		SSS	17 06 05	LT	29	20.0 (2)		
26	MN	e	17 09 36	LZ	25	14.8 (2)	91.0	5.14
		L	17 15 30	LZ	25	63.9 (2)		
		eP	16 45 44.3	Z	1.0	30.3 (0)		
26	MN	eP	16 45 45	LZ	18	15.3 (2)	91.0	5.14
		e	16 45 51	Z	1.0	33.3 (0)		
		PP	16 49 28	LZ	18	12.3 (2)		
26	MN	S	16 56 48	LT	25	35.6 (2)	91.0	5.14
		SS	17 02 50	LT	24	23.3 (2)		
		SSS	17 06 25	LR	23	12.8 (2)		
26	MN	e	17 08 43	LT	28	21.1 (2)	91.0	5.14
		LR	17 15 57	LZ	24	69.7 (2)		
		AVG.						
26	MN	eP	20 23 31.8	Z	0.4	13.0 (0)	1.5	
		S	20 23 52	R	0.5	18.0 (0)		
26	CP	eP	21 10 30.0	Z	0.3	1.0 (0)	3.2	
		e	21 10 39	Z	0.3	3.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		S	21 11 10	R	0.5	6.0 (0)		
26	21 13	20.2	37.2 N 036.5 E	SOUTHERN TURKEY				
			H =025 KM					
26	DH	eP	21 24 52.1	Z	0.3	16.0 (0)	1.4	
		S	21 25 10	R	0.5	42.0 (0)		
26	NG	eP	21 40 11.4	Z	0.3	5.0 (0)	0.5	
26	NG	S	21 40 19	R	0.4	20.0 (0)	0.1	
		e	21 40 22	Z	1.0	11.3 (1)		
26	MN	eP	22 03 41.3	Z	0.3	10.0 (0)	1.0	
		S	22 03 55	T	0.5	16.0 (0)		
27	CP	eP	01 25 31.9	Z	0.3	40.0 (0)	1.3	
		S	01 25 48	T	0.5	60.0 (0)		
27	MN	eP	01 26 28.2	Z	0.5	3.0 (0)	5.3	
		S	01 27 31	T	0.7	3.0 (0)		
27	05 22	32.0	03.9 S 129.1 E	CERAM				
			H =096 KM					
27	LC	eP	05 41 15.7	Z	1.0	7.0 (0)	121.0	
		PKKP	05 51 21	Z	1.0	12.0 (0)		
		e	05 53 10	LR	22	46.1 (1)		
		L	06 20 35	LR	28	61.0 (2)		
27	06 15	13.4	39.2 N 077.3 E	SINKIANG PROVINCE, CHINA				
			H =235 KM					
27	DH	eP	06 35 54.5	Z	0.3	5.0 (0)	3.3	
		S	06 36 36	T	0.5	18.0 (0)		
27	10 10	26.1	44.1 N 147.3 E	KURILE ISLANDS				
			H =031 KM					
27	MV	eP	10 21 03.7	Z	0.5	3.0 (0)	65.0	4.38
27	MN	eP	10 21 20.0	Z	1.0	17.0 (0)	67.0	4.38
27	FM	eP	10 21 37.7	Z	0.6	5.7 (0)	70.0	4.48
27	CP	eP	10 21 49.0	Z	0.6	4.0 (0)	72.0	4.32
27	NG	eP	10 22 22.3	Z	0.7	7.0 (0)	78.0	5.34

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	LC	eP	10 22 34	Z	0.7	14.0 (0)		
27	LC	eP	10 22 25.5	Z	0.7	2.0 (0)	78.0	3.95
27	DH	eP	10 23 05.5	Z	0.6	14.0 (0)	86.0	4.90
							AVG.	4.53
27	CP	eP	11 30 13.1	Z	0.3	2.0 (0)	1.5	
		e	11 30 17	Z	0.3	6.0 (0)		
		S	11 30 32	T	0.4	34.0 (0)		
27	CP	eP	13 42 57.3	Z	0.3	2.0 (0)	4.2	
		e	13 43 04	Z	0.4	12.0 (0)		
		S	13 43 48	R	0.5	10.0 (0)		
27	MN	eP	14 08 53.0	Z	0.7	3.0 (0)		
27	14 50 15.2		20.3 S 177.6 W				TONGA ISLANDS	
			H = 510 KM					
27	CP	eP	15 01 30.0	Z	0.8	6.0 (0)	79.0	3.78
27	MV	eP	15 01 31.5	Z	0.6	5.0 (0)	80.0	3.82
27	FM	eP	15 01 59.5	Z	0.6	2.8 (0)	85.0	3.78
27	LC	eP	15 02 05.5	Z	0.9	10.0 (0)	87.0	4.24
							AVG.	3.90
27	CP	eP	15 08 09.4	Z	0.3	2.0 (0)	3.0	
		e	15 08 13	Z	0.3	6.0 (0)		
		S	15 08 47	T	0.5	15.0 (0)		
27	MV	eP	15 55 34.0	Z	0.3	20.0 (0)	1.4	
27	MN	eP	15 55 35.1	Z	0.3	29.0 (0)	1.5	
27	MV	S	15 55 51	R	0.4	54.0 (0)	1.4	
27	MN	S	15 55 54	T	0.5	14.0 (0)	1.5	
27	DH	eP	18 10 57.3	Z	0.3	60.0 (0)	1.7	
		S	18 11 20	R	0.5	13.3 (1)		
27	MV	eP	18 20 21.5	Z	0.3	3.0 (0)	1.7	
		S	18 20 45	T	0.5	11.0 (0)		
27	CP	eP	18 42 08.1	Z	0.3	5.0 (0)	2.2	
		S	18 42 37	T	0.5	60.0 (0)		
27	SJ	eP	18 56 34.7	Z	0.5	13.8 (0)		
27	SJ	eP	19 23 15.5	Z	0.8	11.8 (0)		
27	LC	eP	19 24 20.6	Z	0.8	11.0 (0)		
27	CP	eP	19 25 19.2	Z	0.7	5.0 (0)		
27	LC	e	19 25 43	Z	0.9	14.0 (0)		
27	FM	eP	19 25 48.7	Z	0.8	9.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	WI	eP	19 26 25.4	Z	0.7	5.0 (0)		
27	CP	e	19 26 42	Z	0.9	7.0 (0)		
27	FM	e	19 27 09	Z	0.9	14.0 (0)		
27	SJ	L	19 27 32	LT	17	27.4 (2)		
27	WI	e	19 27 45	Z	0.8	8.0 (0)		
27	SJ	L	19 28 01	R	1.9	10.1 (3)		
27	LC	L	19 29 15	Z	3.0	98.8 (1)		
27	LC	L	19 29 15	LR	17	19.2 (2)		
27	21 19 29.4		16.9 N 099.9 W				GUERRERO, MEXICO	
			H = 025 KM					
27	SJ	eP	21 22 07.4	Z	0.8	47.5 (0)	11.0	
		eP	21 22 09	LZ	10	26.6 (2)		5.37
		L	21 25 17	LR	23	33.4 (3)		
		L	21 25 37	R	1.4	20.4 (2)		
27	LC	eP	21 23 21.6	Z	1.1	15.2 (1)	17.0	4.74
		eP	21 23 23	LZ	19	19.3 (2)		
		e	21 24 28	Z	1.3	82.0 (0)		
		S	21 26 30	LR	22	13.8 (2)		
		e	21 27 37	R	2.0	18.9 (1)		
		L	21 28 05	LR	25	11.0 (2)		
		L	21 28 20	R	3.0	22.4 (2)		
27	CP	eP	21 24 20.3	Z	1.0	46.0 (0)	22.0	4.56
		eP	21 24 25	LZ	15	20.9 (2)		
		e	21 25 33	Z	1.2	25.0 (0)		
		S	21 28 30	LT	19	34.6 (2)		
		L	21 31 34	R	3.0	33.0 (1)		
		LR	21 32 12	LZ	20	67.9 (2)		
27	FM	eP	21 24 50.3	Z	0.8	56.0 (0)	25.0	4.99
		eP	21 24 54	LZ	15	11.8 (2)		
		e	21 29 32	LR	22	17.0 (2)		
		L	21 32 32	Z	3.0	23.6 (2)		
		LR	21 32 35	LZ	20	64.8 (2)		
27	MN	eP	21 25 09.5	Z	1.4	28.2 (1)	27.0	5.45
		eP	21 25 10	LZ	16	68.7 (1)		
		S	21 29 54	LR	20	10.4 (2)		
		L	21 32 18	LT	28	42.1 (2)		
27	WI	eP	21 25 26.9	Z	1.0	58.0 (0)	29.0	5.06
		e	21 26 10	Z	1.0	29.0 (0)		
		S	21 30 15	LR	22	25.7 (2)		
		L	21 33 45	LT	25	81.6 (2)		
27	MV	eP	21 25 28.0	Z	1.8	66.0 (0)	29.0	4.86
		eP	21 25 28	LZ	20	59.8 (1)		
		S	21 30 20	LR	24	10.1 (2)		
		L	21 33 30	LR	24	25.4 (2)		
		LR	21 35 00	Z	2.5	16.2 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	NG	eP	21 25 39.7	Z	1.0	42.0 (0)	30.0	4.92
		e	21 26 48	Z	1.3	87.4 (0)		
		e	21 31 13	LT	22	18.4 (2)		
		L	21 34 18	LT	35	24.3 (2)		
		LR	21 38 17	LZ	16	10.3 (3)		
27	DH	eP	21 26 04.8	Z	1.0	10.0 (1)	33.0	5.33
		LR	21 35 34	LZ	25	21.0 (2)		
						AVG.		5.03
27	NG	eP	21 39 44.1	Z	0.3	5.0 (0)	0.5	
		S	21 39 52	R	0.4	30.0 (0)		
		e	21 39 55	Z	1.0	25.0 (0)		
27	CP	eP	22 15 49.1	Z	0.2	2.0 (0)	0.8	
		S	22 16 00	R	0.3	7.0 (0)		
27	MV	eP	22 49 43.5	Z	0.3	18.0 (0)	0.2	
		S	22 49 48	R	0.4	14.0 (0)		
27	LC	eP	23 00 30.8	Z	0.8	6.0 (0)		
27	FM	eP	23 48 48.2	Z	0.5	34.0 (0)	1.3	
		S	23 49 05	R	0.6	24.0 (0)		
28	00 51	54.7	36.6 N 071.6 E	HINDU KUSH				
			H =108 KM					
28	04 05	24.6	01.4 N 097.5 E	NEAR SUMATRA				
			H =074 KM					
28	06 17	10.2	28.7 S 179.9 W	KERMADEC ISLANDS				
			H =375 KM					
28	13 26	19.5	45.7 N 083.1 E	KAZAKH. S. S. R.				
			H =025 KM					
28	14 12	45.8	32.7 S 178.0 W	KERMADEC ISLANDS				
			H =104 KM					
28	14 14	45.2	14.9 N 108.6 W	NEAR JALISCO, MEXICO				
			H =043 KM					
29	01 52	25.4	51.8 N 157.2 E	NEAR KAMCHATKA				
			H =155 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MV	eP	02 01 47.6	Z	0.6	25.0 (0)	56.0	4.97
		e	02 02 14	T	0.6	5.0 (0)		
		PCP	02 02 45	Z	0.5	12.0 (0)		
29	WI	eP	02 01 54.0	Z	1.0	52.0 (0)	57.0	5.12
29	MN	eP	02 02 04.9	Z	0.6	26.0 (0)	58.0	4.99
29	FM	eP	02 02 24.0	Z	0.7	39.0 (0)	61.0	5.01
		e	02 02 50	Z	0.6	7.0 (0)		
29	CP	eP	02 02 32.7	Z	0.5	3.0 (0)	62.0	4.38
		e	02 02 38	Z	0.7	19.0 (0)		
29	NG	eP	02 03 08.6	Z	0.7	35.0 (0)	68.0	5.00
29	LC	iP	02 03 16.2C	Z	0.7	20.0 (0)	69.0	4.70
29	DH	eP	02 03 57.4	Z	0.6	15.7 (1)	76.0	5.66
		e	02 04 24	Z	0.7	25.0 (0)		
29	SJ	eP	02 04 06.1	Z	0.7	38.9 (0)	78.0	4.95
						AVG.		4.97
29	03 07	02.5	58.6 N 137.4 W	LITUYA BAY, ALASKA REGION				
			H =025 KM					
29	MV	eP	03 11 52.5	Z	0.6	3.7 (0)	22.0	3.70
29	WI	eP	03 11 53.2	Z	1.2	20.0 (0)	22.0	4.12
29	MN	eP	03 12 17.3	Z	1.0	23.0 (0)	24.0	4.36
29	FM	eP	03 12 31.2	Z	0.5	3.7 (0)	26.0	3.77
29	NG	eP	03 13 34.6	Z	0.8	26.0 (0)	33.0	4.91
29	LC	eP	03 13 40.0	Z	1.0	5.0 (0)	33.0	4.07
						AVG.		4.15
29	LC	eP	06 35 53.5	Z	0.9	6.0 (0)		
29	LC	eP	12 29 14.0	Z	0.8	9.0 (0)		
29	WI	eP	12 30 47.5	Z	1.0	5.0 (0)		
29	WI	eP	13 12 21.4	Z	0.4	11.0 (0)	2.1	
29	MV	eP	13 12 23.1	Z	0.2	7.5 (0)	1.6	
29	MN	eP	13 12 33.5	Z	0.3	2.0 (0)	2.7	
29	MV	S	13 12 44	R	0.4	5.4 (0)	1.6	
29	WI	S	13 12 49	T	0.5	39.0 (0)	2.1	
29	MN	S	13 13 08	T	0.5	19.0 (0)	2.7	
29	13 32	30.8	05.4 N 081.9 W	SOUTH OF PANAMA				
			H =069 KM					
29	SJ	eP	13 38 11.4	Z	1.2	94.8 (0)	27.0	5.00
29	LC	eP	13 39 21.7	Z	1.0	12.0 (0)	35.0	4.48

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	FM	eP	13 40 28.9	Z	0.6	7.0 (0)	43.0	4.27
29	MN	eP	13 40 53.2	Z	0.8	19.0 (0)	47.0	4.77
29	WI	eP	13 41 05.5	Z	0.7	2.0 (0)	48.0	3.86
						AVG.		4.48
29	DH	eP	15 00 44.5	Z	0.3	21.0 (0)	3.4	
		S	15 01 27	R	0.5	31.0 (0)		
29	DH	eP	17 20 16.6	Z	0.3	42.0 (0)	1.6	
		S	17 20 39	R	0.4	57.0 (0)		
29	CP	eP	18 04 39.4	Z	0.2	5.0 (0)	2.2	
		e	18 04 50	Z	0.2	7.0 (0)		
		S	18 05 08	R	0.3	8.0 (0)		
29	CP	eP	18 55 12.4	Z	0.2	10.0 (0)	0.9	
		S	18 55 24	T	0.3	72.0 (0)		
29	CP	eP	18 56 49.6	Z	0.2	3.0 (0)	1.1	
		S	18 57 04	T	0.3	24.0 (0)		
29	CP	eP	18 57 43.7	Z	0.2	2.0 (0)	0.7	
		S	18 57 54	R	0.3	18.0 (0)		
29	19 31 08.8		79.2 N 002.7 E				SVALBARD REGION	
			H =025 KM					
29	NG	eP	19 39 29.1	Z	0.6	6.0 (0)	46.0	4.50
29	WI	eP	19 40 43.0	Z	1.0	7.0 (0)	55.0	4.34
29	FM	eP	19 40 51.2	Z	0.7	3.0 (0)	56.0	4.13
29	LC	eP	19 41 29.9	Z	0.8	3.0 (0)	62.0	4.17
						AVG.		4.28
29	20 09 01.9		00.5 S 127.4 E				HALMAHERA	
			H =025 KM					
29	WI	ePD	20 23 40.6	Z	1.0	2.0 (0)	110.0	5.10
		eP'	20 27 32.0	Z	1.0	5.0 (0)		
		PP	20 27 58	Z	1.0	10.0 (0)		
		PKKP	20 38 53	Z	1.0	12.0 (0)		
29	FM	eP'	20 27 40.1	Z	1.0	6.7 (0)	113.0	
		PP	20 28 29	Z	1.4	26.0 (0)		
		PKKP	20 38 30	Z	0.9	8.2 (0)		
		LR	21 01 07	LZ	29	27.4 (2)		
29	LC	eP'	20 27 52.3	Z	1.0	10.0 (0)	120.0	
		PP	20 29 17	Z	1.5	38.0 (0)		
		PKKP	20 38 04	Z	1.1	22.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	WI	eP	05 14 00.1	Z	0.5	9.0 (0)		
30	MN	eP	05 14 11.3	Z	0.5	5.0 (0)		
30	FM	eP	05 14 30.6	Z	0.4	7.7 (0)		
30	LC	tP	05 15 23.4C	Z	0.6	4.0 (0)		
30	CP	eP	06 02 08.2	Z	0.7	5.0 (0)		
30	MN	eP	06 02 12.3	Z	0.6	5.0 (0)		
30	WI	eP	06 02 20.3	Z	0.7	9.0 (0)		
30	FM	eP	08 07 13.6	Z	0.3	1.0 (0)	1.5	
		S	08 07 33	R	0.5	5.0 (0)		
30	MN	eP	08 12 02.8	Z	1.0	5.0 (0)		
30	WI	eP	08 12 03.5	Z	1.0	7.0 (0)		
30	LC	eP	08 18 45.7	Z	1.0	5.0 (0)		
30	WI	eP	08 20 50.9	Z	0.5	1.0 (0)		
30	MV	eL	08 38 25	LZ	22	6.8 (2)		
30	WI	e	08 38 35	T	0.5	3.0 (0)		
30	WI	e	08 39 52	R	0.9	4.0 (0)		
30	MN	L	08 40 13	LZ	26	90.2 (1)		
30	WI	eP	08 41 24.5	Z	0.8	5.0 (0)		
30	LC	L	08 42 56	LZ	20	63.5 (1)		
30	MN	eP	12 10 42.5	Z	0.8	3.0 (0)		
30	14 23 33.6		28.7 S 179.0 W				KERMADEC ISLANDS	
			H =292 KM					
30	CP	eP	14 35 40.1	Z	0.9	31.0 (0)	86.0	4.84
30	MV	eP	14 35 44.4	Z	0.9	9.8 (0)	86.0	4.34
30	MN	eP	14 35 51.3	Z	1.0	22.0 (0)	88.0	4.74
30	WI	eP	14 36 02.0	Z	1.0	10.0 (0)	90.0	4.40
30	FM	eP	14 36 10.2	Z	1.0	17.2 (0)	92.0	4.63
30	LC	eP	14 36 10.8	Z	1.0	15.0 (0)	92.0	4.58
						AVG.		4.59
30	WI	eP	15 21 25.0	Z	0.5	3.0 (0)		
30	WI	L	15 22 42	R	0.9	10.0 (0)		
30	MN	eP	15 32 50.6	Z	1.0	5.0 (0)		
30	FM	eP	15 33 11.8	Z	1.0	17.2 (0)		
30	LC	eP	15 33 14.2	Z	0.8	8.0 (0)		
30	MN	eP	16 52 53.6	Z	0.5	1.0 (0)		
30	MN	eP	17 42 10.5	Z	0.8	3.0 (0)		
30	CP	eP	18 11 57.4	Z	0.2	17.0 (0)	0.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		PS	20 39 12	LR	23	72.5 (1)		
		SKKP	20 41 53	Z	1.0	7.0 (0)		
		e	20 46 14	LR	20	72.8 (1)		
		L	21 07 47	LR	25	14.4 (2)		
29	NG	eP	20 28 01.3	Z	1.0	28.0 (0)	125.0	
		L	21 08 27	LZ	35	56.5 (2)		
29	MV	e	20 43 03	LT	24	12.3 (2)	107.0	
		LR	20 56 15	LZ	28	21.4 (2)		
29	MN	L	20 58 05	LZ	29	18.7 (1)	109.0	
						AVG.		5.10
29	LC	eP	21 07 21.7	Z	0.3	26.0 (0)	1.5	
		S	21 07 40	R	0.4	57.0 (0)		
29	CP	eP	21 16 44.0	Z	0.2	7.0 (0)	0.8	
		S	21 16 55	R	0.4	19.0 (0)		
29	NG	eP	21 40 09.0	Z	0.4	5.0 (0)	0.5	
29	NG	S	21 40 17	R	0.5	80.0 (0)	0.1	
		e	21 40 21	Z	1.0	23.4 (2)		
29	21 15 16.0		20.7 N 120.6 E				NEAR LUZON, PHILIPPINES IS	
			H = 094 KM					
29	22 38 27.8		20.1 S 169.0 E				LOYALTY ISLANDS	
			H = 051 KM					
30	00 05 56.1		12.9 N 143.0 E				MARIANA ISLANDS	
			H = 134 KM					
30	WI	eP	00 18 36.3	Z	0.8	3.0 (0)	89.0	4.17
30	MN	eP	00 18 37.3	Z	0.9	4.0 (0)	89.0	4.20
						AVG.		4.18
30	WI	eP	01 20 50.0	Z	0.3	6.0 (0)	2.0	
30	MV	eP	01 20 57.6	Z	0.3	5.9 (0)	1.7	
30	MN	eP	01 21 08.3	Z	0.5	3.0 (0)	2.7	
30	MV	S	01 21 20	R	0.5	4.2 (0)	1.7	
30	WI	S	01 21 23	T	0.6	76.0 (0)	2.0	
30	MN	S	01 21 43	T	0.6	19.0 (0)	2.7	
30	MN	eP	01 43 55.8	Z	0.7	3.0 (0)		
30	WI	eP	01 43 59.5	Z	0.7	4.0 (0)		
30	LC	eP	03 59 20.7	Z	0.7	2.0 (0)		

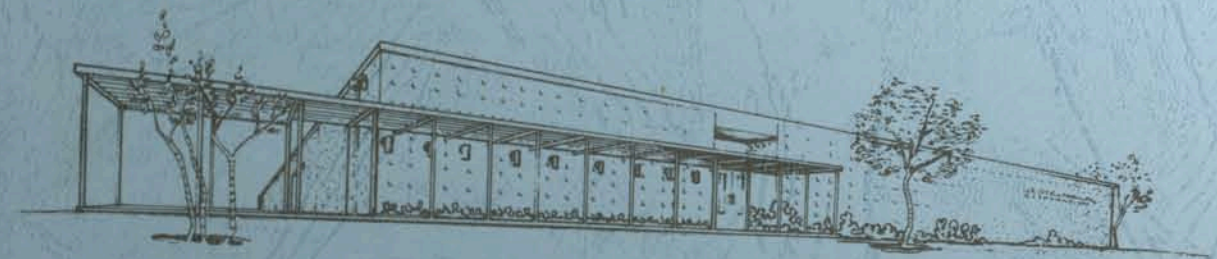
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	CP	S	18 12 02	T	0.4	37.0 (0)	0.2	
30	DH	eP	18 47 18.3	Z	0.3	37.0 (0)	2.1	
		S	18 47 46	R	0.4	65.0 (0)		
30	LC	eP	20 57 51.2	Z	0.3	21.0 (0)	1.4	
		S	20 58 09	R	0.4	23.0 (0)		
30	NG	eP	21 40 41.9	Z	0.3	4.0 (0)	0.1	
		S	21 40 43	R	0.4	19.0 (0)		
		e	21 40 46	Z	1.0	96.0 (0)		
30	LC	eP	22 21 06.0	Z	0.8	3.0 (0)		
31	01 16 42.9		15.9 S 173.9 W				TONGA ISLANDS REGION	
			H = 107 KM					
31	07 44 36.0		09.8 N 121.6 E				NEGROS ISLAND, PHILIPPINE	
			H = 156 KM					
31	23 36 44.3		34.0 N 048.0 E				WESTERN IRAN	
			H = 025 KM					

Gallopente

Bulletin No. 4
April 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM FOR APRIL 1962



H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No: VT/074
ARPA Order No: 104-60
ARPA Code No: 8100
Contractor: The Geotechnical Corporation
Garland, Texas
Contract No: AF 33(600)-41694

Bulletin No. 4
April 1962

6 November 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at nine of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, The Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system used the Sprengnether moving-coil seismometer. The short-period system used the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period system at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

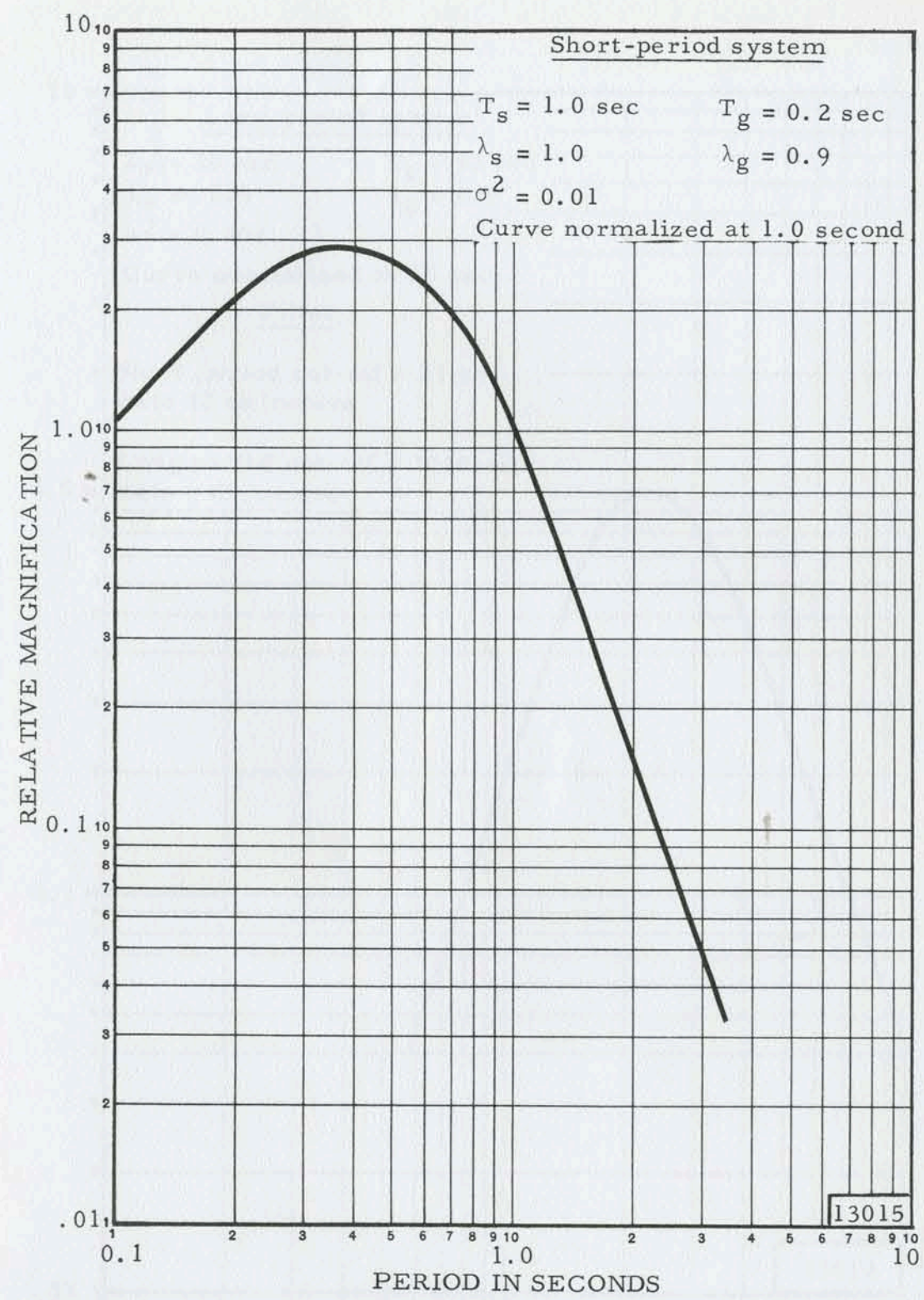


Figure 1. Frequency response of the short-period seismograph system

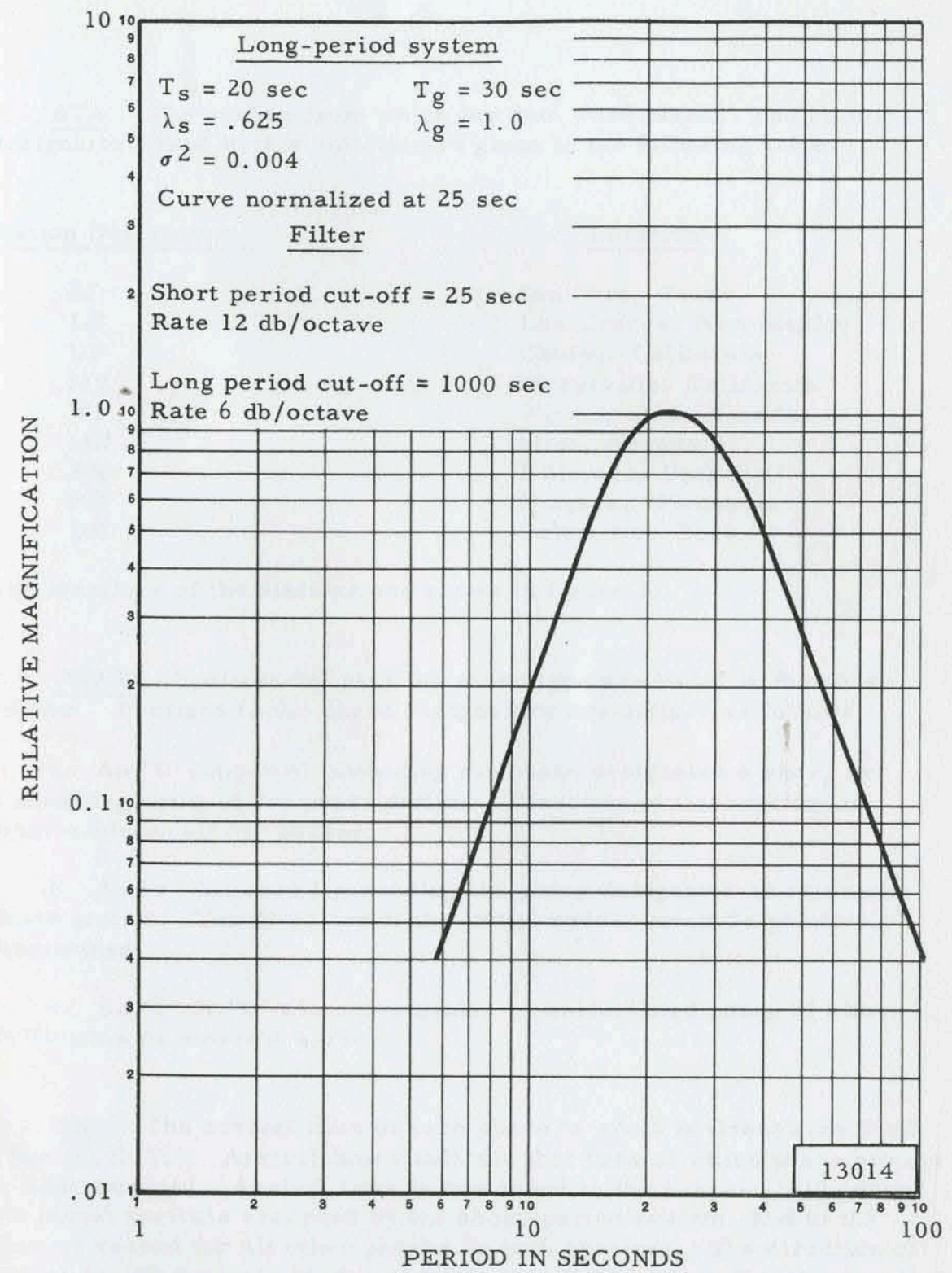
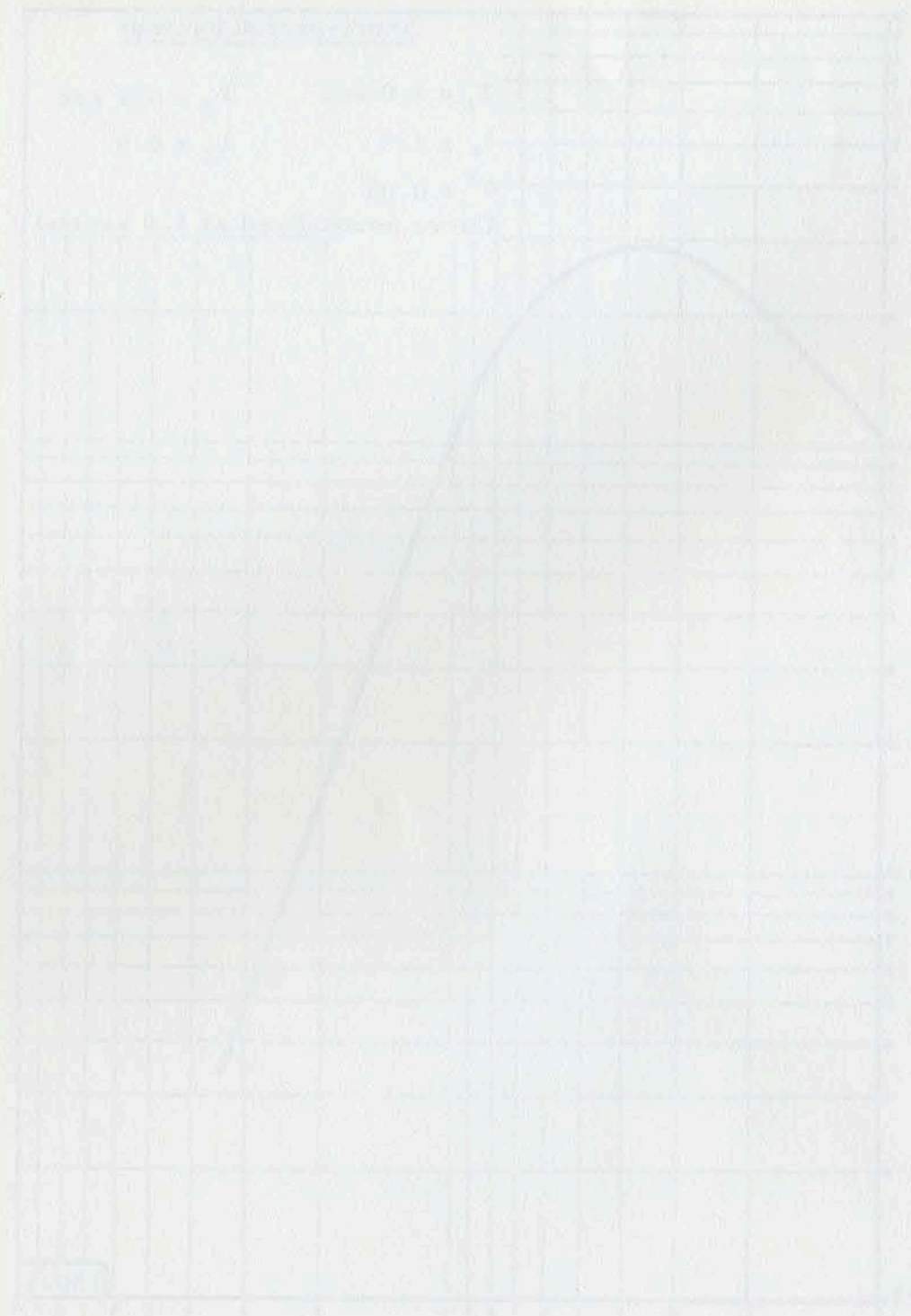


Figure 2. Frequency response of the long-period seismograph system



3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression or D (dilation) will appear immediately to the right of the tenths of second column.

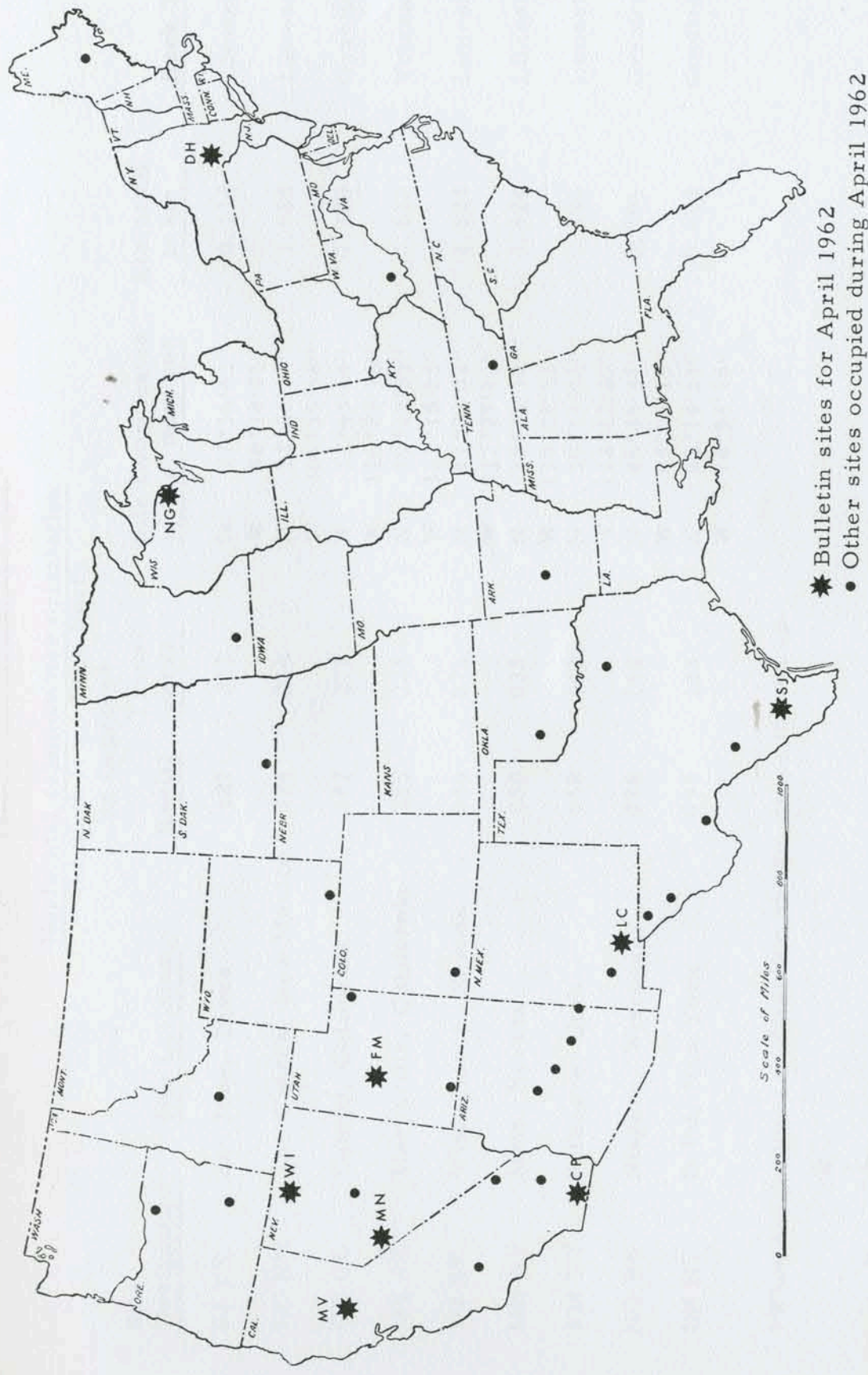


Figure 3. LRSB Program Sites

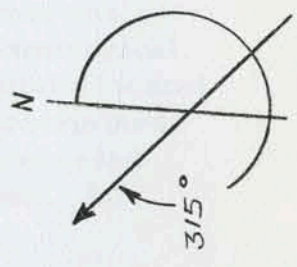
TABLE I

LRSM SITE INFORMATION

Horizontal seismometer orientation
Azimuth from True North
in Degrees*

<u>Site Designation</u>	<u>Site Location</u>	<u>Radial</u>	<u>Trans-verse</u>	<u>Site Coordinates in deg, min, sec</u>	<u>Elevation in km</u>	<u>Rock Type</u>
SJ TX	San Jose, Texas	127	217	N 27°36'43"	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98°18'46"	1.585	Limestone
CP CL	Campo, California	182	272	N 32°24'08"	1.189	Granite
MV CL	Marysville, California	295	025	W 106°35'58"	0.610	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32°43'44"	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116°22'16"	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39°13'36"	1.890	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121°18'05"	0.396	Granite
DH NY	Delhi, New York	095	185	N 41°21'02"	0.652	Sandstone
				W 117°27'30"		
				N 38°26'10"		
				W 118°08'53"		
				N 39°13'06"		
				W 112°12'25"		
				N 45°45'34"		
				W 88°09'15"		
				N 42°14'39"		
				W 74°53'18"		

*When earth moves in direction shown, trace moves up.



3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$30.0 (2) = 30 \times 10^2 = 3000 \text{ m}\mu$$

$$30.0 (1) = 30 \times 10^1 = 300 \text{ m}\mu$$

$$30.0 (0) = 30 \times 10^0 = 30.0 \text{ m}\mu$$

All amplitudes are corrected for instrument response and are measured peak-to-peak. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible.

See June

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log 10 A + B$$

where: m = Unified Magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival).

B = Log function of distance and depth.

The average magnitude $\frac{(\text{sum of station magnitudes})}{\text{number of stations}}$ is listed on the last line of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (H) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS)
or Berkeley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1
DCS/Operations

Headquarters United States Air Force
Washington 25, D. C.

ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	00 45	14.6	33.6 N 059.0 E H =033 KM		EAST IRAN			
1	WI	eSSS	01 22 45	LR	25	22.4 (1)	105.0	
		eLQ	01 34 35	LT	40	19.1 (2)		
		eLR	01 38 00	LZ	33	62.3 (1)		
1	NG	eLQ	01 30 00	LT	35	12.3 (2)	97.0	
		eLR	01 35 00	LZ	29	80.0 (1)		
1	MN	eLQ	01 34 50	LR	35	11.1 (2)	108.0	
		eLR	01 39 45	LZ	38	13.3 (2)		
1	DH	eL	01 35 00	LZ	26	21.9 (1)	94.0	
1	CP	eLQ	01 35 00	LT	42	15.0 (2)	114.0	
		eLR	01 48 00	LZ	24	52.2 (1)		
1	FM	eLQ	01 35 20	LT	35	31.1 (2)	108.0	
		eLR	01 44 00	LZ	22	14.0 (2)		
1	LC	eLQ	01 36 00	LR	35	14.2 (2)	113.0	
		eLR	01 45 00	LZ	27	65.3 (1)		
1	SJ	eLQ	01 37 00	LR	45	32.0 (2)	116.0	
1	MV	eLR	01 38 20	LZ	30	56.9 (1)	108.0	
1	MV	eP	00 52 28.1	Z	0.3	8.1 (0)	1.1	
		eS	00 52 47	R	0.4	10.4 (0)		
1	WI	eP	00 53 08.0	Z	0.5	0.7 (0)	3.6	
1	MN	eP	00 53 11.1	Z	0.3	0.8 (0)	4.6	
1	WI	eS	00 53 52	T	0.8	16.7 (0)	3.6	
1	MN	eS	00 54 07	T	0.6	1.8 (0)	4.6	
1	01 39	19.7	40.6 N 036.0 E H =025 KM		TURKEY			
1	02 18	31.8	07.6 S 130.9 E H =030 KM		WESTERN IRAN			
1	NG	eP	04 12 57.0	Z	0.8	10.3 (1)		
1	05 01	56.0	41.9 N 143.4 E H =055 KM		NEAR HOKKAIDO, JAPAN			
1	MV	eP	05 12 59.0	Z	0.8	3.9 (0)	69.0	4.50
1	WI	eP	05 13 03.8	Z	0.8	1.5 (0)	70.0	4.03
		eLR	05 36 00	LZ	25	23.0 (1)		
1	MN	eP	05 13 12.2	Z	0.9	2.9 (0)	71.0	4.27

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	05 13 20	Z	1.1	23.5 (0)		
		eL	05 31 00	LZ	20	23.6 (1)		
1	FM	eP	05 13 30.1	Z	0.9	8.4 (0)	75.0	4.67
		e	05 13 39	Z	0.7	11.3 (0)		
		e	05 14 02	Z	1.3	14.3 (0)		
		eLR	05 38 35	LZ	24	40.0 (1)		
1	CP	eP	05 13 40.8	Z	1.1	5.7 (0)	76.0	4.46
		e	05 13 50	Z	1.0	10.2 (0)		
		eL	05 39 00	LT	20	39.7 (1)		
1	NG	eP	05 14 09.5	Z	1.0	13.7 (0)	82.0	4.89
		eL	05 46 00	LZ	26	48.5 (1)		
1	LC	eP	05 14 14.7	Z	0.9	3.9 (0)	83.0	4.49
		e	05 14 24	Z	1.0	15.8 (0)		
		eLR	05 40 00	LZ	20	28.1 (1)		
1	DH	eP	05 14 50.5	Z	1.0	48.5 (0)	90.0	5.63
		eLR	05 48 00	LZ	25	21.9 (1)		
							AVG.	4.49
1	MN	eP	08 04 13.8	Z	0.3	0.8 (0)	1.0	
		eS	08 04 27	R	0.5	3.1 (0)		
1	MN	eP	08 29 23.9	Z	0.8	2.2 (0)		
1	WI	eP	08 29 34.1	Z	0.5	1.8 (0)		
1	CP	eP	08 30 35.6	Z	0.2	7.2 (0)	0.1	
		eS	08 30 40	T	0.3	1.7 (0)		
1	CP	eP	09 10 13.2	Z	0.2	0.9 (0)	3.7	
1	MN	eP	09 10 18.6	Z	0.5	0.6 (0)	3.7	
1	CP	e	09 10 19	Z	0.5	7.5 (0)	3.7	
1	MN	e	09 10 22	Z	0.5	12.6 (0)	3.7	
1	MV	eP	09 10 34.2	Z	0.5	3.4 (0)	4.6	
1	MN	e	09 10 39	Z	0.5	4.0 (0)	3.7	
1	CP	e	09 10 39	Z	0.5	5.9 (0)	3.7	
1	MV	e	09 10 40	Z	0.5	3.4 (0)	4.6	
1	CP	eS	09 10 59	T	0.7	9.6 (0)	3.7	
1	MN	eS	09 11 03	R	0.7	13.1 (0)	3.7	
1	MV	e	09 11 12	Z	0.5	3.9 (0)	4.6	
1	WI	eP	09 11 18.0	Z	0.4	0.4 (0)		
1	FM	eP	09 11 26.5	Z	0.4	1.1 (0)		
1	MV	eS	09 11 30	R	0.7	4.7 (0)	4.6	
1	WI	eL	09 12 37	R	0.7	2.4 (0)		
1	09 26 35.6		81.5 N 119.5 E				NORTH POLAR REGION	
			H =025 KM					
1	NG	eP	09 35 44.2	Z	0.7	6.9 (0)	52.0	4.72
1	WI	eP	09 35 59.5	Z	0.8	3.8 (0)	54.0	4.48

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MV	eP	09 36 09.0	Z	0.7	3.5 (0)	55.0	4.60
1	FM	eP	09 36 18.3	Z	0.7	5.2 (0)	57.0	4.67
		e	09 36 27	Z	1.0	15.5 (0)		
1	MN	eP	09 36 19.6	Z	0.8	2.2 (0)	57.0	4.26
		e	09 36 29	Z	1.2	10.4 (0)		
1	CP	eP	09 36 59.4	Z	0.8	2.7 (0)	63.0	4.31
1	LC	eP	09 37 08.1	Z	1.0	2.4 (0)	64.0	4.31
1	DH	eLR	10 00 00	LZ	18	10.1 (1)	56.0	
							AVG.	4.48
1	MN	eP	09 40 10.2	Z	0.3	2.9 (0)	0.7	
		eS	09 40 20	R	0.4	8.3 (0)		
1	WI	eP	09 40 37.8	Z	0.2	7.5 (0)	2.3	
		eS	09 41 07	T	0.5	8.3 (0)		
1	MV	eP	10 41 21.6	Z	0.4	2.7 (0)	2.3	
1	MN	eP	10 41 40.0	Z	0.5	0.6 (0)	3.1	
1	MV	eS	10 41 51	R	0.6	2.6 (0)	2.3	
1	MN	eS	10 42 19	T	0.5	1.9 (0)	3.1	
1	MN	eP	11 57 32.7	Z	0.5	1.6 (0)		
1	12 00 04.1		53.4 N 164.5 W				FOX ISLANDS	
			H =036 KM					
1	MV	eP	12 06 36.5	Z	0.5	2.1 (0)	33.0	4.30
		eS	12 12 00	LR	20	29.2 (1)		
		eLR	12 15 45	LZ	20	47.6 (1)		
1	WI	eP	12 06 46.0	Z	0.9	5.9 (0)	34.0	4.48
		e	12 06 59	Z	1.0	9.7 (0)		
		ePCP	12 09 25	Z	0.8	1.9 (0)		
		eLR	12 14 43	LZ	22	72.6 (1)		
1	MN	eP	12 06 58.0	Z	0.6	1.9 (0)	35.0	4.20
		e	12 07 19	Z	0.9	6.6 (0)		
		eLQ	12 15 00	LT	20	40.3 (1)		
		eLR	12 17 15	LZ	21	40.6 (1)		
1	FM	eP	12 07 23.3	Z	0.6	2.1 (0)	38.0	4.14
		e	12 07 34	Z	1.5	32.3 (0)		
		e	12 08 04	Z	1.5	16.1 (0)		
		eLR	12 16 28	LZ	22	41.7 (1)		
1	CP	eP	12 07 40.1	Z	0.8	3.6 (0)	41.0	4.19
		e	12 07 58	Z	1.0	10.2 (0)		
		eLQ	12 14 00	LT	20	29.7 (1)		
		eLR	12 18 00	LZ	15	65.8 (1)		
1	LC	eP	12 08 28.3	Z	0.6	3.0 (0)	46.0	4.43
		e	12 08 46	Z	1.0	12.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	12 15 00	LR	20	23.1 (1)		
		eLR	12 23 00	LZ	27	32.9 (1)		
1	NG	eP	12 08 41.8	Z	0.7	10.4 (0)	48.0	4.97
		eLR	12 27 00	LZ	23	72.9 (1)		
1	SJ	eP	12 09 32.5	Z	0.6	11.8 (0)	55.0	5.09
		e	12 09 48	Z	1.0	28.0 (0)		
		eLR	12 30 00	LZ	15	86.6 (1)		
1	DH	eP	12 09 53.0	Z	0.7	12.2 (0)	58.0	5.04
		eLR	12 32 00	LZ	23	17.5 (1)		
							AVG.	4.53
1	12 11 09.2		04.2 S 143.6 E				NEAR NEW GUINEA	
			H = 080 KM					
1	MV	eP	12 24 34.0	Z	0.6	1.9 (0)	97.0	4.84
		eSKS	12 35 02	R	3.0	14.9 (1)		
		eSKS	12 35 05	LR	14	45.8 (1)		
		eS	12 35 48	LT	18	10.1 (2)		
		e	12 36 41	LR	18	42.8 (1)		
		ePS	12 37 40	LR	14	11.4 (2)		
		eSS	12 42 30	LT	23	12.5 (2)		
		eLQ	12 51 35	LT	30	37.3 (2)		
		eLR	12 55 35	LZ	26	24.1 (2)		
1	MN	eP	12 24 44.5	Z	0.7	1.3 (0)	100.0	4.69
		e	12 25 19	Z	1.0	7.2 (0)		
		e	12 25 49	Z	0.8	2.2 (0)		
		ePP	12 29 04	Z	1.3	11.3 (0)		
		eSKS	12 35 15	LR	15	37.6 (1)		
		eSKS	12 35 19	R	2.2	41.3 (0)		
		eS	12 35 57	LT	28	48.4 (1)		
		ePKKP	12 41 09	Z	0.7	1.3 (0)		
		e	12 41 35	Z	0.8	2.8 (0)		
		eSS	12 43 10	LT	32	17.9 (2)		
		eLQ	12 52 13	LT	40	48.3 (2)		
		eLR	12 56 52	LZ	25	41.3 (2)		
		eLR	14 12 55	LZ	27	32.7 (1)		
1	WI	eP	12 24 47.0	Z	1.0	3.6 (0)	100.0	4.96
		e	12 25 11	Z	1.0	4.8 (0)		
		ePP	12 29 09	Z	1.2	6.0 (0)		
		eSKS	12 35 22	T	2.0	36.0 (0)		
		eS	12 36 15	LR	22	75.2 (1)		
		ePKKP	12 41 08	Z	0.6	1.0 (0)		
		eSS	12 43 15	LR	25	97.0 (1)		
		e	12 44 35	LR	20	48.9 (1)		
		e	12 46 36	LR	25	74.6 (1)		
		eLQ	12 50 00	LR	40	66.8 (2)		
		eLR	12 56 50	LZ	33	18.6 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	14 20 00	LZ	24	42.7 (1)		
1	CP	eP	12 24 52.5	Z	0.8	1.8 (0)	101.0	4.74
		ePP	12 29 00	Z	1.3	12.2 (0)		
		eSS	12 43 50	LT	20	79.2 (1)		
		eLR	12 57 00	LZ	26	16.7 (2)		
1	FM	eP	12 25 04.7	Z	0.8	1.0 (0)	104.0	4.81
		ePP	12 29 29	Z	1.3	10.7 (0)		
		eLQ	12 54 00	LT	25	17.0 (2)		
		eLR	12 59 34	LZ	25	16.8 (2)		
1	FM	eLR	14 19 25	LZ	24	32.0 (1)	256.0	
1	LC	ePD	12 25 52.6	Z	0.6	1.0 (0)	109.0	5.23
		e	12 30 30	Z	1.4	9.3 (0)		
		e	12 38 50	Z	1.1	3.1 (0)		
		ePKKP	12 40 52	Z	0.7	9.8 (0)		
		e	12 41 16	Z	0.7	4.9 (0)		
		eLQ	12 55 00	LT	43	47.1 (2)		
		eLR	13 02 00	LZ	26	14.7 (2)		
1	NG	eP	12 29 49.4	Z	0.7	6.9 (0)	119.0	
		eLQ	13 00 00	LT	33	21.5 (2)		
		eLR	13 07 00	LZ	28	27.8 (2)		
1	DH	eP	12 30 16.3	Z	0.9	1.3 (0)	129.0	
		e	12 30 35	Z	1.0	40.3 (0)		
		eSKP	12 33 22	Z	0.7	89.6 (0)		
		e	12 34 04	Z	1.0	64.6 (0)		
		eLQ	13 05 00	LT	40	13.6 (2)		
		eLR	13 11 00	LZ	35	68.2 (1)		
1	SJ	ePKKP	12 40 13.8	Z	0.6	7.9 (0)	118.0	
		eLQ	13 00 30	LT	37	81.3 (2)		
							AVG.	4.87
1	12 11 51.0		63.1 N 152.3 W				ALASKA	
			H = 100 KM					
1	WI	eP	12 17 51.6	Z	0.6	3.6 (0)	30.0	4.28
1	MV	eP	12 17 55.0	Z	0.7	10.7 (0)	30.0	4.69
1	MN	eP	12 18 12.0	Z	0.8	3.9 (0)	32.0	4.20
1	FM	eP	12 18 25.1	Z	0.8	5.4 (0)	34.0	4.43
1	CP	eP	12 19 01.0	Z	0.8	9.2 (0)	38.0	4.76
1	NG	eP	12 19 09.6	Z	0.6	8.7 (0)	39.0	4.96
1	LC	eP	12 19 34.3	Z	0.7	1.8 (0)	42.0	4.02
							AVG.	4.47
1	WI	eP	12 19 14.7	Z	0.3	11.5 (0)	0.7	
		eS	12 19 24	R	0.4	17.0 (0)		
1	WI	eP	14 16 37.3	Z	1.0	3.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	FM	eP	14 26 56.3	Z	0.2	3.7 (0)	1.5	
		eS	14 27 16	T	0.3	4.3 (0)		
1	SJ	eP	14 42 40.5	Z	0.7	9.4 (0)		
1	LC	eP	14 44 07.8	Z	0.7	1.8 (0)		
1	FM	eP	14 45 20.0	Z	0.7	1.7 (0)		
1	MN	eP	14 45 47.0	Z	0.9	2.9 (0)		
1	WI	eP	14 45 58.7	Z	0.6	1.5 (0)		
1	15 37 02.5		17.9 S 167.2 E				NEW HEBRIDES ISLANDS	
			H =053 KM					
1	MV	eP	15 49 49.5	Z	0.8	12.6 (0)	89.0	5.15
		eLR	16 17 23	LZ	25	48.2 (1)		
1	CP	eP	15 49 55.3	Z	0.7	9.3 (0)	89.0	5.07
1	WI	eP	15 50 05.9	Z	0.7	8.7 (0)	92.0	5.19
		eLR	16 19 15	LZ	28	39.8 (1)		
1	MN	eP	15 49 59.0	Z	0.6	8.7 (0)	90.0	5.12
		e	15 50 18	Z	1.0	8.1 (0)		
		eLR	16 18 17	LZ	25	39.0 (1)		
1	FM	eP	15 50 20.6	Z	0.8	2.1 (0)	95.0	4.63
1	LC	eP	15 50 28.6	Z	0.8	1.5 (0)	97.0	4.63
		eLR	16 22 00	LZ	22	19.9 (1)		
1	SJ	eLR	16 25 30	LZ	18	63.0 (1)	102.0	
1	DH	eL	16 37 00	LZ	25	87.7 (0)	102.0	
						AVG.		4.96
1	FM	eP	16 36 19.0	Z	0.2	18.7 (0)	1.0	
		eS	16 36 32	R	0.3	18.0 (0)		
1	FM	eP	17 34 07.8	Z	0.8	4.3 (0)		
1	WI	eP	17 34 32.8	Z	0.6	3.6 (0)		
1	FM	e	17 34 38	Z	0.8	2.1 (0)		
1	LC	eP	20 10 15.6	Z	0.2	1.1 (0)	2.4	
		e	20 10 22	Z	0.3	3.9 (0)		
		eS	20 10 46	T	0.5	1.8 (0)		
1	LC	eP	20 34 01.1	Z	0.2	8.7 (0)	1.5	
		eS	20 34 20	T	0.3	3.3 (0)		
1	MN	eP	20 49 49.3	Z	0.8	1.1 (0)		
1	FM	eP	22 25 11.0	Z	0.3	6.7 (0)	1.3	
		eS	22 25 27	T	0.5	2.0 (0)		
1	CP	eP	23 47 16.6	Z	0.2	13.2 (0)	1.3	
		eS	23 47 34	T	0.3	31.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	00 14 50.4		18.6 N 145.5 E				MARIANA ISLANDS	
			H =205 KM					
2	MV	eP	00 26 43.5	Z	0.5	6.9 (0)	81.0	4.64
		eP	00 26 47	LZ	15	11.4 (1)		
		epP	00 27 30	Z	1.0	30.0 (0)		
		e	00 35 55	LZ	35	67.6 (1)		
		e	00 36 32	LR	12	25.0 (1)		
		e	00 36 36	R	2.5	12.8 (1)		
		eSS	00 42 12	LR	17	36.8 (0)		
		eLR	00 51 10	LZ	25	28.9 (1)		
2	MN	eP	00 26 56.8	Z	0.5	2.0 (0)	84.0	4.11
		eP	00 27 05	LZ	15	19.6 (2)		
		epP	00 27 40	Z	0.8	7.0 (0)		
		eSP	00 28 00	Z	1.0	14.8 (0)		
		ePP	00 30 11	Z	1.2	15.2 (0)		
		e	00 37 00	R	4.0	43.4 (1)		
		e	00 37 05	LR	15	99.3 (1)		
		eSS	00 42 38	LR	20	51.9 (1)		
2	CP	eP	00 27 12.3	Z	1.0	15.4 (0)	87.0	4.79
		epP	00 28 02	Z	1.0	33.9 (0)		
		ePP	00 30 37	Z	2.0	66.2 (0)		
		e	00 37 22	R	2.0	82.4 (0)		
2	FM	eP	00 27 17.1	Z	1.0	37.4 (0)	88.0	5.17
		epP	00 28 05	Z	1.0	64.6 (0)		
		ePP	00 30 44	Z	1.5	22.5 (0)		
		eSKS	00 37 28	T	3.0	34.2 (1)		
		eSKS	00 37 30	LT	10	30.9 (2)		
		eS	00 37 43	R	3.0	45.6 (1)		
		e	00 51 12	LT	25	10.0 (3)		
2	LC	eP	00 27 50.1	Z	1.2	19.6 (0)	95.0	5.21
		epP	00 28 38	Z	1.0	31.2 (0)		
		ePP	00 31 38	Z	1.5	45.0 (0)		
		eSKS	00 38 10	R	3.0	17.1 (1)		
		eSKS	00 38 10	LR	15	83.7 (1)		
2	SJ	ePPS	00 42 35	LT	25	14.5 (2)	103.0	
		eL	00 59 50	LT	35	11.0 (2)		
2	NG	eL	01 06 59	LZ	20	50.5 (1)	99.0	
						AVG.		4.78
2	CP	eP	03 06 28.6	Z	0.3	4.0 (0)	3.6	
2	MN	eP	03 06 32.8	Z	0.7	2.5 (0)	2.8	
2	MV	eP	03 06 50.4	Z	0.4	2.4 (0)	5.5	
2	MN	eS	03 07 09	T			2.8	
2	CP	eS	03 07 14	R	0.4	25.5 (0)	3.6	
2	WI	eP	03 07 33.7	Z	0.5	1.7 (0)	6.5	
2	FM	eP	03 07 41.3	Z	0.5	2.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MV	eS	03 07 58	T	0.5	10.1 (0)	5.5	
2	WI	eS	03 08 52	T	0.7	8.8 (0)	6.5	
2	FM	eL	03 09 02	T	0.7	1.8 (0)		
2	WI	eP	15 37 52.8	Z	1.0	4.8 (0)		
2	WI	eP	16 31 46.6	Z	0.4	1.5 (0)	4.1	
		eS	16 32 37	R	0.5	12.4 (0)		
2	MN	eP	16 42 47.1	Z	0.5	0.6 (0)	3.2	
2	WI	eP	16 43 26.6	Z	0.5	0.8 (0)	6.5	
2	MN	eS	16 43 28	T	0.6	7.5 (0)	3.2	
2	WI	eS	16 44 44	T	0.7	10.1 (0)	6.5	
2	18 33 52.4		06.1 S 146.7 I				NEAR NEW GUINEA	
			H =060 KM					
2	SJ	eP	21 17 40.9	Z	0.3	30.3 (0)	0.7	
		eS	21 17 51	T	0.5	10.1 (1)		
3	01 21 34.8		09.6 S 074.7 W				PERU	
			H =125 KM					
3	SJ	eP	01 29 30.0	Z	0.6	31.6 (0)	44.0	5.14
3	DH	eP	01 30 31.2	Z	0.7	34.0 (0)	52.0	5.41
3	LC	eP	01 30 31.5	Z	1.0	12.2 (0)	52.0	4.76
3	NG	eP	01 31 04.6	Z	0.4	4.6 (0)	56.0	4.78
3	FM	eP	01 31 21.4	Z	1.0	17.2 (0)	59.0	4.96
3	MN	eP	01 31 48.8	Z	0.7	3.7 (0)	63.0	4.38
						AVG.		4.91
3	CP	eP	01 36 25.4	Z	0.2	14.7 (0)	0.4	
		eS	01 36 32	R	0.3	14.8 (0)		
3	FM	eP	03 03 22.6	Z	0.4	6.8 (0)	0.7	
		eS	03 03 32	T	0.4	3.5 (0)		
3	WI	eP	03 25 27.0	Z	0.3	13.5 (0)	0.8	
		eS	03 25 38	R	0.4	23.2 (0)		
3	MN	eP	05 40 24.0	Z	0.8	3.5 (0)		
3	CP	eP	05 51 45.0	Z	0.3	3.9 (0)	3.0	
3	MN	e	05 52 11	Z	0.5	1.3 (0)		
3	MV	eP	05 52 13.4	Z	0.6	5.0 (0)		
3	CP	eS	05 52 23	R	0.4	2.0 (0)	3.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MV	e	05 53 13	T	0.5	2.5 (0)		
3	15 40 12.1		04.5 S 143.2 E				NEAR NEW GUINEA	
			H =080 KM					
3	16 24 55.6		10.6 S 164.9 E				SANTA CRUZ ISLANDS	
			H =036 KM				MAG 5.50-	PAL
3	MV	eP	16 37 27.9	Z	0.8	17.7 (0)	85.0	5.23
		e	16 37 39	Z	1.0	56.3 (0)		
		e	16 47 56	LR	19	38.2 (1)		
		eSP	16 48 57	LZ	20	50.9 (1)		
		e	16 49 55	LR	20	53.2 (1)		
		eLG	16 59 30	LR	29	18.9 (2)		
		eLR	17 03 15	LZ	32	30.8 (2)		
3	CP	eP	16 37 37.5	Z	0.9	14.9 (0)	87.0	5.15
		e	16 37 50	Z	0.9	14.9 (0)		
		ePS	16 49 29	LT	28	10.8 (2)		
		eLG	17 01 19	LR	26	25.0 (2)		
		eLR	17 03 52	LZ	22	44.9 (2)		
3	MN	eP	16 37 38.0	Z	1.0	24.1 (0)	87.0	5.35
		e	16 37 50	Z	1.0	46.5 (0)		
		eS	16 48 12	LR	21	45.4 (1)		
		e	16 49 32	LZ	21	36.8 (1)		
		eSS	16 54 00	LR	20	53.8 (1)		
		eLG	17 00 36	LR	38	53.3 (2)		
		eLR	17 04 41	LZ	29	48.0 (2)		
3	FM	eP	16 37 50.6	Z	0.9	11.2 (0)	90.0	5.07
		e	16 38 23	Z	1.0	17.2 (0)		
		eS	16 48 59	LR	28	37.4 (1)		
		e	16 50 13	LR	23	51.1 (1)		
		eLG	17 02 01	LT	36	65.8 (2)		
		eLR	17 06 00	LZ	19	50.0 (2)		
3	LC	eP	16 38 15.7	Z	1.0	5.0 (0)	95.0	4.90
		ePP	16 42 09	Z	2.0	5.0 (0)		
		eS	16 49 35	LT	16	54.6 (1)		
		e	16 51 10	LT	26	39.6 (1)		
		eSS	16 55 52	LT	24	61.8 (1)		
		eSSS	16 59 52	LT	38	71.4 (2)		
		eLG	17 03 39	LT	30	25.4 (2)		
		eLR	17 09 14	LZ	24	36.1 (2)		
3	SJ	eSS	16 57 35	LT	24	25.4 (2)	101.0	
		eL	17 08 58	LT	22	57.3 (2)		
		eLR	17 11 25	LZ	19	29.5 (2)		
3	WI	eLG	17 01 29	LR	37	10.4 (3)	88.0	
		eLR	17 05 24	LZ	23	40.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	NG	eLQ	17 11 30	LT	39	41.3 (2)	110.0	
		eLR	17 15 49	LZ	21	46.2 (2)		
3	DH	eLQ	17 16 50	LT	35	16.8 (3)	119.0	
		eLR	17 24 35	LZ	26	54.6 (1)		
						AVG.		5.14
3	CP	eP	18 04 27.6	Z	0.4	6.1 (0)	2.0	
		eS	18 04 55	R	0.5	6.6 (0)		
3	18 37 47.5		20.8 S 169.4 E			LOYALTY ISLANDS		
			H =040 KM					
3	FM	eP	20 40 51.4	Z	0.5	6.3 (0)	1.7	
		eS	20 41 15	T	0.5	9.1 (0)		
3	NG	eP	21 41 00.3	Z	0.4	4.7 (0)		
3	NG	e	21 41 12	Z	1.0	55.0 (0)		
3	SJ	eP	21 53 33.9	Z	0.3	12.8 (1)	0.8	
		eS	21 53 44	T	0.5	22.4 (1)		
4	WI	eP	02 57 52.0	Z	0.7	3.7 (0)		
4	WI	e	02 58 12	Z	0.7	3.7 (0)		
4	FM	eP	02 58 14.4	Z	0.6	2.9 (0)		
4	LC	eP	03 48 10.0	Z	0.8	1.5 (0)		
4	MN	iP	04 05 37.7C	Z	0.3	2.9 (0)	0.9	
		eS	04 05 50	T	0.4	11.2 (0)		
4	05 41 07.4		34.1 N 025.2 E			CRETE		
			H =025 KM					
4	WI	eP	08 24 01.0	Z	0.3	8.0 (0)	1.2	
		e	08 24 03	Z	0.4	14.7 (0)		
		eS	08 24 16	R	0.5	17.7 (0)		
4	09 28 30.4		22.0 S 178.2 W			FIJI ISLANDS REGION		
			H =268 KM					
4	MN	eP	09 40 24.5	Z	1.0	3.5 (0)	83.0	4.12
						AVG.		4.12

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP	09 58 01.7	Z	0.9	1.9 (0)		
4	MN	eP	10 09 52.2	Z	0.3	1.1 (0)	1.2	
		eS	10 10 08	R	0.5	5.4 (0)		
4	LC	eP	10 50 30.0	Z	0.9	1.9 (0)		
4	WI	eP	10 50 34.7	Z	0.8	4.6 (0)		
4	WI	e	10 50 40	Z	1.2	16.1 (0)		
4	MN	eP	10 50 50.0	Z	0.7	9.0 (0)		
4	MN	iP	13 17 09.2C	Z	0.3	3.5 (0)	0.9	
		eS	13 17 21	R	0.5	4.7 (0)		
4	MN	iP	13 25 09.3D	Z	0.3	5.2 (0)	1.1	
		eS	13 25 24	R	0.5	15.5 (0)		
4	14 02 32.2		08.0 N 083.0 W			NEAR PANAMA		
			H =023 KM					
4	SJ	eP	14 07 53.5	Z	0.7	28.3 (0)	25.0	5.04
		eP	14 07 55	LZ	15	16.2 (2)		
		ePP	14 08 35	Z	1.4	38.4 (1)		
		e	14 11 35	LT	17	15.9 (2)		
		eS	14 12 13	LR	18	50.6 (2)		
		eL	14 15 02	LR	36	67.5 (3)		
4	LC	eP	14 09 07.5	Z	0.7	3.6 (0)	33.0	4.40
		eP	14 09 09	LZ	18	38.8 (1)		
		ePP	14 10 08	Z	1.2	11.9 (0)		
		ePP	14 10 10	LZ	22	49.4 (1)		
		e	14 11 57	Z	1.4	18.7 (0)		
		eS	14 14 25	LR	25	24.8 (2)		
		eL	14 18 52	LR	34	14.6 (2)		
4	DH	eP	14 09 25.5	Z	0.7	41.7 (0)	35.0	5.48
		eL	14 16 44	LZ	28	75.3 (2)		
4	NG	eP	14 09 49.9	Z	1.0	28.2 (0)	38.0	5.01
		eS	14 15 39	LT	17	14.0 (2)		
		eLQ	14 19 29	LR	25	46.1 (2)		
		eLR	14 21 42	LZ	23	92.9 (2)		
4	CP	eP	14 10 08.2	Z	0.8	9.9 (0)	40.0	4.54
		eS	14 16 22	LT	21	21.9 (2)		
		eLQ	14 19 42	LR	35	40.9 (2)		
		eLR	14 22 50	LZ	25	67.6 (2)		
4	MN	iP	14 10 42.3C	Z	0.7	14.5 (0)	44.0	4.82
		eP	14 10 43	LZ	17	38.3 (1)		
		e	14 11 19	Z	1.5	10.1 (1)		
		eS	14 17 22	LR	20	21.4 (2)		
		e	14 18 10	LR	28	20.1 (2)		
		eL	14 23 00	LT	26	61.1 (2)		
4	WI	eP	14 10 51.2	Z	0.7	8.7 (0)	45.0	4.75

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	14 12 55	T	1.2	1.2 (0)		
		eS	14 17 20	LT	23	12.1 (2)		
		eLQ	14 21 25	LR	20	10.7 (2)		
		eLR	14 26 10	LZ	25	54.0 (2)		
4	MV	eP	14 11 04.6	Z	0.7	5.9 (0)	47.0	4.76
		eP	14 11 10	LZ	17	32.2 (1)		
		eS	14 17 50	LR	23	21.2 (2)		
		eL	14 24 35	LT	35	48.2 (2)		
		eL	14 26 20	LZ	27	39.8 (2)		
							AVG.	4.85
4	15 16 07.9		07.7 N 082.9 W				PANAMA-COSTA RICA	
			H =025 KM					
4	MN	eP	15 24 15.5	Z	0.8	2.2 (0)	44.0	3.95
4	WI	eP	15 24 25.1	Z	0.7	2.4 (0)	45.0	4.20
							AVG.	4.08
4	MN	eP	15 33 11.7	Z	0.7	3.6 (0)		
4	WI	eP	16 12 06.2C	Z	0.3	41.8 (0)	1.5	
4	MV	eP	16 12 12.7	Z	0.3	8.9 (0)	2.3	
4	MN	eP	16 12 21.4	Z	0.3	4.6 (0)	2.6	
4	WI	eS	16 12 27	R			1.5	
4	MV	eS	16 12 43	R	0.5	44.9 (0)	2.3	
4	MN	eS	16 12 55	R	0.5	22.2 (0)	2.6	
4	WI	eP	17 01 17.6	Z	0.5	1.8 (0)	3.9	
		eS	17 02 06	T	0.7	8.6 (0)		
4	DH	eP	19 35 49.4	Z	0.3	10.7 (0)	1.5	
		eS	19 36 10	T	0.5	24.8 (0)		
4	19 55 12.8		35.0 N 025.6 E				CRETE	
			H =027 KM					
4	20 51 05.2		34.7 N 025.5 E				CRETE	
			H =021 KM					
4	NG	eP	21 03 14.5	Z	0.7	7.1 (0)	80.0	4.69
							AVG.	4.69
4	20 59 36.1		34.6 N 025.5 E				CRETE	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	DH	eP	21 11 14.2	Z	1.0	16.5 (0)	74.0	4.97
4	NG	eP	21 11 45.0	Z	0.8	8.8 (0)	80.0	4.71
4	WI	eP	21 13 08.3	Z	0.8	1.5 (0)	97.0	4.66
							AVG.	4.78
4	MV	eP	21 48 24.5	Z	0.3	32.5 (0)	1.8	
4	WI	eP	21 48 45.2	Z	0.5	1.8 (0)	4.3	
4	MV	eS	21 48 49	R	0.5	41.3 (0)	1.8	
4	WI	eS	21 49 37	R	0.7	13.5 (0)	4.3	
5	03 40 08.9		53.7 N 163.6 W				UNIMAK ISLANDS REGION	
			H =065 KM					
5	12 24 34.5		44.9 S 075.3 W				NEAR COAST OF S. CHILE	
			H =025 KM					
5	18 10 23.9		05.2 S 102.1 E				OFF COAST OF SUMATRA	
			H =036 KM					
5	19 45 58.4		16.2 S 167.5 E				NEW HEBRIDES ISLANDS	
			H =035 KM					
5	20 04 15.8		15.3 S 167.7 E				NEW HEBRIDES ISLANDS	
			H =126 KM					
5	21 27 53.7		38.4 N 119.3 W				CALIFORNIA-NEVADA BORDER	
			H =025 KM				MAG 4.25-4.50 BRK	
6	04 26 08.6		17.7 S 178.8 W				FIJI ISLANDS	
			H =593 KM					
6	06 50 52.6		04.2 S 143.3 E				NEW GUINEA	
			H =063 KM					
6	14 13 03.4		24.0 S 179.5 W				SOUTH FIJI ISLANDS REGION	
			H =538 KM					
6	16 50 14.2		26.7 S 113.2 W				EASTER ISLAND	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	20 24	40.6	23.4 S 179.7 W H =566 KM	SOUTH FIJI ISLANDS REGION				
7	02 10	02.2	06.3 S 079.9 W H =025 KM	NEAR COAST OF NORTH PERU				
7	LC	eP	02 18 28.0	Z	0.5	1.8 (0)	46.0	4.29
7	MN	eP	02 19 49.1	Z	0.9	4.2 (0)	57.0	4.48
		e	02 20 19	Z	0.9	2.8 (0)		
							AVG.	4.39
7	SJ	eP	06 20 52.0	Z	1.0	39.2 (0)		
7	06 21	38.4	10.0 N 144.4 E H =050 KM	CAROLINE ISLANDS REGION MAG 6.00- PAS				
7	MV	eP	06 34 21.5	Z	0.7	9.5 (0)	87.0	5.78
		epP	06 34 34	Z	1.5	22.5 (0)		
		eS	06 44 50	LR	20	14.9 (2)		
		e	06 57 57	LT	35	34.2 (2)		
		eLQ	07 02 05	LR	22	10.5 (2)		
7	MN	eP	06 34 33.0	Z	0.7	15.1 (0)	90.0	5.28
		epP	06 34 51	Z	1.4	63.0 (0)		
		e	06 35 27	Z	1.2	25.9 (0)		
		eS	06 45 25	LT	12	28.5 (2)		
		eSS	06 51 25	LT	30	73.0 (1)		
		eSSS	06 55 05	LR	30	69.8 (1)		
		eG	06 58 05	LT	45	85.1 (2)		
		eLR	07 03 37	LZ	25	21.0 (2)		
7	WI	eP	06 34 37.0	Z	0.7	18.9 (0)	91.0	5.48
		epP	06 34 49	Z	1.4	14.7 (1)		
		e	06 35 06	Z	1.0	22.5 (0)		
		e	06 35 34	Z	1.4	51.2 (0)		
		e	06 37 30	LT	22	22.3 (1)		
		ePP	06 38 09	Z	1.5	23.4 (0)		
		eS	06 45 30	LT	17	86.0 (1)		
		eSSS	06 55 15	LT	25	66.6 (1)		
		eG	06 58 05	LR	35	92.8 (2)		
		eLR	07 02 50	LZ	27	33.0 (2)		
7	CP	eP	06 34 48.1	Z	0.5	3.5 (0)	93.0	4.70
		epP	06 35 03	Z	1.2	31.4 (0)		
		ePP	06 38 34	Z	1.2	31.4 (0)		
		e	07 00 00	LR	25	12.4 (2)		
		eLR	07 03 40	LZ	25	27.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	FM	eP	06 34 53.8	Z	1.0	7.5 (0)	95.0	5.03
		epP	06 35 10	Z	1.2	40.1 (0)		
		eLQ	07 00 00	LR	28	85.9 (1)		
7	LC	eP	06 35 22.6	Z	0.7	2.5 (0)	101.0	4.80
		epP	06 35 40	Z	1.3	15.6 (0)		
7	NG	eLQ	07 09 00	LT	35	20.7 (2)	107.0	
		eLR	07 15 05	LZ	25	15.0 (2)		
7	SJ	eLQ	07 11 35	LR	20	85.7 (1)	108.0	
7	DH	eL	07 16 03	LZ	35	96.0 (1)	116.0	
							AVG.	5.18
7	LC	eP	06 22 18.2	Z	0.7	5.0 (0)		
7	MN	eP	06 24 04.0	Z	0.7	4.4 (0)		
7	WI	eP	06 24 11.0	Z	0.6	1.0 (0)		
7	WI	eP	06 24 14.2	Z	0.5	1.8 (0)		
7	SJ	eL	06 27 42	LR	22	64.0 (1)		
7	MN	eL	06 35 45	LT	28	54.9 (2)		
7	LC	eP	06 52 14.5	Z	1.0	5.0 (0)		
7	MV	eP	07 20 08.5	Z	0.5	6.9 (0)	1.9	
7	MN	eP	07 20 26.1	Z	0.5	0.6 (0)	2.8	
		e	07 20 32	Z	0.5	2.5 (0)		
7	MV	eS	07 20 35	T	0.6	26.3 (0)	1.9	
7	MN	eS	07 21 03	T	0.6	6.5 (0)	2.8	
7	WI	eP	07 21 05.1	Z	0.4	0.8 (0)	8.0	
		eS	07 22 40	R	0.5	7.6 (0)		
7	08 04	20.6	18.7 S 168.7 E H =023 KM	NEW HEBRIDES ISLANDS				
7	WI	eP	08 17 24.2	Z	1.0	5.0 (0)	91.0	4.80
							AVG.	4.80
7	LC	eP	08 54 46.6	Z	0.5	1.8 (0)		
7	LC	e	08 55 17	Z	1.0	12.5 (0)		
7	CP	eP	08 56 25.5	Z	0.7	4.8 (0)		
7	MN	eP	08 56 57.1	Z	0.8	2.2 (0)		
7	MN	e	08 57 06	Z	0.8	3.5 (0)		
7	MN	eP	10 25 20.5	Z	1.0	1.7 (0)		
7	10 32	28.1	15.2 S 177.6 W H =446 KM	FIJI ISLANDS REGION				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MN	eP	10 43 39.0	Z	0.7	2.6 (0)	78.0	3.93
7	WI	eP	10 43 50.0	Z	0.7	2.5 (0)	80.0	3.97
7	FM	eP	10 44 02.8	Z	0.7	3.5 (0)	82.0	4.14
						AVG.		4.01
7	FM	eP	12 32 06.5	Z	0.3	1.1 (0)	4.2	
		e	12 32 16	Z	0.5	5.1 (0)		
		eS	12 32 59	T	0.5	10.5 (0)		
7	13 00 26.3		35.1 S 070.8 W				CENTRAL CHILE	
			H =108 KM					
7	LC	eP	13 11 59.1	Z	0.6	8.4 (0)	75.0	4.75
		epP	13 12 21	Z	0.7	2.5 (0)		
		esP	13 12 35	Z	0.9	4.0 (0)		
7	FM	eP	13 12 44.0	Z	0.6	7.3 (0)	84.0	4.79
		epP	13 13 16	Z	0.7	3.5 (0)		
7	MN	eP	13 12 53.9	Z	1.0	5.3 (0)	86.0	4.42
		epP	13 13 17	Z	1.0	3.5 (0)		
7	WI	eP	13 13 03.0	Z	1.0	5.0 (0)	88.0	4.50
						AVG.		4.62
7	MV	eP	14 53 08.5	Z	0.5	4.1 (0)	1.7	
		eS	14 53 32	R				
7	FM	eP	14 54 10.6	Z	0.7	1.7 (0)		
7	DH	eP	15 00 41.5	Z	0.3	21.6 (0)	2.2	
		eS	15 01 11	R	0.4	37.4 (0)		
7	LC	eP	18 47 38.2	Z	1.0	2.5 (0)		
7	MN	eP	18 48 15.1	Z	1.0	7.0 (0)		
7	WI	eP	18 48 36.5	Z	1.0	7.5 (0)		
7	SJ	eL	19 06 50	LR	30	75.2 (1)		
7	MN	eL	19 06 55	LR	32	53.2 (2)		
7	DH	eP	19 09 26.0	Z	0.3	16.2 (0)	1.8	
		eS	19 09 50	R	0.4	32.0 (0)		
7	MV	eL	19 10 57	LZ	28	45.0 (1)		
7	19 44 44.9		10.3 S 161.4 E				SOLOMON ISLANDS REGION	
			H =075 KM					
7	20 56 48.4		07.3 S 130.4 E				TANIMBAR ISLANDS REGION	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	LC	eP	21 07 08.5	Z	0.4	7.4 (0)	1.2	
		eS	21 07 23	R	0.5	11.4 (0)		
7	21 35 28.1		40.9 N 020.3 E				ALBANIA	
			H =025 KM					
7	22 14 46.5		36.6 N 071.4 E				HINDU KUSH	
			H =105 KM					
7	23 04 12.2		15.0 N 060.5 W				WINDWARD ISLANDS	
			H =077 KM					
7	SJ	eP	23 11 19.4	Z	1.0	58.8 (0)	37.0	5.37
		eLQ	23 17 30	LR	25	42.4 (1)		
7	NG	eP	23 11 28.1	Z	1.0	27.4 (0)	38.0	5.04
		eLR	23 24 51	LZ	25	10.0 (2)		
7	LC	eP	23 12 24.3	Z	1.0	80.0 (0)	45.0	5.50
7	FM	eP	23 13 10.5	Z	1.2	40.1 (0)	51.0	5.35
		eLR	23 29 55	LZ	25	24.3 (1)		
7	CP	eP	23 13 26.5	Z	1.1	24.9 (0)	53.0	5.15
7	WI	eP	23 13 42.0	Z	0.7	20.2 (0)	55.0	5.27
		eLQ	23 30 20	LR	35	58.0 (1)		
7	MN	eP	23 13 42.7	Z	1.0	95.0 (0)	56.0	5.78
		eLR	23 29 00	LZ	25	12.5 (2)		
7	MV	eP	23 14 00.0	Z	1.0	45.6 (0)	58.0	5.45
		eLR	23 34 30	LZ	30	28.9 (1)		
7	DH	eL	23 18 38	LZ	30	17.5 (2)	30.0	
						AVG.		5.36
7	CP	eP	23 19 49.6	Z	0.3	9.3 (8)	1.8	
		eS	23 20 04	R	0.4	12.4 (0)		
8	00 53 16.6		16.1 S 167.3 E				NEW HEBRIDES ISLANDS	
			H =067 KM					
8	MV	eP	01 07 36.0	Z	0.4	49.9 (0)	2.6	
8	WI	eP	01 08 06.0	Z	0.5	2.7 (0)	4.3	
8	MV	eS	01 08 09	R	0.5	99.7 (0)	2.6	
8	FM	eP	01 08 57.2	Z	0.9	5.6 (0)	5.8	
8	WI	eS	01 08 59	R	0.7	27.8 (0)	4.3	
8	FM	eS	01 10 06	R	1.0	21.3 (0)	5.8	
8	MN	eP	01 26 06.8	Z	0.2		0.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	01 26 17	T	0.4	5.7 (0)		
8	01 43 49.3		37.6 S 073.9 W H =054 KM				NEAR COAST OF CHILE	
8	FM	eP	02 20 58.5	Z	0.3	4.5 (0)	1.4	
		eS	02 21 16	R	0.5	15.7 (0)		
8	NG	eP	03 02 42.9	Z	1.0	27.3 (0)		
8	03 56 14.4		51.4 N 177.8 W H =025 KM				ANDREANOF-ALEUTIAN IS.	
8	WI	eP	04 04 02.1	Z	0.5	1.0 (0)	42.0	3.83
8	MN	eP	04 04 13.6	Z	1.0	1.7 (0)	43.0	3.75
8	FM	eP	04 04 36.8	Z	0.5	2.5 (0)	46.0	4.46
8	LC	eP	04 05 38.0	Z	0.5	1.0 (0)	54.0	4.10
8	NG	eP	04 05 52.4	Z	0.6	11.5 (0)	56.0	5.08
							AVG.	4.24
8	04 28 40.5		04.1 S 141.5 E H =115 KM				NEW GUINEA	
8	05 15 03.0		20.3 S 175.7 W H =070 KM				TONGA ISLANDS	
8	MN	eP	05 27 03.8	Z	0.7	3.5 (0)	80.0	4.34
8	WI	eP	05 27 15.5	Z	0.9	4.0 (0)	82.0	4.34
8	FM	eP	05 27 26.5	Z	0.8	6.5 (0)	84.0	4.70
8	LC	eP	05 27 30.0	Z	1.2	31.8 (0)	85.0	5.21
							AVG.	4.65
8	CP	eP	05 25 00.1	Z	0.3	6.2 (0)	2.9	
		eS	05 25 37	R	0.4	9.3 (0)		
8	MN	eP	06 28 06.8	Z	0.3	6.3 (0)	0.7	
		eS	06 28 16	T	0.4	8.0 (0)		
8	CP	iP	08 01 33.3C	Z	0.2	9.0 (0)	1.3	
		eS	08 01 50	R	0.3	9.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	WI	eP	10 58 26.0	Z	0.8	2.0 (0)		
8	CP	iP	11 42 43.2D	Z	0.3	50.2 (0)	0.1	
		eS	11 42 47	T	0.4	12.1 (1)		
8	CP	iP	11 49 31.3D	Z	0.2	17.9 (0)	0.2	
		eS	11 49 36	T	0.3	64.6 (0)		
8	MV	eP	15 02 29.4	Z	0.3	6.3 (0)	1.8	
		eS	15 02 53	T	0.3	12.7 (0)		
8	LC	eP	16 21 09.0	Z	1.0	2.4 (0)		
8	LC	eP	17 13 22.0	Z	0.8	4.5 (0)		
8	MN	eP	19 04 29.8	Z	0.4	1.7 (0)	1.3	
		eS	19 04 46	R	0.4	13.5 (0)		
8	CP	eP	19 38 46.1	Z	0.2	3.0 (0)	1.5	
		eS	19 39 04	T	0.3	17.0 (0)		
8	MN	eP	20 30 22.0	Z	0.5	4.5 (0)	3.3	
		eS	20 31 03	T	0.6	10.2 (0)		
8	20 58 51.6		37.9 S 073.2 W H =043 KM				NEAR COAST OF CHILE	
8	WI	eP	20 58 53.1	Z	0.6	2.0 (0)		
8	LC	eP	21 35 41.0	Z	0.2	4.5 (0)	1.5	
		eS	21 35 59	R	0.5	8.0 (0)		
8	21 50 28.9		15.6 N 099.6 W H =048 KM				OFF COAST OF MEXICO	
8	SJ	eP	21 53 25.1	Z	0.6	31.4 (0)	12.0	5.46
		eP	21 53 25	LZ	12	20.0 (2)		
		e	21 56 40	LT	22	77.1 (2)		
		eL	21 57 12	R	2.5	59.0 (0)		
		eLR	21 58 10	LZ	18	10.2 (3)		
8	LC	iP	21 54 39.3C	Z	0.9	76.8 (0)	18.0	4.88
		eP	21 54 44	LZ	14	66.0 (1)		
		ePP	21 54 52	Z	0.7	23.3 (0)		
		eS	21 58 02	LT	23	14.2 (2)		
		eS	21 58 09	R	2.5	64.3 (0)		
		eL	21 59 15	LT				
		eL	22 00 05	R	6.0			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	eP	21 55 32.3	Z	1.0	9.6 (0)	23.0	4.18
		eS	21 59 54	LT	18	37.6 (2)		
		eL	22 02 12	LT	20	26.8 (2)		
8	MN	eP	21 56 20.4	Z	0.8	7.7 (0)	28.0	4.49
		ePP	21 57 03	Z	1.6	13.5 (0)		
		eS	22 01 10	T	5.0	35.3 (1)		
		eS	22 01 10	LR	23	13.7 (2)		
		eL	22 03 00	LT	25	22.7 (2)		
		eL	22 06 29	T	7.5			
8	WI	eP	21 56 37.7	Z	0.7	11.2 (0)	30.0	4.75
		eS	22 01 40	LR	22	12.9 (2)		
		eL	22 04 25	LT	37	34.1 (2)		
		eL	22 06 32	T	10.7			
8	NG	eP	21 56 52.5	Z	1.0	40.9 (0)	32.0	5.21
		eL	22 06 52	LZ	29	14.2 (2)		
8	DH	eP	21 57 20.0	Z	0.8	21.8 (0)	35.0	5.13
		eL	22 06 08	LR	34	21.6 (2)		
8	MV	eS	22 01 52	LR	23	57.6 (1)	31.0	
		eL	22 04 18	LT	35	24.4 (2)		
						AVG.		4.87
8	MV	eP	21 51 41.5	Z	0.3	9.5 (0)	1.7	
		eS	21 52 05	R	0.4	16.1 (0)		
8	22 09 31.4		54.8 N 165.0 W	UNIMAK ISLAND REGION				
			H = 025 KM					
8	NG	eP	22 17 58.0	Z	0.6	5.7 (0)	46.0	4.71
8	LC	eP	22 17 59.0	Z	1.0	4.8 (0)	47.0	4.51
						AVG.		4.61
8	WI	eP	22 16 02.0	Z	1.0	49.5 (0)		
8	MN	eP	22 18 00.0	Z	0.3	7.4 (0)	0.9	
		eS	22 18 12	T	0.5	12.0 (0)		
9	MN	iP	01 31 07.0C	Z	0.3	2.8 (0)	1.4	
		eS	01 31 24	R	0.4	10.9 (0)		
9	LC	eP	02 28 31.6	Z	1.0	4.9 (0)		
9	FM	eP	02 29 17.8	Z	0.6	2.9 (0)		
9	MN	eP	02 29 19.8	Z	1.0	7.0 (0)		
9	WI	eP	02 29 34.2	Z	0.9	6.0 (0)		
9	04 14 23.0		18.6 N 145.5 E	MARIANA ISLANDS				
			H = 200 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	MV	eP	04 26 16.3	Z	0.7	7.3 (0)	81.0	4.52
		epP	04 27 07	Z	0.7	4.9 (0)		
9	WI	eP	04 26 27.3	Z	0.8	12.3 (0)	83.0	4.69
		epP	04 27 18	Z	1.0	14.7 (0)		
9	MN	eP	04 26 30.0	Z	0.7	13.3 (0)	84.0	4.78
		epP	04 27 21	Z	1.0	21.1 (0)		
9	CP	eP	04 26 45.6	Z	0.8	5.5 (0)	87.0	4.44
		epP	04 27 37	Z	0.8	7.3 (0)		
9	FM	iP	04 26 50.0C	Z	0.7	10.4 (0)	88.0	4.77
		epP	04 27 41	Z	0.8	6.5 (0)		
9	LC	eP	04 27 22.0	Z	1.0	7.4 (0)	95.0	4.87
		epP	04 28 09	Z	1.2	4.0 (0)		
						AVG.		4.68
9	WI	eP	04 36 38.0	Z	0.7	1.2 (0)		
9	LC	eP	04 36 52.0	Z	0.9	4.0 (0)		
9	LC	eP	04 38 46.9	Z	0.7	1.2 (0)		
9	WI	eP	04 40 45.0	Z	0.7	2.4 (0)		
9	MN	iP	05 32 54.9C	Z	0.3	6.9 (0)	1.3	
		eS	05 33 11	T	0.4	9.8 (0)		
9	LC	eP	08 53 58.5	Z	0.9	4.0 (0)		
9	08 54 22.7		08.6 S 124.1 E	SAWOE SEA				
			H = 046 KM					
9	WI	eP†	09 13 08.0	Z	0.6	1.0 (0)	117.0	
		eSKP	09 16 37	Z	0.8	1.5 (0)		
9	MN	eP†	09 13 08.7	Z	1.0	3.5 (0)	117.0	
9	CP	eP†	09 13 14.0	Z	0.7	2.9 (0)	119.0	
9	FM	eP†	09 13 17.0	Z	0.7	1.7 (0)	121.0	
9	LC	eP†	09 13 28.9	Z	1.0	4.9 (0)	128.0	
		eSKP	09 16 40	Z	1.0	4.9 (0)		
9	DH	eP†	09 13 51.2	Z	0.7	8.4 (0)	142.0	
9	NG	eSKP	09 16 59	Z	0.6	17.3 (0)	134.0	
9	SJ	eSKP	09 17 09	Z	0.8	48.5 (0)	136.0	
9	10 23 49.9		08.7 N 126.5 E	NEAR MINDANAO, P. IS.				
			H = 100 KM					
9	CP	eP	10 50 36.4	Z	0.3	2.8 (0)	2.0	
		eS	10 51 03	R	0.4	12.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	CP	eP	11 06 37.8	Z	0.5	2.1 (0)	2.6	
		e	11 06 41	Z	0.7	11.8 (0)		
		eS	11 07 11	T	0.7	12.0 (1)		
9	LC	eP	11 07 39.6	Z	0.6	1.0 (0)		
9	LC	e	11 07 48	Z	0.7	9.9 (0)		
9	MN	eP	11 08 37.0	Z	0.8	1.1 (0)		
9	LC	eL	11 09 26	R	0.8	10.5 (0)		
9	MN	e	11 10 52	Z	1.2	5.7 (0)		
9	MN	e	11 11 22	R	2.0	49.6 (0)		
9	CP	eP	14 38 25.3	Z	0.3	3.8 (0)	1.3	
		eS	14 38 42	T	0.5	15.8 (0)		
9	MN	iP	15 18 28.7C	Z	0.3	8.0 (0)	0.9	
		eS	15 18 41	T	0.5	26.8 (0)		
9	DH	eP	20 04 01.3	Z	0.3	5.4 (0)	1.6	
		eS	20 04 23	R	0.4	22.0 (0)		
9	20 15 45.0		21.0 S 177.3 W H =630 KM				FIJI ISLANDS REGION	
9	MN	eP	20 27 00.6	Z	0.7	1.7 (0)	82.0	3.71
9	WI	eP	20 27 11.4	Z	0.8	3.1 (0)	84.0	3.96
9	FM	eP	20 27 22.5	Z	0.7	1.7 (0)	86.0	3.87
9	LC	eP	20 27 25.5	Z	0.7	2.4 (0)	87.0	4.02
							AVG.	3.89
9	LC	eP	20 42 25.5	Z	0.3	9.6 (0)	1.3	
		eS	20 42 42	R	0.4	9.5 (0)		
9	CP	iP	21 43 49.6C	Z	0.3	9.5 (0)	0.5	
		eS	21 43 57	T	0.4	20.9 (0)		
9	22 33 29.2		12.8 N 124.9 E H =044 KM				NEAR COAST OF SAMAR, P. I.	
9	MN	eP	22 40 02.2	Z	0.7	1.7 (0)		
9	SJ	iP	23 39 36.2C	Z	0.4	11.5 (1)	0.6	
		eS	23 39 45	T	0.6	15.6 (1)		
9	LC	eP	23 43 32.4	Z	0.3	5.6 (0)	2.0	
		eS	23 43 59	R	0.4	10.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	04 36 27.5		28.6 S 068.8 W H =130 KM					CHILE ARGENTINA BORDER
10	FM	eP	10 28 59.9	Z	0.3	5.0 (0)	1.5	
10	FM	eS	10 29 20	R	0.4	28.0 (0)	1.5	
10	10 31 58.5		51.1 N 157.7 E H =033 KM					NEAR COAST OF KAMCHATKA
10	MV	eP	10 41 35.8	Z	1.0	19.0 (0)	56.0	5.08
10	MV	eL	10 58 28	LZ	30	39.7 (1)	56.0	
10	WI	eP	10 41 42.3	Z	1.0	29.0 (0)	57.0	5.26
10	WI	e	10 42 26	Z	1.1	12.0 (0)	57.0	
10	WI	eL	10 59 30	LZ	32	62.8 (1)	57.0	
10	MN	eP	10 41 53.4	Z	1.0	54.0 (0)	58.0	5.53
10	MN	eL	10 59 45	LZ	28	44.6 (1)	58.0	
10	FM	eP	10 42 13.0	Z	0.8	22.0 (0)	61.0	5.30
10	FM	eL	11 01 58	LZ	28	35.0 (1)	61.0	
10	CP	eP	10 42 26.1	Z	1.2	15.0 (0)	63.0	4.93
10	NG	eP	10 42 58.9	Z	1.0	27.0 (0)	68.0	5.29
10	LC	eP	10 43 05.0	Z	1.0	17.0 (0)	69.0	5.09
10	LC	eL	11 05 47	LR	31	29.6 (1)	69.0	
10	DH	eP	10 43 48.2	Z	0.7	16.7 (1)	77.0	6.17
10	SJ	eP	10 43 55.3	Z	1.0	39.0 (0)	78.0	5.38
							AVG.	5.34
10	CP	eP	11 06 48.1	Z	0.2	9.0 (0)	1.3	
10	CP	eS	11 07 04	T	0.3	18.0 (0)	1.3	
10	LC	eP	12 22 30.4	Z	1.0	2.0 (0)		
10	12 34 50.8		37.3 S 072.6 W H =067 KM					NEAR COAST OF SOUTH CHILE
10	LC	eP	12 46 38.9	Z	0.7	2.0 (0)	77.0	4.00
		e	12 47 25	R	1.0	5.0 (0)		
10	FM	eP	12 47 21.0	Z	0.8	4.0 (0)	85.0	4.50
10	FM	eL	13 16 40	LZ	30	46.9 (1)	85.0	
10	WI	eP	12 47 40.4	Z	0.6	1.0 (0)	89.0	4.15
		e	12 48 33	Z	2.0	17.0 (0)		
		eL	13 18 46	LZ	20	34.8 (1)		
10	MN	eS	12 58 10	LT	19	32.7 (1)	87.0	
		eL	13 16 52	LZ	25	24.2 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	CP	eL	13 14 48	LZ	20	51.6 (1)	81.0	
10	MV	eL	13 18 20	LZ	20	25.4 (1)	88.0	
						AVG.		4.22
10	MV	eL	12 52 43	LZ	20	25.4 (1)		
10	13 10	34.6	30.1 S 177.7 W	KERMADEC ISLANDS				
			H = 046 KM					
10	14 09	18.8	37.5 S 073.8 W	NEAR COAST OF CHILE				
			H = 025 KM					
10	LC	eP	14 21 06.3	Z	0.9	6.0 (0)	76.0	4.64
		e	14 21 49	Z	1.2	16.0 (0)		
		eS	14 30 54	LT	20	31.1 (1)		
		eLR	14 47 12	LZ	23	78.6 (1)		
10	FM	eP	14 21 50.1	Z	0.7	4.0 (0)	85.0	4.68
		eL	14 51 50	LZ	28	26.2 (1)		
10	WI	eP	14 22 08.7	Z	1.0	2.0 (0)	88.0	4.32
		eL	14 53 12	LZ	21	83.3 (1)		
10	MN	eS	14 32 39	LT	20	35.4 (1)	87.0	
		eLQ	14 46 07	LR	35	29.1 (1)		
		eLR	14 51 32	LZ	27	34.5 (1)		
10	CP	eL	14 49 17	LZ	20	77.3 (1)	81.0	
10	MV	eL	14 52 50	LZ	22	25.4 (1)	88.0	
						AVG.		4.55
10	14 30	46.4	44.1 N 073.1 W	WESTERN VERMONT				
			H = 025 KM					
10	DH	tP	14 31 25.2D	Z	0.3		2.5	
10	NG	eP	14 33 19.5	Z	0.2	5.5 (0)	11.0	5.49
		eL	14 35 16	Z	0.5	21.0 (0)		
						AVG.		5.49
10	LC	eP	14 43 09.7	Z	0.8	2.0 (0)		
10	LC	eL	14 45 45	R	1.0	14.0 (0)		
10	LC	eP	14 58 11.9	Z	0.2	1.0 (0)	3.8	
		eS	14 58 58	T	0.5	3.0 (0)		
10	LC	eP	15 07 54.6	Z	0.2	2.0 (0)	3.9	
		eS	15 08 43	R	0.3	3.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	17 07	11.9	16.4 S 175.3 W	FIJI ISLANDS REGION				
			H = 330 KM					
10	CP	eP	17 18 17.2	Z	1.2	22.0 (0)	75.0	4.76
10	MV	eP	17 18 18.9	Z			75.0	
10	MN	eP	17 18 27.9	Z	1.0	54.0 (0)	77.0	5.23
10	WI	eP	17 18 38.8	Z	1.0	27.0 (0)	79.0	5.00
10	WI	ePP	17 21 40	Z	1.4	13.0 (0)	79.0	
10	FM	eP	17 18 51.5	Z	1.1	18.0 (0)	81.0	4.78
		epP	17 20 10	Z	1.5	22.0 (0)		
10	LC	eP	17 18 56.3	Z	0.9	16.0 (0)	82.0	4.82
		epP	17 20 12	Z	1.0	2.0 (0)		
						AVG.		4.92
10	CP	eP	17 10 14.9	Z	0.4	1.0 (0)		
10	CP	eL	17 11 02	Z	0.5	3.0 (0)		
10	CP	tP	18 03 59.2C	Z	0.2	7.2 (0)	0.3	
		eS	18 04 05	R				
10	LC	eP	18 05 20.9	Z	0.3	4.0 (0)	1.5	
10	LC	eS	18 05 40	T	0.4	6.0 (0)	1.5	
10	WI	eP	19 58 52.9	Z	1.0	2.0 (0)		
10	LC	eP	20 00 31.5	Z	1.0	5.0 (0)		
10	SJ	eP	20 13 21.0	Z	0.8	19.0 (0)		
10	SJ	eP	20 13 21	LZ	11	30.6 (2)		
10	LC	eP	20 14 19.0	Z	1.0	12.0 (0)		
10	LC	e	20 14 43	Z	1.1	16.0 (0)		
10	CP	eP	20 15 17.9	Z	0.9	4.0 (0)		
10	CP	e	20 15 42	Z	1.4	81.0 (0)		
10	FM	eP	20 15 44.5	Z	1.0	14.0 (0)		
10	FM	e	20 16 10	Z	1.0	35.0 (0)		
10	WI	eP	20 16 20.1	Z	0.7	2.0 (0)		
10	WI	e	20 16 26	Z	0.9	6.0 (0)		
10	WI	e	20 16 46	Z	0.8	9.0 (0)		
10	WI	e	20 16 51	Z	0.8	14.0 (0)		
10	SJ	eL	20 16 51	LR	18	42.0 (2)		
10	SJ	eL	20 17 38	T	2.0	91.5 (1)		
10	LC	eL	20 18 31	LT	16	40.4 (2)		
10	LC	eL	20 19 52	Z	3.0	29.4 (1)		
10	FM	eL	20 23 51	Z	4.0			
10	FM	eL	20 24 06	LR	28	83.1 (1)		
10	MN	e	20 24 13	LT	27	53.3 (1)		
10	WI	eL	20 25 24	LT	23	75.5 (1)		
10	WI	eL	20 25 55	T	3.8			
10	MN	eL	20 26 00	LT	16	21.3 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	NG	eP	20 28 05.9	Z	0.7	14.0 (0)		
10	20 32 19.4		49.1 N 128.5 W			COAST OF VANCOUVER ISLAND		
			H =025 KM					
10	WI	eP	20 34 59.0	Z	1.3	36.0 (0)	11.0	5.49
		e	20 35 05	Z	1.3	36.0 (0)		
		eL	20 37 57	LT	27	80.0 (1)		
10	MV	eP	20 34 59.0	Z	1.0	10.0 (0)	11.0	5.05
10	FM	eP	20 36 01.3	Z	1.0	14.0 (0)	16.0	4.08
10	CP	eP	20 36 43.7	Z	0.8	3.0 (0)	19.0	3.60
10	LC	eP	20 37 31.0	Z	1.0	2.0 (0)	24.0	3.57
		eL	20 44 49	LT	26	47.6 (1)		
10	MN	eL	20 38 30	LT	30	10.6 (2)	13.0	
						AVG.		4.36
10	NG	eP	21 29 51.3	Z	1.2	45.0 (0)		
10	NG	eP	21 30 49.8	Z	0.5	15.0 (0)		
10	NG	e	21 31 19	Z	1.0	12.4 (1)		
10	21 37 12.6		37.9 N 020.1 E			IONIAN SEA		
			H =035 KM			MAG 5.00-5.25		PAL
10	DH	eP	21 48 18.0	Z	1.5	25.8 (1)	69.0	6.10
		eS	21 57 25	LT	20	23.3 (2)		
		eSS	22 01 53	LR	19	12.8 (2)		
		eSSS	22 04 50	LT	22	18.3 (2)		
		eLQ	22 11 55	LT	27	23.3 (2)		
		eLR	22 15 20	LZ	20	70.0 (2)		
10	FM	eP	21 50 18.6	Z	1.0	21.0 (0)	92.0	5.42
		eP	21 50 24	LZ	10	40.9 (1)		
		e	21 50 57	Z	1.0	14.0 (0)		
		ePP	21 54 00	Z	3.0	33.6 (1)		
		eS	22 01 10	LT	24	94.5 (1)		
		eSS	22 07 22	LT	23	94.5 (1)		
		eLQ	22 18 54	LT	33	57.4 (2)		
		eLR	22 23 38	LZ	31	36.4 (2)		
10	WI	eP	21 50 21.4	Z	1.0	15.0 (0)	92.0	5.28
		eP	21 50 27	LZ	11	73.4 (1)		
		e	21 50 32	Z	1.6	56.0 (0)		
		e	21 51 05	T	1.8	52.0 (0)		
		ePP	21 54 03	Z	3.0	29.1 (1)		
		eS	22 01 28	LR	18	12.5 (2)		
		eSS	22 07 38	LR	25	91.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSKKS	22 14 30	LT	25	16.5 (2)		
		eLQ	22 17 30	LR	36	14.9 (2)		
		eLR	22 26 08	LZ	29	55.0 (2)		
10	SJ	eP	21 50 26.8	Z	0.9	16.0 (0)	94.0	5.38
		eP	21 50 32	LZ	10	29.6 (2)		
		eS	22 01 35	LR	18	38.5 (2)		
		eLQ	22 17 23	LR	56	10.5 (3)		
10	LC	eP	21 50 31.3	Z	1.0	12.0 (0)	95.0	5.28
		e	21 51 15	Z	1.4	25.0 (0)		
		ePP	21 54 19	Z	3.0	11.8 (1)		
		eS	22 01 43	LR	18	18.3 (2)		
		eSS	22 08 05	LR	21	16.8 (2)		
		eSSS	22 11 18	LR	23	95.9 (1)		
		eLQ	22 19 31	LR	38	39.9 (2)		
		eLR	22 25 47	LZ	23	24.4 (2)		
10	CP	eP	21 50 52.4	Z	0.9	7.0 (0)	99.0	5.35
		e	21 51 28	Z	1.0	4.0 (0)		
		ePP	21 55 00	Z	2.7	23.2 (1)		
		eSS	22 08 57	LT	27	20.8 (2)		
		eL	22 23 29	LT	30	23.0 (2)		
10	NG	eS	21 58 31	LT	17	36.2 (2)	75.0	
		eLQ	22 05 47	LT	39	55.8 (2)		
		eLR	22 10 24	LZ	29	36.3 (2)		
10	MN	eS	22 01 43	LR	20	85.0 (1)	94.0	
		e	22 04 10	LT	24	60.1 (1)		
		eSS	22 08 10	LR	23	11.2 (2)		
		eLQ	22 15 22	LR	22	11.2 (2)		
		eLR	22 23 45	LZ	29	36.0 (2)		
10	MV	eS	22 01 53	LR	18	10.1 (2)	96.0	
		eLQ	22 20 00	LR	35	17.0 (2)		
		eLR	22 35 10	LR	17	43.4 (2)		
						AVG.		5.47
10	22 10 50.3		38.1 N 020.4 E			IONIAN SEA		
			H =025 KM					
10	FM	eP	22 23 56.7	Z	1.0	7.0 (0)	92.0	4.95
10	WI	eP	22 24 05.0	Z	1.0	5.0 (0)	93.0	4.87
10	LC	eP	22 24 09.7	Z	1.1	13.0 (0)	95.0	5.27
						AVG.		5.03
10	FM	eP	23 00 28.3	Z	0.5	5.0 (0)	2.4	
		eS	23 00 59	T	0.6	29.0 (0)		
10	CP	eP	23 15 54.6	Z	0.2	3.6 (0)	1.0	
		eS	23 16 07	T	0.2	50.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	23 35	59.9	37.8 N 020.7 E H =025 KM				IONIAN SEA	
10	23 54	12.0	37.4 N 135.4 E H =382 KM				SEA OF JAPAN	
11	FM	eP	01 32 30.3	Z	0.7	1.7 (0)		
11	01 35	46.6	37.8 N 020.4 E H =025 KM				IONIAN SEA	
11	WI	eP	03 41 49.5	Z	0.7	1.2 (0)		
11	MN	eP	03 41 50.7	Z	0.7	0.9 (0)		
11	CP	{P eS	03 44 45.5D 03 44 54	Z T	0.3 0.4	32.8 (0) 30.6 (0)	0.6	
11	MN	eP	04 44 50.7	Z	0.8	1.1 (0)		
11	NG	eP	04 46 30.0	Z	0.6	5.1 (0)		
11	CP	eP eS	07 19 59.2 07 20 12	Z T	0.3 0.4	2.7 (0) 18.6 (0)	0.9	
11	09 19	22.0	26.9 N 127.1 E H =025 KM				RYUKYU ISLANDS	
11	WI	eP	09 32 20.4	Z	1.0	2.4 (0)	90.0	4.36
11	MN	eP	09 32 29.4	Z	1.0	1.8 (0)	92.0	4.37
							AVG.	4.37
11	09 33	36.4	36.5 N 071.6 E H =097 KM				HINDU KUSH	
11	10 47	34.0	38.2 N 020.0 E H =043 KM				IONIAN SEA	
11	NG	eP eS eL	10 59 11.2 11 08 51 11 20 29	Z LT LT	1.0 18 35	12.5 (0) 62.5 (1) 82.4 (1)	75.0	4.80
11	FM	eP	11 00 37.8	Z	0.9	5.6 (0)	92.0	4.90

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP eL eL	11 04 19 11 30 30 11 35 50	Z LT LZ	2.5 27 22	46.5 (0) 63.8 (1) 47.5 (1)		
11	WI	eP ePP eLQ eLR	11 00 41.3 11 04 13 11 37 15 11 43 05	Z Z LR LZ	0.7 2.5 28 20	2.4 (0) 64.9 (0) 58.4 (1) 55.0 (1)	92.0	4.66
11	SJ	eP eLQ	11 00 46.2 11 37 25	Z LT	0.7 30	9.4 (0) 79.7 (1)	93.0	5.29
11	LC	eP ePP eL	11 00 50.7 11 04 40 11 30 00	Z Z LR	0.8 1.3 27	3.1 (0) 5.1 (0) 39.8 (1)	94.0	4.73
11	MN	eP eLQ eLR	11 00 53.1 11 32 17 11 38 49	Z LT LZ	1.0 32 23	1.8 (0) 43.7 (1) 93.4 (1)	95.0	4.47
11	CP	eP*	11 01 12.3	Z	0.9	2.3 (0)	99.0	4.88
11	MV	eL	11 29 58	LR	35	38.2 (1)	95.0	4.82
							AVG.	4.82
11	WI	eP	10 53 55.6	Z	0.7	1.2 (0)		
11	10 57	37.8	09.0 N 126.9 E H =031 KM				E. COAST MINDANAO, P. I.	
11	LC	ePKKP e	11 27 05 11 30 03	Z Z	0.9 0.8	2.0 (0) 1.5 (0)	115.0	
11	LC	eP	12 21 00.8	Z	0.6	1.0 (0)		
11	CP	eP	12 21 30.5	Z	0.8	5.4 (0)		
11	FM	eP	12 22 37.3	Z	0.8	4.3 (0)		
11	MN	eP	12 22 43.4	Z	1.2	12.3 (0)		
11	WI	eP	12 23 13.1	Z	1.0	2.4 (0)		
11	LC	eL	12 23 14	R	0.7	11.9 (0)		
11	LC	eL	12 23 16	LR	17	12.8 (2)		
11	SJ	eL	12 24 28	R	1.0	4.2 (0)		
11	SJ	eL	12 24 30	LT	14	28.9 (2)		
11	LC	eP	14 42 13.9	Z	1.0	7.4 (0)		
11	FM	eP	14 42 59.2	Z	0.8	4.3 (0)		
11	CP	{P eS	15 58 20.7D 15 58 28	Z R	0.3 0.4	5.6 (0) 24.0 (0)	0.5	
11	MN	eP	19 09 40.8	Z	1.0	1.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	20 43	17.5	35.9 N H = 150 KM	071.1 E	HINDU KUSH			
11	23 21	26.3	00.2 S H = 025 KM	091.5 W	GALAPAGOS ISLANDS			
11	LC	eP	23 28 22.7	Z	1.0	69.1 (0)	35.0	5.54
		eP	23 28 23	LZ	15	27.4 (1)		
		ePCP	23 30 52	Z	1.0	4.9 (0)		
		eS	23 34 00	LR	20	25.2 (1)		
		eLQ	23 37 50	LR	28	13.7 (2)		
		eLR	23 39 32	LZ	18	29.8 (2)		
11	CP	eP	23 29 03.7	Z	1.0	23.0 (0)	40.0	4.81
		eL	23 41 50	LZ	20	27.8 (2)		
11	FM	iP	23 29 30.8D	Z	1.0	27.8 (0)	44.0	4.95
		eP	23 29 32	LZ	16	22.3 (1)		
		ePCP	23 31 18	Z	0.8	6.5 (0)		
		eLQ	23 41 30	LR	31	10.8 (2)		
		eLR	23 43 55	LZ	17	27.4 (2)		
11	NG	eP	23 29 46.8	Z	1.2	41.0 (0)	46.0	5.28
		e	23 29 55	Z	0.9	40.6 (0)		
		eL	23 44 23	LZ	27	15.9 (2)		
11	MN	iP	23 29 46.9D	Z	1.1	87.9 (0)	46.0	5.65
		eP	23 29 47	LZ	13	26.5 (1)		
		e	23 30 20	R	1.3	31.2 (0)		
		ePCP	23 31 24	Z	1.1	9.7 (0)		
		eS	23 36 45	LT	18	34.1 (1)		
		eLQ	23 42 35	LR	27	18.3 (2)		
		eLR	23 44 15	LZ	22	17.5 (2)		
11	WI	eP	23 30 01.4	Z	1.5	60.8 (0)	48.0	5.43
		eP	23 30 02	LZ	16	19.4 (1)		
		ePP	23 32 02	LZ	13	29.9 (1)		
		eS	23 37 12	LR	17	29.3 (1)		
		e	23 41 00	LR	19	24.7 (1)		
		eLQ	23 44 31	LR	26	78.4 (1)		
		eLR	23 46 58	LZ	19	25.3 (2)		
11	MV	eP	23 30 03.0	Z	0.9	11.8 (0)	48.0	4.94
		eP	23 30 05	LZ	15	25.9 (1)		
		eS	23 37 16	LR	18	29.0 (1)		
		eL	23 45 25	LZ	26	59.2 (1)		
							AVG.	5.23
11	MN	eP	20 47 32.0	Z	0.3	6.6 (0)	1.2	
		eS	20 47 47	T	0.4	8.2 (0)		
11	MN	iP	21 32 52.4C	Z	0.3	11.6 (0)	0.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MV	eS	21 33 05	T	0.4	17.9 (0)		
11	MV	eP	21 33 08.5	Z	0.3	20.5 (0)		
11	MV	eS	21 33 33	T	0.4	25.9 (0)		
11	LC	eP	21 54 13.4	Z	0.3	16.9 (0)	1.4	
		eS	21 54 31	T	0.5	26.1 (0)		
12	00 01	45.4	37.7 N H = 025 KM	020.0 E	IONIAN SEA			
12	00 52	47.0	38.2 N H = 068 KM	142.3 E	NEAR EAST HONSHU, JAPAN			7.00-7.25 PAS
12	05 16	05.0	38.2 N H = 026 KM	142.5 E	NEAR EAST HONSHU, JAPAN			
12	05 53	29.6	14.3 S H = 104 KM	166.8 E	NEW HEBRIDES ISLANDS			
12	07 00	52.3	38.0 N H = 125 KM	141.6 E	EAST COAST HONSHU, JAPAN			
12	11 20	02.3	10.4 S H = 084 KM	105.0 E	SOUTH OF JAVA			
12	16 36	08.4	28.7 S H = 034 KM	071.9 W	NEAR COAST OF NORTH CHILE			
13	WI	eP	01 55 30.1	Z	0.7	2.4 (0)		
13	MN	eP	01 55 42.8	Z	1.0	3.5 (0)		
13	LC	eP	01 57 12.9	Z	0.7	2.3 (0)		
13	02 19	07.9	01.0 N H = 037 KM	122.3 E	CELEBES			
13	LC	eP	03 38 10.6	Z	0.7	1.1 (0)		
13	MN	eP	05 23 56.2	Z	0.3	1.7 (0)	0.9	
		eS	05 24 08	T	0.5	4.4 (0)		
13	LC	eP	05 32 25.9	Z	0.7	1.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	MV	eP	15 03 54.1	Z	0.7	9.5 (0)		
13	15 38 47.3	38.4 N 119.2 W	CALIFORNIA-NEVADA BORDER					
		H =025 KM	MAG 4.75-5.00 PAS					
13	MN	eP	15 39 03.8	Z			1.0	
		eP	15 39 04	LZ	13	53.8 (2)		
13	MV	eP	15 39 19.1	Z			2.0	
		eP	15 39 22	LZ	10	24.6 (1)		
		e	15 39 45	LT	15	14.8 (3)		
13	WI	eP	15 39 40.1	Z	0.5	20.3 (0)	3.5	4.55
		eP	15 39 45	LZ	15	32.6 (1)		
		e	15 40 30	LT	15	54.6 (2)		
13	FM	eP	15 40 13.1	Z	0.5	6.4 (0)	5.5	4.61
		e	15 40 31	Z	0.8	50.6 (0)		
		e	15 40 40	LZ	20	24.2 (1)		
		e	15 41 42	LT	20	18.1 (2)		
		e	15 42 20	LZ	15	21.4 (1)		
13	CP	eP	15 40 23.2	Z	0.7	7.0 (0)	6.5	4.70
		e	15 40 28	Z	0.7	11.3 (0)		
		eLG	15 41 48	T	0.8	51.0 (0)		
		e	15 42 00	LT	12	55.2 (1)		
13	LC	eP	15 41 41.8	Z	1.0	6.9 (0)	12.0	4.76
		e	15 41 55	Z	1.0	9.2 (0)		
		eLG	15 44 58	T	1.6	18.4 (0)		
		e	15 45 00	LT	20	39.4 (2)		
							AVG.	4.66
13	CP	eP	16 12 08.4	Z	0.3	1.8 (0)	0.9	
		eS	16 12 21	T	0.4	16.7 (0)		
13	MV	eP	16 12 43.2	Z	0.4	23.6 (0)	1.7	
13	WI	eP	16 13 03.5	Z	0.5	0.8 (0)	4.3	
13	MV	eS	16 13 06	T	0.5	52.3 (0)	1.7	
13	WI	eS	16 13 56	T	0.7	9.7 (0)	4.3	
13	MN	eP	16 20 03.4	Z	0.5	3.8 (0)	0.9	
		eS	16 20 15	R	0.7	87.9 (0)		
13	MN	eP	16 31 42.6	Z	0.5	17.4 (0)		
13	MV	eP	16 32 00.0	Z	0.4	7.8 (0)	1.6	
		eS	16 32 22	T	0.5	43.2 (0)		
13	MV	eP	16 40 30.5	Z	0.5	57.6 (0)		
13	WI	eP	16 40 51.5	Z	0.5	15.2 (1)		
13	FM	eP	16 41 34.1	Z	0.5	1.2 (0)		
13	CP	eP	16 41 39.2	Z	0.6	2.3 (0)		
13	FM	e	16 41 42	Z	0.7	5.3 (0)		
13	FM	eL	16 42 52	R	0.7	88.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	CP	eL	16 43 14	T	0.7	7.0 (0)		
13	WI	eP	16 48 37.1	Z	0.5	4.4 (0)	3.3	
		e	16 48 49	Z	0.5	11.4 (0)		
		eS	16 49 18	T				
13	FM	eP	16 49 18.6	Z	0.5	1.2 (0)	6.0	
13	CP	eP	16 49 23.5	Z	1.0	2.8 (0)		
13	FM	eS	16 50 30	R	0.7	5.3 (0)	6.0	
13	MV	eP	17 04 40.2	Z	0.4	37.7 (0)	1.8	
		eS	17 05 05	T	0.5	70.0 (0)		
13	WI	eP	17 05 14.1	Z	0.5	1.7 (0)	3.4	
		eS	17 05 56	R	0.6	5.7 (0)		
13	MN	eP	17 06 54.6	Z	0.3	6.2 (0)		
13	MN	eL	17 08 08	T	0.5	18.9 (0)		
13	MN	eP	17 14 24.9	Z	0.5	7.0 (0)	0.9	
		eS	17 14 37	R	0.6	11.7 (0)		
13	MN	eP	17 29 59.2	Z	0.3	2.9 (0)	1.3	
		eS	17 30 15	R	0.5	6.3 (0)		
13	18 35 58.3	49.1 N 087.2 E	U.S.S.R.-CHINA BORDER					
		H =028 KM						
13	NG	eP	18 48 33.8	Z	1.0	27.6 (0)	85.0	5.37
13	WI	eP	18 48 44.7	Z	1.0	14.4 (0)	87.0	5.11
		eL	19 23 30	LT	25	14.2 (1)		
13	MN	eP	18 48 58.2	Z	0.7	7.9 (0)	90.0	5.03
		e	18 50 07	Z	1.2	5.7 (0)		
13	FM	eP	18 48 59.2	Z	1.0	7.0 (0)	91.0	4.92
13	CP	eP	18 49 24.1	Z	0.7	2.8 (0)	96.0	4.91
13	LC	eP	18 49 34.6	Z	0.7	2.3 (0)	98.0	4.97
							AVG.	5.06
13	MN	eP	18 46 07.0	Z	0.6	15.5 (0)		
13	WI	eP	19 18 29.6	Z	0.5	2.6 (0)	4.4	
		eS	19 19 23	R	0.6	11.3 (0)		
13	FM	eP	19 28 10.9	Z	0.5	9.0 (0)	2.0	
		eS	19 28 38	R	0.6	26.5 (0)		
13	CP	eP	19 31 43.4	Z	0.3	1.8 (0)	3.4	
		eS	19 32 26	T	0.4			
13	MN	eP	20 11 18.5	Z	0.4	2.9 (0)	1.4	
		eS	20 11 36	T	0.5	5.0 (0)		
13	20 21 06.5	38.3 N 119.2 W	MONO COUNTY, CALIFORNIA					
		H =025 KM	MAG 4.25-4.50 BRK					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	MN	eP	20 21 20.0	Z			0.8	
13	WI	eP	20 21 55.9	Z	0.5	18.5 (0)	3.0	4.37
13	FM	eP	20 22 30.1	Z	0.5	2.5 (0)	5.5	4.21
		e	20 22 47	Z	0.7	8.8 (0)		
		eLG	20 23 57	R	0.7	14.1 (0)		
13	CP	eP	20 22 44.1	Z	0.5	2.0 (0)	6.5	4.31
		eLG	20 24 13	T	0.7	4.2 (0)		
							AVG.	4.30
13	NG	eP	21 39 50.3	Z	1.0	69.0 (0)		
13	LC	eP	21 47 19.9	Z	0.4	3.8 (0)	1.5	
		eS	21 47 39	T	0.5	4.4 (0)		
13	MN	eP	22 40 29.8	Z	0.4	9.3 (0)	0.9	
		eS	22 40 42	R	0.5	13.5 (0)		
13	22 54 33.9		37.8 N 142.8 E				EAST COAST HONSHU, JAPAN	
			H =035 KM					
14	01 14 13.7		59.6 N 152.1 W				KENAI PENINSULA	
			H =078 KM					
14	07 53 17.1		40.3 N 125.1 W				OFF COAST OF N. CALIF.	
			H =025 KM					
14	MV	eP	07 54 05.3	Z	0.6	24.4 (0)	3.0	4.41
		eP	07 54 15	LZ	21	41.6 (2)		
		eL	07 55 10	LZ	16	55.5 (2)		
14	MN	eP	07 54 43.8	Z	0.4	18.0 (0)	6.0	4.70
		eS	07 56 55	LR	22	64.5 (1)		
		eL	07 57 03	LZ	18	18.2 (2)		
14	WI	eP	07 54 44.0	Z	0.2	11.8 (0)	6.0	4.52
		e	07 54 60	Z	0.8	60.0 (0)		
		eS	07 55 55	LR	20	47.4 (2)		
		eL	07 56 30	LZ	18	95.0 (1)		
14	FM	eP	07 55 43.5	Z	0.6	5.8 (0)	10.0	4.73
		eL	07 58 00	LR	32	28.9 (2)		
14	CP	eP	07 55 46.8	Z	0.5	2.0 (0)	10.0	4.44
		eL	07 57 30	LT	28	15.0 (2)		
14	LC	eP	07 57 18.1	Z	1.0	9.3 (0)	17.0	3.89
		eL	08 01 45	LT	33	13.1 (2)		
		eS	08 00 46	LT	19	51.9 (1)		
14	SJ	eP	07 58 50.6	Z	0.7	9.7 (0)	28.0	4.69

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 03 40	LR	18	10.8 (2)		
		eLQ	08 06 07	LT	40	12.2 (2)		
14	NG	eP	07 59 03.9	Z	0.7	13.9 (0)	28.0	4.69
							AVG.	4.50
14	CP	eP	11 17 48.1	Z	0.2	0.8 (0)	1.5	
		eS	11 18 06	R	0.3	12.4 (0)		
14	MN	eP	11 24 52.6	Z	0.2	33.7 (0)	0.9	
		eS	11 25 05	R	0.5	56.6 (0)		
		e	11 25 09	R	0.5	37.7 (1)		
14	MV	eP	11 25 21.0	Z	0.3	4.9 (0)	1.8	
14	WI	eP	11 25 41.9	Z	0.5	2.3 (0)	4.3	
14	MV	eS	11 25 45	R	0.3	38.6 (0)	1.8	
14	WI	e	11 25 53	Z	0.5	9.4 (0)	4.3	
		eS	11 26 34	R	0.5	14.1 (0)		
		e	11 26 37	T	0.5	9.2 (0)		
14	MN	eP	12 57 27.1	Z	0.4	18.0 (0)		
14	WI	eP	12 58 34.5	Z	0.5	2.3 (0)	5.0	
		e	12 59 34	T	0.7	6.4 (0)		
14	MN	eP	14 08 00.7	Z	0.2	33.7 (0)	1.0	
		e	14 08 02	Z	0.2	84.2 (0)		
		eS	14 08 14	T	0.4	54.2 (0)		
		e	14 08 17	R	0.4	57.6 (0)		
14	MV	eP	14 08 29.6	Z	0.2	10.4 (0)	1.7	
14	WI	eP	14 08 50.0	Z	0.2	1.9 (0)	4.5	
14	MV	eS	14 08 53	R	0.5	32.7 (0)	1.7	
14	WI	e	14 09 02	Z	0.5	2.3 (0)	4.5	
		eS	14 09 45	R	0.5	9.4 (0)		
14	LC	eP	14 42 19.5	Z	0.7	2.3 (0)		
14	MN	eP	16 15 21.1	Z	0.2	16.8 (0)	1.0	
		e	16 15 23	Z	0.2	16.8 (0)		
		eS	16 15 34	R	0.4	34.0 (0)		
		e	16 15 39	R	0.5	37.7 (0)		
14	MV	eP	16 15 50.0	Z	0.3	3.9 (0)	1.8	
		eS	16 16 14	R	0.4	9.8 (0)		
14	MN	eP	16 22 14.6	Z	0.2	16.8 (0)	1.3	
		eS	16 22 31	R	0.5	56.6 (0)		
14	MV	eP	16 22 43.2	Z	0.2	6.6 (0)	1.8	
		eS	16 23 07	R	0.3	7.5 (0)		
14	FM	eP	16 30 41.4	Z	0.2	2.1 (0)	1.5	
		eS	16 31 01	R	0.3	4.6 (0)		
14	16 50 05.8		38.2 N 142.5 E				OFF E. COAST HONSHU, JAPAN	
			H =053 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	FM	eP	17 01 54.5	Z	0.9	11.4 (0)	77.0	4.85
14	LC	eP	17 02 36.2	Z	0.7	2.3 (0)	85.0	4.47
							AVG.	4.66
14	CP	eP	18 27 44.0	Z	0.2	4.3 (0)	0.6	
		eS	18 27 53	R	0.3	9.7 (0)		
14	18 42 56.9		37.7 N 142.8 E				EAST COAST HONSHU, JAPAN	
			H = 044 KM					
14	CP	eP	19 00 18.1	Z	0.5	2.0 (0)		
14	CP	eP	19 26 42.6	Z	0.2	1.7 (0)	0.6	
		eS	19 26 51	R	0.3	6.2 (0)		
14	MV	eP	19 37 58.1	Z	0.2	1.8 (0)	1.4	
		e	19 38 04	Z	0.3	2.9 (0)		
		eS	19 38 15	R	0.4	43.6 (0)		
14	CP	eP	20 20 02.5	Z	0.2	0.8 (0)	1.6	
		eS	20 20 22	T	0.4	0.9 (0)		
		e	20 20 24	T	0.2	5.1 (0)		
14	LC	eP	21 28 44.7	Z	0.2	9.4 (0)	1.5	
		eS	21 29 04	T	0.3	7.5 (0)		
14	CP	eP	22 11 07.5	Z	0.2	5.2 (0)	0.8	
		eS	22 11 19	R	0.4	9.0 (0)		
14	CP	eP	23 05 41.5	Z	0.2	2.6 (0)	0.7	
		eS	23 05 51	T	0.3	7.2 (0)		
14	SJ	eP	23 21 22.2	Z	0.3	69.0 (0)	0.7	
		eS	23 21 32	R	0.4	14.1 (1)		
14	CP	eP	23 22 08.5	Z	0.2	2.0 (0)	1.1	
		eS	23 22 23	R	0.3	6.2 (0)		
14	FM	eP	23 44 47.3	Z	0.5	10.3 (0)		
15	CP	iP	04 11 24.6C	Z	0.2	3.3 (0)	0.6	
		eS	04 11 33	T	0.3	10.3 (0)		
15	MN	iP	05 01 49.6C	Z	0.3	25.0 (0)	0.8	
		eS	05 02 01	T	0.4	32.8 (0)		
15	MV	eP	05 02 06.3	Z	0.3	12.2 (0)	1.7	
15	WI	eP	05 02 25.8	Z	0.5	0.9 (0)		
15	MV	eS	05 02 29	T	0.4	64.5 (0)	1.7	
15	WI	e	05 02 38	Z	0.5	2.7 (0)		
15	WI	eS	05 03 17	R	0.7	7.3 (0)		
15	MN	eP	05 53 18.9	Z	0.3	2.2 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	05 53 36	R	0.4	14.5 (0)		
15	CP	eP	07 09 09.1	Z	0.3	1.8 (0)	2.6	
15	MN	eP	07 09 38.3	Z	0.5	1.9 (0)	4.6	
15	CP	eS	07 09 42	R	0.6	12.5 (0)	2.6	
15	MN	eS	07 10 34	T	0.7	15.0 (0)	4.6	
15	07 32 14.8		36.2 N 140.6 E				HONSHU, JAPAN	
							H = 123 KM	
15	WI	eP	07 43 46.3	Z	1.0	2.4 (0)	75.0	3.97
		e	07 44 00	Z	1.2	16.3 (0)		
15	MN	eP	07 44 00.8	Z	0.9	2.8 (0)	78.0	4.08
		e	07 44 08	Z	1.2	17.2 (0)		
15	FM	eP	07 44 11.5	Z	0.7	1.7 (0)	80.0	3.98
		e	07 44 25	Z	1.0	17.6 (0)		
							AVG.	4.01
15	CP	eP	08 31 30.8	Z	0.2	1.1 (0)	2.3	
		eS	08 32 01	T	0.5	5.3 (0)		
15	08 41 01.2		36.5 N 120.7 W				FRESNO COUNTY, CALIF.	
							H = 025 KM MAG 4.25-4.50 BRK	
15	MN	iP	08 41 44.9D	Z	0.5	9.7 (0)	2.8	
		eP	08 41 47	LZ	15	77.6 (1)		
		eL	08 42 40	LZ	17	26.4 (2)		
15	MV	eP	08 41 46.5	Z	0.5	19.4 (0)	2.9	
		eLG	08 42 32	LT	13	41.1 (2)		
15	CP	eP	08 42 15.1	Z	0.4	2.7 (0)	4.9	4.12
		eS	08 43 08	R	0.7	9.5 (0)		
		eL	08 44 08	LZ	17	52.6 (1)		
15	WI	eP	08 42 22.2	Z	0.5	5.4 (0)	5.5	4.42
		e	08 42 44	Z	0.6	23.1 (0)		
		eLG	08 43 50	R	0.7	12.7 (1)		
		eLG	08 43 57	LR	22	69.5 (1)		
		eL	08 44 42	LZ	10	67.4 (2)		
15	FM	eP	08 42 48.5	Z	0.5	1.3 (0)	7.0	4.09
		eLQ	08 44 40	R	0.7	8.7 (0)		
		eLQ	08 44 40	LT	18	94.6 (1)		
		eLR	08 45 48	LZ	10	24.7 (2)		
15	LC	eL	08 47 40	LT	18	62.2 (1)	12.0	
							AVG.	4.21

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eL	08 47 40	LT	18	62.2 (1)	12.0	
						AVG.		4.21
15	CP	eP	08 59 04.2	Z	0.3	0.9 (0)	1.0	
		eS	08 59 17	T	0.3	2.8 (0)		
15	FM	eP	10 30 07.5	Z	0.8	2.2 (0)		
15	LC	eP	10 31 14.0	Z	0.6	0.9 (0)		
15	CP	eS	10 54 57	R	0.5	1.9 (0)		

15 11 35 21.1 13.7 N 120.6 E LUZON, PHILIPPINE ISLANDS
H = 040 KM

15	CP	eP	13 29 18.8D	Z	0.2	2.2 (0)	0.8	
		eS	13 29 30	T	0.2	2.3 (0)		
15	CP	eP	14 13 19.4	Z	0.2	1.1 (0)	0.4	
		eS	14 13 26	T	0.3	7.5 (0)		
15	CP	eP	15 16 56.1	Z	0.3	0.9 (0)	1.4	
		eS	15 17 13	T	0.3	2.8 (0)		
15	MN	eP	17 36 57.7C	Z	0.3	39.9 (0)	1.3	
		eS	17 37 14	R	0.4	26.9 (0)		

15 18 08 27.3 02.7 S 011.6 W ASCENSION ISLAND REGION
H = 025 KM

15	DH	eP	18 19 51.5	Z	1.5	31.0 (1)	72.0	6.14
		eLR	18 42 10	LZ	23	13.4 (2)		
15	NG	eP	18 20 46.8	Z	1.0	41.9 (0)	82.0	5.45
		e	18 20 54	Z	1.1	72.6 (0)		
		eLQ	18 42 30	LT	40	74.1 (1)		
		eLR	18 46 45	LZ	20	20.5 (2)		
15	SJ	eP	18 21 18.0	Z	1.2	63.3 (0)	88.0	5.74
		ePP	18 24 47	Z	1.7	91.7 (0)		
		e	18 40 53	LT	30	12.2 (2)		
		eLQ	18 46 10	LT	32	10.6 (2)		
		eLR	18 51 42	LZ	22	10.2 (2)		
15	LC	eP	18 21 50.5	Z	1.2	22.9 (0)	95.0	5.48
		eL	18 51 00	LT	33	56.1 (1)		
15	FM	eP	18 22 11.6	Z	1.0	3.5 (0)	100.0	4.95
		ePP	18 26 14	Z	1.5	22.0 (0)		
		eLR	18 56 40	LZ	25	88.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	WI	ePP	18 26 40	Z	1.5	15.6 (0)	103.0	
		e	18 41 41	LT	23	38.3 (1)		
		eLQ	18 54 08	LR	35	47.8 (1)		
		eLR	19 01 45	LZ	22	14.0 (2)		
15	MN	eLQ	18 53 50	LT	33	32.1 (1)	105.0	
		eLR	18 57 50	LZ	30	87.1 (1)		
15	CP	eL	18 58 56	LZ	29	69.6 (1)	104.0	
15	MV	eL	18 59 50	LZ	35	10.1 (2)	106.0	
						AVG.		5.55

15 18 45 17.4 02.9 S 011.9 W ASCENSION ISLAND REGION
H = 025 KM

15	DH	eP	18 56 44.2	Z	1.5	36.8 (1)	73.0	6.21
		e	18 58 17	Z	1.7	15.7 (1)		
		eS	19 06 10	LT	18	63.0 (1)		
		e	19 06 50	LR	27	12.5 (2)		
		eLQ	19 14 55	LT	33	12.8 (2)		
		eLR	19 18 30	LZ	23	27.9 (2)		
15	NG	eP	18 57 39.3	Z	1.0	55.9 (0)	82.0	5.57
		eLQ	19 19 54	LT	40	11.1 (2)		
		eLR	19 23 47	LZ	19	38.8 (2)		
15	SJ	eP	18 58 08.5	Z	1.0	57.7 (0)	88.0	5.78
		ePP	19 01 35	Z	1.7	91.7 (0)		
		eLQ	19 22 50	LT	32	22.5 (2)		
		eLR	19 28 30	LZ	23	24.6 (2)		
15	LC	eP	18 58 40.4	Z	1.2	30.8 (0)	95.0	5.61
		e	19 00 14	Z	1.5	14.5 (0)		
		ePS	19 11 22	LR	20	86.2 (1)		
		eLQ	19 25 52	LT	32	95.2 (1)		
		eLR	19 30 18	LZ	28	23.9 (2)		
15	FM	eP	18 59 01.8	Z	1.0	3.5 (0)	100.0	4.95
		ePP	19 03 06	Z	1.5	22.0 (0)		
		eLR	19 32 20	LZ	23	16.0 (2)		
15	WI	ePP	19 03 31	Z	1.7	11.8 (0)	103.0	
		e	19 18 38	LT	23	76.6 (1)		
		eLQ	19 30 10	LR	35	11.9 (2)		
15	MN	eLQ	19 30 44	LT	32	96.8 (1)	105.0	
		eLR	19 34 50	LZ	28	18.5 (2)		
15	MV	eL	19 36 06	LZ	37	21.2 (2)	106.0	
15	WI	eLR	19 38 08	LZ	22	17.5 (2)	103.0	
						AVG.		5.62
15	CP	eP	20 05 17.2	Z	0.3	2.7 (0)	0.5	
		eS	20 05 25	R	0.3	7.0 (0)		
15	FM	eP	20 28 47.0	Z	0.7	3.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	20 28	48.9	06.8 S 149.5 E H =036 KM	NEW BRITAIN				
15	MN	eP	20 29 02.1	Z	0.9	2.8 (0)		
15	WI	eP	20 29 10.8	Z	0.5	6.4 (0)		
15	LC	eP	20 29 26.8	Z	0.3	4.5 (0)	1.5	
		eS	20 29 46	T	0.4	13.8 (0)		
15	WI	eP	20 46 54.9	Z	0.8	3.1 (0)		
15	22 31	06.2	56.6 S 026.2 W H =025 KM	SANDWICH ISLANDS				
15	FM	eP ⁺	22 49 49.5	Z	0.8	2.2 (0)	120.0	
		ePP	22 51 03	Z	1.5	11.0 (0)		
15	MN	eP ⁺	22 49 52.5	Z	1.0	1.7 (0)	122.0	
15	WI	eP ⁺	22 49 55.0	Z	1.2	81.6 (0)	124.0	
		ePP	22 51 34	Z	1.4	12.8 (0)		
15	FM	eP	22 58 01.0	Z	0.6	4.4 (0)		
15	WI	eP	22 58 25.4	Z	0.7	10.0 (0)		
15	CP	{P	23 40 00.4C	Z	0.3	5.4 (0)		
15	CP	e	23 40 10	R	0.3	9.0 (0)		
15	CP	e	23 40 18	R	0.3	10.6 (0)		
16	00 15	15.7	38.2 N 020.4 E H =025 KM	IONIAN SEA				
16	CP	{P	01 07 03.1C	Z	0.2	29.0 (0)	0.6	
		eS	01 07 12	T	0.3	24.0 (0)		
		{P	01 09 26.0C	Z	0.3	9.0 (0)		
		eS	01 09 35	R	0.3	13.0 (0)		
16	WI	eP	06 01 27.1	Z	1.0	2.0 (0)		
16	MN	eP	06 01 31.8	Z	0.9	3.0 (0)		
16	MN	eP	07 12 25.5	Z	0.4	3.0 (0)	1.3	
		eS	07 12 42	R	0.5	7.0 (0)		
16	07 18	50.0	35.6 N 025.8 E H =025 KM	AEGEAN SEA				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	FM	eP	07 32 20.6	Z	0.8	2.2 (0)	97.0	4.81
16	WI	eP	07 32 22.0	Z	0.5	2.0 (0)	97.0	4.97
16	MN	eP	07 32 34.2	Z	0.7	1.8 (0)	100.0	4.80
							AVG.	4.86
16	DH	eP	08 29 59.2	Z	0.2	5.3 (0)	2.4	
		eS	08 30 30	R	0.3	39.0 (0)		
16	MN	eP	09 16 23.9	Z	0.4	2.0 (0)	1.3	
		eS	09 16 40	R	0.5	12.0 (0)		
16	WI	eP	10 56 36.4	Z	0.8	3.0 (0)		
16	11 35	*08.8	10.5 S 161.6 E H =053 KM	SOLOMON ISLANDS				
16	WI	eP	11 48 08.0	Z	1.0	7.0 (0)	91.0	4.89
16	LC	eL	12 20 20	LZ	25	17.4 (1)	97.0	4.89
							AVG.	4.89
16	CP	eP	12 01 43.0	Z	0.4	3.0 (0)	1.8	
		eS	12 02 08	T	0.6	36.0 (0)		
16	LC	eP	12 02 39.5	Z	0.8	1.0 (0)		
16	FM	eP	12 03 45.5	Z	0.9	3.0 (0)		
16	LC	eL	12 04 30	R	1.0	5.0 (0)		
16	FM	e	12 05 55	R	2.5	46.0 (0)		
16	CP	eP	12 07 54.4	Z	0.5	8.0 (0)	1.6	
		eS	12 08 16	R	0.5	11.0 (0)		
16	CP	eP	12 21 56.5	Z	0.8	5.0 (0)	2.5	
		eS	12 22 29	R	0.6	44.0 (0)		
16	LC	eP	12 22 57.9	Z	0.5	2.0 (0)		
16	FM	eP	12 23 36.0	Z	0.6	1.0 (0)		
16	MN	eP	12 24 01.0	Z	0.9	1.0 (0)		
16	WI	eP	12 24 50.5	Z	0.5	1.0 (0)		
16	LC	eL	12 25 02	Z	1.2	19.0 (0)		
16	MN	eL	12 25 19	T	1.0	2.0 (0)		
16	FM	eL	12 26 00	R	1.2	11.3 (0)		
16	WI	eL	12 26 58	T	1.0	7.0 (0)		
16	CP	eP	12 36 37.4	Z	0.3	1.0 (0)	2.3	
		eS	12 37 07	R	0.5	16.0 (0)		
16	MN	eP	12 41 55.0	Z	0.3	2.0 (0)	0.7	
16	CP	eP	12 41 55.6	Z	0.4	1.0 (0)		
16	MN	eS	12 42 05	R	0.3	7.0 (0)	0.7	
16	CP	eL	12 43 22	T	0.8	81.6 (0)		
16	CP	eL	12 43 55	LT	16	14.8 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	LC	eP	12 44 17.5	Z	0.5	6.0 (0)		
16	MN	eP	12 45 19.5	Z	0.8	2.0 (0)		
16	WI	eP	12 45 35.0	Z	0.8	2.0 (0)		
16	FM	eP	12 45 57.2	Z	0.9	3.0 (0)		
16	LC	eL	12 46 11	Z	1.1	30.0 (0)		
16	LC	eL	12 46 34	LZ	13	64.6 (2)		
16	MN	e	12 46 45	LT	25	42.7 (1)		
16	MN	eL	12 47 33	LT	15	18.7 (2)		
16	FM	eL	12 47 52	R	1.8	13.1 (1)		
16	WI	eL	12 48 00	Z	1.0	5.0 (0)		
16	WI	eL	12 48 00	LT	21	31.0 (1)		
16	FM	eL	12 48 08	LZ	13	35.0 (1)		
16	MV	eL	12 48 10	LZ	19	68.1 (1)		
16	SJ	eL	12 57 40	LZ	14	36.8 (2)		
16	WI	eP	13 18 35.5	Z	0.8	2.0 (0)		
16	13 20 15.1		30.6 N 140.6 E				SOUTH OF HONSHU, JAPAN	
			H =176 KM					
16	MV	iP	13 31 52.6D	Z	0.8	62.0 (0)	78.0	5.41
		eP	13 31 53	LZ	16	55.5 (1)		
		e	13 32 09	Z	0.9	28.0 (0)		
		eS	13 41 32	LR	15	14.6 (2)		
		e	13 42 55	LR	23	12.6 (2)		
		eL	13 55 10	LZ	35	68.0 (2)		
16	WI	iP	13 32 01.8D	Z	1.0	11.1 (1)	79.0	5.57
		eP	13 32 04	LZ	10	74.6 (1)		
		e	13 32 35	Z	1.1	75.0 (0)		
		eS	13 41 46	T	3.5	17.2 (1)		
		eS	13 41 53	LT	23	85.0 (1)		
		e	13 53 12	LR	25	15.4 (2)		
		eL	13 56 43	LZ	33	43.2 (2)		
16	MN	iP	13 32 07.0D	Z	1.0	68.0 (0)	80.0	5.35
		eP	13 32 07	LZ	14	83.9 (1)		
		ePP	13 35 23	LZ	18	44.3 (1)		
		e	13 42 00	LR	24	67.8 (1)		
		e	13 42 01	R	3.0	72.0 (0)		
		eSS	13 46 20	LR	30	92.2 (1)		
		e	13 53 25	LT	30	24.6 (2)		
		eL	13 56 46	LZ	33	57.0 (2)		
16	FM	iP	13 32 25.0D	Z	0.8	76.0 (0)	84.0	5.53
		eP	13 32 25	LZ	16	45.5 (1)		
		e	13 32 34	Z	1.0	39.0 (0)		
		ePP	13 35 34	Z	2.5	94.0 (0)		
		ePP	13 35 51	LZ	23	32.2 (1)		
		e	13 42 37	T	4.0	36.1 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	FM	e	13 42 42	LT	21	60.5 (1)	84.0	
		e	13 47 50	LZ	18	17.0 (2)		
		e	13 54 41	LZ	25	48.0 (1)		
		eL	13 58 06	LZ	36	38.2 (2)		
16	CP	iP	13 32 29.4D	Z	0.9	80.0 (0)	85.0	5.61
		eP	13 32 30	LZ	15	65.8 (1)		
		e	13 32 38	Z	1.0	42.0 (0)		
		e	13 33 01	Z	1.0	51.0 (0)		
		ePP	13 35 42	Z	2.0	60.0 (0)		
		e	13 42 39	R	2.0	19.0 (0)		
		eL	13 58 06	LZ	40	35.5 (2)		
16	LC	iP	13 33 02.7D	Z	1.0	77.0 (0)	91.0	5.75
		e	13 33 34	Z	1.5	66.0 (0)		
		ePP	13 36 45	Z	1.0	14.0 (0)		
		e	13 57 20	LT	25	81.3 (1)		
		e	13 59 53	LZ	28	10.5 (2)		
		eL	14 02 23	LZ	35	31.1 (2)		
16	NG	eP	13 33 08.8	Z	1.0	70.0 (0)	93.0	5.80
		eP	13 33 10	LZ	16	37.4 (1)		
		ePP	13 36 52	Z	1.0	14.0 (0)		
		ePP	13 36 55	LZ	14	96.6 (1)		
		eS	13 43 36	LT	18	95.0 (1)		
		eS	13 43 58	R	3.5	52.6 (1)		
		eL	14 03 40	LZ	40	22.5 (2)		
16	SJ	eP	13 33 40	LZ	15	79.5 (1)	100.0	
		eL	14 06 40	LZ	34	14.7 (2)		
16	DH	eSS	13 52 32	LT	18	47.3 (1)	101.0	
		eL	14 13 05	LZ	27	21.9 (2)		
							AVG.	5.57
16	LC	eP	13 20 22.5	Z	0.8	1.0 (0)		
16	NG	eP	13 20 35.4	Z	0.5	10.0 (0)		
16	SJ	eP	13 27 22.9	Z	1.0	19.0 (0)		
16	LC	eP	13 28 32.5	Z	0.9	2.0 (0)		
16	MN	eP	13 30 03.7	Z	1.2	9.0 (0)		
16	WI	eP	13 30 14.0	Z	1.6	9.0 (0)		
16	LC	eL	13 42 10	LR	18	67.3 (1)		
16	CP	eL	13 42 47	LZ	25	41.7 (1)		
16	WI	eL	13 49 55	LZ	22	12.4 (2)		
16	WI	eP	13 59 00.8	Z	1.6	19.0 (0)		
16	WI	e	14 02 11	Z	2.0	34.0 (0)		
16	SJ	eP	15 09 56.9	Z	1.0	38.0 (0)		
16	17 54 49.2		44.8 S 037.2 E				PRINCE EDWARD, ISLANDS	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	SJ	eP	23 30 45.6	Z	0.4	19.0 (0)	1.5	
		eS	23 31 05	T	0.6	19.9 (1)		
17	CP	eP	00 09 43.3	Z	0.6	2.0 (0)		
17	CP	eP	02 02 48.3	Z	0.5	1.0 (0)		
17	CP	eP	02 23 57.1	Z	0.2	1.7 (0)	0.8	
		eS	02 24 08	T	0.3	3.0 (0)		
17	CP	eP	02 31 23.5	Z	0.3	6.0 (0)	1.2	
		eS	02 31 39	T	0.3	9.0 (0)		
17	WI	eP	02 48 44.9	Z	0.2	1.6 (0)	1.5	
		eS	02 49 05	R	0.5	11.0 (0)		
17	MN	eP	03 35 35.8	Z	0.3	10.0 (0)	0.8	
		eS	03 35 47	T	0.4	19.0 (0)		
17	MV	eP	03 35 52.5	Z	0.5	14.0 (0)	1.8	
17	WI	eP	03 36 12.3	Z	0.4	1.0 (0)	4.1	
17	MV	eS	03 36 16	T	0.7	47.0 (0)	1.8	
17	WI	eS	03 37 03	T	0.6	2.0 (0)	4.1	
17	06 48 44.7		31.3 N 142.6 E				SOUTH OF HONSHU, JAPAN	
			H =023 KM					
17	WI	eP	07 00 37.0	Z	1.0	3.0 (0)	77.0	4.31
17	MN	eP	07 00 42.2	Z	0.5	1.0 (0)	78.0	4.13
17	CP	eP	07 01 04.3	Z	0.7	3.0 (0)	82.0	4.46
							AVG.	4.30
17	07 51 09.4		54.8 N 160.7 E				EAST COAST OF KAMCHATKA	
			H =025 KM					
17	WI	eP	08 00 31.8	Z	1.0	5.0 (0)	54.0	4.50
17	MN	eP	08 00 44.2	Z	1.0	8.0 (0)	55.0	4.70
17	LC	eP	08 01 58.2	Z	1.0	5.0 (0)	66.0	4.62
							AVG.	4.61
17	CP	eP	09 09 57.1	Z	0.4	4.0 (0)	0.6	
		eS	09 10 06	T	0.5	28.0 (0)		
17	CP	eP	09 29 07.7	Z	0.2	8.0 (0)	0.7	
		eS	09 29 17	R	0.3	43.0 (0)		
17	10 03 46.9		42.3 N 017.3 E				ADRIATIC SEA	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	DH	eP	10 14 22.8	Z	0.6	6.0 (0)	64.0	4.92
17	NG	eP	10 14 58.6	Z	1.0	13.0 (0)	70.0	4.93
17	WI	eP	10 16 33.7	Z	1.5	16.0 (0)	88.0	5.05
17	WI	eL	10 49 05	LT	24	15.4 (1)	87.0	
17	LC	eP	10 16 43.1	Z	1.0	8.0 (0)	89.0	4.87
17	MN	eP	10 16 45.7	Z	1.0	5.0 (0)	90.0	4.67
		eL	10 59 28	LZ	16	37.2 (1)		
							AVG.	4.89
17	11 15 17.1		37.0 N 018.5 E				IONIAN SEA	
			H =025 KM					
17	11 33 51.0		37.8 N 091.9 E				IONIAN SEA	
			H =025 KM					
17	WI	eP	11 47 02.8	Z	1.0	3.0 (0)	93.0	4.65
		eL	12 16 34	LT	25	80.0 (0)		
17	LC	eP	11 47 12.9	Z	0.7	1.0 (0)	95.0	4.35
17	MN	eP	11 47 14.6	Z	0.9	1.0 (0)	95.0	4.25
		eL	12 17 23	LR	40	47.6 (1)		
17	FM	eL	12 21 45	LZ	29	27.1 (1)	92.0	
17	MV	eL	12 31 00	LZ	23	24.5 (1)	96.0	
							AVG.	4.41
17	SJ	eP	11 47 36.0	Z	0.6	16.2 (0)		
17	LC	eP	11 48 23.1	Z	0.9	19.0 (0)		
17	DH	eP	11 48 25.9	Z	0.9	23.0 (0)		
17	LC	e	11 48 51	Z	1.1	10.0 (0)		
17	CP	eP	11 48 54.2	Z	0.6	4.0 (0)		
17	NG	eP	11 48 55.6	Z	1.0	13.0 (0)		
17	MN	eP	11 49 21.2	Z	1.0	5.0 (0)		
17	WI	eP	11 49 30.3	Z	1.1	7.0 (0)		
17	WI	e	11 49 57	Z	1.3	5.0 (0)		
17	11 51 17.6		26.1 N 095.1 E				EAST PAKISTAN	
			H =153 KM					
17	MV	eP	12 19 49.3	Z	0.5	22.0 (0)	2.8	
17	FM	eP	12 20 20.4	Z	0.5	7.0 (0)		
17	MV	eS	12 20 26	R	0.6	64.0 (0)	2.8	
17	CP	eP	12 20 54.5	Z	0.4	1.0 (0)		
17	FM	eL	12 21 36	R	0.5	37.0 (0)		
17	CP	eL	12 22 35	T	0.7	3.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	MN	eP	12 55 57.2	Z	1.1	2.0 (0)		
17	MN	e	12 56 08	Z	1.2	8.0 (0)		
17	MN	eP	14 54 21.8	Z	1.0	2.0 (0)		
17	14 54 35.3		38.7 N 021.6 E H =025 KM				NEAR WEST COAST OF GREECE	
17	15 15 10.2		07.0 S 129.1 E H =140 KM				BANDA SEA	
17	WI	eP	17 22 28.6	Z	0.6	4.0 (0)	5.2	
		eS	17 23 31	T	0.4	11.0 (0)		
17	17 43 03.4		42.6 S 174.0 E H =025 KM				SOUTH IS., NEW ZEALAND	
17	WI	eP	18 47 41.8	Z	0.6	2.0 (0)		
17	LC	eP	20 34 15.4	Z	0.3	9.0 (0)	1.5	
		eS	20 34 34	R	0.4	9.0 (0)		
17	18 49 24.6		36.5 N 143.5 E H =025 KM				EAST COAST HONSHU, JAPAN	
17	20 54 13.4		38.4 N 142.2 E H =110 KM				NEAR HONSHU, JAPAN	
17	MV	eP	21 05 36.0	Z	0.9	8.0 (0)	74.0	4.54
		eL	21 27 22	LZ	24	24.4 (1)		
17	FM	eP	21 05 59.5	Z	1.0	20.0 (0)	78.0	3.89
		e	21 06 10	Z	1.0	20.0 (0)		
		eL	21 31 05	LZ	29	90.0 (0)		
17	CP	eP	21 06 12.2	Z	1.1	7.0 (0)	80.0	4.39
		eL	21 30 21	LZ	28	22.6 (1)		
17	LC	eP	21 06 40.8	Z	1.0	3.0 (0)	86.0	4.17
		e	21 06 51	Z	1.1	17.0 (0)		
17	MN	eL	21 24 15	LT	28	51.4 (1)	73.0	
17	WI	eL	21 28 50	LZ	20	28.3 (1)	72.0	
				AVG.				4.25

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	CP	eP	21 14 15.0	Z	0.2	1.7 (0)	0.6	
		eS	21 14 24	R	0.2	3.8 (0)		
17	DH	eP	21 48 50.5	Z	0.4	14.0 (0)	1.9	
		eS	21 49 16	T	0.5	47.0 (0)		
17	22 34 56.7		01.5 S 014.9 W H =025 KM				MID-ATLANTIC OCEAN	
17	DH	eP	22 46 06.3	Z	1.8	15.5 (1)	70.0	
		eS	22 55 15	LT	17	10.4 (2)		5.76
		ePS	22 55 45	LR	29	26.4 (2)		
		eLQ	23 02 40	LT	24	20.6 (2)		
		eLR	23 06 37	LZ	29	35.7 (2)		
17	LC	eP	22 48 06.8	Z	1.0	29.0 (0)	92.0	5.56
		eSKS	22 58 48	LR	14	98.6 (1)		
		ePS	23 00 24	LR	21	10.0 (2)		
		eSS	23 05 01	LR	17	79.4 (1)		
		eL	23 17 42	LZ	36	12.6 (2)		
17	NG	eS	22 57 05	LT	19	90.4 (1)	79.0	
		e	23 09 24	LT	26	19.2 (2)		
		eL	23 11 53	LZ	32	19.4 (2)		
17	WI	eSKS	22 59 30	LT	23	23.2 (1)	100.0	
		ePS	23 01 53	LT	24	61.7 (1)		
		eSS	23 07 17	LT	26	21.4 (2)		
		eLQ	23 18 05	LR	41	19.0 (2)		
		eLR	23 21 53	LZ	36	16.1 (2)		
17	MN	eSKS	22 59 32	LR	20	28.2 (1)	101.0	
		ePS	23 02 03	LT	25	56.0 (1)		
		eSS	23 07 27	LT	24	15.4 (2)		
		e	23 14 39	LT	22	56.4 (1)		
		eLQ	23 17 21	LT	45	20.2 (2)		
		eLR	23 22 37	LZ	38	21.8 (2)		
17	CP	ePS	23 01 51	LT	19	74.3 (1)	100.0	
		eSS	23 07 21	LT	25	20.2 (2)		
		eL	23 21 12	LZ	26	12.7 (2)		
17	MV	ePS	23 02 22	LR	24	57.5 (1)	104.0	
		eSS	23 08 03	LR	25	14.7 (2)		
		e	23 10 43	LR	24	74.0 (1)		
		eLR	23 29 02	LZ	32	24.3 (2)		
17	FM	eL	23 21 00	LZ	36	14.3 (2)	97.0	
				AVG.				5.66
17	CP	eP	23 08 43.9	Z	0.2	1.7 (0)	2.2	
		eS	23 09 13	R	0.5	18.4 (0)		
17	LC	eP	23 09 19.7	Z	1.0	3.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	WI	eP eS	00 11 25.7 00 11 40	Z R	0.3 0.4	5.0 (0) 15.5 (0)	1.1	
18	MN	eP	02 04 37.0	Z	1.0	4.9 (0)		
18	WI	eP	02 04 45.5	Z	0.7	6.5 (0)		
18	WI	e	02 05 37	Z	0.7	2.6 (0)		
18	04 04 18.0		18.8 S 175.4 W H =166 KM				TONGA ISLANDS	
18	SJ	eP	04 40 10.5	Z	1.0	38.6 (1)		
18	SJ	e	04 40 26	Z	1.0	11.5 (1)		
18	LC	eP	04 41 33.6	Z	0.6	1.1 (0)		
18	CP	eP	04 42 34.5	Z	0.7	7.0 (0)		
18	MN	eP	04 43 13.0	Z	0.7	8.3 (0)		
18	WI	eP	04 43 26.1	Z	0.5	0.9 (0)		
18	CP	e	04 45 29	Z	1.0	5.6 (0)		
18	SJ	eL	04 45 30	LZ	35	35.6 (2)		
18	MN	e	04 45 40	Z	0.7	2.5 (0)		
18	MN	e	04 45 54	Z	0.8	3.1 (0)		
18	WI	e	04 45 58	Z	1.2	8.5 (0)		
18	LC	eP	04 47 19.5	Z	0.8	6.0 (0)		
18	NG	eL	04 55 05	LZ	25	21.6 (1)		
18	WI	eL	05 01 47	LZ	20	17.6 (1)		
18	WI	eP	09 34 12.2	Z	0.7	2.6 (0)		
18	10 44 41.3		38.1 N 020.5 E H =025 KM				IONIAN SEA	
18	MN	eP eS	12 46 45.5 12 47 24	Z R	0.3 0.4	1.0 (0) 2.6 (0)	3.0	
18	LC	eP e eS	15 58 56.9 15 59 02 15 59 35	Z Z T	0.4 0.4 0.5	1.5 (0) 2.3 (0) 3.5 (0)	3.0	
18	DH	eP eS	16 28 33.5 16 28 54	Z T	0.3 0.4	7.6 (0) 11.4 (0)	1.5	
18	DH	eP	16 34 07.5	Z	0.5	8.6 (0)		
18	16 36 01.3		31.8 N 141.6 E H =065 KM				SOUTH OF HONSHU, JAPAN	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	DH	e	16 38 03	Z	1.3	97.4 (0)		
18	CP	eP eS	17 19 19.5 17 19 26	Z T	0.3	4.5 (0)	0.4	
18	DH	eP eS	17 20 51.2 17 21 05	Z T	0.5 0.6	17.2 (0) 29.2 (0)	1.0	
18	WI	eP eS	17 33 24.5 17 34 10	Z R	0.3	2.5 (0)	3.6	
18	MN	eP	18 24 01.6	Z	1.2	8.1 (0)		
18	19 14 37.2		10.0 S 079.0 W H =039 KM MAG 6.75-				OFF COAST OF PERU PAS	
18	LC	eP eP e ePP eS eSCS	19 23 28.1 19 23 30 19 24 47 19 25 24 19 30 37 19 33 20	Z LZ LZ Z LT LT	0.7 20 17 1.4 17 30	26.6 (0) 33.3 (2) 26.2 (2) 12.3 (1) 40.7 (2) 52.1 (2)	50.0	5.28
18	DH	iP eS eSS eLQ	19 23 40 19 31 00 19 34 33 19 36 58	C LT LT LT	20 18 30 34	32.2 (2) 18.6 (3) 51.6 (2) 12.7 (3)	51.0	
18	CP	eP ePP eS eSS eL eLR	19 24 15 19 26 30 19 32 00 19 36 00 19 38 45 19 41 57	LZ LZ LT LT LR LZ	20 22 22 32 30 25	28.9 (2) 16.4 (2) 74.8 (2) 81.6 (2) 10.5 (2) 23.7 (3)	56.0	
18	NG	eP eS eSS eSSS eLQ	19 24 20 19 32 00 19 36 17 19 36 17 19 42 47	LZ LT LT LT LT	20 25 25 30 45	41.6 (2) 16.1 (2) 52.5 (2) 81.8 (2) 42.3 (3)	57.0	
18	FM	eP eP ePP eS eSS eLQ	19 24 28.3 19 24 30 19 26 50 19 32 30 19 36 33 19 39 25	Z LZ LZ LR LR LR	1.0 20 25 30 33 33	14.1 (1) 28.2 (2) 12.0 (1) 75.8 (2) 82.3 (2) 87.3 (2)	58.0	5.95
18	MN	eP iP ePP eS eSS eLQ	19 24 45.5 19 24 47 19 27 05 19 33 04 19 37 20 19 40 10	Z C LZ LZ LT LT	0.8 24 22 18 26	19.7 (0) 32.3 (2) 18.0 (2) 46.3 (2) 45.3 (2)	61.0	5.24

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
18	WI	eP ¹ P ¹	19 54 05	Z	1.2	10.8 (0)	62.0	5.54				
		eP	19 24 55.7	Z	0.6	24.0 (0)						
		eP	19 24 57	LZ	20	32.8 (2)						
		ePP	19 27 27	LZ	23	13.9 (2)						
		eS	19 33 20	T	3.0	36.6 (1)						
		eS	19 33 20	LT	35	95.1 (2)						
		e	19 34 24	T	2.5	14.6 (1)						
		eSS	19 37 37	LT	35	55.2 (2)						
		eL	19 40 52	LT	37	11.0 (3)						
		eL	19 45 12	LZ								
		eP ¹ P ¹	19 53 50	Z	1.0	2.6 (0)						
		eP	19 25 01.7	Z	1.5	14.0 (1)						
		eP	19 25 02	LZ	17	38.9 (2)						
		e	19 26 12	Z	2.0	46.9 (1)						
18	MV	e	19 26 40	Z	1.6	90.3 (0)	63.0	5.79				
		ePP	19 27 28	LZ	22	13.5 (2)						
		eS	19 33 30	LT	18	32.8 (2)						
		eSS	19 38 00	LT	32	39.7 (2)						
		eL	19 41 13	LT	34	15.2 (3)						
		eLR	19 45 55	LZ	40	20.6 (3)						
		eP ¹ P ¹	19 54 04	Z	1.2	15.4 (0)						
									AVG.	5.56		

18 21 08 27.5 13.0 S 166.8 E NEW HEBRIDES
H =105 KM

19 02 05 59.4 38.5 N 020.5 E IONIAN SEA
H =025 KM

19 02 18 55.9 09.8 S 078.9 W OFF COAST OF PERU
H =023 KM

19	CP	eP	06 23 19.4	Z	0.3	8.2 (0)	2.6
		eS	06 23 53	R	0.5	52.7 (0)	
19	WI	eP	06 24 23.8	Z	0.4	1.7 (0)	
19	WI	eL	06 26 17	R	0.7	11.0 (0)	
19	MN	eP	06 23 49.2	Z	0.4	14.0 (0)	4.5
19	MV	eP	06 23 51.4	Z	0.4	8.0 (0)	
19	MN	eS	06 24 44	R	0.5	29.9 (0)	4.5
19	MV	eL	06 25 07	T	0.6	29.8 (0)	

19 08 09 27.1 38.2 N 142.7 E EAST COAST HONSHU, JAPAN
H =025 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	FM	eP	08 21 22.1	Z	0.8	2.7 (0)	77.0	4.37
							AVG.	4.37
19	11 55 27.3	38.6 N 044.0 E EASTERN TURKEY		H =025 KM				
19	DH	eL	12 34 45	LT	30	19.6 (1)	82.0	
19	MN	eL	12 45 55	LZ	27	18.3 (1)	102.0	
19	FM	eL	12 46 10	LZ	26	25.5 (1)	100.0	
19	CP	eP	12 20 26.0	Z	0.3	5.4 (0)	1.6	
		eS	12 20 47	R	0.4	20.4 (0)		
19	WI	eP	13 44 03.8	Z	0.4	8.6 (0)	1.0	
		eS	13 44 17	R	0.6	37.9 (0)		
19	CP	tP	19 41 35.0C	Z	0.3	28.3 (0)	1.0	
		eS	19 41 48	R	0.4	35.9 (0)		
19	LC	eP	20 11 53.3	Z	0.3	1.5 (0)	1.4	
		e	20 11 55	Z	0.3	14.6 (0)		
		eS	20 12 11	R	0.5	27.6 (0)		

19 20 18 20.5 09.4 S 079.0 W OFF EAST COAST OF PERU
H =025 KM

19	SJ	eP	20 26 10.0	Z	0.8	74.9 (0)	42.0	5.49
		eL	20 40 00	LR	27	11.2 (2)		
19	LC	tP	20 27 11.7C	Z	1.0	35.4 (0)	50.0	5.25
		e	20 27 27	Z	0.9	17.2 (0)		
		eL	20 44 50	LZ	23	72.4 (1)		
19	NG	eP	20 27 55.9	Z	0.9	55.0 (0)	56.0	5.58
19	FM	tP	20 28 11.6C	Z	1.1	28.8 (0)	58.0	5.22
		e	20 28 26	Z	1.2	43.7 (0)		
		eL	20 50 37	LZ	23	56.2 (1)		
19	MN	eP	20 28 29.8	Z	1.0	42.4 (0)	60.0	5.45
19	WI	eP	20 28 40.2	Z	1.0	26.0 (0)	62.0	5.36
		e	20 28 55	Z	1.0	52.0 (0)		
		e	20 28 59	Z	1.1	54.0 (0)		
		eL	20 51 10	LZ	23	96.7 (1)		
19	MV	eP	20 28 48.0	Z	1.0	9.7 (0)	63.0	4.84
							AVG.	5.31
19	MV	eP	20 19 52.2	Z	0.3	15.8 (0)	1.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	WI	eS	20 20 07	T	0.4	39.2 (0)	5.8	
		eP	20 20 35.8	Z	0.3	5.1 (0)		
		eS	20 21 45	R	0.5	4.1 (0)		
19	CP	eP	21 35 25.2	Z	0.3	3.6 (0)	1.5	
		eS	21 35 46	R	0.4	7.6 (0)		
19	22 15 20.9	15.8 S 168.0 E NEW HEBRIDES ISLANDS						
			H = 213 KM					
19	MV	eP	22 27 38.5	Z	1.0	9.7 (0)	86.0	4.59
		epP	22 28 31	Z	1.2	23.8 (0)		
		eS	22 37 45	LR	20	12.7 (2)		
		eG	22 50 10	LR	30	14.8 (2)		
19	WI	eL	22 54 45	LZ	28	93.0 (1)	90.0	4.79
		eP	22 27 55.0	Z	1.1	13.5 (0)		
		epP	22 28 49	Z	1.5	48.8 (0)		
19	FM	eP	22 28 09.6	Z	1.0	4.4 (0)	93.0	4.52
		e	22 28 31	Z	1.0	4.4 (0)		
		epP	22 29 03	Z	1.2	7.2 (0)		
		e	22 38 32	LR	20	37.4 (1)		
19	LC	eL	22 57 42	LZ	23	56.2 (1)	96.0	4.64
		eP	22 28 23.9	Z	1.0	2.3 (0)		
		epP	22 29 15	Z	1.2	3.8 (0)		
		ePP	22 32 11	Z	1.5	14.7 (0)		
		eS	22 39 20	LR	20	67.2 (1)		
		eG	22 54 48	LR	28	73.4 (1)		
		eL	23 02 20	LZ	20	63.6 (1)		
19	CP	eL	22 53 20	LZ	27	10.2 (2)	87.0	
19	NG	eL	23 00 28	LT	27	85.2 (1)	110.0	
						AVG.		4.63
19	23 16 04.1	69.8 N 138.6 E SIBERIA U. S. S. R.						
			H = 000 KM					
19	WI	iP	23 25 49.5C	Z	0.8	32.8 (0)	56.0	5.41
		e	23 25 56	Z	1.0	88.5 (0)		
		eL	23 42 27	LT	35	70.0 (2)		
19	MV	eP	23 25 54.5	Z	1.0	24.3 (0)	57.0	5.18
		eP	23 25 56	LZ	23	61.7 (1)		
		e	23 26 00	Z	1.1	94.5 (0)		
		eS	23 33 53	R	2.2	48.0 (0)		
		eS	23 34 00	LR	30	12.9 (2)		
		eLQ	23 39 08	LR	27	11.6 (2)		
		eLR	23 44 50	LZ	22	21.6 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	NG	eP	23 26 11.0	Z	0.7	8.5 (0)	59.0	4.88
		eP	23 26 18	LZ	14	11.1 (2)		
		e	23 35 53	LT	33	19.3 (2)		
		eSS	23 38 30	LT	25	16.0 (2)		
		e	23 40 50	LZ	18	21.4 (2)		
		eLR	23 44 13	LZ	23	36.4 (2)		
		19	FM	iP	23 26 14.1C	Z		
		eP	23 26 20	LZ	20	48.5 (1)		
		e	23 26 20	Z	1.0	84.5 (0)		
		eS	23 34 30	R	2.5	13.3 (1)		
		eS	23 34 37	LR	27	98.6 (1)		
		e	23 38 42	LZ	27	13.6 (2)		
		eL	23 50 00	LR	25	56.4 (2)		
		eP'iP'	23 55 27	Z	1.1	5.7 (0)		
19	CP	eP	23 26 45.9	Z	0.9	15.9 (0)	65.0	5.25
		eP	23 26 52	LZ	15	25.3 (1)		
		e	23 26 52	Z	1.2	55.1 (0)		
		eLQ	23 50 29	LT	30	46.0 (2)		
19	LC	eLR	23 54 52	LZ	18	37.8 (2)	68.0	5.15
		iP	23 27 05.3C	Z	1.0	14.1 (0)		
		eP	23 27 06	LZ	16	51.1 (1)		
		eSS	23 40 32	LR	28	13.6 (2)		
		eL	23 51 07	LZ	23	33.4 (2)		
		eP'iP'	23 55 22	Z	1.1	3.0 (0)		
19	SJ	eP	23 27 47.3	Z	0.8	37.4 (0)	75.0	5.47
		eP	23 27 53	LZ	15	13.6 (2)		
		eSS	23 42 35	LR	30	28.7 (2)		
		e	23 46 08	LZ	20	38.4 (2)		
		eL	23 54 18	LT	33	62.1 (2)		
						AVG.		5.24
20	05 47 55.3	20.6 N 072.2 W PORT-AU-PRINCE						
			H = 025 KM MAG 6.50-6.75 PAS					
20	SJ	iP	05 53 20.0C	Z	1.1	28.2 (2)	25.0	6.83
		iP	05 53 21 C	LZ	14	29.8 (3)		
		ePCP	05 56 54	Z	1.2	56.0 (1)		
		eS	05 57 44	LT				
20	NG	iP	05 53 50.2C	Z	1.5	13.9 (2)	28.0	6.52
		iP	05 53 54 C	LZ	14	53.2 (2)		
		e	05 54 13	Z	1.6	13.2 (2)		
		e	05 54 16	LZ	18	19.5 (3)		
		e	05 56 10	LZ	30	63.2 (2)		
		ePCP	05 57 02	Z	1.3	71.4 (1)		
		eS	05 58 36	R	4.0	55.0 (2)		
		eS	05 58 38	LR				
		e	05 59 15	R	0.8	99.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
20	LC	eLR	06 01 44	LZ	25	12.6 (4)	33.0			
		eL	06 03 58	R	1.3	42.5 (1)				
		tP	05 54 30.5C	Z						
		tP	05 54 32 C	LZ	25	53.9 (2)				
		ePCP	05 57 14	Z	1.3	48.2 (1)				
	20	FM	eS	05 59 48	R	3.5				
			eS	05 59 50	LR					
			eLR	06 04 14	LZ	33				
			eL	06 06 54	Z	4.8				
			tP	05 55 23.0C	Z	1.4	11.8 (2)	39.0	6.41	
tP			05 55 24 C	LZ	27	48.5 (2)				
ePP			05 57 05	LZ	19	63.7 (2)				
e			05 57 15	Z	1.6	44.7 (1)				
ePCP			05 57 33	Z	1.3	82.3 (1)				
eS			06 01 22	T	2.0	33.8 (1)				
20	CP	eS	06 01 22	LR	21					
		e	06 03 58	LR	18					
		eLR	06 07 04	LZ	31					
		tP	05 55 40.8C	Z	1.7	14.5 (2)	41.0	6.46		
		tP	05 55 41 C	LZ	24	51.8 (2)				
		ePP	05 57 21	Z	2.3	63.0 (1)				
		ePP	05 57 30	LZ	18	20.4 (3)				
		ePCP	05 57 37	Z	1.6	90.5 (1)				
		ePPP	05 57 57	Z	3.6					
		e	05 58 48	LZ	23	32.4 (2)				
20	WI	ePCS	06 01 36	T	2.0	18.9 (1)				
		eS	06 01 51	T	3.7					
		eS	06 01 57	LT	24	13.7 (3)				
		e	06 02 34	LT	33	21.8 (3)				
		eL	06 05 14	LR	18	22.2 (3)				
		eLR	06 12 10	LZ	24					
		eP	05 55 59.3	Z			44.0			
		eP	05 56 04	LZ	12	67.0 (2)				
		20	MV	eP	05 56 18.2	Z			46.0	
				tP	05 56 18 C	LZ	22	42.8 (2)		
ePP	05 57 52			LZ	17	76.0 (2)				
ePCP	05 57 55			Z	1.2	27.6 (1)				
e	05 58 41			R	1.6	21.0 (1)				
eS	06 02 59			LR						
eL	06 06 38			LR	29	12.5 (3)				
eLR	06 10 28			LZ	32					
							AVG.	6.56		
20	LC			eP	06 25 52.0	Z	1.4	12.1 (1)		
20	NG	eP	06 26 08.0	Z	1.0	18.0 (0)				
20	FM	eP	06 27 15.0	Z	1.4	60.0 (0)				
20	SJ	eP	06 26 27.7	Z	1.5	25.0 (1)				
20	MV	eP	06 27 24.0	Z	1.4	24.1 (0)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	CP	eP	06 29 09.8	Z	2.4	23.2 (1)		
20	LC	e	06 29 44	Z	1.9	74.0 (0)		
20	LC	e	06 36 36	Z	2.0	51.0 (0)		
20	14 25 18.8		17.9 S 169.9 E				NEW HEBRIDES	
			H =087 KM					
21	03 33 53.8		06.1 S 146.1 E				NEW GUINEA	
			H =086 KM					
21	07 46 18.5		23.7 S 180.0				FIJI ISLANDS REGION	
			H =559 KM					
21	14 21 44.9		04.4 S 151.2 E				NEW IRELAND	
			H =334 KM					
21	21 18 01.7		06.5 S 144.6 E				NEW GUINEA	
			H =042 KM					
22	02 10 12.1		18.9 S 169.5 E				NEW HEBRIDES ISLAND REGION	
			H =288 KM					
22	MV	eP	02 22 28.1	Z	0.8	29.8 (0)	87.0	5.26
		e	02 23 24	Z	0.6	54.0 (0)		
22	CP	eP	02 22 32.5	Z	0.7	46.6 (0)	88.0	5.51
22	MN	eP	02 22 36.9	Z	1.4	11.5 (1)	89.0	5.86
22	WI	eP	02 22 45.1	Z	0.8	22.8 (0)	91.0	5.16
		ePP	02 26 28	Z	1.5	13.3 (0)		
22	FM	eP	02 22 58.6	Z	1.2	29.9 (0)	94.0	5.30
22	LC	eP	02 23 07.2	Z	1.0	11.8 (0)	96.0	5.08
		ePP	02 26 58	Z	1.2	77.3 (0)		
							AVG.	5.36
22	04 29 39.0		44.2 S 072.6 W				CHILI ARGENTINA BORDER	
			H =120 KM					
22	SJ	eP	04 41 11.2	Z	1.0	77.5 (0)	75.0	5.46
		ePP	04 41 43	Z	1.0	58.1 (0)		
22	LC	tP	04 41 49.5C	Z	0.9	28.7 (0)	83.0	5.16
		ePP	04 42 21	Z	1.2	38.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	CP	eP	04 42 10.3	Z	0.7	8.4 (0)	87.0	4.84
		epP	04 42 43	Z	1.7	53.3 (0)		
22	FM	eP	04 42 28.6	Z	0.7	8.9 (0)	91.0	5.07
		epP	04 43 03	Z	1.0	17.7 (0)		
22	MN	eP	04 42 35.5	Z	1.0	8.3 (0)	92.0	4.96
		epP	04 43 10	Z	1.3	10.4 (0)		
		ePP	04 46 18	Z	1.3	69.7 (0)		
22	WI	eP	04 42 45.3	Z	0.7	4.0 (0)	94.0	4.91
							AVG.	5.07
22	04 45 20.3		15.5 N 093.1 W				COAST OF CHIAPAS, MEXICO	
			H = 069 KM				MAG 5.25-5.50 PAL	
22	SJ	eP	04 48 27.2	Z	1.0	60.0 (1)	13.0	6.29
		eP	04 48 28	LZ	12	80.2 (2)		
		eL	04 50 40	T	1.0	58.0 (1)		
		eL	04 50 42	LT	17	12.3 (4)		
22	LC	eP	04 50 00.2	Z			21.0	
		eP	04 50 01	LZ	15	17.0 (2)		
		eS	04 53 52	LT	25	32.1 (2)		
		eS	04 54 02	T	1.5	44.1 (1)		
		eL	04 56 07	LR	29	55.3 (2)		
22	CP	eP	04 51 01.9	Z	1.0	92.4 (0)	27.0	5.33
		eP	04 51 05	LZ	15	61.8 (1)		
		eS	04 55 15	R	2.2	27.6 (0)		
		eS	04 55 40	LR	35	35.2 (2)		
		eL	04 58 50	LT	25	85.4 (2)		
22	FM	eP	04 51 18.1	Z	0.8	78.9 (0)	29.0	5.45
		eP	04 51 20	LZ	15	10.4 (1)		
		ePP	04 52 22	Z	1.5	23.4 (1)		
		eS	04 56 10	T	3.0	44.4 (1)		
		eS	04 56 10	LR	25	43.9 (2)		
		eLQ	04 58 27	LT	40	45.3 (2)		
		eLR	05 00 05	LZ	35	57.9 (2)		
22	NG	eP	04 51 30	LZ	17	11.0 (2)	30.0	
		eS	04 56 28	LT	26	62.9 (2)		
		eL	04 59 44	LT	32	10.4 (3)		
22	DH	eP	04 51 33.4	Z	1.0	36.2 (0)	31.0	5.12
		e	04 51 53	Z	0.8	79.7 (0)		
22	MN	eP	04 51 42.3	Z	1.2	11.5 (1)	32.0	5.54
		eP	04 51 45	LZ	20	46.4 (1)		
		eS	04 56 50	LT	22	25.7 (2)		
		eLQ	04 59 12	LR	30	44.5 (2)		
22	WI	eP	04 51 55.5	Z			34.0	
		eP	04 51 57	LZ	17	66.7 (1)		
		ePCP	04 54 34	Z	1.4	14.0 (1)		
		eS	04 57 16	T	2.7	26.4 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	04 57 16	LT	25	29.0 (2)		
		eL	04 59 40	LR	25	23.2 (2)		
22	MV	eP	04 52 02.5	Z	1.0	28.4 (0)	34.0	5.08
		eP	04 52 05	LZ	20	39.7 (1)		
		e	04 52 14	Z	1.5	59.3 (0)		
		eS	04 57 42	LR	28	29.9 (2)		
		eL	05 02 00	LR	40	11.5 (3)		
							AVG.	5.47
22	WI	eP	10 02 27.3	Z	0.7	2.0 (0)		
22	MN	eP	12 25 59.3	Z	0.4	9.9 (0)	0.9	
		eS	12 26 11	T	0.5	22.7 (0)		
22	CP	eP	13 06 21.4	Z	0.3	1.8 (0)	1.5	
		eS	13 06 41	T	0.4	11.5 (0)		
22	FM	eP	15 18 09.4	Z	0.4	58.9 (0)	1.7	
		eS	15 18 32	T	0.5	12.5 (0)		
22	16 03 09.5		21.1 S 178.7 W				FIJI ISLANDS	
			H = 578 KM					
22	16 38 17.8		05.1 S 153.7 E				NEW BRITAIN	
			H = 028 KM					
22	SJ	eP	16 40 36.0	Z	0.3	6.3 (0)	3.1	
		eS	16 41 15	T	0.5	79.1 (0)		
22	LC	eP	16 42 02.2	Z	0.3	7.0 (0)		
22	LC	eL	16 44 35	T	0.6	4.2 (0)		
22	LC	IP	16 50 32.3C	Z	0.8	22.2 (0)		
22	MN	eP	16 52 14.8	Z	1.0	13.3 (0)		
22	WI	eP	16 52 27.9	Z	0.8	10.9 (0)		
22	MN	e	16 53 11	Z	1.0	5.0 (0)		
22	MN	e	16 55 02	Z	0.7	1.6 (0)		
22	MN	eP	18 07 14.8	Z	1.0	3.3 (0)		
22	WI	eP	18 09 56.8	Z	0.7	3.0 (0)		
22	MN	eP	18 54 06.5	Z	0.8	4.2 (0)		
22	WI	eP	18 54 17.1	Z	0.7	4.0 (0)		
22	LC	eP	18 54 29.9	Z	1.0	47.3 (0)		
22	MN	eP	19 02 01.3	Z	0.5	1.2 (0)		
22	WI	eP	19 02 01.4	Z	1.0	20.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	19 15 11.8		32.1 N 130.7 E H =025 KM			KYUSHU+ JAPAN		
22	WI	eP	19 27 42.0	Z	1.0	22.2 (1)	84.0	6.27
		e	19 28 25	Z	1.2	16.5 (0)		
22	MN	eP	19 27 48.8	Z	1.0	26.7 (0)	86.0	5.28
		e	19 28 31	Z	1.0	8.3 (0)		
22	FM	eP	19 28 04.5	Z	1.3	37.2 (0)	89.0	5.43
		e	19 28 48	Z	1.1	23.0 (0)		
22	LC	eP	19 28 40.4	Z	1.0	47.3 (0)	97.0	6.05
						AVG.		5.75
22	19 15 29.7		32.3 N 130.3 E H =185 KM			COAST OF KYUSHU, JAPAN		
22	LC	eP	21 15 14.9	Z	0.3	4.6 (0)	1.5	
		eS	21 15 34	T	0.4	12.4 (0)		
22	CP	eP	22 18 17.7	Z	0.3	3.6 (0)	1.9	
		eS	22 18 43	T	0.4	9.6 (0)		
23	CP	iP	01 24 12.2D	Z	0.2	6.9 (0)	0.3	
		eS	01 24 18	R	0.3	18.5 (0)		
23	CP	eP	01 34 57.3	Z	0.2	0.8 (0)	2.9	
		eS	01 35 34	T	0.3	2.7 (0)		
23	CP	iP	01 47 36.0C	Z	0.2	6.9 (0)	0.3	
		eS	01 47 41	R	0.3	38.8 (0)		
		iP	01 49 35.7C	Z	0.2	2.6 (0)		
		eS	01 49 41	R	0.3	21.2 (0)		
23	03 54 38.4		36.0 N 139.2 E H =115 KM			HONSHU+ JAPAN		
23	MV	eP	04 06 09.0	Z	1.0	4.6 (0)	75.0	4.25
23	WI	eP	04 06 16.6	Z	0.7	4.1 (0)	76.0	4.36
23	MN	eP	04 06 24.5	Z	0.5	1.8 (0)	78.0	4.15
23	FM	eP	04 06 42.3	Z	0.7	8.9 (0)	80.0	4.69
23	CP	eP	04 06 48.5	Z	0.8	10.6 (0)	81.0	4.71
23	NG	eP	04 07 20.5	Z	0.7	8.5 (0)	87.0	4.85
23	LC	eP	04 07 21.0	Z	0.7	1.2 (0)	89.0	4.14
						AVG.		4.45
23	MN	eP	04 20 39.7	Z	0.2	1.0 (0)	1.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23		e	04 20 42	Z	0.3	17.9 (0)		
		eS	04 21 02	R	0.4	30.6 (0)		
23	WI	eP	04 21 04.0	Z	0.3	0.6 (0)	4.4	
		e	04 21 07	Z	0.3	1.3 (0)		
		e	04 21 12	Z	0.3	2.0 (0)		
		e	04 21 15	Z	0.5	9.8 (0)		
		eS	04 21 57	R	0.5	51.6 (0)		
23	DH	eLR	05 23 20	LZ	30	11.2 (2)		
23	NG	eLR	05 30 00	LZ	30	11.9 (2)		
23	SJ	eLR	05 34 00	LT	30	10.3 (2)		
23	LC	eL	05 36 00	LR	30	34.8 (1)		
23	FM	eLR	05 37 00	LZ	33	33.1 (1)		
23	MN	eLR	05 40 00	LZ	32	47.8 (1)		
23	CP	eLR	05 40 50	LZ	35	93.0 (1)		
23	WI	eLR	05 41 30	LZ	35	26.8 (1)		
23	MV	eLR	05 45 00	LZ	22	47.5 (1)		
23	MN	eP	05 46 13.4	Z	0.3	0.5 (0)	1.7	
		e	05 46 15	Z	0.3	3.8 (0)		
		eS	05 46 36	R	0.4	3.1 (0)		
23	05 58 04.9		42.9 N 143.4 E H =025 KM			HOKKAIDO, JAPAN		
						MAG 7.00-7.25 PAS		
23	MV	eP	FS 06 09 05.7	Z	0.9	26.4 (0)	68.0	5.32
		eP	06 09 06	LZ	18	13.2 (3)		
		eP	06 09 09.8	Z	0.9	20.0 (1)		6.26
		e	06 11 00	Z	1.4	18.9 (0)		
		ePP	06 11 26	LZ	19	32.6 (2)		
		e	06 13 13	Z	1.5	10.1 (1)		
		ePPP	06 13 35	LZ	20	50.8 (2)		
		eS	06 18 05	T	4.0	18.9 (2)		
		eS	06 18 10	LT	23	22.8 (3)		
		eSCS	06 18 42	R	3.5	33.5 (1)		
		eSS	06 22 10	LT	23	17.4 (3)		
		eSSS	06 25 51	LT	25	18.1 (3)		
		eLR	06 33 00	LZ	35	12.1 (3)		
		eP'P'	06 37 23	Z	2.5	44.1 (1)		
		e	06 45 57	Z	1.2	7.6 (0)		
23	MV	eLR	08 15 00	LZ	35	33.1 (2)	292.0	
23	WI	eP	FS 06 09 12.4	Z	1.0	22.6 (0)	69.0	5.27
		eP	06 09 13	LZ	18	44.8 (2)		
		eP	06 09 16.3	Z	1.0	22.2 (1)		6.28
		ePP	06 11 40	LZ	20	48.8 (2)		
		e	06 14 38	LR	17	37.8 (2)		
		e	06 16 32	LR	22	22.1 (2)		
		eS	06 18 15	LT	22	71.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	06 18 17	R	4.2	25.0 (2)		
		eSCS	06 19 14	R	4.0	23.0 (2)		
		eSS	06 22 32	LT	30	16.4 (3)		
		eSSS	06 25 52	LT	35	21.2 (3)		
		ePKKP	06 29 10	Z	1.3	8.5 (0)		
		eLR	06 29 49	LZ	30	13.6 (3)		
		eP'P'	06 37 22	Z	1.5	70.5 (0)		
		e	06 46 02	Z	1.2	84.0 (0)		
		e	06 57 20	Z	1.4	10.5 (0)		
		eLR	07 00 25	LZ	23	52.5 (2)		
23	MN	eP FS	06 09 21.3	Z	1.0	46.8 (0)	71.0	5.50
		eP	06 09 23	LZ	19	14.2 (3)		
		eP	06 09 25.3	Z	1.0			
		ePP	06 12 15	LZ	23	48.0 (2)		
		eS	06 18 33	T	4.0	27.9 (2)		
		eS	06 18 35	LT				
		eSCS	06 19 19	R	3.0	14.1 (2)		
		e	06 19 46	R	3.5	13.9 (2)		
		e	06 20 22	T	4.0	15.1 (2)		
		e	06 22 05	T	5.5	20.7 (2)		
		eSS	06 22 35	LR				
		eSSS	06 26 45	LR				
		ePKKP	06 29 07	Z	1.0	1.6 (0)		
		eLR	06 30 10	LZ				
		eP'P'	06 37 12	Z	1.0	8.3 (0)		
		e	06 37 47	Z	1.7	63.6 (0)		
23	MN	eLR	08 15 00	LZ	40	10.7 (3)	289.0	
23	FM	eP FS	06 09 39.6	Z	0.7	22.4 (0)	74.0	5.20
		eP	06 09 42	LZ	18	93.5 (2)		
		eP	06 09 44.0	Z	0.7	30.2 (1)		6.33
		e	06 10 04	Z	0.7	14.3 (1)		
		ePP	06 12 32	LZ	21	37.0 (2)		
		ePP	06 12 33	Z	1.8	48.0 (1)		
		eS	06 19 00	LR	24	96.6 (2)		
		eS	06 19 09	T	3.0	15.1 (2)		
		eSS	06 23 30	LR	24	60.6 (2)		
		eSSS	06 27 25	LR	27	12.7 (3)		
		eLR	06 31 55	LZ	28	92.4 (2)		
23	CP	eP FS	06 09 49.5	Z	0.9	22.8 (0)	76.0	5.23
		eP	06 09 50	LZ	18	15.2 (3)		
		eP	06 09 53.7	Z	0.9	23.9 (1)		6.25
		e	06 11 30	LZ	20	36.1 (2)		
		ePP	06 12 41	Z	1.5	11.3 (1)		
		eS	06 19 25	R	4.5	34.0 (2)		
		eS	06 19 27	LR	23	25.7 (3)		
		eSCS	06 20 00	T	4.0	14.1 (2)		
		eSS	06 24 20	LR	24	23.3 (3)		
		eSSS	06 27 50	LR	24	17.4 (3)		
		eLQ	06 30 00	LT	24	13.5 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	06 32 30	LZ	25	19.9 (3)		
		eP'P'	06 37 12	Z	1.0	2.8 (0)		
23	CP	eLR	08 13 30	LZ	25	23.8 (2)	284.0	
23	NG	eP FS	06 10 18.0	Z	1.0	66.0 (0)	81.0	5.53
		eP	06 10 20	LZ	18	14.5 (3)		
		eP	06 10 22.3	Z	1.1	50.4 (1)		6.41
		e	06 11 02	Z	0.7	51.2 (1)		
		ePP	06 13 28	LZ	20	10.8 (3)		
		ePP	06 13 29	Z	2.0	15.7 (2)		
		ePPP	06 15 28	LZ	18	83.2 (2)		
		eS	06 20 22	T	3.0	20.1 (2)		
		eS	06 20 22	LT	23	25.7 (3)		
		eSS	06 25 40	LT	23	16.7 (3)		
		eSSS	06 29 06	LT	29	17.8 (3)		
		eLQ	06 35 40	LT	40	55.5 (3)		
		eR'P'	06 37 04	Z	1.2	27.7 (0)		
		eSKPP'	06 40 33	Z	2.5	45.1 (1)		
23	NG	eLR	08 13 35	LZ	32	86.7 (2)	279.0	
23	LC	eP FS	06 10 23.3	Z	1.1	40.4 (0)	82.0	5.39
		eP	06 10 24	LZ	19	10.0 (3)		
		eP	06 10 27.3	Z	1.1	21.7 (1)		6.12
		e	06 11 28	Z	1.0	88.5 (0)		
		ePP	06 13 30	LZ	22	62.5 (2)		
		ePP	06 13 32	Z	1.8	38.8 (1)		
		ePPP	06 16 00	LZ	24	31.5 (2)		
		eS	06 20 35	R	3.0	35.7 (1)		
		eS	06 20 39	LR	19	82.3 (2)		
		eSS	06 25 35	LT	23	10.9 (3)		
		ePKKP	06 28 45	Z	1.0	4.7 (0)		
		eSSS	06 29 15	LT	38	25.2 (3)		
		eLQ	06 32 00	LT	40	31.6 (3)		
		eP'P'	06 37 00	Z	1.1	6.2 (1)		
		eSKPP'	06 40 22	Z	4.0	47.8 (1)		
23	DH	eP FS	06 10 49.5	Z	1.0	90.7 (0)	87.0	5.91
		eP	06 10 50	LZ	15	10.9 (3)		
		eP	06 10 53.4	Z	1.0	65.3 (1)		6.77
		ePP	06 14 10	Z	1.3	30.2 (1)		
		ePP	06 14 18	LZ	17	90.1 (2)		
		ePPP	06 16 15	LZ	18	37.5 (2)		
		eSKS	06 21 15	T	3.5	22.1 (2)		
		eSKS	06 21 18	LT	23	11.0 (3)		
		eS	06 21 33	T	3.0	25.1 (2)		
		eS	06 21 38	LT	22	37.5 (2)		
		ePS	06 22 40	LT	42	25.1 (3)		
		eSS	06 27 40	LT	45	38.6 (3)		
		eSSS	06 30 55	LR	40	31.6 (3)		
		eLR	06 36 00	LZ	30	13.1 (3)		
23	DH	eLR	08 05 00	LZ	30	11.2 (3)	273.0	
23	SJ	eP FS	06 11 09.0	Z	0.8	37.3 (0)	91.0	5.74

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	06 11 09	LZ	18	18.7 (3)		
		eP	06 11 12.9	Z	0.8	13.7 (1)		6.31
		ePP	06 14 33	LZ	18	10.6 (3)		
		ePP	06 14 43	Z	1.4	35.4 (1)		
		eS	06 21 45	LT	21	12.3 (3)		
		eS	06 22 01	R	3.5	30.0 (2)		
		eLR	06 41 00	LZ	37	98.6 (2)		
						FS.	AVG.	5.45 6.34
23	MN	eP	06 49 05.0	Z	0.4	13.3 (0)	1.0	
		eS	06 49 18	R	0.5	12.9 (0)		
23	MV	eP	06 49 21.7	Z	0.2	2.8 (0)	1.7	
		eS	06 49 45	R	0.3	8.6 (0)		
23	CP	iP	07 15 11.0D	Z	0.2	6.9 (0)	0.3	
		eS	07 15 16	R	0.3	15.7 (0)		
23	MN	eP	08 57 39.1	Z	0.3	1.6 (0)	1.4	
		eS	08 57 56	R	0.5	6.4 (0)		
23	MN	eP	09 09 36.3	Z	0.2	2.5 (0)	1.0	
		eS	09 09 49	R	0.3	3.1 (0)		
23	09 51 17.6		51.6 N 159.6 E			S. E. COAST OF KAMCHATKA		
			H = 019 KM					
23	WI	eP	10 00 55.7	Z	1.0	2.0 (0)	56.0	4.11
		e	10 01 13	Z	1.0	8.2 (0)		
		e	10 01 29	Z	1.1	4.1 (0)		
23	MN	eP	10 01 09.0	Z	0.9	2.7 (0)	58.0	4.27
23	FM	eP	10 01 30.3	Z	0.6	7.4 (0)	61.0	4.97
23	LC	eP	10 02 23.5	Z	1.0	2.3 (0)	69.0	4.24
						AVG.		4.40
23	MN	eP	11 06 12.0	Z	0.2	0.5 (0)	1.3	
		e	11 06 14	Z	0.2	2.0 (0)		
		eS	11 06 28	R	0.5	5.5 (0)		
23	CP	eP	13 47 04.1	Z	0.2	4.3 (0)	0.1	
		eS	13 47 08	R	0.3	16.6 (0)		
23	CP	eP	14 37 48.0	Z	0.4	2.7 (0)	2.5	
		e	14 37 53	Z	0.4	9.3 (0)		
		e	14 37 57	Z	0.4	42.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	14 38 09	R	0.5	20.8 (0)		
		eS	14 38 20	R	0.5	36.4 (0)		
23	CP	eP	14 44 15.0	Z	0.2	0.8 (0)	2.1	
		eS	14 44 42	R	0.3	2.7 (0)		
23	14 51 26.0		06.9 S 128.4 E			BANDA SEA		
			H = 083 KM					
23	WI	eP	15 24 49.0	Z	0.3	0.6 (0)	3.0	
		eS	15 25 26	R	0.5	4.4 (0)		
		e	15 25 35	R	0.5	11.8 (0)		
23	16 04 31.8		51.6 N 159.6 E			KAMCHATKA		
			H = 031 KM					
23	WI	eP	16 14 05.8	Z	0.7	1.0 (0)	56.0	3.97
23	MN	eP	16 14 16.1	Z	1.0	1.6 (0)	57.0	4.02
		e	16 14 35	Z	1.0	6.6 (0)		
23	MV	eP	16 14 19.0	Z	0.7	4.6 (0)	57.0	4.62
23	FM	eP	16 14 44.9	Z	0.8	11.1 (0)	61.0	5.01
23	LC	eP	16 15 39.0	Z	1.0	2.3 (0)	69.0	4.28
						AVG.		4.38
23	21 06 04.2		05.9 S 148.4 E			BISMARCK SEA		
			H = 051 KM					
24	MN	iP	00 59 32.4C	Z	0.3	5.8 (0)	0.9	
		eS	00 59 45	R	0.4	4.8 (0)		
24	CP	eP	02 32 33.4	Z	0.3	32.0 (0)	1.2	
		eS	02 32 49	R	0.4	22.6 (0)		
24	LC	eP	03 09 40.3	Z	0.7	1.1 (0)		
24	LC	eP	04 33 19.4	Z	1.0	11.8 (0)		
24	MN	eP	04 33 44.0	Z	1.5	17.1 (0)		
24	LC	e	04 35 17	Z	1.2	11.5 (0)		
24	CP	eP	04 35 54.0	Z	1.0	5.6 (0)		
24	MN	e	04 36 22	Z	1.1	5.3 (0)		
24	MN	eL	04 57 30	LZ	22	16.9 (1)		
24	MN	eP	05 32 46.2	Z	1.0	2.7 (0)		
24	LC	eP	05 33 15.0	Z	1.0	2.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	MN	eP	07 21 00.6	Z	1.0	2.7 (0)		
24	LC	eP	07 22 13.0	Z	0.9	1.9 (0)		
24	MN	eP	10 06 05.8	Z	0.8	1.7 (0)		
24	LC	eP	11 24 43.5	Z	0.9	1.9 (0)		
24	CP	iP	14 16 49.4C	Z	0.3	48.4 (0)	1.2	
		eS	14 17 05	T				
24	MN	eP	14 18 10.0	Z	0.6	1.1 (0)		
24	14 19 53.8		37.4 N 071.1 E				HINDU KUSH	
			H =032 KM					
24	MN	eP	15 26 25.0	Z	0.8	1.7 (0)		
24	MN	e	15 27 43	Z	1.4	10.5 (0)		
24	16 06 23.7		02.2 S 076.1 W				ECUADOR-PERU BORDER	
			H =175 KM					
24	SJ	eP	16 13 15.8	Z	0.7	9.9 (0)	37.0	4.64
		epP	16 13 48	Z	0.8	37.3 (0)		
		epP	16 13 48	LZ	12	67.9 (1)		
		e	16 15 10	LZ	12	67.9 (1)		
		esS	16 19 51	LT	17	37.2 (1)		
		eL	16 23 50	LT	32	87.8 (1)		
24	DH	eP	16 14 17.7	Z	1.0	77.2 (0)	44.0	5.16
		epP	16 14 53	Z	1.1	75.2 (0)		
24	LC	iP	16 14 23.2D	Z	0.8	35.6 (0)	45.0	4.92
		epP	16 14 58	Z	1.0	70.7 (0)		
		epP	16 15 00	LZ	13	19.6 (1)		
		e	16 15 07	Z	1.2	27.0 (0)		
		e	16 16 42	Z	0.8	5.9 (0)		
		eSCP	16 19 41	Z	1.1	24.4 (0)		
		eS	16 20 51	R	1.2	8.1 (0)		
		eS	16 20 55	LR	20	27.7 (1)		
		esS	16 21 50	LT	18	35.1 (1)		
		eSS	16 24 07	LT	15	31.2 (1)		
		esSS	16 25 20	LT	28	43.6 (1)		
24	NG	eP	16 14 51.6	Z	0.7	8.6 (0)	49.0	4.41
		epP	16 15 27	Z	0.8	43.0 (0)		
24	CP	eP	16 15 13.7	Z	0.9	13.6 (0)	52.0	4.61
		epP	16 15 49	Z	1.0	14.0 (0)		
		e	16 16 25	Z	1.0	8.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	FM	eP	16 17 04	Z	0.7	5.6 (0)		
		eP	16 15 24.3	Z	0.8	33.5 (0)	53.0	5.12
		epP	16 15 59	Z	0.9	57.6 (0)		
24	MN	iP	16 15 46.4D	Z	0.8	18.1 (0)	56.0	4.93
		epP	16 16 22	Z	1.0	28.7 (0)		
		e	16 16 33	Z	1.3	17.1 (0)		
		e	16 24 50	Z	1.0	2.7 (0)		
							AVG.	4.83
24	18 09 30.0		05.8 S 154.6 E				SOLOMON ISLANDS	
			H =092 KM					
24	LC	eP	19 10 31.7	Z	0.3	1.5 (0)	0.6	
		eS	19 10 40	R	0.4	12.4 (0)		
24	LC	eP	21 28 09.2	Z	0.3	7.6 (0)	1.4	
		eS	21 28 27	T	0.4	20.7 (0)		
24	NG	eP	22 41 04.3	Z	0.3	5.7 (0)	0.7	
		eS	22 41 14	R	0.4	11.1 (0)		
		e	22 41 18	Z	1.0	13.6 (1)		
25	CP	eP	01 09 44.4	Z	0.2	5.7 (0)	1.4	
		e	01 09 48	Z	0.3	10.3 (0)		
		eS	01 10 02	T	0.3	30.0 (0)		
25	03 28 56.1		54.0 N 160.3 E				KAMCHATKA	
			H =029 KM					
25	WI	eP	03 38 20.2	Z	1.0	6.0 (0)	54.0	4.58
		eL	03 55 10	LZ	25	41.7 (1)		
25	MN	eP	03 38 31.8	Z	0.7	5.5 (0)	56.0	4.70
		eL	03 57 32	LZ	25	27.6 (1)		
25	FM	eP	03 38 51.8	Z	0.7	9.0 (0)	58.0	4.91
25	CP	eP	03 39 07.4	Z	0.7	1.4 (0)	61.0	4.18
25	LC	eP	03 39 45.2	Z	0.7	3.5 (0)	67.0	4.61
25	DH	eP	03 40 26.8	Z	0.7	9.5 (0)	73.0	4.93
							AVG.	4.65
25	MN	iP	04 00 38.1C	Z	0.3	10.3 (0)	0.9	
		eS	04 00 50	R	0.4	15.7 (0)		
25	LC	eP	04 22 30.4	Z	1.0	4.7 (0)		
25	04 44 51.3		45.3 N 005.2 E				SOUTHEASTERN FRANCE	
			H =030 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	LC	eP	04 57 09.2	Z	0.6	0.9 (0)	82.0	4.02
		eL	05 30 45	LZ	20	36.4 (1)		
25	FM	eL	05 29 15	LZ	20	24.0 (1)	79.0	
						AVG.		4.02
25	05 55 20.4		20.9 S 175.1 W				TONGA ISLANDS	
			H = 103 KM					
25	MN	eP	06 07 21.4	Z	0.8	3.4 (0)	80.0	4.24
		eL	06 34 18	LZ	20	23.2 (1)		
25	LC	eP	06 07 43.3	Z	0.8	1.4 (0)	85.0	3.97
		eL	06 37 00	LZ	20	45.4 (1)		
						AVG.		4.11
25	06 22 28.0		38.1 M 020.6 E				IONIAN SEA	
			H = 025 KM					
25	LC	eP	06 27 04.5	Z	0.8	2.9 (0)		
25	MN	eP	06 28 44.4	Z	0.8	4.3 (0)		
25	WI	eP	06 28 57.4	Z	0.8	2.5 (0)		
25	08 48 58.2		38.5 N 118.1 W				NEVADA-CALIFORNIA BORDER	
			H = 025 KM					
25	MV	eP	08 49 34.5	Z	0.3	4.9 (0)	2.2	
		e	08 49 38	Z				
25	WI	eP	08 49 42.0	Z	0.3	1.3 (0)	2.8	
		e	08 49 44	Z	0.5	10.4 (0)		
		eL	08 50 40	LT	13	44.0 (1)		
25	FM	eP	08 50 22.3	Z	0.4	17.8 (0)	5.6	5.04
		eS	08 51 28	R	0.5	63.2 (0)		
25	CP	eP	08 50 30.6	Z	0.5	1.0 (0)	5.8	3.77
		e	08 50 44	Z	0.6	4.8 (0)		
		eLG	08 52 02	T	0.7	8.8 (0)		
25	LC	eL	08 54 52	Z	1.3	9.8 (0)	11.0	
						AVG.		4.41
25	MN	eL	09 04 41	LZ	21	37.1 (1)		
25	WI	eP	10 34 50.5	Z	0.3	3.2 (0)		
25	WI	eS	10 35 32	T	0.4	15.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	MN	eL	14 45 40	LZ	25	18.4 (1)		
25	15 47 29.4		38.4 N 142.5 E				HONSHU, JAPAN	
			H = 056 KM					
25	MV	eP	15 58 44.9	Z	0.7	10.6 (0)	71.0	4.93
25	WI	eP	15 58 52.5	Z	1.0	16.1 (0)	73.0	4.94
		eS	16 08 15	LT	23	28.3 (2)		
		ePS	16 09 00	LR	23	32.1 (2)		
		eSS	16 12 43	LT	29	16.8 (2)		
		eSSS	16 16 15	LT	28	11.8 (2)		
		eL	16 16 50	LR	23	30.7 (2)		
		eLR	16 21 33	LZ	27	47.4 (2)		
25	MN	eP	15 59 05	LZ	20	32.5 (1)	75.0	
		eS	16 08 29	LT	20	26.1 (2)		
		ePS	16 09 06	LR	25	25.0 (2)		
		e	16 09 48	LZ	19	11.0 (2)		
		eSS	16 13 23	LT	26	13.2 (2)		
		eSSS	16 17 00	LR	20	14.0 (2)		
		eG	16 18 20	LT	29	44.8 (2)		
		eLR	16 21 46	LZ	23	48.1 (2)		
25	FM	eP	15 59 18.3	Z	0.9	14.5 (0)	77.0	4.96
		eP	15 59 23	LZ	15	37.6 (1)		
		eS	16 09 07	LR	26	35.6 (2)		
		ePS	16 09 38	LT	27	20.5 (2)		
		eSS	16 13 47	LR	25	11.8 (2)		
		eSSS	16 17 05	LR	27	11.5 (2)		
		eL	16 20 58	LR	25	19.0 (2)		
		eLR	16 24 05	LZ	23	33.4 (2)		
25	CP	eP	15 59 25.6	Z	1.0	14.3 (0)	78.0	4.91
		eP	15 59 33	LZ	13	88.3 (1)		
		eS	16 09 20	LT	22	23.3 (2)		
		eSS	16 14 18	LT	23	17.9 (2)		
		eSSS	16 17 50	LT	23	12.5 (2)		
		eL	16 20 08	LR	27	24.9 (2)		
		eLR	16 23 23	LZ	22	52.8 (2)		
25	NG	eP	15 59 57.2	Z	0.8	11.0 (0)	84.0	4.99
		eP	16 00 00	LZ	15	63.7 (1)		
		eS	16 10 17	LR	20	77.4 (1)		
		eSS	16 16 00	LR	20	42.5 (2)		
		e	16 22 25	LR	23	23.3 (2)		
		eL	16 27 22	LR	28	37.9 (2)		
		eL	16 31 05	LZ	27	23.6 (2)		
25	LC	eP	15 59 59.5	Z	1.0	16.4 (0)	85.0	5.06
		eP	16 00 02	LZ	18	42.6 (1)		
		eS	16 10 26	LT	27	20.5 (2)		
		ePS	16 11 26	LR	23	14.7 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
25	DH	eSS	16 16 10	LR	23	15.6 (2)	93.0	5.62		
		eSSS	16 19 25	LT	23	64.6 (1)				
		e	16 19 47	LR	28	15.1 (2)				
		eLQ	16 22 33	LT	25	43.2 (2)				
		eLR	16 27 30	LZ	23	27.1 (2)				
		eP	16 00 37.3	Z	0.8	23.8 (0)				
		e	16 00 53	Z	1.4	14.6 (1)				
		eS	16 11 40	LR	20	21.0 (2)				
		e	16 17 25	LR	22	12.9 (2)				
		eLQ	16 25 00	LR	30	18.7 (2)				
		eL	16 36 36	LZ	25	29.8 (2)				
		eP	16 00 40	LZ	13	92.4 (1)			93.0	
		eSKS	16 11 10	LR	23	15.7 (2)				
		eS	16 11 53	LT	23	42.0 (2)				
25	SJ	eSS	16 18 20	LT	21	24.2 (2)	93.0	5.06		
		eSSS	16 21 57	LT	20	27.4 (2)				
		eLQ	16 24 20	LT	27	23.4 (2)				
						AVG.				

25	WI	eP	15 54 54.6	Z	0.5	8.1 (0)		
25	FM	eP	15 55 27.1	Z	0.5	7.5 (0)		
25	FM	eL	15 56 43	R	0.6	31.1 (0)		
25	MN	eP	18 21 46.5C	Z	0.3	4.0 (0)	0.6	
		eS	18 21 55	R	0.4	14.6 (0)		
25	SJ	eP	18 44 30.0	Z	0.6	16.5 (0)		
25	MN	eP	18 47 16.3	Z	0.9	3.3 (0)		
25	CP	eP	19 24 43.7	Z	0.3	9.3 (0)	0.4	
		eS	19 24 50	R	0.4	20.8 (0)		

25 19 49 57.3 38.4 N 142.7 E HONSHU, JAPAN
H = 120 KM

25	MN	eP	20 01 24.1	Z	0.8	0.8 (0)	74.0	3.62
25	LC	eP	20 02 24.2	Z	0.7	1.1 (0)	86.0	3.91
		eS	20 12 50	LT	20	18.5 (1)		
		eLQ	20 27 20	LT	23	46.1 (1)		
				AVG.			3.77	

25	LC	eP	21 04 31.7	Z	0.3	3.8 (0)	2.8	
		eS	21 05 07	T	0.4	8.3 (0)		

26	WI	eP	01 30 37.1	Z	0.3	13.1 (0)	3.4	
		eS	01 31 19	R	0.4	7.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	MV	eP	01 31 55.0	Z	0.5	5.8 (0)	1.0	
		eS	01 32 08	R	0.6	20.1 (0)		
26	FM	eP	01 32 42.5	Z	0.4	6.0 (0)	5.5	
		eS	01 33 49	T	0.5	12.9 (0)		
26	02 44 10.8	05.8 S 147.3 E	BISMARCK SEA					
				H = 068 KM				
26	03 11 33.8	44.4 N 078.4 E	KAZAKH, S. S. R.					
				H = 025 KM				
26	DH	eP	03 24 35.5	Z	0.6	8.0 (0)	91.0	5.21
26	NG	eP	03 24 39.4	Z	0.8	8.8 (0)	92.0	5.11
26	WI	eP	03 24 49.4	Z	1.0	4.0 (0)	94.0	4.73
26	MN	eP	03 25 01.5	Z	1.0	2.6 (0)	96.0	4.71
				AVG.				4.94

26 07 26 31.3 17.8 S 179.1 W FIJI ISLANDS
H = 689 KM

26	CP	eP	07 37 28.5	Z	0.6	24.4 (0)	79.0	4.90		
		e	07 39 27	Z	2.5	34.7 (1)				
		eS	07 46 42	R	2.4	90.6 (0)				
26	MV	eP	07 37 28.6	Z	0.8	32.1 (0)	80.0	4.89		
		epP	07 39 27	Z	2.5	17.0 (1)				
		eS	07 46 42	R	1.5	2.6 (0)				
		eS	07 46 42	LR	22	35.1 (1)				
		ess	07 50 30	LR	22	32.1 (1)				
		eSS	07 51 58	LR	22	35.1 (1)				
		esSS	07 55 38	LR	22	21.0 (1)				
		e	07 58 37	LR	20	42.3 (1)				
		26	MN	eP	07 37 37.0	Z	0.8	20.4 (0)	81.0	4.69
				epP	07 39 36	Z	2.6	41.9 (1)		
26	WI	eS	07 46 56	T	3.2	10.0 (1)				
		eS	07 46 57	LT	25	51.3 (1)				
		ess	07 51 17	LT	28	14.5 (2)				
		eSS	07 52 30	LT	25	51.3 (1)				
		esSS	07 56 05	LT	22	46.9 (1)				
		e	07 59 08	LT	25	70.0 (1)				
		eP	07 37 48.2	Z	0.7	31.2 (0)	83.0	4.95		
		epP	07 39 51	Z	1.5	46.6 (0)				
26	WI	e	07 47 18	R	2.5	53.3 (0)				
		e	07 47 18	LR	20	73.5 (1)				
26	WI	esS	07 50 57	LR	20	53.4 (1)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	FM	eSS	07 52 52	LR	25	46.3 (1)	85.0	5.03
		esSS	07 56 10	LT	22	27.0 (1)		
		e	07 59 30	LR	32	60.2 (1)		
		eP	07 37 59.5	Z	0.8	34.1 (0)		
		eS	07 47 46	LT	17	90.3 (1)		
		esS	07 51 25	LT	20	80.8 (1)		
		epP	07 40 05	Z	2.0	12.9 (1)		
		e	07 48 45	LR	17	48.2 (1)		
		e	07 52 26	LR	30	44.1 (1)		
		eSS	07 53 28	LR	32	60.8 (1)		
		eSSS	07 57 27	LR	30	55.2 (1)		
		e	08 00 35	LR	25	46.7 (1)		
		eP	07 38 00.1	Z	0.8	31.8 (0)		
		epP	07 40 08	Z	1.5	76.1 (0)		
		eS	07 47 57	R	2.5	69.3 (0)		
26	LC	eS	07 47 57	LT	20	69.6 (1)	85.0	5.00
		esS	07 51 40	LT	22	49.5 (1)		
		eSS	07 54 02	LT	22	39.6 (1)		
		eSSS	07 57 08	LT	30	34.8 (1)		
		e	08 00 43	LT	25	49.2 (1)		
		eP	07 38 29.5	Z	0.7	39.1 (0)		
		epP	07 40 32	Z	1.5	64.2 (0)		
		eSKS	07 47 45	LT	18	14.5 (2)		
		e	07 51 40	LT	22	92.8 (1)		
		ePD	07 39 26.6	Z	0.7	8.8 (0)		
		eS	07 50 30	LT	15	84.0 (1)		
		esS	07 54 25	LT	20	26.8 (1)		
		eSS	07 57 48	LT	20	10.7 (2)		
		e	08 02 45	LT	20	79.7 (1)		
		e	08 08 37	LT	25	79.7 (1)		
							AVG.	5.04
26	WI	eP	08 35 54.6	Z	0.7	2.0 (0)		
		eP	08 54 01.7	Z	1.0	4.6 (0)		
26	15 10 55.5	51.7 N 159.3 E	KAMCHATKA					
			H = 025 KM					
26	WI	eP	15 20 30.4	Z	1.0	2.0 (0)	55.0	4.10
26	15 53 12.2	28.5 N 057.2 E	SOUTHERN IRAN					
			H = 041 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	LC	eP	16 04 57.4	Z	0.7	3.4 (0)		
		e	16 07 49	Z	0.5	1.6 (0)		
		eP	16 09 42.6	Z	0.7	5.0 (0)		
26	LC	eP	18 07 43.5	Z	0.3	0.7 (0)		2.9
		eS	18 08 20	T	0.5	3.6 (0)		
26	LC	eP	18 32 17.0	Z	1.0	6.9 (0)		
26	MN	eP	18 33 29.0	Z	1.0	2.6 (0)		
26	WI	eP	18 33 38.0	Z	0.8	6.3 (0)		
		e	18 33 59	Z	1.0	10.0 (0)		
26	DH	eP	20 49 54.8	Z	0.3	12.4 (0)		1.3
		eS	20 50 11	R	0.5	29.7 (0)		
26	LC	eP	23 08 57.2	Z	1.0	6.9 (0)		
26	SJ	eP	23 09 40.6	Z	0.4	12.8 (0)		
27	06 30 24.9	23.1 S 179.2 E	FIJI ISLANDS REGION					
			H = 576 KM					
27	06 47 27.0	44.4 S 074.8 W	SOUTHERN CHILE					
			H = 031 KM					
27	16 28 18.7	33.2 S 179.3 W	KERMADEC ISLANDS					
			H = 025 KM					
27	17 19 14.0	40.8 N 139.5 E	COAST OF HONSHU, JAPAN					
			H = 025 KM					
28	CP	eP	02 06 09.7	Z	0.2	2.2 (0)		1.1
		eS	02 06 24	T	0.2	20.9 (0)		
28	LC	eP	05 11 10.2	Z	0.3	3.0 (0)		
28	CP	eP	05 11 51.0	Z	0.3	8.0 (0)		0.7
		eS	05 12 01	R	0.3	36.0 (0)		
28	LC	eL	05 12 43	R	0.5	5.0 (0)		
28	LC	eP	06 19 39.6	Z	1.0	5.0 (0)		
28	07 37 27.8	02.6 S 139.3 E	NEW GUINEA					
			H = 124 KM					
28	MN	eP	08 13 47.9	Z	0.4	2.0 (0)		1.3

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	08 14 00	R	0.5	3.0 (0)		
		eS	08 14 04	R	0.5	8.0 (0)		
28	09 01 10.5		43.9 N 146.3 E				HOKKAIDO, JAPAN	
			H = 155 KM					
28	MV	eP	09 11 42.6	Z	0.6	6.0 (0)	66.0	4.60
28	WI	eP	09 11 49.5	Z	0.7	4.0 (0)	67.0	4.35
28	MN	eP	09 11 59.0	Z	0.6	6.0 (0)	69.0	4.55
28	FM	eP	09 12 17.6	Z	0.7	9.0 (0)	72.0	4.66
28	LC	eP	09 13 02.9	Z	0.6	3.0 (0)	80.0	4.25
							AVG.	4.41
28	LC	eP	10 04 06.5	Z	0.8	1.0 (0)		
28	11 18 57.4		36.4 N 026.6 E				DODECANESE ISLANDS	
			H = 040 KM					
28	NG	eP	11 31 01.7	Z	1.0	33.0 (0)	80.0	5.18
		eS	11 41 05	LR	15	11.6 (2)		
		eSS	11 46 25	LT	20	42.0 (1)		
		eL	11 59 07	LZ	31	22.2 (2)		
28	FM	eP	11 32 22.2	Z	0.6	7.0 (0)	96.0	5.36
		eL	12 00 45	LZ	35	10.9 (2)		
28	WI	eP	11 32 23.4	Z	1.0	12.0 (0)	96.0	5.22
		eL	12 07 00	LR	34	14.5 (2)		
28	MN	eP	11 32 36.8	Z	1.0	3.0 (0)	99.0	4.94
		eSKS	11 43 14	LT	13	42.8 (1)		
		eSP	11 45 40	LZ	20	18.0 (1)		
		eSPP	11 46 28	LZ	20	32.4 (1)		
		e	11 55 02	LT	22	54.2 (1)		
		e	12 00 37	LR	30	61.5 (1)		
		eL	12 03 37	LR	40	22.2 (2)		
28	LC	eP	11 32 37.4	Z	1.0	5.0 (0)	99.0	5.16
		eSP	11 45 41	LZ	15	27.5 (1)		
		eSPP	11 46 39	LZ	19	37.9 (1)		
28	SJ	eSKS	11 43 17	LT	20	63.4 (1)	98.0	
		e	11 45 03	LT	19	79.9 (1)		
		e	11 46 25	LT	21	63.1 (1)		
		e	11 55 26	LT	27	55.6 (1)		
		e	11 58 32	LT	24	84.0 (1)		
		eL	12 08 10	LT	32	21.8 (2)		
28	MV	eL	12 08 28	LR	26	11.1 (2)	99.0	
28	CP	eL	13 12 35	LZ	21	12.6 (2)	102.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	5.17
28	MN	eP	11 31 08.3	Z	0.9	3.0 (0)		
28	NG	eP	11 31 15.7	Z	1.2	10.7 (1)		
28	LC	eP	11 31 35.2	Z	0.9	6.0 (0)		
28	CP	eP	11 31 57.0	Z	0.4	25.0 (0)	0.6	
		eS	11 32 05	R	0.4	20.0 (0)		
28	CP	eP	11 40 35.7	Z	0.5	3.0 (0)	3.0	
		eS	11 41 13	T	0.4	7.0 (0)		
28	LC	eP	12 34 11.5	Z	0.7	1.0 (0)		
28	MN	eP	12 35 35.3	Z	1.0	3.0 (0)		
28	12 43-49.1		36.3 N 026.7 E				DODECANESE ISLANDS	
			H = 048 KM					
28	NG	eP	12 55 52.5	Z	0.6	14.0 (0)	80.0	5.02
		eL	13 25 58	LZ	25	67.1 (1)		
28	WI	eP	12 57 13.2	Z	1.0	10.0 (0)	96.0	5.30
		eL	13 32 00	LR	32	34.5 (1)		
28	MN	eP	12 57 25.3	Z	0.8	3.0 (0)	99.0	5.02
		e	13 27 23	LR	30	82.0 (1)		
		eL	13 42 53	LZ	19	54.5 (1)		
28	LC	eP	12 57 25.8	Z	1.2	4.0 (0)	99.0	4.97
28	SJ	eL	13 30 35	LT	23	52.5 (1)	97.0	
28	FM	eL	13 36 46	LZ	24	40.2 (1)	96.0	
							AVG.	5.07
28	MN	eP	14 13 03.8	Z	1.0	2.0 (0)		
28	CP	eP	17 20 46.0	Z	0.2	9.0 (0)	0.1	
		eS	17 20 49	T	0.3	18.0 (0)		
28	LC	eP	17 47 01.5	Z	0.2	7.3 (0)	1.2	
		eS	17 47 17	R	0.3	4.0 (0)		
28	MN	eP	21 15 56.8	Z	0.5	1.0 (0)	3.1	
		e	21 16 05	Z	0.6	5.0 (0)		
		eS	21 16 36	R	0.6	5.0 (0)		
28	MN	eP	22 02 20.1	Z	0.4	5.0 (0)	0.7	
		eS	22 02 30	T	0.5	12.0 (0)		
28	MN	eP	22 25 22.8	Z	0.4	4.0 (0)	1.6	
		eS	22 25 45	R	0.6	20.0 (0)		
28	WI	eP	22 31 25.2	Z	0.3	5.0 (0)	2.7	
		eS	22 31 59	R	0.4	37.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MN	eP	23 23 23.3	Z	1.1	4.0 (0)		
28	WI	eP	23 29 21.7	Z	1.0	6.0 (0)		
28	CP	eP	23 58 45.9	Z	0.2	14.6 (0)	0.1	
		eS	23 58 49	R	0.3	25.0 (0)		
29	CP	eP	00 18 46.1	Z	0.4	4.0 (0)	3.2	
		eS	00 19 26	R	0.5	5.0 (0)		
29	CP	eP	00 49 36.4	Z	0.4	1.0 (0)	3.9	
		eS	00 50 25	R	0.6	4.0 (0)		
29	LC	eP	00 52 46.6	Z	0.5	2.0 (0)		
29	LC	eL	00 54 36	R	0.7	9.0 (0)		
29	CP	eP	01 07 12.6	Z	0.4	3.0 (0)	3.8	
		e	01 07 22	Z	0.5	13.0 (0)		
		eS	01 08 00	R				
29	LC	eP	01 08 01.8	Z	0.5	2.0 (0)		
29	MN	eP	01 09 18.1	Z	1.0	5.0 (0)		
29	LC	eL	01 10 06	R	0.8	17.0 (0)		
29	MN	eL	01 11 08	R	1.8	26.0 (0)		
29	CP	eP	01 11 14.8	Z	0.3	5.0 (0)	3.0	
		eS	01 11 52	R	0.5	20.0 (0)		
29	CP	eP	01 19 57.3	Z	0.2	8.7 (0)	0.7	
		eS	01 20 07	R				
29	CP	eP	01 28 15.0	Z	0.5	2.0 (0)	3.4	
		eS	01 28 57	T	0.6	6.0 (0)		
29	CP	eP	02 20 57.4	Z	0.4	1.0 (0)	3.4	
		eS	02 21 39	R	0.5	26.0 (0)		
29	CP	eP	03 13 39.3	Z	0.3	1.0 (0)	4.0	
		eS	03 14 28	R	0.5	20.0 (0)		
29	LC	eP	03 17 01.0	Z	0.5	1.0 (0)		
29	MN	eP	03 17 35.2	Z	1.0	2.0 (0)		
29	LC	eL	03 19 09.0	R	0.9	10.0 (0)		
29	MN	eL	03 20 11	R	1.3	7.0 (0)		
29	CP	eP	03 28 31.9	Z	0.3	1.0 (0)	3.6	
		eS	03 29 16	T	0.5	15.0 (0)		
29	LC	eP	03 29 29.6	Z	0.5	1.0 (0)		
29	LC	eL	03 31 29	R	0.9	6.0 (0)		
29	CP	eP	03 32 56.4	Z	0.4	4.0 (0)	3.2	
		eS	03 33 36	T	0.5	10.0 (0)		
29	CP	eP	03 57 04.7	Z	0.4	2.0 (0)	3.0	
		eS	03 57 42	T	0.5	15.0 (0)		
29	CP	eP	04 15 46.6	Z	0.5	3.0 (0)	3.3	
		eS	04 16 28	R	0.6	22.0 (0)		
29	CP	eP	04 21 19.0	Z	0.4	2.0 (0)	3.2	
		eS	04 21 59	T	0.5	7.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	WI	eP	06 12 19.4	Z	0.4	4.0 (0)	3.9	
		eS	06 13 07	T	0.5	10.0 (0)		
29	CP	eP	06 33 47.8	Z	0.4	1.0 (0)	3.0	
		eS	06 34 26	T	0.6	4.0 (0)		
29	07 05 36.2		18.1 S 173.9 W				TONGA ISLANDS	
			H =079 KM					
29	MN	eP	07 17 24.2	Z	1.0	7.0 (0)	77.0	4.49
29	WI	eP	07 17 36.5	Z	0.6	3.0 (0)	80.0	4.31
29	LC	eP	07 17 52.7	Z	0.7	1.0 (0)	83.0	3.81
							AVG.	4.20
29	CP	eP	08 11 15.5	Z	0.4	1.0 (0)	3.1	
		eS	08 11 54	R	0.5	4.0 (0)		
29	MN	eP	12 51 52.3	Z	0.3	3.0 (0)	1.3	
		eS	12 52 08	R	0.5	4.0 (0)		
29	SJ	eP	13 14 24.0	Z	0.6	1.0 (0)		
29	LC	eP	13 15 40.5	Z	0.5	1.0 (0)		
29	15 10 24.9		12.4 S 166.5 E				SANTA CRUZ ISLANDS	
			H =072 KM					
29	MN	eP	15 23 02.3	Z	0.7	3.0 (0)	87.0	4.48
29	WI	eP	15 23 10.0	Z	0.6	3.0 (0)	88.0	4.58
							AVG.	4.54
29	LC	eP	15 34 41.7	Z	0.2	1.0 (0)	3.0	
		e	15 34 46	Z	0.2	2.0 (0)		
		eS	15 35 19	T	0.4	7.0 (0)		
29	SJ	eP	16 28 42.8	Z	0.7	1.0 (0)		
29	CP	eP	17 47 34.5	Z	0.2	1.7 (0)	1.1	
		eS	17 47 49	T	0.3	26.0 (0)		
29	CP	eP	19 57 25.5	Z	0.2	13.1 (0)	0.3	
		eS	19 57 31	R	0.3	23.7 (0)		
29	MN	eP	20 12 50.4	Z	0.4	1.0 (0)	1.5	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MV	eS	20 12 31	R	0.5	3.0 (0)		
		eP	20 12 36.7	Z	0.4	5.0 (0)	2.0	
29	MN	eS	20 13 04	R	0.7	11.0 (0)		
29	MN	eP	20 48 08.7	Z	1.0	3.0 (0)		
29	MN	eP	20 57 56.0	Z	0.3	1.0 (0)	0.3	
		eS	20 58 01	T	0.4	4.0 (0)		
30 02 26 30.0 38.8 N 140.9 E HONSHU, JAPAN H = 140 KM								
30	MV	eP	02 37 47.2	Z	1.1	10.5 (1)	73.0	5.54
		eP	02 37 50	LZ	14	14.6 (2)		
		eS	02 47 09	R	4.5	52.8 (1)		
		eS	02 47 09	LR	20			
		ePS	02 47 50	LR	28	34.6 (2)		
		eSS	02 51 47	LR	26	13.1 (2)		
		eL	02 56 33	LT	30	38.2 (2)		
30	WI	iP	02 37 54.6C	Z	1.2	12.5 (1)	74.0	5.58
		iP	02 37 56 C	LZ	13	24.1 (2)		
		eS	02 47 23	T	5.0			
		eS	02 47 24	LT	21	94.6 (1)		
		e	02 47 50	LR	27	13.5 (2)		
		e	02 48 44	LR	30	18.9 (2)		
		eL	02 55 19	LR	22	25.4 (2)		
30	MN	iP	02 38 01.9C	Z	1.2	13.8 (1)	76.0	5.62
		iP	02 38 02 C	LZ	12	31.6 (2)		
		ePP	02 40 45	LZ	17	46.4 (1)		
		eS	02 47 35	R	3.0	15.4 (1)		
		eS	02 47 40	LR	20	62.7 (1)		
		e	02 47 48	R	3.5			
		e	02 48 12	R	3.0	15.4 (1)		
		e	02 48 15	LR	30	14.6 (2)		
		eSS	02 52 50	LT	25	23.7 (2)		
		eL	02 57 10	LT	40	77.1 (1)		
30	FM	eP	02 38 20.3	Z	1.2	22.2 (1)	79.0	5.83
		eP	02 38 21	LZ	15	12.3 (2)		
		ePP	02 41 12	LZ	20	29.7 (1)		
		eS	02 48 20	LT	22	62.8 (1)		
		ePS	02 48 50	LT	22	14.6 (2)		
		e	02 49 52	LT	22	13.6 (2)		
		eSS	02 53 00	LT	28	36.4 (1)		
30	CP	eP	02 38 26.4	Z	1.2	11.0 (1)	80.0	5.51
		eP	02 38 28	LZ	15	12.7 (2)		
		ePP	02 41 30	LZ	15	20.7 (2)		
		e	02 48 35	LT	22	91.4 (1)		
		ePS	02 49 25	LT	35	33.9 (2)		
		eSS	02 53 25	LT	25	65.4 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSSS	02 57 15	LT	25	10.9 (2)		
		eL	03 02 30	LZ	40	68.7 (2)		
30	NG	iP	02 38 59.0C	Z	0.8	75.0 (0)	87.0	5.92
		eP	02 39 03	LZ	13			
		ePP	02 42 14	T	1.0	11.0 (0)		
		ePP	02 42 23	LZ	15			
		eS	02 49 27	LR	17	95.0 (1)		
		eSS	02 55 09	LT	25	17.8 (2)		
		eL	03 06 00	LZ	14			
30	LC	iP	02 39 01.5C	Z	1.1	11.9 (1)	87.0	5.75
		eP	02 39 01	LZ	15	15.6 (2)		
		ePP	02 42 18	Z	1.6	27.0 (0)		
		eS	02 49 31	LR	25	91.5 (1)		
		e	02 50 40	LR	20	11.3 (2)		
		eSS	02 55 30	LR	29	17.6 (2)		
		eSSS	02 59 03	LR	29	19.2 (2)		
		eL	03 02 15	LT	33	29.4 (2)		
30	DH	eP	02 39 36.5	Z	1.0	14.7 (1)	95.0	6.27
		eP	02 39 37	LZ	13	73.9 (1)		
		ePP	02 43 22	LZ	18	30.0 (1)		
		eSP	02 51 55	LZ	20	59.9 (1)		
		eL	02 57 55	LT	35	17.7 (2)		
30	SJ	eP	02 39 42.7	Z	1.0	38.0 (0)	96.0	5.80
		eL	03 07 17	LT	26	34.7 (2)		
AVG. 5.76								
30	LC	eP	02 29 05.8	Z	0.5	1.0 (0)		
30	LC	eL	02 31 23	R	0.7	2.0 (0)		
30	FM	eP	04 18 31.5	Z	0.4	6.4 (0)	1.5	
		eS	04 18 51	R	0.5	17.1 (0)		
30	FM	eP	06 49 25.1	Z	0.4	6.4 (0)	1.5	
		eS	06 49 46	R	0.5	8.5 (0)		
30 07 48 46.2 06.9 N 073.0 W COLOMBIA-VENEZUELA BORDER H = 130 KM								
30	SJ	eP	07 54 59.5	Z	0.5	21.0 (0)	32.0	5.09
30	DH	eP	07 55 33.0	Z	0.5	34.0 (0)	36.0	5.43
30	LC	iP	07 56 13.5D	Z	1.1	17.2 (1)	41.0	5.70
		eSCP	08 01 49	Z	1.0	2.0 (0)		
		ePCS	08 02 10	R	2.3	25.0 (0)		
30	NG	eP	07 56 18.0	Z	0.6	14.0 (0)	41.0	4.88
30	FM	eP	07 57 13.0	Z	0.5	14.2 (0)	48.0	4.93
30	CP	eP	07 57 13.1	Z	0.7	4.2 (0)	48.0	4.25

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MN	eP	07 57 40.7	Z	0.8	10.6 (0)	51.0	4.76
30	WI	eP	07 57 46.6	Z	0.6	14.0 (0)	52.0	5.02
30	MV	eP	07 57 58.0	Z	0.6	5.0 (0)	54.0	4.60
							AVG.	4.96

30	WI	eP	08 06 58.3	Z	0.8	1.0 (0)		
30	MN	eP	08 07 05.6	Z	0.7	1.7 (0)		
30	FM	eP	08 07 24.2	Z	0.5	7.1 (0)		
30	LC	eP	08 08 05.6	Z	1.0	2.0 (0)		

30 09 44 17.4 17.0 N 147.3 E MARIANA ISLANDS
H =109 KM

30	MV	eP	09 56 22.5	Z	0.7	4.0 (0)	81.0	4.35
		eL	10 31 35	LR	18	39.2 (1)		
30	WI	eP	09 56 34.7	Z	1.0	23.0 (0)	84.0	5.04
		e	10 18 36	LR	30	29.4 (1)		
		eL	10 22 26	LZ	28	25.6 (1)		
30	MN	eP	09 56 36.3	Z	1.0	6.7 (0)	84.0	4.53
		eLR	10 21 52	LZ	40	38.4 (1)		
30	CP	eP	09 56 51.3	Z	0.8	7.0 (0)	87.0	4.74
		eL	10 29 38	LZ	20	40.7 (1)		
30	FM	eP	09 56 57.5	Z	0.8	12.2 (0)	88.0	4.98
		eL	10 24 30	LZ	32	25.5 (1)		
30	LC	eP	09 57 29.3	Z	0.9	4.0 (0)	95.0	4.83
		e	09 59 03	Z	1.0	5.0 (0)		
30	SJ	eL	10 37 20	LT	17	50.4 (1)	103.0	
30	DH	eLR	10 40 00	LZ	40	54.1 (1)	109.0	
							AVG.	4.75

30 10 40 16.4 20.1 S 169.0 E LOYALTY ISLANDS
H =049 KM

30	MN	eP	10 53 10.6	Z	1.0	3.3 (0)	90.0	4.58
		e	10 53 21	Z	1.0	5.0 (0)		
30	MV	eP	10 53 13.0	Z	0.7	4.0 (0)	90.0	4.71
30	WI	eP	10 53 18.7	Z	0.6	2.0 (0)	91.0	4.57
							AVG.	4.62

30	MN	eP	13 08 21.9	Z	0.3	2.7 (0)	0.3	
		eS	13 08 28	R	0.4	5.9 (0)		

30	LC	eP	15 20 17.2	Z	0.9	2.0 (0)		
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DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	WI	eP	16 09 51.2	Z	0.6	2.0 (0)		
30	MN	eP	16 10 02.8	Z	0.5	1.2 (0)		
30	WI	e	16 10 18	Z	0.8	4.0 (0)		
30	MN	e	16 10 30	Z	1.0	5.0 (0)		
30	CP	eP	16 10 41.9	Z	0.5	20.6 (0)		
30	LC	eP	16 11 29.1	Z	0.6	1.0 (0)		
30	WI	e	16 11 59	Z	0.7	2.0 (0)		
30	LC	e	16 12 00	Z	0.7	2.0 (0)		
30	MN	e	16 12 03	Z	0.7	1.7 (0)		
30	LC	e	16 12 43	Z	0.6	1.0 (0)		

30 16 16 47.8 17.9 S 176.1 W TONGA ISLANDS REGION
H =026 KM

30	CP	eP	16 28 37.9	Z	1.2	18.3 (0)	77.0	5.01
		eP	16 28 45	LZ	20	10.1 (2)		
		eG	16 48 17	LR	33			
		eLR	16 50 40	LZ	35	62.6 (2)		
30	MV	eP	16 28 39.5	Z	1.2	24.0 (0)	77.0	5.12
		eP	16 28 43	LZ	16	40.6 (1)		
		eS	16 38 28	LR	20	31.2 (2)		
		ePPS	16 39 19	LR	25	24.8 (2)		
		eSS	16 43 27	LR	18	21.5 (2)		
		eSSS	16 46 37	LR	27	16.4 (2)		
		eG	16 48 07	LR				
		eLR	16 52 45	LZ	23	34.4 (2)		
30	MN	eP	16 28 47.2	Z	1.5	22.9 (0)	78.0	5.01
		eP	16 28 48	LZ	12	10.9 (1)		
		e	16 29 13	Z	2.0	18.9 (1)		
		eS	16 38 42	LR	30	29.3 (2)		
		eSS	16 43 50	LR	28	23.6 (2)		
		eSSS	16 47 06	LR	27	19.2 (2)		
		eG	16 48 52	LR	45	21.4 (3)		
		eLR	16 53 40	LZ	30	45.2 (2)		
30	WI	eP	16 28 59.5	Z	1.0	16.0 (0)	81.0	4.95
		eP	16 29 08	LZ	18	10.3 (2)		
		e	16 31 26	Z	4.2			
		e	16 39 11	LR	25	30.0 (2)		
		eSS	16 44 27	LR	27	28.4 (2)		
		eG	16 49 55	LR	25	66.6 (2)		
30	FM	eP	16 29 12.2	Z	1.0	19.4 (0)	83.0	5.21
		eP	16 29 20	LZ	15	61.9 (1)		
		e	16 31 05	LZ	20	59.4 (1)		
		eS	16 39 38	LT	22	37.7 (2)		
		eSS	16 45 00	LT	22	32.4 (2)		
		eG	16 51 20	LT	30	15.6 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	LC	eLR	16 55 52	LZ	22	54.2 (2)		
		eP	16 29 16.3	Z	1.0	17.0 (0)	84.0	5.15
		eP	16 29 19	LZ	14	33.0 (1)		
		e	16 39 40	LR	20	22.8 (2)		
		eSS	16 45 04	LR	30	12.4 (2)		
		eSSS	16 48 32	LR	25	12.0 (2)		
		eG	16 51 35	LR	33	91.4 (2)		
		eLR	16 55 05	LZ	31	78.3 (2)		
30	SJ	eP	16 29 41.6	Z	0.9	46.0 (0)	89.0	5.68
		eP	16 29 55	LZ	11	28.7 (2)		
		e	16 40 17	LT	25	55.2 (2)		
		eG	16 53 50	LT	30	43.4 (2)		
		eL	16 57 41	LT	27			
30	DH	eLR	17 07 25	LZ	35	40.8 (2)	109.0	
							AVG.	5.16
30	LC	eP	16 31 23	Z	0.7	6.0 (0)		
30	MN	eP	16 33 05.0	Z	1.0	5.0 (0)		
30	WI	eP	16 33 18	Z	0.8	5.0 (0)		
30	LC	eP	18 12 38.0	Z	0.3	1.0 (0)	2.8	
		eS	18 13 14	R	0.4	8.0 (0)		
30	18 31 06.6		18.0 S 176.4 W				FIJI ISLANDS REGION	
			H = 135 KM					
30	CP	eP	18 42 46.7	Z	1.2	32.1 (0)	77.0	4.99
		eLR	19 06 05	LZ	28	24.4 (2)		
30	MV	eP	18 42 48.6	Z	1.2	18.0 (0)	77.0	4.72
		eG	19 02 42	LR	32	31.6 (2)		
		eLR	19 05 56	LZ	27	20.6 (2)		
30	WI	eP	18 43 08.3	Z	1.0	14.0 (0)	81.0	4.71
		ePP	18 46 14	Z	1.6	16.0 (0)		
		eG	19 04 06	LR	40	31.2 (2)		
		eLR	19 07 53	LZ	30	24.0 (2)		
30	LC	1P	18 43 28.2C	Z	1.0	26.0 (0)	85.0	5.04
		eG	19 05 39	LR	33	18.5 (2)		
		eLR	19 09 25	LZ	20	24.6 (2)		
30	SJ	eP	18 43 50.0	Z	0.9	31.0 (0)	89.0	5.37
							AVG.	5.03
30	DH	eP	20 34 30.0	Z	0.3	12.0 (0)	1.8	
		eS	20 34 53	R	0.5	21.3 (0)		
30	20 39 45.1		06.4 N 124.0 E				BANDA SEA	
			H = 028 KM					

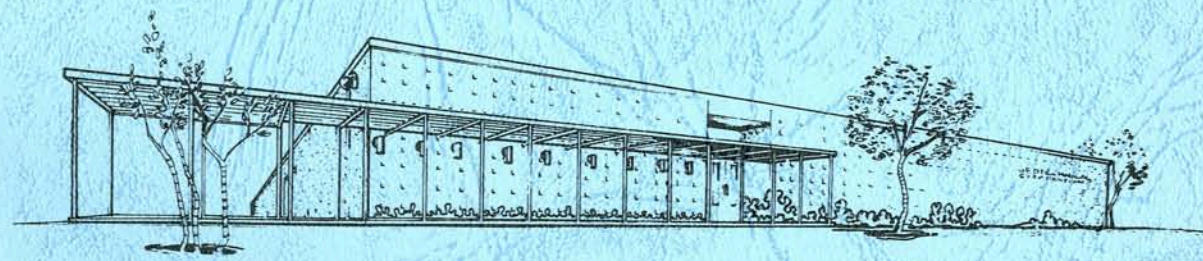
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	LC	eP	20 58 34.0	Z	1.0	2.0 (0)	118.0	
		ePP	20 59 51	Z	1.2	4.0 (0)		
		ePKKP	21 08 54	Z	1.0	2.0 (0)		
30	WI	ePKKP	21 09 46.3	Z	1.2	10.0 (0)	107.0	
30	MV	eL	21 28 24	LZ	26	82.5 (1)	105.0	
30	CP	eL	21 31 05	LZ	25	80.6 (1)	108.0	
30	DH	eL	21 47 25	LZ	30	40.0 (1)	127.0	
30	22 41 40.7		39.0 N 140.4 E				HONSHU, JAPAN	
			H = 124 KM					
30	WI	eP	22 53 03.9	Z	0.6	1.0 (0)	74.0	3.80
30	LC	eP	22 54 10.8	Z	0.6	1.0 (0)	87.0	3.97
							AVG.	3.89
30	23 50 33.5		72.0 N 007.2 E				SVALBARD REGION	
			H = 025 KM					
1	WI	eP	00 00 27.9	Z	1.4	42.0 (0)	58.0	5.28
1	LC	eP	00 01 06.1	Z	1.0	17.0 (0)	64.0	5.15
1	SJ	eP	00 01 22.3	Z	1.0	19.0 (0)	67.0	5.20
1	LC	e	00 11 06	Z	1.0	5.0 (0)	61.0	
							AVG.	5.21



Bulletin No. 5
May 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM FOR MAY 1962



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded as ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, The Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system used the Sprengnether moving-coil seismometer. The short-period system used the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period system at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

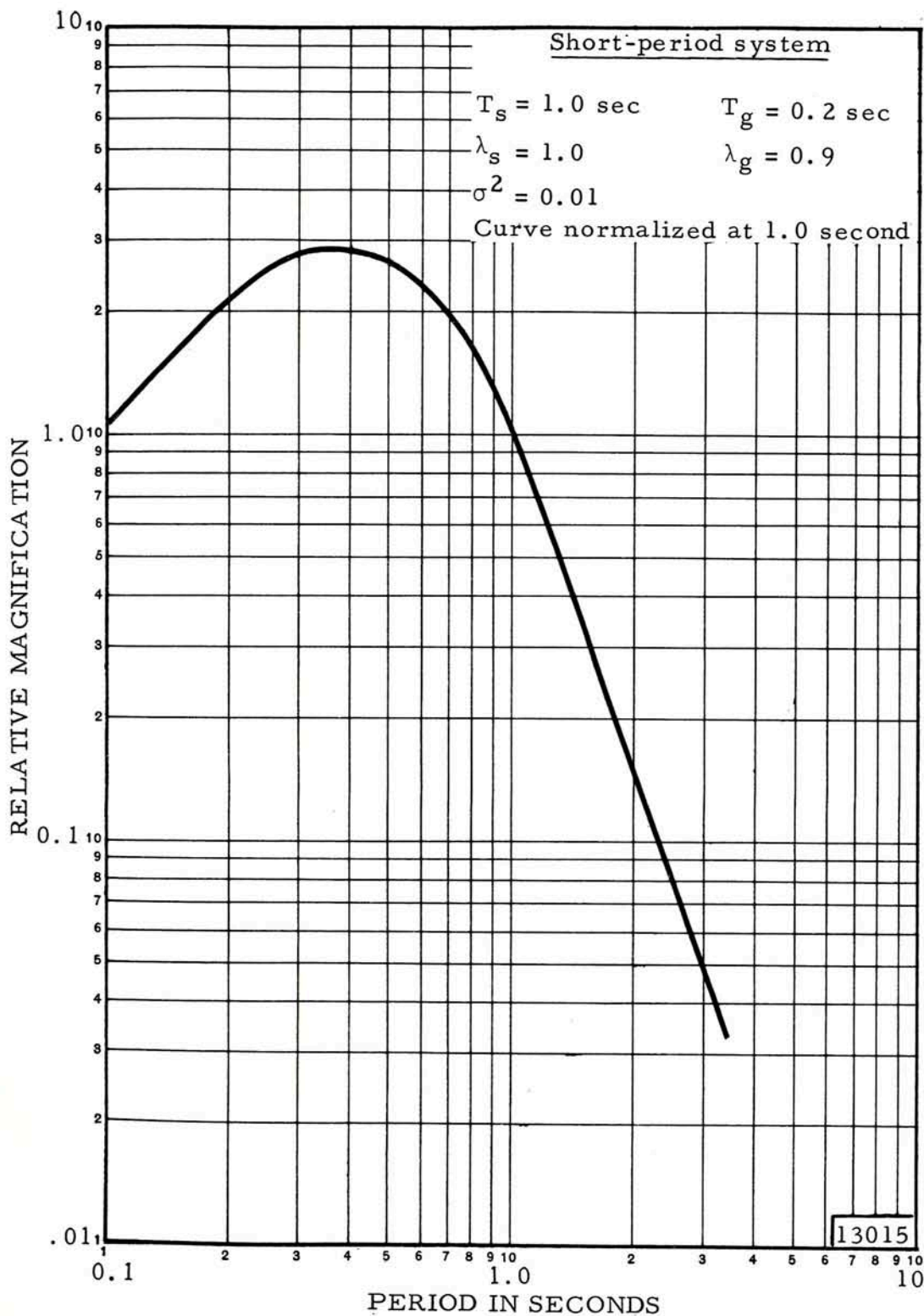


Figure 1. Frequency response of the short-period seismograph system

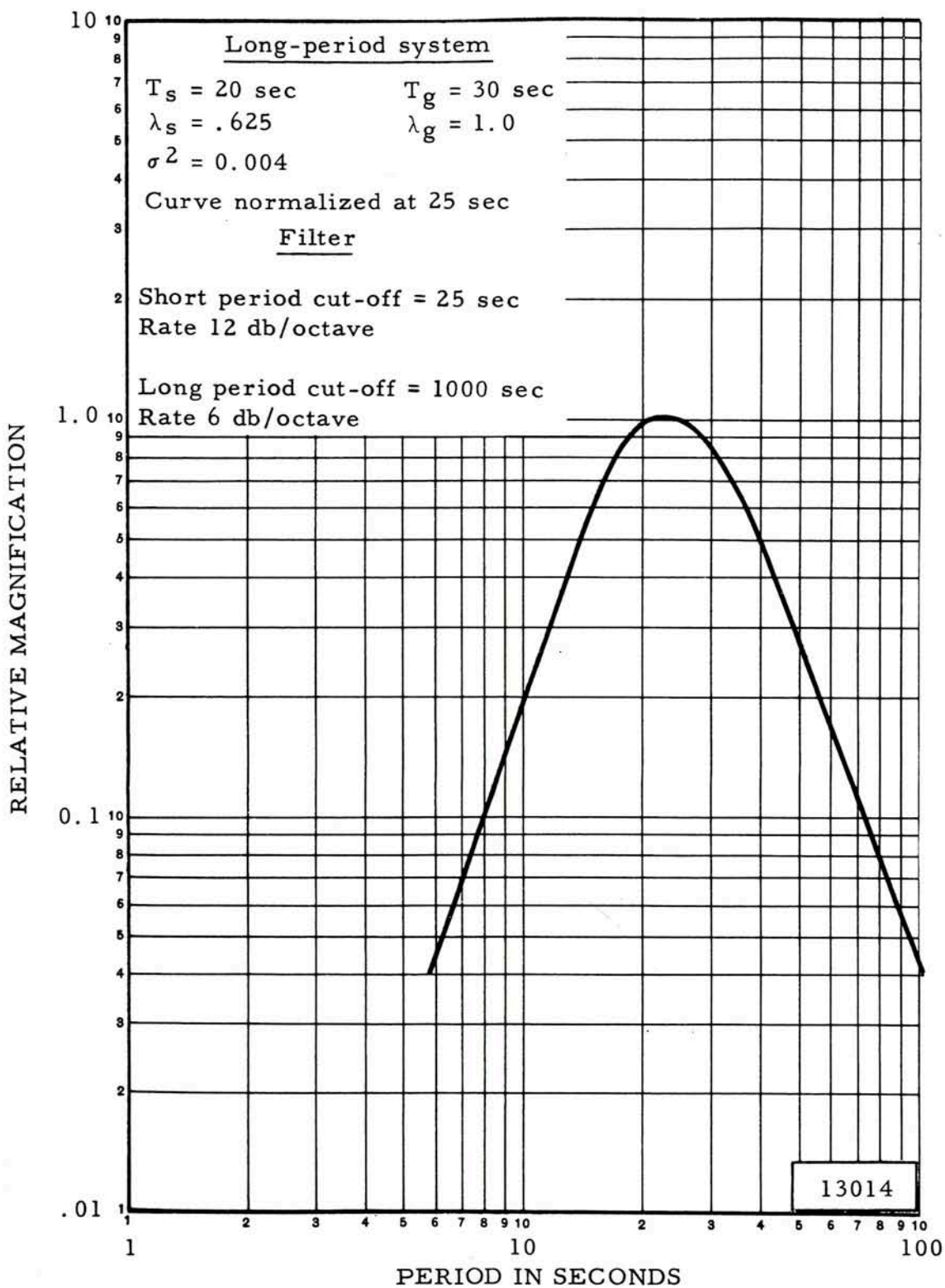


Figure 2. Frequency response of the long-period seismograph system

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

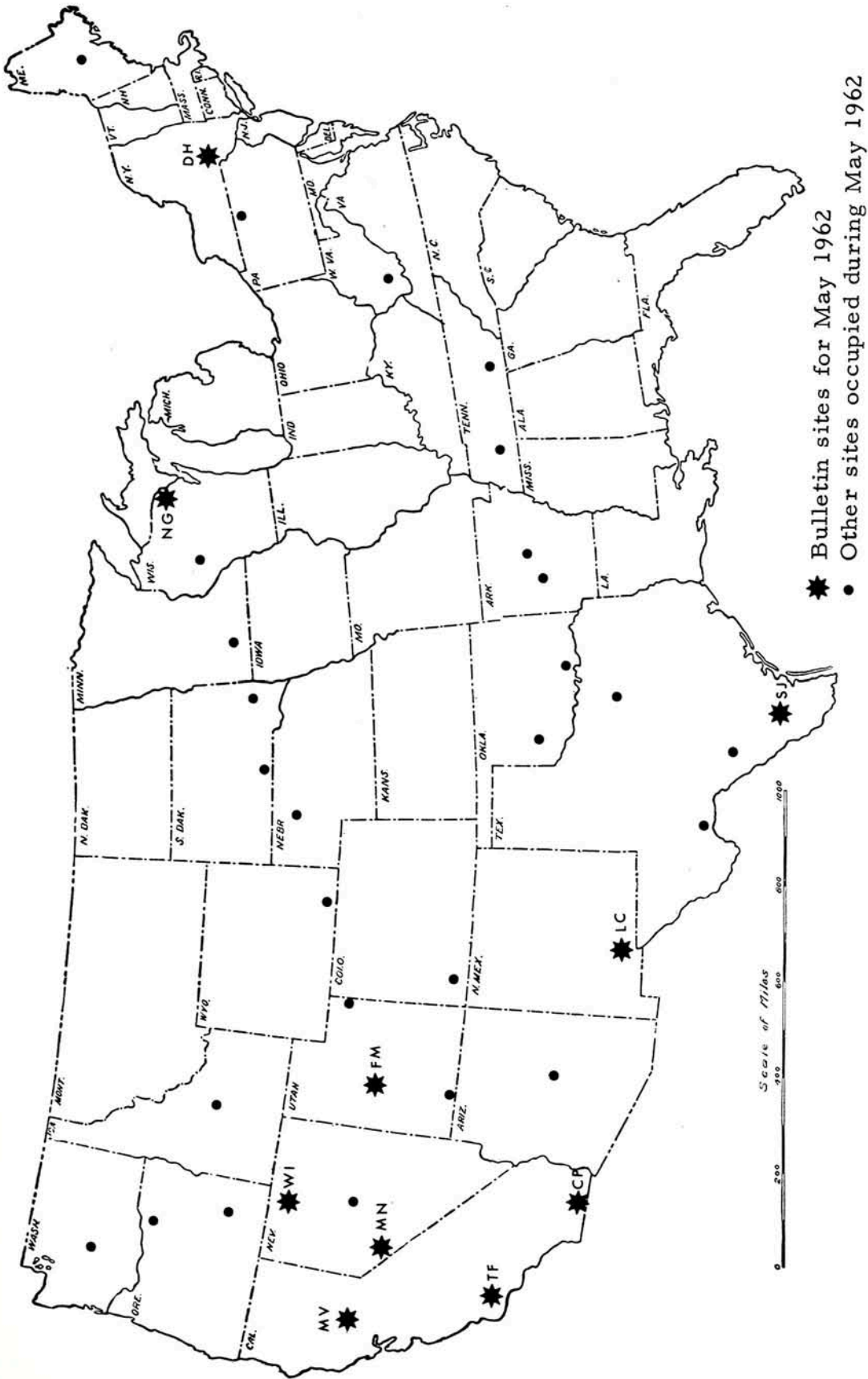
3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.

b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.

c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G.C.T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.



★ Bulletin sites for May 1962
● Other sites occupied during May 1962

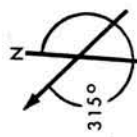
Figure 3. LRSMS Program Sites

TABLE 1

LRSM SITE INFORMATION
Horizontal seismometer orientation

 Azimuth from True North
in Degrees*

Site Designation	Site Location	Azimuth from True North in Degrees*		Site Coordinates			Elevation in km	Rock Type
		Radial	Trans - verse	in deg,	min,	sec		
SJ TX	San Jose, Texas	127	217	N 27	36	43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98	18	46	1.585	Limestone
CP CL	Campo, California	182	272	N 32	24	08	1.189	Granite
MV CL	Marysville, California	295	025	W 106	35	58	0.610	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32	43	44	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116	22	16	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39	13	36	1.890	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121	18	05	0.396	Granite
DH NY	Delhi, New York	095	185	N 41	21	02	0.652	Sandstone
TF CL	Taft, California	235	325	W 117	27	30	0.792	Sandstone



*When earth moves in direction shown, trace moves up.

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$30.0 (2) = 30 \times 10^2 = 3000 \text{ m}\mu$$

$$30.0 (1) = 30 \times 10^1 = 300 \text{ m}\mu$$

$$30.0 (0) = 30 \times 10^0 = 30.0 \text{ m}\mu$$

All amplitudes are corrected for instrument response and are measured peak-to-peak. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible.

see figure

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log 10 A + B$$

Where: m = Unified Magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival).

B = Log function of distance and depth.

The average magnitude (sum of station magnitudes) is listed on the last line
number of stations

of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month
Second group, origin time of the event
Third group, geographic coordinates of the epicenter
Fourth group, geographic description

Line 2 (from left to right)

First group, depth (h) of the hypocenter in kilometers
Second group, magnitude (MAG) as determined by Pasadena (PAS)
or Berkeley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1
DCS/Operations
Headquarters United States Air Force
Washington 25, D. C.
ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	02 45	22.8	17.5 N 146.7 E H =025 KM					
1	09 54	20.6	05.8 S 125.5 E H =621 KM					
1	09 59	57.1	23.8 N 005.4 E H =000 KM					
1	21 08	16.1	20.0 S 065.7 E H =039 KM					
2	02 43	25.9	55.9 N 156.1 W H =025 KM					
2	MV	eP	02 49 19.1	Z	0.7	5.5 (0)	28.0	4.05
		eP	02 49 20	LZ	18	25.0 (1)		
		eS	02 54 00	LR	21	54.0 (1)		
		eS	02 54 00	LT	21	17.0 (1)		
		e	02 56 03	LT	22	58.0 (1)		
		eLR	02 57 05	LZ	25	25.0 (2)		
		eL	02 57 55	LZ	19	28.0 (2)		
		eL	02 57 55	LR	19	25.0 (2)		
		eL	02 57 55	LT	18	20.0 (1)		
2	WI	eP	02 49 24.0	Z	0.8	14.0 (0)	29.0	4.79
		eP	02 49 25	LZ	20	26.0 (1)		
		eS	02 54 23	LR	21	62.0 (1)		
		eS	02 54 23	LT	21	61.0 (1)		
		eLR	02 57 05	LZ	25	24.0 (2)		
		eL	02 58 25	LZ	20	39.0 (2)		
		eL	02 58 25	LR	20	30.0 (2)		
		eL	02 58 25	LT	19	17.0 (2)		
2	MN	eP	02 49 39.5	Z	1.0	12.0 (0)	31.0	4.73
		eP	02 49 40	LZ	19	19.0 (1)		
		eS	02 54 40	LR	19	29.0 (1)		
		eS	02 54 40	LT	20	33.0 (1)		
		eLR	02 57 51	LZ	25	47.0 (2)		
		eL	02 59 20	LZ	20	47.0 (2)		
		eL	02 59 20	LR	20	30.0 (2)		
		eL	02 59 20	LT	20	44.0 (1)		
2	FM	eP	02 50 03.5	Z	0.9	30.0 (0)	33.0	5.20
		eS	02 55 45	LR	22	37.0 (1)		
		eS	02 55 45	LT	23	76.0 (1)		
		eLR	02 59 45	LZ	24	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	03 01 05	LZ	23	13.0 (2)		
		eL	03 01 05	LR	19	80.0 (1)		
		eL	03 01 05	LT	23	14.0 (2)		
2	CP	eP	02 50 22.3	Z	0.8	8.8 (0)	36.0	4.67
		eS	02 56 13	LT	23	55.0 (0)		
		eL	03 00 30	LT	27	96.0 (0)		
		eL	03 01 50	LZ	19	23.0 (0)		
		eL	03 01 50	LR	19	21.0 (0)		
		eL	03 01 50	LT	19	16.0 (1)		
2	LC	eP	02 51 11.6	Z	0.8	19.0 (0)	41.0	4.90
		eP	02 51 15	LZ	17	24.0 (1)		
		eS	02 57 34	LR	22	77.0 (1)		
		e	03 01 20	LT	35	48.0 (1)		
		eLR	03 06 00	LZ	30	21.0 (1)		
		eL	03 07 10	LZ	21	12.0 (2)		
		eL	03 07 10	LR	20	77.0 (1)		
		eL	03 07 10	LT	20	11.0 (2)		
2	NG	eP	02 51 18.5	Z	0.6	35.0 (1)	42.0	5.29
		eS	02 57 43	LR	25	66.0 (1)		
		eS	02 57 43	LT	25	57.0 (1)		
		e	03 00 40	LR	25	33.0 (1)		
		eLR	03 05 50	LZ	30	74.0 (1)		
		eL	03 08 30	LZ	20	33.0 (2)		
		eL	03 08 30	LR	20	13.0 (2)		
		eL	03 08 30	LT	20	19.0 (2)		
2	SJ	eP	02 52 18.5	Z	0.6	24.0 (0)	50.0	5.30
		eL	03 09 50	LT	20	47.0 (2)		
		eL	03 10 30	LT	20	47.0 (2)		
2	DH	eP	02 52 34.0	Z	0.7	9.8 (0)	52.0	4.87
		eS	03 00 11	LR	25	49.0 (1)		
		eS	03 00 11	LT	23	52.0 (1)		
		e	03 02 30	LT	23	31.0 (1)		
		eLR	03 11 00	LZ	27	59.0 (1)		
		eL	03 14 20	LZ	19	13.0 (2)		
		eL	03 14 20	LR	18	93.0 (1)		
		eL	03 14 20	LT	19	15.0 (2)		
							AVG.	4.91
2	06 15 13.3		52.4 N 141.8 E				NEAR COAST OF SAKHALIN	
			H = 025 KM					
2	MV	eP	06 25 48.5	Z	0.8	2.3 (0)	64.0	4.38
2	WI	eP	06 25 50.6	Z	1.0	6.3 (0)	65.0	4.72
		eLR	06 47 15	LZ	21	33.0 (1)		
		eL	06 49 20	LZ	23	33.0 (1)		
		eL	06 49 20	LR	24	20.0 (1)		
		eL	06 49 20	LT	25	20.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MN	eP	06 26 01.5	Z	1.0	5.0 (0)	66.0	4.62
		eLR	06 47 40	LZ	20	22.0 (1)		
		eL	06 55 00	LZ	19	19.0 (1)		
		eL	06 55 00	LR	19	28.0 (1)		
		eL	06 55 00	LT	20	94.0 (0)		
2	FM	eP	06 26 17.8	Z	0.7	9.2 (0)	69.0	5.02
2	CP	eP	06 26 35.5	Z	0.7	2.8 (0)	72.0	4.43
2	LC	eP	06 27 06.0	Z	1.1	15.0 (0)	77.0	4.96
		eLR	06 53 10	LZ	32	36.0 (1)		
		eL	06 59 00	LR	23	38.0 (1)		
		eL	06 59 00	LZ	20	47.0 (1)		
		eL	06 59 00	LT	22	31.0 (1)		
2	SJ	eL	06 59 18	LT	20	53.0 (1)	84.0	
		eL	07 04 00	LT	19	14.0 (2)		
							AVG.	4.68
2	MN	eP	06 21 03.5	Z	0.7	0.9 (0)		
2	CP	eP	07 14 23.3	Z	0.3	5.4 (0)	1.1	
		eS	07 14 38	R	0.3	8.9 (0)		
2	MV	eP	08 01 34.5	Z	0.4	16.0 (0)	1.9	
2	WI	eP	08 01 44.2	Z	0.4	5.0 (0)	2.4	
		e	08 01 49	Z	0.5	17.0 (0)		
2	MV	eS	08 01 59	R	0.5	50.0 (0)	1.9	
2	WI	eS	08 02 20	T	0.5	53.0 (0)	2.4	
2	LC	eP	08 52 47.2	Z	0.6	8.9 (0)		
2	WI	eP	08 54 41.9	Z	0.6	2.6 (0)		
2	08 56 29.0		23.6 S 065.9 W				JUJUY PROVINCE, ARGENTINA	
			H = 163 KM					
2	SJ	eP	09 06 18.8	Z	0.9	21.0 (1)	60.0	6.02
		ePCP	09 07 05	Z	0.8	94.0 (0)		
		eS	09 14 17	LT	18	72.0 (1)		
		ePS	09 15 35	LT	21	22.0 (2)		
		eSS	09 18 55	LT	20	12.0 (2)		
		eSSS	09 21 23	LT	19	24.0 (2)		
2	DH	eP	09 07 01.6	Z	0.7	25.0 (1)	66.0	6.13
		eS	09 15 35	LT	25	93.0 (1)		
		ePS	09 16 40	LR	25	69.0 (1)		
2	LC	eP	09 07 11.6	Z	0.5	23.0 (0)	68.0	5.20
		eP	09 07 12	LZ	18	33.0 (1)		
		eS	09 15 52	T	2.0	25.0 (0)		
		eS	09 15 52	R	2.8	93.0 (0)		
		eS	09 15 53	LR	15	97.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	09 15 53	LT	15	32.0 (1)		
		e	09 16 51	T	2.5	63.0 (0)		
		e	09 16 52	LR	23	54.0 (1)		
		eSS	09 20 15	LR	24	54.0 (1)		
		e	09 25 12	LT	32	12.0 (2)		
		eP ¹ P ¹	09 35 29	Z	1.0	7.0 (0)		
		e	09 43 14	Z	0.9	1.9 (0)		
		e	09 44 00	Z	1.0	7.0 (0)		
2	NG	eP	09 07 36.0	Z	0.7	34.0 (0)	72.0	5.22
		eP	09 07 38	LZ	15	99.0 (1)		
		eS	09 16 43	LT	20	57.0 (1)		
		ePS	09 17 50	LR	25	49.0 (1)		
		eSS	09 21 25	LT	25	38.0 (1)		
		e	09 22 53	LR	25	49.0 (1)		
		e	09 25 55	LR	20	33.0 (1)		
2	CP	eP	09 07 48.3	Z	0.7	49.0 (0)	74.0	5.38
		eS	09 17 12	LT	20	55.0 (0)		
2	FM	eP	09 08 01.0	Z	0.8	10.0 (1)	76.0	5.63
		eP	09 08 02	LZ	16	43.0 (1)		
		eS	09 17 30	LT	21	57.0 (1)		
		ePS	09 18 55	LR	23	46.0 (1)		
		eSS	09 22 27	LR	25	83.0 (1)		
2	MN	eP	09 08 16	LZ	19	29.0 (1)	79.0	
		eS	09 17 52	LR	20	57.0 (1)		
		eS	09 17 52	LT	20	14.0 (1)		
		eS	09 17 56	R	3.0	79.0 (0)		
		ePS	09 19 25	LT	23	60.0 (1)		
		eSS	09 23 15	LR	21	44.0 (1)		
		e	09 29 34	LT	27	74.0 (1)		
2	WI	eP	09 08 23.6	Z	0.8	70.0 (0)	80.0	5.48
		eP	09 08 24	LZ	15	42.0 (1)		
		ePP	09 11 21	Z	1.3	13.0 (0)		
		eS	09 18 12	R	2.4	10.0 (1)		
		eS	09 18 12	T	1.5	14.0 (0)		
		eS	09 18 13	LR	21	68.0 (1)		
		eS	09 18 13	LT	20	40.0 (1)		
		e	09 19 48	LR	22	68.0 (1)		
		eSS	09 23 45	LR	23	61.0 (1)		
		e	09 25 05	LR	23	68.0 (1)		
		ePKKP	09 27 06	Z	1.0	4.3 (0)		
		eSSS	09 28 40	LR	35	64.0 (1)		
		eP ¹ P ¹	09 35 00	Z	1.1	5.5 (0)		
		eL	09 37 35	LZ	24	43.0 (1)		
		eL	09 42 40	LZ	18	50.0 (1)		
		eL	09 42 40	LR	20	48.0 (1)		
		eL	09 42 40	LT	25	20.0 (0)		
		e	09 44 34	Z	0.9	3.5 (0)		
2	MV	eP	09 08 26.7	Z	1.2	66.0 (0)	81.0	5.28
		eP	09 08 28	LZ	16	61.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	09 18 20	R	4.0			
		eS	09 18 21	LR	20	79.0 (1)		
		eS	09 18 21	LT	20	35.0 (1)		
		ePS	09 19 50	LT	27	12.0 (2)		
		eSS	09 23 48	LR	23	78.0 (1)		
		e	09 25 00	LT	30	12.0 (2)		
		ePKKP	09 27 04	Z	1.0	7.3 (0)		
		e	09 28 27	LT	24	10.0 (2)		
		e	09 34 40	LT	26	14.0 (2)		
		eP ¹ P ¹	09 35 10	Z	1.0	3.7 (0)		
							AVG.	5.54
2	10 21 05.9		52.5 N 142.0 E			SAKHALIN ISLAND		
			H =072 KM					
2	WI	eP	10 31 34.3	Z	0.9	3.4 (0)	64.0	4.36
2	LC	eP	10 32 51.4	Z	1.0	4.7 (0)	77.0	4.36
							AVG.	4.36
2	11 05 13.5		14.5 N 120.2 E			LUZON, PHILIPPINE ISLANDS		
			H =082 KM					
2	12 33 08.1		23.8 S 066.4 W			SALTA PROVINCE, ARGENTINA		
			H =179 KM					
2	SJ	eP	12 42 56.0	Z	0.8	94.0 (0)	60.0	5.65
		ePCP	12 43 43	Z	0.5	21.0 (0)		
		eS	12 50 50	LT	15	41.0 (1)		
		e	12 52 12	LT	20	88.0 (1)		
2	DH	eP	12 43 39.1	Z	0.7	12.0 (1)	66.0	4.78
2	LC	eP	12 43 48.7	Z	0.6	13.0 (0)	68.0	4.86
		epP	12 44 30	Z	0.7	7.1 (0)		
2	NG	eP	12 44 12.8	Z	0.5	12.0 (0)	72.0	4.90
2	CP	eP	12 44 25.3	Z	0.7	25.0 (0)	74.0	5.07
2	FM	eP	12 44 38.1	Z	0.5	20.0 (0)	76.0	5.12
2	MN	eP	12 44 55	LZ	19	29.0 (1)	79.0	
		eS	12 54 30	LT	23	18.0 (1)		
		e	12 56 10	LT	25	28.0 (1)		
		e	13 01 21	LR	20	23.0 (1)		
2	WI	eP	12 45 00.2	Z	0.8	52.0 (0)	80.0	5.42
		epP	12 45 53	Z	0.8	14.0 (0)		
		ePP	12 48 06	Z	1.9	39.0 (0)		
2	MV	eP	12 45 04.3	Z	0.7	9.3 (0)	81.0	4.64
		eP	12 45 05	LZ	15	25.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	12 55 00	L ^T	19	19.0 (1)		
		ePS	12 56 00	LR	20	30.0 (1)		
							AVG.	5.05
2	CP	eP	14 16 05.6	Z	0.2	3.3 (0)	1.5	
		eS	14 16 26	R	0.3	3.9 (0)		
2	WI	eP	14 24 36.6	Z	0.7	5.3 (0)		
2	DH	eP	15 15 01.5	Z	0.5	7.2 (0)	1.7	
		eS	15 15 25	R	0.5	22.0 (0)		
2	CP	eP	15 25 00.0	Z	0.3	18.0 (0)	1.1	
		eS	15 25 14	R	0.4	25.0 (0)		
2	DH	eP	15 52 24.9	Z	0.3	13.0 (0)	1.5	
		eS	15 52 45	R	0.5	29.0 (0)		
2	CP	eP	16 23 33.0	Z	0.3	1.8 (0)	1.0	
		eS	16 23 46	R	0.3	7.9 (0)		
2	CP	eP	16 39 42.1	Z	0.3	8.2 (0)	0.7	
		eS	16 39 52	R	0.3	9.8 (0)		
2	LC	eP	17 03 56.0	Z	0.3	0.7 (0)	2.9	
		e	17 04 02	Z	0.3	4.6 (0)		
2	DH	eP	17 04 18.0	Z	0.3	12.0 (0)	1.8	
2	LC	eS	17 04 33	T	0.4	5.5 (0)	2.9	
2	DH	eS	17 04 42	R	0.5	36.0 (0)	1.8	
2	CP	eP	18 01 43.2	Z	0.2	3.3 (0)	0.6	
		eS	18 01 52	R	0.3	7.9 (0)		
2	CP	eL	18 10 30	LZ	24	42.0 (0)		
2	MN	eP	18 10 39.5	Z	0.9	4.2 (0)		
2	WI	eP	18 10 56.0	Z	1.1	8.2 (0)		
2	LC	eP	18 11 19.5	Z	0.9	38.0 (0)		
2	SJ	eP	18 46 20.0	Z	0.8	12.0 (0)		
2	LC	eP	18 46 48.6	Z	1.0	7.0 (0)		
2	MN	eP	18 47 28.5	Z	0.8	3.2 (0)		
2	FM	eP	18 47 34.0	Z	0.7	9.2 (0)		
2	DH	eP	18 47 45.3	Z	0.3	13.0 (0)	1.6	
2	WI	eP	18 47 48.0	Z	0.9	5.1 (0)		
2	DH	eS	18 48 08	R	0.4	33.0 (0)	1.6	
2	NG	eP	18 48 13.9	Z	0.7	8.4 (0)		
2	CP	eP	18 51 39.2	Z	0.4	1.8 (0)		
2	MN	eP	19 08 54.2	Z	0.4	2.8 (0)	0.6	
		eS	19 09 02	R	0.5	7.3 (0)		
2	WI	eP	20 11 56.7	Z	0.6	2.6 (0)		
2	20 43 53.8		26.3 S 177.7 W				SOUTH FIJI ISLANDS	
			H =183 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	CP	eP	20 56 03.0	Z	1.0	11.0 (0)	84.0	4.58
2	MV	eP	20 56 04.5	Z	0.8	9.2 (0)	84.0	4.60
2	MN	eP	20 56 10.1	Z	1.0	14.0 (0)	85.0	4.68
2	FM	eP	20 56 32.0	Z	0.7	9.2 (0)	90.0	4.85
2	LC	eP	20 56 32.7	Z	1.1	18.0 (0)	90.0	4.95
		epP	20 57 20	Z	1.0	4.7 (0)		
							AVG.	4.73
2	LC	eP	21 22 28.6	Z	0.3	7.0 (0)	1.6	
		eS	21 22 50	R	0.5	9.8 (0)		
2	FM	eP	21 28 12.5	Z	0.3	6.0 (0)	2.1	
		eS	21 28 40	R	0.5	24.0 (0)		
2	CP	eP	23 08 07.5	Z	0.4	6.4 (0)		
2	CP	eP	23 08 07.7	Z	0.4	5.6 (0)	1.5	
		eS	23 08 27	T	0.5	11.0 (0)		
2	23 18 28.4		74.9 N 009.0 E			ARCTIC OCEAN		
			H =023 KM					
2	LC	eP	23 29 14.4	Z	0.9	1.9 (0)	66.0	4.26
2	LC	eP	23 21 52.8	Z	0.5	2.6 (0)	1.7	
		eS	23 22 16	R	0.5	9.5 (0)		
3	CP	eP	01 30 30.0	Z	0.4	10.0 (0)	2.9	
		eS	01 31 07	T	0.5	32.0 (0)		
3	WI	eL	02 06 55	LZ	23	17.0 (1)		
3	CP	eP	02 28 59.8	Z	0.4	9.3 (0)	1.4	
		eS	02 29 18	T	0.4	41.0 (0)		
3	02 37 56.6		42.6 N 144.6 E			COAST OF HOKKAIDO, JAPAN		
			H =049 KM					
3	WI	eP	02 48 59.0	Z	0.6	2.8 (0)	69.0	4.47
3	FM	eP	02 49 25.6	Z	0.7	4.7 (0)	73.0	4.58
3	CP	eP	02 49 36.0	Z	0.8	3.5 (0)	75.0	4.39
3	NG	eP	02 50 06.5	Z	1.0	17.0 (0)	81.0	4.93
3	LC	eP	02 50 10.6	Z	0.8	5.9 (0)	82.0	4.62
3	DH	eP	02 50 47.6	Z	0.9	16.0 (0)	88.0	4.15
		eLR	03 29 04	LZ	25	36.0 (1)		
		eL	03 29 04	LT	35	34.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	03 29 04	LR	24	57.0 (1)	AVG.	4.52
3	03 12 14.7		08.2 N 082.8 W H =032 KM				PANAMA-COSTA RICO BORDER	
3	WI	eP	03 20 30.4	Z	0.7	4.3 (0)	45.0	4.42
3	WI	eLR	03 12 20	LZ	23	17.0 (1)		
3	03 34 49.0		60.0 S 032.9 W H =020 KM				SANDWICH ISLANDS REGION MAG 5.75-6.00 PAL	
3	LC	eP ⁺	03 53 22.8	Z	1.0	2.3 (0)	111.0	
		ePS	04 03 33	LR	18	72.0 (1)		
		ePPS	04 04 45	LR	25	69.0 (1)		
		eSS	04 09 48	LR	26	32.0 (2)		
		eLQ	04 22 57	LR	19	13.0 (2)		
		eLR	04 27 27	LZ	25	37.0 (1)		
		eL	04 28 20	LR	21	30.0 (2)		
		eL	04 28 20	LZ	20	39.0 (2)		
3	DH	ePP	03 53 45	LZ	19	47.0 (1)	108.0	
		ePS	04 03 02	LT	20	89.0 (1)		
		eSPP	04 03 54	LZ	25	72.0 (1)		
		eSS	04 08 54	LT	24	32.0 (2)		
		eLR	04 24 35	LZ	35	28.0 (2)		
		eL	04 33 00	LZ	28	14.0 (3)		
		eL	04 33 00	LR	26	98.0 (2)		
		eL	04 33 00	LT	27	75.0 (2)		
3	MV	eP ⁺	03 53 45.8	Z	1.0	19.0 (0)	123.0	
		eSP	04 05 24	LZ	25	31.0 (1)		
		ePPS	04 06 42	LR	22	57.0 (1)		
		eSS	04 12 09	LR	30	20.0 (2)		
		eLQ	04 26 15	LT	30	70.0 (1)		
		eLR	04 33 55	LZ	30	97.0 (1)		
		eL	04 37 38	LZ	21	11.0 (2)		
		eL	04 37 38	LR	24	12.0 (2)		
		eL	04 37 38	LT	20	17.0 (2)		
3	WI	eP ⁺	03 53 46.7	Z	1.0	18.0 (0)	122.0	
		ePP	03 55 23	Z	2.5	87.0 (0)		
		eSKKP	04 07 45	LZ	25	11.0 (2)		
		eL	04 35 50	Z	2.0	32.0 (2)		
		eL	04 35 50	R	2.0	12.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	CP	eL	04 35 50	T	2.0	24.0 (2)		
		ePP	03 54 32	LZ	20	21.0 (1)	115.0	
		ePS	04 04 15	LR	25	50.0 (1)		
		ePSPS	04 10 55	LR	25	30.0 (2)		
		eLQ	04 22 58	LT	30	26.0 (2)		
		eLR	04 28 39	LZ	35	62.0 (1)		
		eL	04 30 22	LZ	34	52.0 (2)		
		eL	04 30 22	LT	30	16.0 (2)		
		eL	04 30 22	LR	38	41.0 (2)		
3	SJ	ePS	04 02 12	LR	24	16.0 (2)	102.0	
		ePPS	04 03 01	LR	25	20.0 (2)		
		eSS	04 07 45	LT	27	45.0 (2)		
		eLR	04 24 36	LZ	35	16.0 (2)		
		eL	04 25 59	LZ	35	26.0 (2)		
		eL	04 25 59	LR	30	26.0 (2)		
		eL	04 25 59	LT	20	14.0 (2)		
3	NG	ePS	04 04 00	LT	20	16.0 (2)	115.0	
		e	04 05 05	LZ	25	11.0 (2)		
		eSS	04 10 27	LT	25	22.0 (2)		
		eLR	04 29 03	LZ	50	58.0 (2)		
		eL	04 35 10	LZ	31	71.0 (2)		
		eL	04 35 10	LR	30	82.0 (1)		
		eL	04 35 10	LT	31	55.0 (2)		
3	FM	ePS	04 04 48	LT	25	85.0 (1)	119.0	
		e	04 07 00	LT	20	12.0 (2)		
		eSS	04 11 45	LT	31	15.0 (2)		
		eSSS	04 15 50	LT	21	13.0 (2)		
		eLR	04 33 40	LZ	27	76.0 (1)		
		eL	04 37 30	LZ	23	25.0 (2)		
		eL	04 37 30	LT	22	21.0 (2)		
		eL	04 37 30	LR	31	81.0 (1)		
3	CP	eP	03 55 09.3	Z	0.3	1.8 (0)	2.9	
		eS	03 55 47	T	0.3	3.7 (0)		
3	CP	eP	06 52 35.5	Z	0.5	12.0 (0)	3.9	
		e	06 52 40	Z	0.5	34.0 (0)		
		eS	06 53 23	T	0.4	12.0 (1)		
		eL	06 53 44	LZ	19	90.0 (1)		
3	LC	eP	06 53 40.8	Z	0.6	1.9 (0)		
3	LC	eL	06 55 51	LT	20	13.0 (2)		
3	LC	eL	06 56 10	T	0.7	3.2 (0)		
3	FM	eL	06 56 42	LT	20	96.0 (1)		
3	WI	eP	07 50 14.0	Z	1.0	4.4 (0)		
3	WI	eP	09 00 44.3	Z	0.4	1.5 (0)	1.4	
		eS	09 01 02	T	0.6	38.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	WI	eP	09 48 34.3	Z	1.0	2.2 (0)		
3	LC	eP	11 19 45.0	Z	0.8	3.6 (0)		
3	WI	eP	11 21 37.0	Z	0.5	1.6 (0)		
3	13 48 23.9		29.1 N 115.5 W H =025 KM	MAG	5.00-	COAST BAJA, CALIF. NORTE PAS		
3	CP	eP	13 49 21.2	Z	0.4	15.0 (0)	3.7	4.58
		eP	13 49 31	LZ	20	63.0 (1)		
		eS	13 50 17	LR	15	11.0 (3)		
		eS	13 50 17	LT	18	18.0 (3)		
3	LC	eP	13 50 25.9	Z	1.2	38.0 (0)	8.0	5.35
		eP	13 51 04	LZ	20	19.0 (1)		
		eL	13 52 15	LR	22	76.0 (2)		
		eL	13 52 57	T	1.5	16.0 (1)		
3	FM	eP	13 50 59.3	Z	1.0	9.3 (0)	11.0	5.07
		eS	13 53 05	LR	20	38.0 (2)		
		eS	13 53 05	LT	20	51.0 (2)		
3	MV	eP	13 51 08.6	Z	1.2	12.0 (0)	12.0	4.92
		eS	13 53 34	LR	25	16.0 (2)		
		eS	13 53 34	LT	27	63.0 (1)		
		eLR	13 54 06.6	Z	3.0	22.0 (1)		
		eL	13 54 20	Z	1.9	69.0 (0)		
		eL	13 54 20	R	2.0	49.0 (0)		
		eL	13 54 20	T	1.9	11.0 (1)		
		eLR	13 55 06	LZ	14	22.0 (2)		
		eL	13 55 06	LR	15	30.0 (2)		
		eL	13 55 06	LT	20	14.0 (2)		
3	WI	eP	13 51 24.5	Z	1.4	46.0 (0)	13.0	5.34
		ePP	13 51 35	Z	1.1	46.0 (0)		
		eLR	13 54 49	Z	2.3	23.0 (1)		
		eL	13 55 10	LT	22	99.0 (2)		
		eL	13 55 10	LZ	15	40.0 (2)		
		eL	13 55 10	LR	12	12.0 (3)		
3	SJ	eP	13 51 59.5	Z	1.4	95.0 (0)	15.0	5.06
		eS	13 54 48	LR	22	22.0 (2)		
		eS	13 54 48	LT	30	96.0 (1)		
		eLR	13 56 13	LT	20	14.0 (3)		
		eL	13 56 13	LZ	23	12.0 (2)		
		eL	13 56 13	LR	20	63.0 (2)		
3	NG	eS	13 58 50	LR	19	57.0 (1)	28.0	
		eS	13 58 50	LT	18	59.0 (0)		
		eL	14 01 48	LT	18	94.0 (1)		
3	DH	eL	14 05 58	LT	20	18.0 (2)	35.0	
						AVG.		5.05

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	CP	eP	15 21 39.2	Z	0.3	2.7 (0)	2.0	
		eS	15 22 08	T	0.4	5.8 (0)		
3	DH	eP	16 05 09.4	Z	0.4	6.5 (0)	2.0	
		eS	16 05 36	R	0.3	23.0 (0)		
3	CP	eP	16 47 15.3	Z	0.4	0.9 (0)	4.0	
		eS	16 48 05	T	0.4	4.9 (0)		
3	LC	eP	16 54 05.4	Z	0.3	2.2 (0)	3.0	
		e	16 54 36	T	0.4	5.0 (0)		
		eS	16 54 44	T	0.3	14.0 (0)		
3	17 00 32.9		60.5 S 033.2 W H =033 KM			SANDWICH ISLANDS REGION		
3	DH	eLR	17 53 42	LZ	40	11.0 (2)	108.0	
		eL	17 53 42	LT	30	31.0 (1)		
		eL	17 53 42	LR	30	36.0 (1)		
3	MV	eP	17 56 23.9	Z	0.7	7.5 (0)	3.5	
		eS	17 57 07	R	0.6	8.7 (0)		
3	CP	eP	19 05 52.7	Z	0.3	2.6 (0)	1.1	
		eS	19 06 07	T	0.3	7.1 (0)		
3	DH	eP	19 11 27.5	Z	0.4	12.0 (0)	1.6	
		eS	19 11 50	R	0.4	24.0 (0)		
3	LC	eP	19 20 48.0	Z	0.4	1.9 (0)		
3	LC	eP	19 27 28.7	Z	0.3	4.5 (0)	1.5	
		eS	19 27 48	T	0.4	8.3 (0)		
3	CP	eP	20 09 13.5	Z	0.5	2.1 (0)	5.0	
3	CP	e	20 09 21	Z	0.5	17.0 (0)		
3	CP	eS	20 10 14	T	0.4	89.0 (0)	5.0	
3	DH	eP	20 40 28.8	Z	0.5	8.0 (0)	1.7	
		eS	20 40 52	T	0.5	39.0 (0)		
3	CP	eP	20 44 18.6	Z	0.4	22.0 (0)	1.4	
		eS	20 44 36	T	0.4	21.0 (0)		
3	CP	eP	21 47 50.5	Z	999.9	99.9 (9)	0.7	
		eS	21 48 00	T	999.9	99.9 (9)		
3	22 49 11.9		63.6 N 151.7 W H =055 KM			ALASKA		
3	CP	eP	23 14 08.2	Z	0.4	1.9 (0)	1.5	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	WI	eS eP	23 14 28 23 19 50.0	T Z	0.4 0.4	5.8 (0) 2.2 (0)	1.5	
3	FM	eS eP	23 20 09 23 45 10.8	T Z	0.5 0.5	11.0 (0) 20.0 (0)		
4	SJ	eP	02 14 45.0	Z	1.0	18.5 (0)		
4	MN	eP	02 44 51.5	Z	0.2	1.0 (0)	1.8	
4	MV	eP	02 44 54.5	Z	0.2	2.2 (0)	1.9	
4	MN	eS	02 45 15	R	0.4	5.9 (0)	1.8	
4	MV	eS	02 45 21	T	0.3	6.2 (0)	1.9	
4	CP	eP eS	02 56 24.0 02 57 14	Z R	0.3 0.4	2.7 (0) 7.5 (0)	4.1	
4	CP	eP eS	04 39 22.6 04 39 28	Z R	0.3 0.4	19.0 (0) 43.0 (0)	0.3	
4	05 48 29.3		42.8 N 143.7 E H =037 KM				HOKKAIDO, JAPAN	
4	WI	eP	05 59 34.0	Z	0.5	2.4 (0)	69.0	4.53
4	MN	eP	05 59 41.3	Z	0.8	2.0 (0)	70.0	4.19
4	FM	eP	06 00 01.5	Z	0.5	6.8 (0)	74.0	4.81
4	CP	eP	06 00 11.3	Z	0.6	2.4 (0)	76.0	4.39
4	NG	eP	06 00 40.0	Z	0.6	7.2 (0)	81.0	4.80
4	LC	eP	06 00 46.1	Z	0.9	5.7 (0)	82.0	4.60
4	DH	eP	06 01 21.0	Z	0.6	8.2 (0)	89.0	5.09
							AVG.	4.63
4	DH	eP	07 13 13.1	Z	0.5	7.1 (0)		
4	CP	eP	07 13 59.5	Z	0.7	35.0 (0)		
4	WI	eP	07 14 34.7	Z	1.0	11.0 (0)		
4	WI	e	07 15 27	Z	1.1	5.7 (0)		
4	FM	eP	07 39 24.5	Z	0.5	6.8 (0)		
4	WI	eP	10 47 05.2	Z	0.8	2.7 (0)		
4	MN	eP	10 47 13.8	Z	1.0	1.7 (0)		
4	WI	eL	10 48 23	Z	1.0	6.6 (0)		
4	MN	eL	10 48 28	Z	1.0	4.8 (0)		
4	LC	eP	10 48 42.0	Z	1.0	2.0 (0)		
4	NG	eP	10 48 55.5	Z	1.0	17.0 (0)		
4	FM	eP	10 48 59.0	Z	0.7	9.4 (0)		
4	CP	eP	10 49 16.7	Z	0.9	2.3 (0)		
4	LC	eL	10 50 08	Z	0.9	4.0 (0)		
4	NG	eL	10 50 13	Z	1.0	17.0 (0)		
4	SJ	eP	10 51 03.5	Z	0.8	23.0 (0)		
4	DH	eP	10 51 25.1	Z	0.5	7.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP	10 56 37.0	Z	0.9	4.0 (0)		
4	CP	eP eS	12 38 12.6 12 38 30	Z R	0.2 0.3	2.6 (0) 5.5 (0)	1.4	
4	DH	eP eS	13 04 29.5 13 04 53	Z R	0.3 0.5	19.0 (0) 51.0 (0)	1.7	
4	CP	eP eS	13 14 33.5 13 15 19	Z T	0.3 0.5	1.0 (0) 4.4 (0)	3.6	
4	13 25 27.8		20.3 S 177.8 W H =592 KM				FIJI ISLANDS REGION	
4	CP	eP	15 58 53.0	Z	0.5	2.1 (0)		
4	CP	eL	16 00 09	T	0.8	9.3 (0)		
4	LC	eP	16 18 41.6	Z	0.5	1.7 (0)		
4	DH	eP eS eL	16 18 59.8 16 19 13 16 19 18	Z Z Z	0.2 0.3 0.3	12.0 (0) 12.7 (0) 44.3 (0)	1.0	
4	LC	eP	16 35 40.0	Z	0.6	2.0 (0)		
4	LC	eP	16 37 13.0	Z	0.5	2.0 (0)		
4	17 38 53.9		51.2 N 176.6 W H =023 KM				ANDREANOF IS., ALEUTIAN IS.	
4	WI	eP	17 47 03.5	Z	0.8	2.7 (0)	44.0	4.03
4	LC	eP	17 48 18.0	Z	0.9	2.0 (0)	54.0	4.14
4	NG	eP	17 48 30.5	Z	0.7	8.6 (0)	56.0	4.89
4	DH	eP	17 49 35.0	Z	0.9	15.8 (0)	65.0	5.17
							AVG.	4.55
4	DH	eP eS	18 31 15.0 18 31 36	Z R	0.5 0.5	7.1 (0) 14.6 (0)	1.6	
4	DH	eP eS	18 33 38.0 18 33 57	Z R	0.4 0.4	12.9 (0) 19.6 (0)	1.5	
4	CP	eP eS	19 20 38.5 19 20 48	Z R	0.3 0.4	2.7 (0) 8.5 (0)	0.7	
4	MN	eLR	19 28 00	LZ	26	23.4 (1)		
4	CP	eP eS	19 54 49.5 19 54 57	Z T	0.3 0.5	18.0 (0) 31.0 (0)	0.5	
4	NG	eP	20 06 33.0	Z	0.7	8.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP eS	20 29 21.5 20 29 40	Z R	0.3 0.5	3.7 (0) 8.3 (0)	1.5	
4	DH	eP eS	21 06 27.0 21 06 49	Z R	0.2 0.5	6.0 (0) 29.0 (0)	1.6	
4	MN	eLR	21 36 30	LZ	21	18.8 (1)		
4	FM	eP	23 06 35.5	Z	0.6	7.8 (0)		
4	23 08 05.3		00.9 S 080.8 W H = 074 KM				NEAR COAST OF ECUADOR	
4	SJ	eP eS eS e eLQ	23 14 36.4 23 20 00 23 20 00 23 22 35 23 23 30	Z LT LR LR LT	1.0 19 10 23 30	37.0 (0) 10.0 (2) 12.0 (2) 12.9 (2) 20.6 (2)	33.0	5.19
4	LC	eP eS eS eSCS eLQ eLR	23 15 43.3 23 22 00 23 22 00 23 25 35 23 28 00 23 31 00	Z LR LT LT LT LZ	0.9 18 20 20 27 18	5.7 (0) 37.0 (1) 40.0 (1) 70.0 (1) 11.6 (2) 10.3 (2)	41.0	4.37
4	DH	eP eS eS eSCS eLR	23 16 01.0 23 22 30 23 22 30 23 26 07 23 30 00	Z LT LR LR LZ	1.0 20 17 22 25	19.5 (0) 37.8 (1) 75.0 (1) 67.5 (1) 29.2 (1)	43.0	4.79
4	NG	eP eS eSCS eLR	23 16 28.5 23 23 20 23 26 30 23 30 08	Z LR LR LR	1.0 20 15 20	17.0 (0) 59.0 (1) 93.0 (1) 59.0 (1)	47.0	4.93
4	CP	eP	23 16 31.0	Z	1.0	8.4 (0)	47.0	4.60
4	FM	eP eS eS eSCS eLQ eLR	23 16 50.0 23 24 05 23 24 05 23 26 15 23 31 50 23 33 25	Z LT LR LT LR LZ	0.5 25 21 21 30 26	6.8 (0) 48.0 (1) 37.4 (1) 38.2 (1) 12.0 (2) 54.5 (1)	50.0	4.83
4	MN	eP e eS eS eSCS eLQ eLR eL	23 17 10.0 23 17 20 23 24 35 23 24 35 23 27 05 23 30 00 23 34 00 23 39 00	Z Z LR LT LT LT LZ LZ	0.7 1.0 20 19 20 35 25 15	2.5 (0) 9.7 (0) 18.3 (1) 45.0 (1) 18.5 (1) 10.7 (2) 47.0 (1) 11.8 (2)	52.0	4.33

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL eL	23 39 00 23 39 00	LR LT	15 15	93.0 (1) 58.0 (1)		
4	WI	eP eS eS eLQ eLR	23 17 31.0 23 24 52 23 24 52 23 33 25 23 38 05	Z LR LT LT LZ	0.8 23 22 30 24	5.5 (0) 51.0 (1) 40.0 (1) 10.2 (2) 15.4 (2)	55.0	4.64
							AVG.	4.71
4	CP	eP eS	23 08 34.5 23 08 51	Z T	0.3 0.4	4.5 (0) 9.7 (0)	1.3	
4	23 41 14.2		38.9 N 140.7 E H = 018 KM				HONSHU, JAPAN	
4	MN	eP	23 52 50.9	Z	0.8	2.0 (0)	74.0	4.16
4	LC	eP	23 53 52.0	Z	0.8	3.0 (0)	85.0	4.52
							AVG.	4.34
4	NG	eP	23 44 37.0	Z	1.0	17.0 (0)		
5	MN	eP	00 56 38.7	Z	0.5	0.6 (0)		
5	CP	eP eS	05 04 08.1 05 04 25	Z R	0.3 0.4	2.0 (0) 26.0 (0)	1.3	
5	WI	eP eS	05 42 58.1 05 43 44	Z R	0.4 0.5	1.4 (0) 16.0 (0)	3.6	
5	WI	eP	06 13 06.5	Z	0.7	3.3 (0)		
5	MN	eP	07 12 53.7	Z	0.8	2.0 (0)		
5	MN	eP	08 11 46.7	Z	0.7	2.0 (0)		
5	MN	eP	09 11 31.9	Z	0.4	4.0 (0)	1.9	
5	WI	eP	09 11 43.5	Z	0.3	0.7 (0)	3.5	
5	MN	eS	09 11 58	T	0.5		1.9	
5	WI	eS	09 12 28	T	0.5	6.7 (0)	3.5	
5	MN	eL	09 13 26	LZ	20	14.0 (1)		
5	WI	eL	09 15 00	LZ	25	11.0 (1)		
5	11 11 51.4		34.2 N 139.2 E H = 073 KM				SO. COAST HONSHU, JAPAN	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
5	MV	eP	11 23 31.5	Z	1.0	15.0 (0)	76.0	4.85				
		eLR	11 43 50	LZ	27	20.0 (2)						
		eL	11 46 55	LZ	30	67.0 (1)						
		eL	11 46 55	LR	27	11.0 (2)						
5	WI	eL	11 46 55	LT	35	17.0 (2)	77.0	5.00				
		eP	11 23 39.5	Z	1.3	27.0 (0)						
		e	11 24 15	Z	1.2	14.0 (0)						
		eS	11 33 32	LR	17	52.0 (1)						
5	MN	eS	11 33 32	LT	15	21.0 (1)	78.0	4.50				
		eSSS	11 42 20	LR	22	41.0 (1)						
		eLQ	11 44 10	LT	35	95.0 (1)						
		eL	11 45 20	LZ	22	27.0 (1)						
		eL	11 45 20	LR	25	47.0 (1)						
		eL	11 45 20	LT	22	1.7 (0)						
		eP	11 23 44.7	Z	1.2	8.0 (0)						
		eS	11 33 42	LR	17	28.0 (1)						
		eS	11 33 42	LT	20	18.0 (1)						
		e	11 44 35	LT	35	48.0 (2)						
		eLR	11 48 08	LZ	35	21.0 (2)						
		eL	11 48 45	LZ	25	13.0 (2)						
5	FM	eL	11 48 45	LR	17	11.0 (2)	82.0	4.46				
		eL	11 48 45	LT	25	82.0 (1)						
		eP	11 24 04.0	Z	1.0	6.0 (0)						
		eS	11 34 30	LT	20	24.0 (0)						
		eS	11 34 30	LR	20	16.0 (1)						
		eSS	11 39 50	LT	25	24.0 (1)						
		eLQ	11 47 27	LR	25	70.0 (1)						
		eL	11 48 05	LZ	15	23.0 (1)						
5	CP	eL	11 48 05	LR	25	70.0 (1)	82.0	4.46				
		eL	11 48 05	LT	25	36.0 (1)						
		eP	11 24 07.2	Z	1.0	6.0 (0)						
		eP	11 24 43.5	Z	1.0	17.0 (0)						
5	NG	eP	11 24 43.5	Z	1.0	17.0 (0)	90.0	5.16				
		ePS	11 36 45	LT	15	49.0 (1)						
		eSS	11 41 50	LT	22	95.0 (1)						
		eLR	11 56 30	LZ	25	42.0 (1)						
		eL	12 04 35	LZ	22	42.0 (1)						
		eL	12 04 35	LR	20	10.0 (2)						
		eL	12 04 35	LT	25	47.0 (1)						
		eL	12 04 35	LT	25	36.0 (1)						
5	LC	eP	11 24 50.4	Z	1.0	4.8 (0)	91.0	4.71				
		eS	11 35 45	LR	20	24.0 (1)						
		eS	11 35 42	LT	20	32.0 (1)						
		ePS	11 36 54	LR	18	47.0 (1)						
		eSS	11 41 52	LR	27	34.0 (1)						
		eLQ	11 50 00	LR	27	94.0 (1)						
		eL	12 05 50	LZ	17	46.0 (1)						
		eL	12 05 50	LR	20	24.0 (1)						
		eL	12 05 50	LT	20	54.0 (1)						
		5	SJ	ePS	11 38 32	LR			19	53.0 (1)	98.0	
				eLQ	11 54 25	LT			30	10.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	SJ	eL	11 56 35	LR	25	29.0 (1)	98.0	
		eL	11 56 35	LT	22	29.0 (2)		
5	DH	eLR	12 01 45	LZ	35	26.0 (2)	98.0	
		eL	12 04 50	LZ	25	17.0 (2)		
		eL	12 04 50	LR	25	18.0 (2)		
		eL	12 04 50	LT	20	36.0 (1)		
							AVG.	4.73
5	CP	eP	12 15 36.2	Z	0.5	2.0 (0)		
5	MN	eP	14 18 38.5	Z	0.4	1.0 (0)		
5	MN	e	14 18 55	Z	0.7	6.0 (0)		
5	MN	eL	14 20 02	T	0.8	2.0 (0)		
5	CP	eP	14 39 59.2	Z	0.5	1.0 (0)	4.6	
		eS	14 40 55	T	0.5	22.0 (0)		
5	DH	eP	15 06 19.5	Z	0.3	19.0 (0)	1.9	
		eS	15 06 45	R	0.5	44.0 (0)		
5	FM	eP	15 27 35.3	Z	0.5	1.0 (0)	3.1	
		eS	15 28 15	R	0.6	3.0 (0)		
5	MN	eP	16 49 57.7	Z	1.0	3.0 (0)		
5	LC	eP	16 51 17.1	Z	1.0	2.4 (0)		
5	DH	eP	16 52 36.5	Z	0.7	20.0 (0)		
5	WI	eP	16 54 27.5	Z	0.7	2.2 (0)		
5	MN	eP	16 54 33.8	Z	0.6	2.0 (0)		
5	MN	eP	17 31 42.8	Z	0.3	1.6 (0)	1.2	
		eS	17 31 58	R	0.5	2.3 (0)		
5	FM	eP	20 13 34.3	Z	0.4	2.0 (0)	2.0	
		eS	20 14 02	R	0.5	7.0 (0)		
5	FM	eP	21 23 41.8	Z	0.5	2.0 (0)	4.9	
		eS	21 24 41	R	0.6	6.0 (0)		
5	MN	eP	22 14 48.5	Z	0.8	2.0 (1)		
5	WI	eL	22 30 55	LZ	38	13.0 (2)		
			23 05 56.9	31.6 S 176.7 W	KERMADEC ISLANDS REGION			
				H = 041 KM				
5	CP	eP	23 18 36.2	Z	0.8	27.0 (0)	87.0	5.45
5	MV	eLR	23 45 32	LZ	22	41.0 (0)	88.0	5.15
		eP	23 18 43.5	Z	1.0	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	MN	eLR	23 48 00	LZ	20	31.0 (1)	89.0	5.47
		eL	23 48 55	LZ	20	31.0 (1)		
		eL	23 48 55	LR	20	50.0 (1)		
		eL	23 48 55	LT	20	42.0 (1)		
		eP	23 18 48.9	Z	1.2	39.0 (0)		
		eLR	23 48 50	LZ	22	42.0 (1)		
		eL	23 54 50	LZ	20	37.0 (1)		
5	WI	eL	23 54 50	LR	20	18.0 (1)	91.0	5.17
		eL	23 54 50	LT	20	32.0 (1)		
		eP	23 19 00.7	Z	1.0	13.0 (0)		
		eLQ	23 50 00	LT	25	34.0 (1)		
		eL	23 51 22	LT	20	41.0 (1)		
		eL	23 51 22	LZ	22	60.0 (1)		
		eL	23 51 22	LR	20	21.0 (1)		
5	LC	eP	23 19 05.0	Z	1.2	12.0 (0)	93.0	5.24
		eP	23 19 08.8	Z	0.7	2.0 (0)	93.0	4.62
5	FM	eLQ	23 51 18	LR	20	16.0 (1)	93.0	4.62
		eL	23 55 32	LZ	20	14.0 (1)		
		eL	23 55 32	LR	18	18.0 (1)		
		eL	23 55 32	LT	20	12.0 (1)		
		AVG.						
5	WI	eP	23 12 09.0	Z	0.5	2.4 (0)	1.8	
		eS	23 12 34	T	0.7	11.0 (0)		
6	DH	eL	00 06 15	LZ	22	31.0 (1)		
6	MV	eL	01 19 25	LZ	25	12.0 (1)		
6	FM	eL	01 28 20	LZ	20	10.0 (1)		
6	DH	eL	01 47 35	LZ	20	21.0 (1)		
6	00 35 27.8		06.0 S 151.6 E	NEW BRITAIN REGION				
			H =025 KM					
6	MN	eP	00 48 49.0	Z	1.0	5.5 (0)	95.0	4.94
6	03 13 49.3		54.3 S 136.6 W	SOUTH PACIFIC OCEAN				
			H =023 KM					
6	CP	eP	03 26 33.7	Z	1.0	5.8 (0)	88.0	4.79
		eLR	03 54 50	LZ	20	42.0 (1)		
		eL	03 57 00	LZ	20	10.0 (2)		
		eL	03 57 00	LR	18	49.0 (1)		
6	MV	eLQ	03 57 12	LZ	22	40.0 (1)	94.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	MN	eL	03 58 22	LZ	23	23.0 (1)	95.0	5.47
		eL	03 58 22	LR	24	42.0 (1)		
		eL	03 58 22	LT	22	29.0 (1)		
		eLR	03 57 36	LT	25	48.0 (1)		
		eL	03 58 50	LZ	22	47.0 (1)		
6	WI	eL	03 58 50	LR	25	47.0 (1)	96.0	5.17
		eL	03 58 50	LT	20	26.0 (1)		
		eLQ	03 58 45	LT	30	47.0 (1)		
		eL	04 05 40	LZ	18	41.0 (1)		
		eL	04 05 40	LR	18	72.0 (1)		
6	FM	eL	04 05 40	LT	19	88.0 (1)	95.0	4.79
		eLR	03 59 30	LZ	22	30.0 (1)		
		eL	04 01 34	LZ	18	36.0 (1)		
		eL	04 01 34	LR	20	19.0 (1)		
		eL	04 01 34	LT	22	19.0 (1)		
AVG.							4.79	
6	03 33 47.0		54.2 S 136.5 W	SOUTH PACIFIC OCEAN				
			H =025 KM					
6	CP	eP	03 46 38.5	Z	0.7	2.9 (0)	89.0	4.59
		eLR	04 14 34	LZ	24	23.0 (2)		
		eL	04 15 45	LR	22	11.0 (2)		
		eL	04 15 45	LT	24	67.0 (1)		
6	LC	eP	03 46 40.0	Z	1.0	4.8 (0)	89.0	4.66
6	SJ	eP	03 46 41.6	Z	1.0	36.0 (0)	89.0	5.53
		eSS	04 03 15	LR	20	14.0 (2)		
		e	04 10 17	LR	25	19.0 (2)		
		eLQ	04 12 02	LR	25	33.0 (2)		
		eL	04 13 05	LZ	20	49.0 (1)		
		eL	04 13 05	LR	25	33.0 (2)		
		eL	04 13 05	LT	25	53.0 (1)		
6	MN	eP	03 47 10.5	Z	1.2	6.0 (0)	95.0	4.98
		eLR	04 17 10	LZ	27	30.0 (2)		
		eL	04 21 15	LZ	19	21.0 (2)		
		eL	04 21 15	LR	20	13.0 (2)		
		eL	04 21 15	LT	18	32.0 (2)		
6	MV	eLQ	04 16 52	LZ	27	24.0 (2)	94.0	
		eL	04 18 10	LZ	23	15.0 (2)		
		eL	04 18 10	LR	23	52.0 (1)		
		eL	04 18 10	LT	25	23.0 (2)		
		eLR	04 18 32	LZ	28	14.0 (2)	95.0	
6	FM	eL	04 20 22	LZ	20	10.0 (2)		
		eL	04 20 22	LR	22	74.0 (1)		
		eL	04 20 22	LT	22	87.0 (1)		
6	WI	eLR	04 18 40	LZ	30	33.0 (2)	96.0	
		eL	04 20 28	LZ	22	24.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	NG	eL eL eLQ	04 20 28 04 20 28 04 21 05	LR LT LT	22 20 40	20.0 (2) 14.0 (2) 76.0 (1)	107.0	4.88
6	05 20 59.6		37.8 S 073.4 W H =025 KM				NEAR COAST OF SOUTH CHILE	
6	DH	eP	05 33 05.5	Z	1.0	20.0 (0)	79.0	5.07
6	CP	eP	05 33 13.7	Z	0.7	2.9 (0)	81.0	4.59
6		eLR	06 01 10	LZ	25	4.9 (0)		
6	NG	eP	05 33 29.0	Z	0.7	8.4 (0)	84.0	5.01
6	MN	eP	05 33 41.5	Z	1.0	3.7 (0)	86.0	4.42
						AVG.		4.77
6	FM	eL	05 52 40	LZ	25	20.0 (1)		
6	07 10 14.1		05.7 S 151.6 E H =098 KM				NEW BRITAIN	
6	MN	eP	07 23 25.8	Z	1.0	3.7 (0)	95.0	4.77
6	WI	eP	07 43 04.2	Z	0.8	2.8 (0)		
6	MN	eP	07 58 07.0	Z	0.7	1.8 (0)		
6	CP	eP	11 19 34.2	Z	0.3	4.7 (0)	1.3	
		eS	11 19 51	T	0.5	29.0 (0)		
6	WI	eP	11 27 32.0	Z	1.0	2.2 (0)		
6	MN	eP	11 27 43.2	Z	1.0	1.8 (0)		
6	LC	eP	11 29 42.8	Z	1.0	4.8 (0)		
6	12 08 45.6		20.8 S 178.7 W H =587 KM				FIJI ISLANDS REGION	
6	CP	eP	12 19 50.9	Z	1.0	8.6 (0)	80.0	4.13
6	MN	eP	12 20 10.3	Z	1.0	9.2 (0)	82.0	4.26
6	WI	eP	12 20 21.4	Z	1.0	4.4 (0)	85.0	4.04
6	LC	eP	12 20 35.5	Z	1.0	4.8 (0)	88.0	4.18
		epP	12 22 41	Z	1.0	4.8 (0)		
						AVG.		4.15

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	12 55 31.1		23.4 S 171.2 E H =075 KM				LOYALTY ISLANDS REGION	
6	MN	eP	13 08 28.9	Z	0.8	2.3 (0)	91.0	4.48
6	FM	eP	13 17 46.7	Z	0.4	31.0 (0)	1.5	
		eS	13 18 07	R	0.5	51.0 (0)		
6	CP	eP	16 44 01.9	Z	0.3	0.9 (0)	5.2	
		eS	16 45 04	T	0.4	18.0 (0)		
6	19 00 10.2		60.0 S 032.8 W H =025 KM				SANDWICH ISLANDS REGION 7.00- PAS	
6	SJ	eP	19 14 09.6	Z	1.0	54.0 (0)	102.0	6.16
		eP	19 14 10	LZ	15	37.0 (2)		
		ePP	19 18 20	Z	1.8	29.0 (1)		
		ePP	19 18 25	LZ	25	37.0 (2)		
		e	19 20 00	LZ	20	32.0 (2)		
		eSKS	19 24 47	LR	22	94.0 (2)		
		eS	19 25 50	LT	20	95.0 (2)		
		eS	19 25 50	LR	18	38.0 (2)		
6	DH	ePD	19 14 40.0	Z	1.0	20.0 (0)	108.0	6.20
		ePD	19 14 42	LZ	23	10.0 (2)		
		ePP	19 18 56	Z	1.2	64.0 (0)		
		ePP	19 19 00	LZ	22	38.0 (2)		
		ePPP	19 21 20	LZ	22	29.0 (2)		
		eSKS	19 25 02	LT	25	26.0 (2)		
		eS	19 26 37	LR	15	39.0 (2)		
		eS	19 26 37	LT	24	14.0 (2)		
		ePS	19 28 20	LT	28	99.9 (9)		
		ePKKP	19 30 07	Z	1.0	18.0 (0)		
		e	19 30 35	LT	42	16.0 (3)		
		eLQ	19 44 27	LR	40	18.0 (3)		
6	LC	ePD	19 14 47	LZ	22	10.0 (2)	110.0	
		ePP	19 19 07	Z	1.4	49.0 (0)		
		ePP	19 19 07	LZ	28	30.0 (2)		
		eSKS	19 25 25	LR	25	41.0 (2)		
		ePS	19 28 45	LT	25	68.0 (2)		
		ePPS	19 29 45	LT	25	84.0 (2)		
		ePKKP	19 29 56	Z	1.0	17.0 (0)		
		eSS	19 34 30	LT	999.9	99.9 (9)		
		e	19 37 38	Z	3.5			
		eLQ	19 42 15	LT	25	68.0 (2)		
		eLR	19 58 37	Z	1.2			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	NG	ePD	19 15 07	LZ	22	79.0 (1)	115.0	
		ePP	19 19 45	Z	1.2	57.0 (0)		
		ePP	19 19 53	LZ	22	51.0 (2)		
		ePPP	19 22 15	LZ	28	21.0 (2)		
		ePS	19 29 27	LT	30	16.0 (3)		
		eSS	19 35 35	LT	999.9	99.9 (9)		
		eLQ	19 53 00	LT	999.9	99.9 (9)		
		ePD	19 15 10	LZ	15	13.0 (2)		
		eP _i	19 18 51.2	Z	1.0	14.0 (0)		
		ePP	19 19 47	Z	2.0	10.0 (1)		
6	CP	ePP	19 19 47	LZ	20	43.0 (2)	115.0	
		ePPP	19 22 35	LZ	25	14.0 (2)		
		ePS	19 29 35	LT	999.9	99.9 (9)		
		ePKKP	19 29 39	Z	1.5	19.0 (0)		
		eSPP	19 30 50	LZ	22	12.0 (3)		
		ePSPS	19 36 00	LR	28	99.9 (9)		
		e	19 38 45	LR	30	15.0 (3)		
		eL	19 50 05	LZ	999.9	99.9 (9)		
		ePD	19 15 25	LZ	22	51.0 (1)		
		eP _i	19 18 57.8	Z	0.7	94.0 (0)		
6	FM	ePP	19 20 14	Z	1.5	58.0 (0)	118.0	
		ePP	19 20 20	LZ	24	29.0 (2)		
		e	19 21 38	LZ	30	42.0 (2)		
		ePS	19 30 05	LT	999.9	99.9 (9)		
		eSS	19 36 12	LR	25	54.0 (2)		
		ePD	19 15 26	LZ	22	47.0 (1)		
		eP _i	19 19 00.2	Z	1.0	29.0 (0)		
		ePP	19 20 18	Z	1.5	61.0 (0)		
		ePP	19 20 20	LZ	20	24.0 (2)		
		ePPP	19 23 12	Z	4.0			
6	MN	ePPP	19 23 11	LZ	25	22.0 (2)	121.0	
		ePKKP	19 29 11	Z	1.2	12.0 (0)		
		eSP	19 30 20	LZ	25	99.9 (9)		
		e	19 32 34	T	1.2	9.0 (0)		
		e	19 38 44	Z	1.0	3.7 (0)		
		ePD	19 15 30	LZ	15	37.0 (1)		
		eP _i	19 19 04.2	Z	1.0	22.0 (0)		
		ePP	19 20 36	Z	1.5	62.0 (0)		
		ePP	19 20 39	LZ	18	34.0 (2)		
		ePKKP	19 29 10	Z	1.5	28.0 (0)		
6	WI	eSP	19 30 15	LZ	25	99.9 (9)	122.0	
		e	19 32 00	LZ	25	99.9 (9)		
		e	19 32 24	Z	1.4	23.0 (0)		
		e	19 38 50	Z	0.7	2.2 (0)		
		ePD	19 15 48	LZ	24	11.0 (2)		
		eP _i	19 19 04.5	Z	1.0	38.0 (0)		
		eP _i	19 19 07	LZ	17	67.0 (1)		
		ePP	19 20 37	Z	2.0	83.0 (0)		
		ePP	19 20 38	LZ	18	45.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG			
		eSKKS	19 27 22	LR	25	18.0 (2)	AVG.	6.18			
		e	19 28 35	LT	20	17.0 (2)					
		ePS	19 30 40	LT	24	32.0 (2)					
		ePPS	19 31 43	LT	24	58.0 (2)					
		e	19 32 58	Z	5.0						
		eSS	19 37 12	LT	24	61.0 (2)					
		6	WI	eP	21 51 39.2	Z			0.8	22.0 (0)	
		6	21 53 48.5	60.2 S 033.1 W	SANDWICH ISLANDS REGION						
				H = 037 KM							
		6	MN	eP _i	22 12 37.5	Z			0.9	6.0 (0)	121.0
6	WI	eP _i	22 12 42.7	Z	1.2	18.0 (0)	122.0				
6	DH	eLR	22 45 00	LZ	35	35.0 (2)	108.0				
		eL	22 51 23	LZ	25	39.0 (2)					
		eL	22 51 23	LR	25	26.0 (2)					
		eL	22 51 23	LT	25	21.0 (2)					
6	CP	eLR	22 54 10	LZ	30	12.0 (2)	114.0				
		eL	22 54 10	LT	22	50.0 (1)					
6	22 34 47.9	60.4 S 033.6 W	SANDWICH ISLANDS REGION								
		H = 034 KM									
6	MN	eP _i	22 53 33.8	Z	1.0	3.7 (0)	121.0				
6	CP	eL	23 49 50	LZ	25	62.0 (1)					
7	04 56 38.4	04.1 S 143.7 E	NEAR N. COAST NEW GUINEA								
		H = 113 KM									
7	CP	eP	06 37 13.2D	Z	0.2	13.0 (0)	0.4				
		eS	06 37 20	T	0.3	24.0 (0)					
7	CP	eP	07 27 27.9	Z	0.2	2.8 (0)	1.1				
		eS	07 27 43	R	0.3	16.0 (0)					
7	08 07 55.8	19.3 N 145.4 E	MARIANA ISLANDS								
		H = 116 KM									

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	WI	eP	08 20 09.0	Z	0.5	6.2 (0)	83.0	4.76
		epP	08 20 36	Z	0.9	9.2 (0)		
7	MN	eP	08 20 11.1	Z	0.6	8.1 (0)	83.0	4.80
		epP	08 20 36	Z	1.0	7.0 (0)		
7	CP	eP	08 20 27.4	Z	0.8	2.2 (0)	87.0	4.21
7	FM	eP	08 20 31.7	Z	0.6	4.1 (0)	88.0	4.60
7	LC	eP	08 21 04.4	Z	0.7	3.5 (0)	92.0	4.75
		epP	08 21 33	Z	0.7	3.5 (0)		
						AVG.		4.62
7	MN	eP	08 33 18.9	Z	1.0	1.7 (0)		
7	LC	eP	10 50 19.0	Z	1.0	2.3 (0)		
7	CP	eP	10 50 23.2	Z	1.1	4.6 (0)		
7	MN	eP	10 50 56.8	Z	1.2	5.5 (0)		
7	LC	eP	11 23 16.7	Z	1.0	2.3 (0)		
7	MN	eP	11 24 03.5	Z	0.4	0.6 (0)	1.3	
		eS	11 24 20	R	0.5	3.1 (0)		
7	MN	eP	12 40 55.7	Z	0.8	1.1 (0)		
7	13 06 54.2		32.0 S 176.5 W			KERMADEC ISLANDS REGION		
			H = 025 KM					
7	CP	eP	13 19 38.1	Z	1.0	7.1 (0)	87.0	4.80
7	MN	eP	13 19 50.4	Z	1.0	3.5 (0)	89.0	4.51
7	WI	eP	13 20 01.9	Z	1.0	5.6 (0)	92.0	4.85
						AVG.		4.72
7	CP	iP	13 09 36.3D	Z	0.3	14.0 (0)	0.9	
		eS	13 09 48	T	0.3	42.0 (0)		
7	CP	eP	15 09 45.8	Z	0.8	6.7 (0)		
7	MN	eP	15 09 57.1	Z	0.9	4.3 (0)		
7	WI	eP	15 10 08.0	Z	1.0	2.8 (0)		
7	LC	eP	15 10 16.8	Z	1.0	4.6 (0)		
7	FM	eP	15 10 17.4	Z	0.7	4.9 (0)		
7	LC	eP	15 28 13.7	Z	0.7	2.3 (0)		
7	LC	e	15 29 04	Z	0.5	1.7 (0)		
7	CP	eP	16 12 33.8	Z	0.3	3.5 (0)	1.6	
		eS	16 12 56	R	0.4	5.7 (0)		
7	WI	eP	16 26 29.5	Z	0.5	2.1 (0)		
7	CP	eP	16 36 01.6	Z	0.2	1.4 (0)	0.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	16 36 10	T	0.2	23.0 (0)		
7	17 39 50.3		45.3 N 146.7 E			KURILE ISLANDS		
			H = 025 KM			MAG 6.75-		
						PAS		
7	MV	eP	17 50 29.0	Z	1.1	11.0 (1)	65.0	5.90
		iP	17 50 30 C	LZ	11	10.0 (3)		
		e	17 50 37	Z	1.2	16.0 (1)		
		e	17 52 30	Z	3.3			
		eS	17 59 10	R	3.2			
		eS	17 59 10	T	3.5			
		eS	17 59 11	LR	14	51.0 (2)		
		eS	17 59 11	LT	16	75.0 (2)		
		e	18 02 37	LR	19	31.0 (2)		
		eSS	18 03 30	LR	28	62.0 (2)		
		eL	18 06 54	LT	30	82.0 (2)		
		eL	18 08 00	LZ	24	20.0 (2)		
		eL	18 08 00	LR	17	31.0 (2)		
		eL	18 08 00	LT	21	74.0 (2)		
		eP <i>iP</i>	18 19 13	Z	5.0			
7	WI	iP	17 50 35.2C	Z	1.0	79.0 (0)	66.0	5.82
		iP	17 50 37 C	LZ	16	55.0 (2)		
		e	17 50 45	Z	1.4	27.0 (1)		
		eS	17 59 18	R	5.0			
		eS	17 59 18	T	4.0			
		eS	17 59 25	LR	22	51.0 (2)		
		eS	17 59 25	LT	20	40.0 (2)		
		e	18 00 23	LR	28	83.0 (2)		
		e	18 01 57	LR	21	42.0 (2)		
		eSS	18 03 14	LT	28	60.0 (2)		
		e	18 06 44	LR	20	49.0 (2)		
		eLR	18 10 57	LZ	30			
		eP <i>iP</i>	18 19 14	Z	1.6	43.0 (0)		
7	MN	eP	17 50 45.2	Z	1.1	12.0 (1)	67.0	5.95
		eP	17 50 47	LZ	14			
		e	17 50 53	Z	1.2	23.0 (1)		
		eS	17 59 45	LR	20	41.0 (2)		
		eS	17 59 45	LT	23	23.0 (2)		
		e	18 00 46	LR	30			
		eSS	18 03 55	LT				
		eSSS	18 06 55	LT	26	44.0 (2)		
7	FM	iP	17 51 03.7C	Z	1.1	25.0 (1)	70.0	6.18
		iP	17 51 04 C	LZ	12	10.0 (3)		
		e	17 51 13	Z	1.1	38.0 (1)		
		eS	18 00 20	LR	20	50.0 (2)		
		eS	18 00 20	LT	22	24.0 (2)		
		e	18 01 19	LT	27	54.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	CP	eSS	18 04 30	LT	31	62.0 (2)		
		eSSS	18 08 15	LT	24	52.0 (2)		
		e	18 10 33	LR	33	75.0 (2)		
		eL	18 13 30	LT	31	14.0 (3)		
		eP ⁰ P ⁰	18 19 04	Z	4.5			
		iP	17 51 14.5C	Z	1.2	12.0 (1)	72.0	5.80
		iP	17 51 15 C	LZ	13	71.0 (2)		
		eS	18 00 38	R	3.5			
		eS	18 00 38	T	4.5			
		eS	18 00 45	LR	18	41.0 (2)		
		eS	18 00 45	LT	18	46.0 (2)		
		e	18 01 30	LT	23	55.0 (2)		
		eSS	18 05 21	LT	20	60.0 (2)		
		e	18 09 11	LT	23	43.0 (2)		
		eL	18 13 18	LZ	34	98.0 (2)		
		eP ⁰ P ⁰	18 18 56	Z	4.5			
		eL	18 24 49	LZ	16	23.0 (2)		
		eL	18 24 49	LR	19	38.0 (2)		
		eL	18 24 49	LT	19	11.0 (3)		
7	NG	iP	17 51 44.5C	Z	1.0	14.0 (1)	77.0	5.96
		iP	17 51 47 C	LZ	11	10.0 (3)		
		eS	18 01 34	R	3.2			
		eS	18 01 34	T	3.0	45.0 (1)		
		eS	18 01 35	LR	15	85.0 (2)		
		eS	18 01 35	LT	12	85.0 (2)		
		eSS	18 06 41	LT	18	32.0 (2)		
		eSSS	18 10 05	LR	25	33.0 (2)		
		e	18 14 33	LR	30	13.0 (3)		
		eLR	18 20 52	LZ	25	13.0 (3)		
		eLR	18 21 50	LZ	26	12.0 (3)		
		eLR	18 21 50	LR	24	24.0 (3)		
		eLR	18 21 50	LT	28	68.0 (2)		
7	LC	iP	17 51 50.4C	Z	1.3	12.0 (1)	78.0	5.80
		iP	17 51 51 C	LZ	12	10.0 (3)		
		e	17 51 59	Z	1.1	14.0 (1)		
		e	17 54 04	Z	2.5	15.0 (1)		
		eS	18 01 46	LR	21	26.0 (2)		
		eS	18 01 46	LT	21	45.0 (2)		
		ePS	18 02 35	LR	18	46.0 (2)		
		eSS	18 07 07	LR	24	56.0 (2)		
		eSSS	18 10 28	LT	23	29.0 (2)		
		eL	18 17 48	LT	37	14.0 (3)		
		eL	18 26 00	LZ	17	19.0 (2)		
		eL	18 26 00	LR	23	11.0 (3)		
		eL	18 26 00	LT	20	13.0 (3)		
7	DH	iP	17 52 27.4C	Z	1.1	20.0 (1)	86.0	6.08
		eP	17 52 32	LZ	12	67.0 (2)		
		eS	18 02 48	LR	20	31.0 (2)		
		eS	18 02 48	LT	20	44.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	18 08 35	LT	32	43.0 (2)		
		e	18 17 52	LR	35	89.0 (2)		
		eL	18 21 58	LR	31			
7	SJ	eP	17 52 35.1	Z	1.6	41.0 (1)	87.0	6.36
		eP	17 52 37	LZ	11	23.0 (3)		
		eS	18 03 15	R	4.0			
		eS	18 03 15	T	3.5			
		eS	18 03 15	LR	20	85.0 (2)		
		eS	18 03 15	LT	21	11.0 (3)		
		ePS	18 04 05	LT	20	72.0 (2)		
		e	18 06 00	LT	20	49.0 (2)		
		eSS	18 08 40	LR	23	12.0 (3)		
		e	18 10 20	LZ	18	55.0 (2)		
		eSSS	18 12 55	LT	18	49.0 (2)		
		e	18 15 18	LT	29	77.0 (2)		
		eL	18 21 44	LZ	25	43.0 (2)		
							AVG.	5.98
7	19 03 32.1		59.5 S 025.6 W			SANDWICH ISLANDS		
			H = 025 KM					
7	FM	eP ¹	19 22 23.6	Z	0.7	4.9 (0)	122.0	
7	WI	eP ¹	19 22 32.2	Z	0.6	4.7 (0)	126.0	
7	WI	eP	19 04 31.0	Z	0.4	3.7 (0)	1.5	
		eS	19 04 50	R	0.5	4.5 (0)		
7	WI	eP	19 50 02.4	Z	0.5	10.0 (0)	4.9	
		eS	19 51 01	R	0.8	31.0 (0)		
7	FM	eP	23 45 25.1	Z	0.5	28.0 (0)		
8	WI	eP	00 02 38.0	Z	0.9	9.1 (0)		
8	NG	eP	01 51 50.0	Z	1.1	22.5 (0)		
8	DH	eP	03 33 18.0	Z	0.5	7.2 (0)		
8	LC	eP	03 33 59.0	Z	0.7	7.1 (0)		
8	NG	eP	03 34 03.5	Z	0.6	7.3 (0)		
8	CP	eP	03 36 11.2	Z	0.2	3.5 (0)	0.1	
		eS	03 36 15	R	0.3	21.0 (0)		
8	WI	eP	03 47 17.0	Z	0.7	1.1 (0)		
8	MN	eP	04 10 16.0	Z	0.2	1.6 (0)	0.3	
		eS	04 10 21	R	0.3	6.4 (0)		
8	CP	eP	04 35 39.3	Z	0.2	4.4 (0)	0.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	eS eP	04 35 49 04 50 20.5	T Z	0.4 0.5	23.6 (0) 3.2 (0)		
8	WI	eP	05 13 49.5	Z	1.0	4.4 (0)		
8	MN	eP	05 13 55.5	Z	0.7	1.7 (0)		
8	NG	eP	05 32 12.0	Z	0.7	8.8 (0)		
8	NG	eP	06 18 41.2	Z	0.7	8.8 (0)		
8	LC	eP	07 40 39.7	Z	0.5	1.3 (0)		
8	WI	eP	07 42 34.0	Z	0.6	2.8 (0)		
8	07 49 27.9		14.4 N 145.1 E H =070 KM				MARIANA ISLANDS	
8	TF	eP e	08 02 00.7 08 02 31	Z Z	0.8 0.8	16.0 (0) 5.3 (0)	86.0	5.05
8	WI	eP e	08 02 01.5 08 02 32	Z Z	0.5 0.7	5.6 (0) 2.2 (0)	86.0	4.80
8	MN	eP e	08 02 03.0 08 02 33	Z Z	0.8 0.9	5.4 (0) 2.8 (0)	87.0	4.69
8	CP	ePP eP e	08 05 29 08 02 16.5 08 02 46	Z Z Z	1.2 0.8 0.8	5.7 (0) 9.0 (0) 3.6 (0)	89.0	4.98
8	LC	eP	08 02 53.7	Z	1.0	2.4 (0)	97.0 AVG.	4.71 4.84
8	07 57 30.3		17.9 S 177.7 W H =409 KM				FIJI ISLANDS	
8	TF	eP	08 08 37.7	Z	1.0	8.4 (0)	77.0	4.39
8	CP	eP	08 08 43.6	Z	1.2	14.1 (0)	78.0	4.54
8	MN	eP	08 08 53.6	Z	0.9	7.0 (0)	79.0	4.37
8	WI	epP	08 10 30	Z	1.0	1.7 (0)		
8	WI	eP	08 09 04.0	Z	0.7	3.3 (0)	82.0	4.14
8	FM	eP	08 09 16.5	Z	0.7	9.8 (0)	84.0	4.65
8	LC	eP	08 09 22.0	Z	0.8	5.9 (0)	85.0	4.47
8	SJ	epP eP	08 11 00 08 10 09.8	Z Z	0.9 0.6	1.9 (0) 7.6 (0)	95.0 AVG.	5.00 4.50
8	MN	eP	07 59 25.0	Z	0.7	1.7 (0)		
8	WI	eP	07 59 34.0	Z	0.5	0.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	eP eS	08 31 26.5 08 31 47	Z R	0.3 0.4	2.8 (0) 11.5 (0)	1.6	
8	LC	eP	08 58 01.1	Z	0.8	1.5 (0)		
8	CP	eP	09 09 09.0	Z	0.3	1.0 (0)	3.4	
8	CP	eS eP eS	09 09 51 09 35 32.5 09 35 47	R Z R	0.5 0.2 0.4	2.0 (0) 1.8 (0) 32.0 (0)	1.1	
8	CP	eP	10 04 51.5	Z	0.2	1.8 (0)	2.7	
8	WI	e	10 04 58	Z	0.4	12.3 (0)		
8	WI	eS	10 05 26	R	0.4	20.4 (0)		
8	WI	eP	10 48 48.0	Z	1.0	2.2 (0)		
8	MN	eP	10 48 35.0	Z	1.0	1.7 (0)		
8	MN	eP eS	11 38 52.0 11 39 18	Z R	0.2 0.3	1.1 (0) 6.0 (0)	2.0	
8	CP	eP	13 04 11.7	Z	0.3	2.8 (0)	2.8	
8	DH	eS eP eS	13 04 47 13 49 54.6 13 50 19	R Z R	0.3 0.4 0.4	5.3 (0) 13.0 (0) 61.0 (0)	1.8	
8	DH	eP eS	14 01 32.5 14 01 52	Z R	0.5 0.5	7.2 (0) 7.5 (0)	1.5	
8	CP	eP	16 13 21.5	Z	0.2	2.7 (0)	1.1	
8	CP	eS eP eS	16 13 36 16 22 29.4 16 22 43	R Z R	0.3 0.3 0.3	7.8 (0) 3.7 (0) 3.5 (0)	1.0	
8	DH	eP	16 24 03.3	Z	0.8	25.0 (0)		
8	16 25 12.0		43.8 N 144.4 E H =106 KM				EAST COAST HONSHU, JAPAN	
8	WI	eP	16 36 01.5	Z	0.5	1.6 (0)	68.0	4.11
8	MN	eP	16 36 10.5	Z	0.7	4.4 (0)	69.0	4.40
8	TF	e	16 36 40	Z	0.8	5.4 (0)		
8	TF	eP e	16 36 15.8 16 36 45	Z Z	0.7 0.7	2.1 (0) 4.2 (0)	70.0	4.09
8	FM	eP	16 36 28.3	Z	0.7	9.8 (0)	72.0	4.75
8	CP	eP	16 36 38.5	Z	0.7	2.9 (0)	74.0	4.32
8	NG	eP	16 37 07.9	Z	0.6	7.3 (0)	79.0	4.69
8	LC	eP	16 37 14.1	Z	0.7	3.6 (0)	80.0 AVG.	4.21 4.36
8	LC	eP	17 47 49.0	Z	0.3	1.5 (0)	3.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	17 47 54 17 48 26	Z T	0.5 0.5	5.2 (0) 11.0 (0)		
8	18 10	01.2	17.8 S 177.3 W H =451 KM				FIJI ISLANDS	
8	CP	eP	18 21 11.5	Z	0.7	2.9 (0)	78.0	3.95
8	MN	eP	18 21 21.5	Z	0.8	3.2 (0)	80.0	3.96
8	WI	eP	18 21 31.7	Z	0.8	2.7 (0)	82.0	3.93
							AVG.	3.95
8	NG	eP	18 29 47.2	Z	0.7	8.8 (0)		
8	NG	eP	19 03 56.6	Z	0.5	6.4 (0)		
8	DH	eP	19 23 19.4	Z	0.6	16.7 (0)		
8	TF	eP	19 31 09.2	Z	0.3	27.5 (0)	2.1	
8	CP	eP	19 31 34.6	Z	0.6	7.2 (0)	3.9	
8	TF	eS	19 31 37	T	0.4	34.0 (0)	2.1	
8	CP	eS	19 32 23	R	0.5	9.8 (0)	3.9	
8	MV	eP	19 32 45.8	Z	0.5	5.3 (0)		
8	19 38	30.2	33.6 N 072.3 E H =049 KM				WEST PAKISTAN	
8	WI	eP	19 54 28.0	Z	1.0	6.6 (0)		
8	DH	eP	20 04 35.7	Z	0.5	29.0 (0)	1.8	
		eS	20 05 00	R	0.5	53.0 (0)		
8	CP	eP	21 56 24.7	Z	0.3	5.5 (0)	1.6	
		eS	21 56 47	R	0.5	9.8 (0)		
8	CP	eP	23 12 53.5	Z	0.2	1.8 (0)	1.5	
		eS	23 13 12	R	0.4	5.3 (0)		
8	FM	eP	23 52 17.8	Z	0.6	16.4 (0)		
8	23 54	01.7	35.9 N 024.4 E H =093 KM				SEA OF CRETE	
9	MN	eP	01 03 59.3	Z	0.8	2.1 (0)		
9	CP	eP	01 12 22.0	Z	0.3	1.9 (0)	1.5	
		eS	01 12 41	R	0.3	7.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	TF	eP	02 46 40.5	Z	1.0	8.9 (0)		
9	CP	eP	02 46 45.8	Z	1.1	7.5 (0)		
9	MN	eP	02 46 58.0	Z	1.0	10.0 (0)		
9	LC	eP	02 47 25.2	Z	1.0	9.4 (0)		
9	MN	eP	08 35 52.0	Z	0.8	2.1 (0)		
9	11 19	01.6	46.1 N 152.9 E H =056 KM				KURILE ISLANDS	
9	WI	eP	11 29 17.5	Z	0.7	4.3 (0)	62.0	4.57
		e	11 30 07	Z	1.3	8.9 (0)		
9	MN	eP	11 29 26.8	Z	1.0	6.8 (0)	63.0	4.62
		e	11 29 39	Z	1.2	22.0 (0)		
9	TF	eP	11 29 39.4	Z	0.8	2.8 (0)	65.0	4.38
9	FM	eP	11 29 47.2	Z	0.6	4.1 (0)	66.0	4.67
9	CP	eP	11 29 58.1	Z	1.0	5.8 (0)	68.0	4.54
9	NG	eP	11 30 33.6	Z	1.0	8.5 (0)	74.0	4.62
9	LC	eP	11 30 35.2	Z	0.8	3.0 (0)	74.0	4.26
9	DH	eP	11 31 20.5	Z	1.0	20.0 (0)	83.0	5.13
							AVE.	4.60
9	LC	eP	11 23 21.0	Z	0.8	1.5 (0)		
9	MN	eP	11 34 10.0	Z	0.8	2.1 (0)		
9	MN	e	11 34 22	Z	0.8	3.2 (0)		
9	TF	eP	11 41 05.4	Z	1.0	8.9 (0)		
9	CP	eP	11 41 10.8	Z	1.0	12.0 (0)		
9	LC	eP	11 41 50.6	Z	0.9	9.6 (0)		
9	MN	eP	11 41 23.1	Z	0.8	7.5 (0)		
9	WI	eP	11 41 35.5	Z	1.2	10.0 (0)		
9	12 12	33.5	36.6 N 068.3 E H =096 KM				HINDU KUSH	
9	MN	eP	12 27 32.8	Z	0.9	5.5 (0)		
9	LC	eP	12 28 41.5	Z	1.3	4.9 (0)		
9	MN	eP	14 10 27.8	Z	0.3	7.8 (0)		
9	MN	eS	14 10 34	T	0.4	18.0 (0)		
9	LC	eP	15 50 34.0	Z	0.3	7.7 (0)		
9	LC	eS	15 50 42	T	0.5	9.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	DH	eP	16 23 30.0	Z	0.3	6.4 (0)	1.7	
		eS	16 23 53	T	0.4	34.0 (0)		
9	LC	eP	16 39 57.0	Z	0.3	1.5 (0)	2.9	
		eS	16 40 34	T	0.4	5.0 (0)		
9	18 20 06.0		30.2 N 130.3 E H =026 KM				RYUKYU ISLANDS	
9	WI	eP	18 32 43.5	Z	1.0	4.3 (0)	86.0	4.48
9	CP	eP	18 42 50.8	Z	0.2	6.9 (0)	1.5	
		eS	18 43 09	R	0.3	11.0 (0)		
9	TF	eP	18 59 45.6	Z	0.4	5.9 (0)	1.5	
9	MN	eP	19 00 03.7	Z	0.3	5.0 (0)	2.5	
9	TF	eS	19 00 06	R	0.5	15.0 (0)	1.5	
9	MN	eS	19 00 36	R	0.4	6.5 (0)	2.5	
9	WI	eP	19 15 51.5	Z	0.3	1.4 (0)	2.0	
		e	19 15 54	Z	0.3	6.9 (0)		
		eS	19 16 18	R	0.4	7.1 (0)		
9	WI	eP	23 22 23.5	Z	0.3	2.1 (0)	2.8	
		eS	23 22 59	R	0.5	7.1 (0)		
10	00 03 40.2		62.0 N 150.1 W H =072 KM				ALASKA MAG 6.00-	BRK
10	WI	iP	00 09 30.7D	Z	1.2	94.5 (0)	28.0	5.36
		epP	00 09 52	Z	1.3	20.0 (1)		
		esP	00 10 03	Z	1.1	10.8 (1)		
10	FM	eP	00 10 05.4	Z	1.2	12.8 (1)	33.0	5.66
10	TF	eP	00 10 10.1	Z	1.0	12.0 (1)	33.0	5.75
		epP	00 10 29	Z	1.0	19.0 (1)		
		ePCP	00 12 53	Z	1.0	75.0 (0)		
							AVG.	5.59
10	00 27 17.5		41.8 S 171.6 E H =054 KM				SOUTH ISLAND, NEW ZEALAND	
10	05 12 15.9		52.4 N 170.9 W H =043 KM				FOX IS., ALEUTIAN ISLANDS MAG 6.00-	BRK

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	DH	eL	05 41 14	LZ	35	58.9 (2)	61.0	
10	08 44 25.9		53.0 N 159.8 E H =154 KM				NEAR E. COAST KAMCHATKA	
10	WI	eP	08 53 39.5	Z	1.0	16.8 (0)	55.0	4.82
10	FM	eP	08 54 10.5	Z	0.7	4.0 (0)	59.0	4.40
10	NG	eP	08 54 56.0	Z	0.5	3.1 (0)	66.0	4.38
10	LC	eP	08 55 03.8	Z	0.6	2.9 (0)	67.0	4.27
							AVG.	4.47
10	WI	eP	09 30 31.0	Z	0.8	2.6 (0)		
10	WI	e	09 32 27	Z	0.7	1.1 (0)		
10	WI	e	09 36 22	Z	0.7	1.1 (0)		
10	FM	eP	09 57 00.2	Z	0.5	1.4 (0)		
10	NG	eP	09 57 56.6	Z	0.6	7.2 (0)		
10	LC	eP	09 58 99.8	Z	1.0	2.3 (0)		
10	CP	eP	10 02 57.8	Z	0.3	1.9 (0)	2.8	
		eS	10 03 33	T	0.4	6.5 (0)		
10	WI	eP	10 49 19.4	Z	1.3	8.7 (0)		
10	DH	eL	10 55 20	LZ	28	15.7 (1)		
10	LC	eL	11 11 33	LZ	26	18.8 (1)		
10	SJ	eL	11 12 23	LT	30	47.6 (1)		
10	11 14 25.0		49.2 N 028.5 W H =025 KM				NORTH ATLANTIC OCEAN	
10	LC	eP	11 24 24.1	Z	1.0	2.3 (0)	59.0	4.16
		eL	11 46 48	LZ	26	18.8 (1)		
		eL	11 49 30	LT	18	36.4 (1)		
		eL	11 49 30	LR	21	28.8 (1)		
		eL	11 49 30	LZ	19	49.5 (1)		
10	WI	eP	11 24 29.9	Z	1.3	17.5 (0)	60.0	4.96
10	DH	eL	11 30 00	LZ	33	19.7 (1)	32.0	
		eL	11 33 32	LR	21	40.5 (1)		
		eL	11 33 32	LT	20	10.1 (1)		
		eL	11 33 32	LZ	21	43.1 (1)		
10	NG	eL	11 35 12	LZ	24	40.1 (1)	40.0	
		eL	11 36 45	LR	18	39.4 (1)		
		eL	11 36 45	LT	15	15.8 (1)		
		eL	11 36 45	LZ	19	43.5 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	SJ	eL eL	11 47 00 11 48 55	LT LT	30 19	59.6 (1) 76.9 (1)	57.0	4.56
						AVG.		
10	CP	eP eS	13 12 01.3 13 12 15	Z T	0.3 0.3	4.7 (0) 11.9 (0)	1.0	
10	MN	eL	13 23 43	LZ	29	22.8 (1)		
10	14 17 30.0		49.2 N 028.6 W H =025 KM					
10	WI	eP	14 27 33.7	Z	1.0	6.3 (0)	60.0	4.63
10	LC	eL	14 50 10	LZ	18	43.0 (1)	59.0	4.63
						AVG.		
10	WI	eP	14 20 52.5	Z	1.0	4.2 (0)		
10	LC	e	17 58 32	LR	28	47.2 (1)		
10	SJ	eL	17 59 31	LT	35	12.5 (2)		
10	MN	e	18 01 15	LR	25	40.2 (1)		
10	WI	e	18 01 33	LR	23	40.2 (1)		
10	LC	eL	18 03 05	LR	37	62.4 (1)		
10	NG	e	18 03 40	LR	27	35.5 (1)		
10	CP	eL	18 06 35	LZ	30	95.0 (1)		
10	MN	eL	18 09 15	LZ	38	13.9 (2)		
10	WI	eL	18 10 15	LZ	35	11.6 (2)		
10	18 30 58.1		42.1 N 019.2 E H =025 KM					
10	LC	eP eS	19 56 57.6 19 57 16	Z R	0.2 0.3	10.9 (0) 22.3 (0)	1.5	
10	NG	eP	20 04 31.5	Z	0.5	6.2 (0)		
10	NG	e	20 04 35	Z	1.0	11.9 (1)		
10	NG	eP	21 41 00.6	Z	0.9	13.8 (0)		
10	CP	eP eS	22 07 51.5 22 08 02	Z T	0.3 0.3	3.7 (0) 9.1 (0)	0.8	
10	CP	eP eS	22 25 33.4 22 25 36	Z T	0.2 0.3	9.1 (0) 19.2 (0)	0.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	CP	eP eS	23 12 59.9 23 13 27	Z R	0.3 0.4	3.7 (0) 5.2 (0)	2.1	
11	01 05 31.6		44.4 N 011.1 E H =025 KM					ITALY
11	04 52 43.4		06.4 S 143.6 E H =037 KM					NEW GUINEA
11	07 05 52.5		06.6 S 147.7 E H =042 KM					NEAR COAST OF NEW GUINEA
11	12 06 42.1		14.3 S 170.4 E H =623 KM					NEW HEBRIDES IS. REGION
11	13 35 31.3		28.5 S 177.6 W H =115 KM					KERMADEC ISLANDS
11	14 11 51.9		17.0 N 099.7 W H =025 KM					NEAR COAST OF MEXICO MAG 7.00- PAS
11	16 11 33.2		16.5 N 098.6 W H =025 KM					NEAR COAST OF MEXICO
11	20 01 06.9		27.5 S 013.7 W H =025 KM					SOUTH ATLANTIC OCEAN
12	10 16 53.4		17.2 N 099.1 W H =025 KM					NEAR COAST OF MEXICO
12	17 36 50.4		36.5 N 070.6 E H =193 KM					HINDU KUSH
12	18 44 30.3		26.5 S 013.6 W H =025 KM					SOUTH ATLANTIC OCEAN
12	20 35 45.1		17.7 S 178.2 W H =600 KM					FIJI ISLANDS

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	22 03	40.7	18.0 S 178.0 W FIJI ISLANDS H =603 KM					
13	LC	eP	00 35 55.3	Z	0.9	10.0 (0)		
13	LC	e	00 36 28	Z	0.9	5.0 (0)		
13	TF	eP	01 18 12.0	Z	0.2	20.0 (0)	1.0	
		eS	01 18 25	T	0.3	25.0 (0)		
13	LC	eP	01 24 38.4	Z	1.0	33.0 (0)		
13	MN	eP	01 26 26.2	Z	0.8	2.5 (0)		
13	WI	eP	02 40 56.1	Z	0.7	2.2 (0)		
13	MN	eP	02 41 06.7	Z	0.8	2.5 (0)		
13	LC	eP	02 41 07.0	Z	0.8	1.9 (0)		
13	WI	e	02 41 18	Z	0.7	2.2 (0)		
13	09 12	34.3	06.9 N 073.0 W COLUMBIA H =183 KM					
13	SJ	eP	09 18 44.5	Z	0.6	16.0 (0)	32.0	4.85
		eS	09 23 41	T	1.3	76.0 (0)		
		eS	09 23 41	R	1.2	60.0 (0)		
13	DH	eP	09 19 16.7	Z	0.6	50.0 (0)	36.0	5.37
		eSCP	09 25 13	Z	0.6	8.2 (0)		
13	LC	eP	09 19 58.5	Z	0.8	11.0 (1)	41.0	5.49
		e	09 25 33	Z	1.0	12.0 (0)		
		eSCP	09 25 41	Z	0.9	43.5 (0)		
		eS	09 25 54	T	2.5	83.0 (0)		
		eS	09 25 54	R	2.0	33.0 (0)		
13	NG	eP	09 20 02.5	Z	0.5	62.0 (0)	41.0	5.44
		eS	09 26 02	R	1.0	33.0 (0)		
13	FM	eP	09 20 58.0	Z	0.7	30.0 (0)	48.0	4.90
13	CP	eP	09 21 06.3	Z	0.8	5.3 (0)	49.0	4.11
13	MN	eP	09 21 25.5	Z	0.7	10.0 (0)	52.0	4.55
		eSCP	09 26 08	Z	1.1	4.7 (0)		
13	TF	eP	09 21 28.3	Z	0.9	24.0 (0)	52.0	4.81
13	WI	eP	09 21 31.2	Z	0.9	37.0 (0)	52.0	5.00
		epP	09 22 05	Z	0.9	11.0 (0)		
		ePCP	09 22 40	Z	0.9	7.1 (0)		
13	MV	eP	09 21 44.0	Z	0.5	4.0 (0)	54.0	4.37
							AVG.	4.89
13	10 46	23.5	03.2 S 129.0 E CERAM H =041 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	MN	eP	11 00 20.5	Z	0.5	19.0 (0)	1.2	
13	MV	eP	11 00 25.0	Z	0.3	4.8 (0)	1.5	
13	MN	eS	11 00 36	T	0.5	20.0 (0)	1.2	
13	MV	eS	11 00 44	T	0.5	30.0 (0)	1.5	
13	WI	eP	11 00 51.0	Z	0.5	0.8 (0)	3.9	
		e	11 01 00	Z	0.5	1.6 (0)		
		eS	11 01 39	R	0.5	5.1 (0)		
13	MN	eP	11 06 51.7	Z	0.3	7.7 (0)	1.2	
13	MV	eP	11 06 56.2	Z	0.3	6.0 (0)	1.5	
13	MN	eS	11 07 07	T	0.4	9.2 (0)	1.2	
13	MV	eS	11 07 15	T	0.3	5.9 (0)	1.5	
13	MN	eP	11 08 17.4	Z	0.3	2.4 (0)	1.4	
		eS	11 08 35	T	0.5	6.3 (0)		
13	MN	eP	11 21 48.0	Z	1.0	3.6 (0)		
13	WI	eP	11 22 08.9	Z	0.8	1.4 (0)		
13	WI	eP	11 45 19.8	Z	0.9	3.5 (0)		
13	MN	eP	12 53 00.3	Z	0.9	4.4 (0)		
13	CP	eP	12 53 26.3	Z	0.8	3.5 (0)		
13	WI	eP	14 23 56.6	Z	1.0	2.2 (0)		
13	SJ	eP	15 03 15.1	Z	1.0	39.0 (0)		
13	MN	eP	16 20 41.0	Z	0.2	18.0 (0)	0.1	
		eS	16 20 43	T	0.3	17.0 (0)		
13	MN	eP	16 23 30.6	Z	1.0	5.5 (0)		
13	WI	eP	16 23 56.0	Z	1.1	2.8 (0)		
13	CP	eP	17 28 39.6	Z	0.2	9.0 (0)	1.1	
		eS	17 28 54	T	0.3	18.0 (0)		
13	CP	eP	17 52 18.3	Z	0.2	3.4 (0)	0.9	
		eS	17 52 30	R	0.3	9.6 (0)		
13	18 48	55.3	39.0 N 140.8 E NORTHERN HONSHU, JAPAN H =031 KM					
13	WI	eP	19 00 24.6	Z	0.7	2.2 (0)	73.0	4.31
13	MN	eP	19 00 31.0	Z	1.1	4.8 (0)	74.0	4.44
13	LC	eP	19 01 32.0	Z	1.0	6.0 (0)	85.0	4.69
							AVG.	4.48
13	MV	eP	19 27 32.0	Z	0.3	7.2 (0)	2.8	
		eS	19 28 07	R	0.4	5.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	LC	eP	21 01 21.7	Z	0.6	1.3 (0)		
13	FM	eP	22 42 38.0	Z	0.4	6.5 (0)		
13	CP	eP	23 49 05.5	Z	0.2	6.7 (0)	1.1	
13	CP	eS	23 49 20	R	0.3	16.0 (0)	1.1	
14	01 25 15.0		18.4 S 168.3 E H =058 KM				NEW HEBRIDES ISLANDS	
14	MV	eP	01 37 56.6	Z	0.8	4.7 (0)	89.0	4.71
14	MN	eP	01 38 05.8	Z	0.8	1.5 (0)	90.0	4.22
14	WI	eP	01 38 14.8	Z	0.8	2.0 (0)	92.0	4.50
						AVG.		4.48
14	WI	eP	03 55 55.5	Z	0.6	0.9 (0)		
14	LC	eP	04 13 14.3	Z	0.5	1.7 (0)		
14	10 33 25.5		09.0 S 118.7 E H =030 KM				SOEMBAWA	
14	LC	eP	10 52 42.1	Z	1.0	2.4 (0)	132.0	
		eSKP	10 56 00	Z	1.0	4.7 (0)		
14	DH	eP	10 53 01.8	Z	1.0	40.0 (0)	144.0	
14	11 07 11.2		33.8 N 141.1 E H =157 KM				OFF COAST HONSHU, JAPAN	
14	MV	eL	11 38 38	LT	21	24.0 (1)	74.0	
		eLR	11 40 55	LZ	25	53.0 (0)		
		eL	11 47 00	LZ	20	24.0 (1)		
		eL	11 47 00	LR	20	29.0 (1)		
		eL	11 47 00	LT	18	31.0 (0)		
14	MN	eLR	11 43 06	LZ	25	81.0 (0)	76.0	
		eL	11 48 40	LZ	20	27.0 (1)		
		eL	11 48 40	LR	20	26.0 (1)		
14	FM	eLR	11 48 23	LZ	19	17.0 (1)	81.0	
		eL	11 49 40	LZ	18	18.0 (1)		
		eL	11 49 40	LR	18	11.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	LC	eL	11 49 40	LT	23	92.0 (0)		
		eLR	11 53 28	LZ	20	94.0 (0)	88.0	
		eL	11 56 00	LZ	20	19.0 (1)		
		eL	11 56 00	LR	20	13.0 (1)		
		eL	11 56 00	LT	18	61.0 (0)		
14	FM	eP	11 22 23.2	Z	0.6	29.0 (1)	1.6	
		eS	11 22 46	T	0.6	58.0 (1)		
14	WI	eP	13 43 42.5	Z	0.5	2.4 (0)	5.4	
		eS	13 44 47	T	0.5	3.2 (0)		
14	13 57 49.4		46.3 N 149.8 E H =126 KM				KURILE ISLANDS	
14	WI	eP	14 08 07.4	Z	0.5	0.8 (0)	64.0	3.85
14	MN	eP	14 08 16.7	Z	0.7	0.8 (0)	65.0	3.70
						AVG.		3.78
14	WI	eP	15 17 07.6	Z	0.8	2.0 (0)		
14	DH	eP	15 32 10.8	Z	0.4	6.5 (0)	1.5	
		eS	15 32 30	R	0.3	32.0 (0)		
14	15 19 11.0		36.9 N 139.8 E H =080 KM				NORTHERN HONSHU, JAPAN	
14	16 53 06.2		49.0 N 028.8 W H =025 KM				NORTH ATLANTIC OCEAN	
14	DH	eP	16 59 39.0	Z	1.2	16.0 (0)	33.0	4.80
		ePCP	17 02 22	Z	0.5	15.0 (0)		
14	SJ	eP	17 02 50.0	Z	0.8	25.0 (0)	57.0	4.37
14	LC	eP	17 03 05.2	Z	1.0	5.9 (0)	59.0	4.57
14	WI	eP	17 03 10.0	Z	1.2	25.0 (0)	59.0	5.12
14	MN	eP	17 03 26.2	Z	1.0	3.3 (0)	62.0	4.47
						AVG.		4.67
14	MN	eP	17 14 15.7	Z	0.6	2.1 (0)	2.4	
		eS	17 14 47	R	0.4	1.8 (0)		
14	LC	eP	18 10 18.2	Z	0.3	5.8 (0)	1.5	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	18 10 38	T	0.4	5.0 (0)		
14	WI	eP	21 05 14.1	Z	0.5	4.8 (0)	0.1	
		eS	21 05 18	T	0.6	9.4 (0)		
14	21 06 52.7		33.5 N 140.6 E				SOUTH OF HONSHU, JAPAN	
			H =082 KM					
14	MN	eP	21 19 37.5	Z	0.3	2.4 (0)	1.4	
		e	21 19 38.7	Z	0.3	5.3 (0)		
		eS	21 19 55	T	0.3	3.6 (0)		
14	WI	eP	21 34 20.6	Z	0.3	1.4 (0)	2.8	
		eS	21 34 56	R	0.5	3.7 (0)		
14	MN	eP	21 37 06.1	Z	0.3	1.9 (0)	0.8	
		eS	21 37 18	T	0.4	6.8 (0)		
14	22 07 39.3		51.5 N 176.2 W				ANDREANOF-ALEUTIAN ISLANDS	
			H =025 KM					
14	23 23 08.6		14.0 S 178.2 W				FIJI ISLANDS REGION	
			H =065 KM					
14	WI	eP	23 35 04.6	Z	1.0	3.3 (0)	79.0	4.18
		eLR	23 58 52	LZ	29	20.0 (1)		
		eL	23 59 44	LZ	32	44.0 (1)		
		eL	23 59 44	LR	30	12.0 (1)		
		eL	23 59 44	LT	32	35.0 (1)		
14	LC	eP	23 35 25.1	Z	1.0	12.0 (0)	83.0	4.88
		eLR	23 59 50	LZ	25	94.0 (0)		
15	LC	eL	00 04 20	LZ	21	38.0 (1)	83.0	
		eL	00 04 20	LR	20	16.0 (1)		
		eL	00 04 20	LT	18	18.0 (1)		
14	MN	eLR	23 57 48	LZ	25	81.0 (0)	78.0	
		eL	23 58 40	LZ	32	32.0 (1)		
		eL	23 58 40	LR	25	58.0 (0)		
							AVG.	4.53

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	MN	eP	02 22 07.4	Z	0.5	0.3 (0)	2.3	
		e	02 22 13	Z	0.5	1.1 (0)		
		eS	02 22 37	T	0.5	8.1 (0)		
15	TF	eP	03 17 35.3	Z	0.3	15.0 (0)	1.0	
		eS	03 17 49	T	0.4	19.0 (0)		
15	03 34 35.3		36.4 N 141.6 E				NEAR COAST HONSHU, JAPAN	
			H =077 KM					
15	CP	eP	04 04 52.0	Z	0.3	69.0 (0)	1.4	
		eS	04 05 03	R	999.9	99.9 (9)		
15	NG	eP	04 56 11.1	Z	0.3	12.0 (0)	1.6	
		eS	04 56 32	Z	0.5	40.0 (0)		
15	05 23 45.9		07.3 S 128.3 E				BANDA SEA	
			H =034 KM				MAG 7.00-7.25 PAS	
15	MV	ePD	05 38 20	LZ	20	26.0 (2)	110.0	
		ePD	05 38 25.6	Z	1.5	23.0 (0)		6.25
		eP	05 42 17.5	Z	1.1	29.0 (0)		
		ePP	05 43 01	LZ	24	3.0 (0)		
		eSKS	05 49 00	R	1.5	23.0 (0)		
		eSKS	05 49 03	LR	25	59.0 (2)		
		ePKKP	05 53 33	Z	1.1	9.1 (0)		
15	TF	ePD	05 38 27.8	Z	0.8	5.7 (0)	112.0	
		eP	05 42 18.3	Z	1.2	43.0 (0)		
		ePKKP	05 53 29	Z	1.3	27.0 (0)		
15	MN	iPD	05 38 30 C	LZ	20	26.0 (1)	112.0	
		ePD	05 38 32.4	Z	1.5	17.0 (0)		
		eP	05 42 24.3	Z	1.4	69.0 (0)		
		ePP	05 43 08	Z	4.0			
		ePP	05 43 14	LZ	23	99.9 (9)		
		eSKS	05 49 08	R	4.0			
		eSKS	05 49 13	LR	24	70.0 (2)		
		e	05 52 49	R	8.0			
		ePKKP	05 53 15	Z	1.0	13.0 (0)		
15	WI	ePD	05 38 31.6	Z	1.1	5.7 (0)	113.0	
		iPD	05 38 32 C	LZ	17	35.0 (2)		
		eP	05 42 23.5	Z	1.1	18.0 (0)		
		ePP	05 43 13	LZ	21	99.9 (9)		
		ePPP	05 45 41	LZ	17	88.0 (2)		
		eSKS	05 49 10	LT	25	63.0 (2)		
		e	05 51 05	LR	23	84.0 (2)		
		ePKKP	05 53 14	Z	1.0	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	CP	e	05 57 25	Z	1.4	22.0 (0)		
		eLR	06 14 43	LZ	33	99.9 (9)		
		ePD	05 38 44	LZ	20	19.0 (2)	115.0	
		eP _i	05 42 28.3	Z	1.3	42.0 (0)		
		ePP	05 43 28	Z	2.0	18.0 (1)		
		ePP	05 43 32	LZ	20	80.0 (2)		
		e	05 45 04	Z	3.0	48.0 (1)		
		eSKS	05 49 10	LT	23	65.0 (2)		
		ePS	05 53 21	LT	999.9	99.9 (9)		
		e	05 58 33	LT	23	99.9 (9)		
		ePKKS	05 57 01	LT	28	15.0 (3)		
		eLQ	06 11 18	LR	25	30.0 (3)		
		eLR	06 15 46	LZ	29	31.0 (3)		
		ePD	05 38 53	LZ	20	16.0 (2)	116.0	
		15	FM	eP _i	05 42 32.0	Z	1.1	52.0 (0)
ePP	05 43 40			LZ	20	76.0 (2)		
e	05 49 38			LT	22	48.0 (2)		
ePKKP	05 52 58			Z	1.0	10.0 (0)		
ePS	05 53 12			LT	999.9	99.9 (9)		
e	05 40 02			LZ	23	13.0 (2)		
e	05 41 08			LZ	25	14.0 (2)		
eLR	06 18 55			LZ	27	99.9 (9)		
ePD	05 39 22			LZ	20	14.0 (2)	123.0	
ePD	05 39 30.4			Z	1.0	2.4 (0)		
eP _i	05 42 42.1			Z	1.2	51.0 (0)		
ePP	05 44 28			LZ	22	91.0 (2)		
eSKKS	05 51 33			LR	25	62.0 (2)		
ePKKP	05 52 34			Z	1.0	24.0 (0)		
15	NG			e	05 53 14	LZ	21	85.0 (2)
		ePS	05 54 24	LT	999.9	99.9 (9)		
		e	05 56 12	Z	1.6	46.0 (0)		
		eLR	06 20 00	LZ	30	99.9 (9)		
		ePD	05 39 51	LZ	20	12.0 (2)	131.0	
		eP _i	05 42 54.7	Z	1.4	92.0 (0)		
		e	05 42 58	LZ	19	34.0 (2)		
		ePP	05 45 13	LZ	20	14.0 (3)		
		ePKS	05 46 19	T	1.7	22.0 (0)		
		e	05 55 04	Z	1.1	23.0 (0)		
		e	05 55 16	LZ	28	19.0 (3)		
		e	05 59 23	Z	5.0			
		e	06 03 10	LR	24	99.9 (9)		
		eLR	06 28 04	LZ	30	14.0 (3)		
		15	SJ	ePD	05 39 59	LZ	17	13.0 (2)
eP _i	05 42 57.5			Z	1.1	12.0 (1)		
e	05 43 02			LZ	14	99.9 (9)		
ePP	05 45 20			LZ	22	99.9 (9)		
eSKP	05 46 23			Z	1.0	95.0 (0)		
e	05 55 25			LR	22	99.9 (9)		
eLR	06 25 34			LZ	35	41.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	DH	ePD	05 40 30	LZ	20	49.0 (1)	139.0	
		eP _i	05 43 04.5	Z	1.0	38.0 (0)		
		e	05 43 03	LZ	15	78.0 (2)		
		e	05 44 05	LZ	19	49.0 (2)		
		ePP	05 46 08	LZ	25	11.0 (3)		
		eSKP	05 46 48	Z	1.5	13.0 (1)		
		e	05 54 55	Z	1.6	74.0 (0)		
		ePS	05 56 18	LR	27	99.0 (2)		
		ePPS	05 58 30	LR	24	99.9 (9)		
		e	05 59 38	LR	999.9	99.9 (9)		
							AVG.	6.25
15	MV	eP	06 30 40.0	Z	0.6	71.0 (2)		
15	WI	eP	06 30 51.3	Z	0.6	2.8 (0)		
15	MN	eP	06 30 53.4	Z	0.6	2.9 (0)		
15	06 42 58.9	07.2 S 128.3 E BANDA SEA			H =052 KM			
15	WI	eP _i	07 01 35.6	Z	1.1	5.7 (0)	113.0	
		ePKKP	07 12 24	Z	1.0	2.2 (0)		
15	LC	eP _i	07 01 56.0	Z	1.6	27.0 (0)	123.0	
		ePKKP	07 11 47	Z	1.0	2.4 (0)		
15	NG	eP _i	07 02 14.4	Z	1.5	9.0 (0)	130.0	
		eSKP	07 05 32	Z	1.0	14.0 (0)		
15	DH	eP _i	07 02 14.6	Z	1.0	9.6 (0)	139.0	
		eSKP	07 06 11	Z	0.8	12.0 (0)		
15	LC	eP	07 28 05.3	Z	0.5	0.9 (0)		
15	07 31 13.5	08.2 S 129.2 E ARAFURA SEA			H =057 KM			
15	08 40 21.2	35.1 S 073.1 W NEAR COAST OF CHILE			H =025 KM			
15	LC	eP	08 52 02.0	Z	0.9	1.9 (0)	75.0	5.08
15	WI	eP	08 44 50.8	Z	1.0	2.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	CP	eP eS	09 39 11.7 09 39 21	Z Z	0.3 0.4	8.2 (0) 39.0 (0)	0.7	
15	09 55	16.5	07.2 S 128.2 E H =030 KM	BANDA SEA				
15	MN	eP	10 13 52.5	Z	1.0	1.7 (0)	112.0	
15	WI	eP	10 13 53.5	Z	0.8	1.4 (0)	113.0	
15	LC	eP	10 14 14.1	Z	1.2	11.0 (0)	123.0	
		ePKKP	10 24 02.9	Z	0.9	1.9 (0)		
15	12 52	19.1	44.9 N 148.2 E H =036 KM	KURILE ISLANDS				
15	MN	eP	13 03 08.6	Z	1.0	3.0 (0)	67.0	4.36
15	NG	eP	13 04 10.8	Z	0.6	3.8 (0)	77.0	3.59
15	LC	eP	13 04 14.8	Z	0.6	1.0 (0)	78.0	4.02
						AVG.		3.99
15	12 55	36.6	07.8 S 127.9 E H =035 KM	BANDA SEA				
15	13 22	49.2	07.3 S 128.4 E H =035 KM	BANDA SEA				
15	MN	eP	14 03 44.4	Z	0.3	2.3 (0)	1.3	
		eS	14 04 01	R	0.5	4.8 (0)		
15	16 16	19.1	53.2 N 164.7 W H =025 KM	UNIMAK ISLANDS				
15	WI	eP	16 23 09.5	Z	0.9	3.5 (0)	35.0	4.29
15	NG	eP	16 24 56.5	Z	0.6	2.1 (0)	48.0	4.37
15	LC	eP	16 24 57.5	Z	1.0	2.4 (0)	46.0	4.13
						AVG.		4.26
15	16 54	01.9	07.4 S 128.0 E H =034 KM	BANDA SEA				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	MN	eP	17 12 44.5	Z	1.0	1.7 (0)	113.0	
15	LC	eP	17 12 58.5	Z	1.3	10.0 (0)	124.0	
15	WI	eP	16 59 23.3	Z	1.0	4.4 (0)		
15	LC	eP	17 22 48.1	Z	1.0	2.4 (0)		
15	CP	eP	17 22 56.5	Z	0.2	4.0 (0)	0.7	
		eS	17 23 06	R	0.3	13.0 (0)		
15	LC	eP	18 27 52.4	Z	0.3	6.2 (0)	1.5	
		eS	18 28 12	R	0.5	8.8 (0)		
15	19 32	22.5	53.4 N 159.6 E H =030 KM	NEAR E. COAST KAMCHATKA				
15	MV	eP	19 41 43.3	Z	0.8	9.4 (0)	54.0	4.77
15	WI	eP	19 41 49.2	Z	0.9	25.0 (0)	55.0	5.24
		e	19 42 04	Z	1.0	26.0 (0)		
		eL	19 59 10	LZ	24	42.0 (1)		
		eL	20 00 46	LT	23	47.0 (1)		
		eL	20 00 46	LR	24	20.0 (1)		
		eL	20 00 46	LZ	24	21.0 (1)		
15	MN	eP	19 42 01.0	Z	0.9	15.0 (0)	56.0	4.97
		e	19 42 16	Z	1.2	19.0 (0)		
15	FM	eP	19 42 20.3	Z	0.9	32.0 (0)	59.0	5.35
15	CP	eP	19 42 35.8	Z	0.9	6.5 (0)	61.0	4.68
15	NG	eP	19 43 05.0	Z	1.0	54.0 (0)	65.0	5.64
15	LC	eP	19 43 14.0	Z	1.0	14.0 (0)	67.0	5.06
		e	19 43 29	Z	1.0	12.0 (0)		
15	DH	eP	19 43 55.0	Z	0.8	48.0 (0)	74.0	5.52
15	SJ	eP	19 44 04.7	Z	1.0	39.0 (0)	75.0	5.33
						AVG.		5.12
15	CP	eP	19 44 56.3	Z	0.2	3.2 (0)	0.7	
		eS	19 45 06	R	0.3	7.0 (0)		
15	NG	eP	20 17 00.5	Z	0.5	6.6 (0)		
15	NG	e	20 17 04	Z	0.6	16.0 (1)		
15	20 33	29.3	53.5 N 164.0 W H =025 KM	UNIMAK ISLANDS REGIONS				
15	WI	eP	20 40 04.8	Z	1.0	4.4 (0)	33.0	4.32

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eP	20 42 03.1	Z	1.0	2.4 (0)	47.0	4.20
15	NG	eP	20 42 04.5	Z	0.9	7.3 (0)	48.0	4.74
						AVG.		4.42
15	21 31	00.4	07.2 S 128.1 E				BANDA SEA	
			H =038 KM					
15	NG	eP	21 40 58.4	Z	0.4	3.0 (0)		
15	NG	e	21 41 10	Z	1.0	90.0 (0)		
15	TF	eP	21 58 42.0	Z	0.2	5.0 (0)	1.3	
		eS	21 58 58	Z	0.3	14.0 (0)		
15	WI	eP	22 12 16.8	Z	0.9	1.8 (0)		
15	CP	eP	22 20 55.0	Z	0.3	10.0 (0)	0.4	
		eS	22 21 02	R	0.3	10.0 (0)		
15	WI	eP	22 22 21.5	Z	0.3	2.1 (0)	3.4	
15	MN	eP	22 22 15.3	Z	0.3	0.3 (0)	3.2	
		e	22 22 23	Z	0.6	9.3 (0)		
		eS	22 22 55	R	0.6	3.4 (0)		
15	WI	eS	22 23 04	R	0.6	8.4 (0)	3.4	
15	CP	eP	23 03 29.7	Z	0.3	7.2 (0)	1.0	
		eS	23 03 45	T	0.5	32.0 (0)		
15	CP	eP	23 17 36.0	Z	0.3	2.0 (0)	1.4	
		eS	23 17 53	T	0.5	5.2 (0)		
16	WI	eP	03 13 37.2	Z	0.5	0.8 (0)		
16	WI	eL	03 14 54	R	0.9	3.8 (0)		
16	WI	eP	04 16 20.7	Z	0.9	1.8 (0)		
16	WI	eP	05 11 13.5	Z	0.7	2.2 (0)		
16	05 16	46.0	13.6 S 167.3 E				NEW HEBRIDES ISLANDS	
			H =052 KM					
16	TF	eP	05 29 13.0	Z	1.5	53.0 (0)	85.0	5.39
16	MV	eP	05 29 14.7	Z	1.4	74.0 (0)	85.0	5.56
		eLR	05 55 25	LZ	26	91.0 (1)		
16	CP	eP	05 29 23.0	Z	1.3	42.0 (0)	87.0	5.41
		eLR	05 55 46	LZ	24	63.0 (1)		
		eL	06 02 20	LZ	19	11.0 (2)		
		eL	06 02 20	LR	20	48.0 (1)		
		eL	06 02 20	LT	19	99.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	MN	eP	05 29 24.9	Z	1.4	59.0 (0)	87.0	5.46
		eLR	05 55 55	LZ	25	15.0 (2)		
		eL	05 58 05	LZ	25	15.0 (2)		
		eL	05 58 05	LR	25	58.0 (0)		
		eL	05 58 05	LT	25	10.0 (2)		
16	WI	eP	05 29 32.1	Z	1.5	69.0 (0)	88.0	5.60
		eLR	05 56 21	LZ	32	83.0 (1)		
		eL	06 00 55	LZ	20	10.0 (2)		
		eL	06 00 55	LR	23	28.0 (1)		
		eL	05 00 55	LT	19	10.0 (2)		
16	LC	eP	05 30 00.6	Z			94.0	
		eLR	05 59 38	LZ	30	44.0 (1)		
		eL	06 00 40	LZ	27	50.0 (1)		
		eL	06 00 40	LR	26	22.0 (1)		
		eL	06 00 40	LT	26	32.0 (1)		
16	FM	eLR	05 58 10	LZ	29	68.0 (1)	91.0	
		eL	06 01 48	LZ	22	80.0 (1)		
		eL	06 01 48	LR	23	67.0 (1)		
		eL	06 01 48	LT	23	27.0 (1)		
16	DH	eLR	06 13 45	LZ	32	71.0 (1)	119.0	
		eL	06 17 05	LZ	27	10.0 (2)		
		eL	06 17 05	LR	26	76.0 (1)		
		eL	06 17 05	LT	25	21.0 (1)		
						AVG.		5.48
16	CP	eP	06 22 13.6	Z	0.5	21.0 (0)	3.0	
		eS	06 22 51	T	0.6	48.0 (0)		
16	LC	eP	06 22 59.3	Z	0.6	1.0 (0)		
16	MV	eP	06 24 22.7	Z	0.8	4.5 (0)		
16	MN	eP	06 24 29.4	Z	0.6	1.5 (0)		
16	WI	eP	06 24 39.7	Z	1.0	6.6 (0)		
16	LC	eL	06 24 57	T	0.7	2.5 (0)		
16	TF	eP	06 34 02.8	Z	0.2	24.0 (0)	1.6	
		eS	06 34 24	T	0.3	28.0 (0)		
16	LC	eP	07 33 56.6	Z	1.0	2.3 (0)		
16	MN	eP	07 35 36.5	Z	0.7	0.8 (0)		
16	WI	eP	07 35 49.6	Z	0.8	2.8 (0)		
16	08 18	30.7	00.9 S 127.0 E				SPICE ISLANDS	
			H =034 KM					
16	CP	eP	08 40 57.0	Z	0.3	45.0 (0)		
16	TF	eP	08 41 23.8	Z	0.3	4.1 (0)	3.9	
		eS	08 42 12	T	0.4	24.0 (0)		
16	LC	eP	08 42 35.3	Z	0.4	0.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	LC	eL	08 44 54	T	0.6	1.0 (0)		
16	CP	eP	09 10 47.0	Z	0.4	2.8 (0)	2.4	
		eS	09 11 18	T	0.4	15.0 (0)		
16	14 35 29.6		07.3 S 128.1 E H =034 KM				BANDA SEA	
16	LC	eP	14 54 26.1	Z	1.1	3.1 (0)	123.0	
		ePKKP	15 04 15	Z	1.0	2.4 (0)		
16	17 33 05.5		13.4 S 167.3 E H =035 KM				NEW HEBRIDES ISLANDS	
16	TF	eP	17 45 33.7	Z	1.5	92.0 (0)	84.0	5.68
16	MV	eP	17 45 35.6	Z	1.4	12.0 (1)	84.0	5.82
16	CP	eLR	18 11 25	LZ	28	15.0 (0)		
		eP	17 45 44.8	Z	1.5	12.0 (1)	86.0	5.73
		eLR	18 11 59	LZ	25	15.0 (2)		
		eL	18 13 03	LT	20	18.0 (2)		
		eL	18 13 03	LZ	19	68.0 (1)		
		eL	18 13 03	LR	19	21.0 (2)		
16	MN	eP	17 45 46.4	Z	1.5	15.0 (1)	87.0	5.89
		ePP	17 49 07	Z	1.5	11.0 (0)		
		eLR	18 12 30	LZ	25	21.0 (2)		
		eL	18 17 40	LZ	20	19.0 (2)		
		eL	18 17 40	LR	20	11.0 (2)		
		eL	18 17 40	LT	20	12.0 (2)		
16	WI	eP	17 45 53.5	Z	1.5	76.0 (0)	88.0	5.69
		ePP	17 49 19	Z	1.7	21.0 (0)		
16	LC	ePP	17 50 13	Z	1.8	26.0 (0)	94.0	
16	FM	eLR	18 14 50	LZ	25	90.0 (1)	91.0	
		eL	18 17 10	LZ	23	12.0 (2)		
		eL	18 17 10	LR	24	12.0 (2)		
		eL	18 17 10	LT	25	91.0 (1)		
16	DH	eLR	18 29 45	LZ	34	95.0 (1)	119.0	5.76
							AVG.	
16	19 09 04.2		09.3 S 118.4 E H =047 KM				SOEMBAWA	
16	CP	eP	21 20 31.2	Z	0.3	21.0 (0)	0.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	LC	eS	21 20 40	T	999.9	52.0 (0)		
		eP	21 31 38.3	Z	0.2	11.0 (0)	1.4	
		eS	21 31 56	T	0.4	4.9 (0)		
16	21 41 35.8		35.6 S 137.7 E H =025 KM				NEAR COAST AUSTRALIA	
16	WI	eP	22 00 33.5	Z	0.9	1.8 (0)	123.0	
16	LC	eP	22 00 43.5	Z	0.7	1.2 (0)	128.0	
16	23 05 21.1		15.1 S 167.6 E H =136 KM				NEW HEBRIDES ISLANDS	
17	DH	eP	01 35 04.2	Z	0.5	3.5 (0)	0.5	
		eS	01 35 12	T	0.4	28.0 (0)		
17	02 19 57.8		41.9 S 171.5 E H =041 KM				S. ISLAND, NEW ZEALAND	
17	NG	eP	02 38 51.4	Z	1.0	8.9 (0)		
17	MN	eP	02 39 18.2	Z	1.0	3.3 (0)		
17	WI	eP	02 39 30.0	Z	0.9	1.8 (0)		
17	LC	eP	02 39 48.0	Z	0.7	2.3 (0)		
17	MN	eP	03 31 05.5	Z	0.7	0.8 (0)		
17	LC	eP	03 32 28.5	Z	0.6	1.0 (0)		
17	WI	eP	03 46 52.0	Z	0.7	1.1 (0)		
17	04 08 18.0		55.1 S 128.8 W H =025 KM				SOUTH PACIFIC OCEAN	
17	LC	eP	04 21 15.5	Z	1.0	2.4 (0)	90.0	4.35
17	TF	eLR	04 50 15	LZ	23	42.0 (1)	90.0	
		eL	04 51 05	LZ	23	34.0 (1)		
		eL	04 51 05	LR	22	40.0 (1)		
		eL	04 51 05	LT	24			
17	MN	eLR	04 52 04	LZ	27	46.0 (1)	94.0	
		eL	04 53 40	LZ	22	33.0 (1)		
		eL	04 53 40	LR	22	19.0 (1)		
		eL	04 53 40	LT	22	30.0 (1)		
17	MV	eLR	04 52 13	LZ	27	38.0 (1)	95.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	FM	eL	04 53 00	LZ	20	24.0 (1)	96.0	4.35
		eL	04 53 00	LT	20	21.0 (1)		
		eLR	04 53 10	LZ	30	35.0 (1)		
		eL	04 54 30	LZ	24	30.0 (1)		
		eL	04 54 30	LR	23	19.0 (1)		
	WI	eL	04 54 30	LT	23	28.0 (1)	97.0	
		eL	04 54 30	LR	28	38.0 (1)		
		eL	04 53 45	LZ	20	44.0 (1)		
		eL	04 56 20	LR	20	35.0 (1)		
		eL	04 56 20	LT	19	22.0 (1)		
AVG.								
17	WI	eP	04 33 19.0	Z	0.6	0.9 (0)		
17	CP	eP	06 27 40.6	Z	0.2	33.0 (0)	0.5	
		eS	06 27 48	T	0.4	31.0 (0)		
17	09 20 04.2		07.2 S 128.0 E H =035 KM				BANDA SEA	
17	LC	eL	11 59 46	R	0.6	3.1 (0)		
17	12 00 29.6		06.2 S 068.3 E H =025 KM				CHAGOS ARCHIPELAGO REGION	
17	WI	eP ¹	12 20 06.5	Z	1.0	22.0 (0)	145.0	
		e	12 23 26	Z	1.0	2.2 (0)		
17	MV	eP ¹	12 20 10.0	Z	1.0	22.0 (0)	146.0	
17	MN	eP ¹	12 20 14.0	Z	1.1	17.0 (0)	147.0	
17	FM	eP ¹	12 20 15.1	Z	1.0	9.8 (0)	147.0	
17	TF	eP ¹	12 20 21.2	Z	1.3	35.0 (0)	150.0	
17	CP	eP ¹	12 20 24.0	Z	1.3	12.0 (0)	153.0	
17	LC	eP ¹	12 20 29.9	Z	1.0	2.4 (0)	154.0	
17	LC	eP	11 58 07.8	Z	0.5	0.8 (0)		
17	LC	eL	12 00 07	LR	13	13.0 (2)		
17	CP	eP	15 12 24.1	Z	0.4	37.0 (0)	1.1	
		eS	15 12 38	T	0.5	56.0 (0)		
17	LC	eP	15 57 31.5	Z	0.5	0.8 (0)		
17	LC	eL	15 59 10	R	0.6	3.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	LC	eL	15 59 31	LR	13	13.0 (2)		
17	MN	eP	15 59 18.5	Z	1.0	1.7 (0)		
17	16 00 37.4		55.8 S 027.0 W H =023 KM				SANDWICH ISLANDS	
17	CP	eP ¹	16 19 20.6	Z	1.0	5.9 (0)	116.0	
17	FM	eP ¹	16 19 26.7	Z	0.7	5.0 (0)	120.0	
17	MN	eP ¹	16 19 31.3	Z	0.9	6.8 (0)	122.0	
17	WI	ePKKP	16 29 34	Z	1.4	8.6 (0)	123.0	
		eP ¹	16 19 34.6	Z	0.8	8.3 (0)		
17		eSKP	16 22 57	Z	1.5	13.0 (0)		
17	MV	eP ¹	16 19 35.6	Z	1.0	19.0 (0)	124.0	
17	LC	ePP	16 19 46	Z	1.0	1.2 (0)	111.0	
		ePKKP	16 30 11	Z	1.0	2.4 (0)		
17	CP	eP	17 52 07.0	Z	0.3	41.0 (0)	0.1	
		eS	17 52 11	R	0.4	29.0 (0)		
17	WI	eP	18 05 08.5	Z	0.5	4.0 (0)	1.4	
		eS	18 05 26	T	0.5	5.7 (0)		
17	DH	eP	19 55 37.7	Z	0.4	13.0 (0)	1.8	
		eS	19 56 02	R	0.5	30.0 (0)		
17	CP	eP	21 49 23.1	Z	0.2	20.0 (0)	1.3	
		eS	21 49 39	R	0.4	30.0 (0)		
17	LC	eP	21 55 54.4	Z	0.3	3.1 (0)	2.5	
		eS	21 56 26	R	0.5	5.2 (0)		
18	CP	eP	02 17 23.5	Z	0.4	0.9 (0)		
18	02 49 50.4		21.2 S 178.8 W H =549 KM				FIJI ISLANDS REGION	
18	MN	eP	03 01 16.2	Z	0.6	5.3 (0)	82.0	
18	WI	eP	03 01 26.9	Z	0.6	2.3 (0)	85.0	
18	LC	eP	03 01 41.7	Z	1.0	5.9 (0)	88.0	
		epP	03 03 46	Z	1.0	2.4 (0)		
AVG.								
18	07 12 55.0		29.3 S 178.4 W H =192 KM				KERMADEC ISLANDS	
AVG.								

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	TF	eP	07 25 11.2	Z	1.0	17.0 (0)	86.0	4.84
18	CP	eP	07 25 16.0	Z	0.8	15.0 (0)	86.0	4.88
		epP	07 26 07	Z	0.9	3.4 (0)		
18	MN	eP	07 25 26.5	Z	0.8	11.0 (0)	88.0	4.75
18	WI	eP	07 25 37.6	Z	1.0	13.0 (0)	91.0	4.93
18	LC	eP	07 25 45.5	Z	1.0	8.3 (0)	93.0	4.84
		epP	07 26 39	Z	1.0	5.9 (0)		
18	FM	eP	07 25 47.0	Z	0.9	16.0 (0)	93.0	5.17
						AVG.		4.90
18	LC	eP	07 41 35.0	Z	0.9	2.9 (0)		
18	07 49 44.0		38.6 S 074.7 W			NEAR COAST OF CHILE		
			H =040 KM					
18	LC	eP	08 01 31.9	Z	1.1	6.1 (0)	77.0	4.52
18	CP	eP	08 33 06.1	Z	0.4	17.0 (0)		
18	12 11 59.8		48.6 N 028.7 W			NORTH ATLANTIC OCEAN		
			H =025 KM					
18	DH	eP	12 18 36.4	Z	1.2	42.0 (0)	33.0	5.22
		eLR	12 28 10	LZ	32	47.0 (1)		
		eL	12 30 05	LZ	22	10.0 (2)		
		eL	12 30 05	LR	21	11.0 (2)		
18	WI	eP	12 22 06.7	Z	1.2	12.0 (0)	60.0	4.82
		eLR	12 40 35	LZ	26	15.0 (1)		
		eL	12 42 40	LZ	32	28.0 (1)		
		eL	12 42 40	LR	20	37.0 (1)		
		eL	12 42 40	LT	20	24.0 (1)		
18	LC	eP	12 22 07.0	Z	1.0	4.7 (0)	60.0	4.50
		eLR	12 43 50	LZ	23	14.0 (1)		
		eL	12 46 47	LZ	20	71.0 (1)		
		eL	12 46 47	LR	18	68.0 (1)		
		eL	12 46 47	LT	22	28.0 (1)		
18	MN	eP	12 22 21.8	Z	1.0	3.4 (0)	62.0	4.48
		eLR	13 42 40	LZ	35	81.0 (0)		
		eL	13 43 05	LZ	32	65.0 (0)		
		eL	13 43 05	LR	20	21.0 (1)		
		eL	13 43 05	LT	30	13.0 (1)		
18	NG	eLR	12 31 08	LZ	35	32.0 (0)	40.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	12 34 10	LZ	19	10.0 (1)		
		eL	12 34 10	LR	18	19.0 (1)		
18	SJ	eLR	12 40 35	LZ	35	26.0 (1)	57.0	
		eL	12 46 00	LZ	21	34.0 (1)		
		eL	12 46 00	LR	19	64.0 (1)		
		eL	12 46 00	LT	21	96.0 (1)		
18	FM	eLR	12 42 55	LZ	30	12.0 (1)	58.0	
		eL	12 45 23	LZ	20	40.0 (1)		
		eL	12 45 23	LR	18	34.0 (1)		
		eL	12 45 23	LT	18	38.0 (1)		
18	CP	eL	12 48 15	LZ	22	32.0 (1)	65.0	
		eL	12 49 20	LZ	22	43.0 (1)		
		eL	12 49 20	LR	20	12.0 (1)		
		eL	12 49 20	LT	21	41.0 (1)		
						AVG.		4.63
18	CP	eP	14 03 04.1	Z	0.4	2.3 (0)	2.6	
		eS	14 03 37	T	0.4	10.0 (0)		
18	14 46 33.7		38.4 S 074.9 W			OFF COAST OF CHILE		
			H =025 KM					
18	LC	eP	14 58 28.0	Z	0.8	2.2 (0)	77.0	4.26
18	CP	eP	15 41 56.4	Z	999.9	99.9 (9)		
18	DH	eP	16 05 30.8	Z	0.3	8.4 (0)	3.8	
		eS	16 05 58	T	0.3	15.0 (0)		
18	DH	eP	16 11 27.1	Z	0.8	27.0 (0)	5.1	
		eS	16 12 28	T	0.5	19.0 (0)		
18	CP	eP	16 22 23.2	Z	0.5	3.6 (0)		
18	DH	eP	16 27 58.5	Z	0.4	17.0 (0)	1.8	
		eS	16 28 23	R	0.4	35.0 (0)		
18	CP	eP	18 05 11.9	Z	0.4	4.2 (0)	3.0	
		eS	18 05 49	T	0.4	20.0 (0)		
18	LC	eP	18 11 26.0	Z	0.6	15.0 (0)		
18	LC	eL	18 13 01	R	0.7	5.6 (0)		
18	DH	eP	18 31 06.4	Z	0.7	8.6 (0)		
18	MN	eP	18 38 36.5	Z	0.6	4.9 (0)		
18	18 46 40.1		46.1 N 148.5 E			KURILE ISLANDS		
			H =060 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
18	MV	eP	18 57 09.5	Z	0.6	4.6 (0)	64.0	4.71	
		eP	18 57 15.8	Z	1.3	53.0 (0)		5.43	
18	WI	eP	18 57 13.5	Z	0.6	18.0 (0)	65.0	5.28	
		eP	18 57 22.9	Z	1.0	45.0 (0)		5.47	
18	MN	eP	18 57 23.0	Z	0.8	38.0 (0)	66.0	5.50	
		eP	18 57 32.0	Z	1.0	42.0 (0)		5.44	
18	TF	eP	18 57 29.6	Z	1.0	35.0 (0)	66.0	5.36	
		eP	18 57 39.1	Z	1.0	35.0 (0)		5.36	
18	FM	eP	18 57 42.1	Z	0.6	25.0 (0)	69.0	5.38	
		eP	18 57 51.5	Z	1.0	49.0 (0)		4.45	
18	CP	eP	18 57 53.4	Z	1.1	35.0 (0)	71.0	5.22	
		eP	18 58 03.2	Z	1.0	22.0 (0)		5.06	
18	NG	eP	18 58 24.3	Z	0.8	41.0 (0)	76.0	5.43	
		eP	18 58 33.2	Z	1.0	84.0 (0)		5.64	
18	LC	eP	18 58 29.8	Z	0.8	8.9 (0)	77.0	4.77	
		eP	18 58 39.3	Z	0.9	30.0 (0)		5.24	
18	DH	eP	18 59 08.8	Z	0.6	43.0 (0)	85.0	5.48	
		eP	18 59 17.5	Z	0.8	62.0 (0)		5.51	
18	SJ	eP	18 59 15.3	Z	1.0	49.0 (0)	86.0	5.47	
		eP	18 59 24.8	Z	0.9	32.0 (0)		4.83	
	AS						AVG.	5.24	
							AVG.	5.66	
18	DH	eP	18 56 26.8	Z	0.5	3.2 (0)	2.4		
		eS	18 56 57	T	0.4	4.2 (0)			
18	LC	eP	19 59 56.0	Z	0.3	1.5 (0)	2.4		
18	LC	eS	20 00 27	T	0.4	2.0 (0)	2.4		
18	NG	eP	22 21 23.2	Z	1.1	85.0 (0)			
18	23	18 46.9	16.0 S 173.0 W	TONGA ISLANDS REGION					
			H = 025 KM						
18	TF	eP	23 30 10.2	Z	1.2	54.0 (0)	72.0	5.48	
		eLR	23 51 57	LZ	29	86.0 (1)			
		eL	23 54 00	LR	20	10.2 (2)			
		eL	23 54 00	LZ	20	13.0 (2)			
18	MV	eP	23 30 20.1	Z	1.0	22.0 (0)	74.0	5.09	
18	MN	eP	23 30 28.2	Z	1.1	42.0 (0)	75.0	5.33	
		eLR	23 52 58	LZ	20	26.0 (1)			
		eL	23 56 00	LZ	20	84.0 (1)			
		eL	23 56 00	LR	20	19.0 (1)			
		eL	25 56 00	LT	18	88.0 (1)			
18	WI	eP	23 30 41.0	Z	1.3	45.0 (0)	77.0	5.48	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
18	FM	eP	23 30 53.5	Z	1.0	29.0 (0)	79.0	5.21	
18	LC	eP	23 30 57.5	Z	1.0	35.0 (0)	80.0	5.22	
		eLR	23 56 34	LZ	20	28.0 (1)			
		eL	23 59 50	LZ	18	10.0 (2)			
		eL	23 59 50	LR	19	75.0 (1)			
		eL	23 59 50	LT	19	40.0 (1)			
18	FM	eLR	23 56 33	LZ	25	40.0 (1)	79.0		
		eL	23 59 02	LZ	20	76.0 (1)			
		eL	23 59 02	LR	15	15.0 (1)			
		eL	23 59 02	LT	20	46.0 (1)			
							AVG.	5.30	
19	14 58 13.3		17.2 N 099.5 W	NEAR COAST OF MEXICO					
			H = 020 KM	MAG 7.00-7.25 PAS					
19	SJ	iP	15 00 51	C LZ	17	10.0 (4)	11.0		
19	LC	iP	15 02 06.5	C Z	1.0	26.0 (1)	17.0	5.33	
		iP	15 02 09	C LZ	18	29.0 (3)			
		eS	15 05 28	T	5.3				
		eL	15 06 54	Z					
19	CP	eP	15 03 05.5	Z	1.0	52.0 (1)	22.0	5.90	
		iP	15 03 07	C LZ	22	45.0 (3)			
		eS	15 07 26	R	6.5				
		eS	15 07 26	T	7.0				
		eL	15 10 09	R	2.9	48.0 (2)			
19	FM	eP	15 03 35.4	Z	1.0	23.0 (1)	25.0	5.80	
		iP	15 03 38	C LZ	23	41.0 (3)			
		eS	15 08 12	R	6.3				
		eS	15 08 12	T	6.3				
		eL	15 11 21	Z	3.2				
19	TF	eP	15 03 44.9	Z	1.0	31.0 (1)	26.0	5.87	
		iP	15 03 46	C LZ	23	31.0 (3)			
		eS	15 08 22	R	7.0				
		eS	15 08 22	T	6.0				
		eL	15 12 10	Z	2.9	52.0 (2)			
19	MN	eP	15 03 55.5	Z	1.0	61.0 (1)	27.0	6.24	
		iP	15 03 56	C LZ	999.9	99.9 (9)			
		eL	15 12 07	Z	3.3				
19	WI	eP	15 04 12.0	Z	1.0	29.0 (1)	29.0	6.00	
		iP	15 04 14	C LZ	23	35.0 (3)			
		eS	15 09 07	T	6.5				
		eS	15 09 07	R	5.5				
		eL	15 12 38	Z	3.8				
19	MV	eP	15 04 14.5	Z	1.0	90.0 (0)	29.0	5.51	
		iP	15 04 15	C LZ	999.9	99.9 (9)			
		eS	15 09 13	T	5.5				
		eS	15 09 13	R	6.5				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	NG	eL	15 13 46	T	2.8	30.0 (2)	30.0	5.83
		eP	15 04 22.2	Z	1.0	18.0 (1)		
		iP	15 04 25 C	LZ	23	30.0 (3)		
		eL	15 14 33	Z	2.8	41.0 (2)		
19	DH	eP	15 04 57.0	Z	1.1	84.0 (1)	34.0	6.56
		iP	15 04 59.0C	LZ	23	32.0 (3)		
		eS	15 10 18	R	3.6			
		eS	15 10 18	T	4.0			
		e	15 13 19	Z	2.3	95.0 (1)		
		eL	15 18 05	Z	3.0	22.0 (2)		
							AVG.	5.89
19	LC	eP	09 02 10.0	Z	1.0	2.4 (0)		
19	WI	eP	09 03 38.5	Z	1.0	27.0 (0)		
19	LC	eP	16 03 10.7	Z	1.0	2.4 (0)		
19	WI	eP	16 05 15.2	Z	0.8	3.4 (0)		
19	WI	eP	17 05 47.8	Z	0.4	31.0 (0)	1.6	
19	MV	eP	17 06 01.2	Z	0.4	8.7 (0)	2.4	
19	CP	eP	17 06 01.2	Z	0.4	8.7 (0)	2.4	
19	MN	eP	17 06 08.3	Z	0.5	6.2 (0)	2.6	
19	WI	eS	17 06 09	T			1.6	
19	MV	eS	17 06 32	T	0.5	75.0 (0)	2.4	
19	CP	eS	17 06 32	T	0.5	75.0 (0)	2.4	
19	MN	eS	17 06 41	R	0.6	64.0 (0)	2.6	
19	WI	eP	17 30 46.4	Z	0.4	7.2 (0)	1.6	
		eS	17 31 07	T	0.4	54.0 (0)		
19	LC	eP	17 44 41.0	Z	0.2	8.7 (0)	1.4	
		eS	17 44 58	T	0.4	6.4 (0)		
19	LC	eP	18 26 53.5	Z	1.0	1.2 (0)		
19	DH	eP	20 02 40.3	Z	0.4	12.0 (0)	1.6	
		eS	20 03 03	R	0.5	46.0 (0)		
19	20 43 56.9		06.3 S 155.0 E			SOLOMON ISLANDS		
			H =070 KM					
19	20 48 32.1		38.2 N 022.4 E			GREECE		
			H =025 KM					
19	20 50 09.0		39.5 N 073.9 E			SINKIANG PROVINCE, CHINA		
			H =045 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	23 56 32.4		13.4 S 076.7 W			NEAR COAST OF PERU		
			H =070 KM					
20	SJ	eP	00 04 51.2	Z	1.0	23.0 (1)	46.0	6.03
20	LC	eP	00 05 50.3	Z	1.0	72.0 (0)	54.0	5.66
		ePCP	00 06 56	Z	1.0	31.0 (0)		
		eL	00 25 08	LZ	26	69.0 (1)		
		eL	00 25 40	LZ	23	38.0 (1)		
		eL	00 25 40	LR	24	80.0 (1)		
20	CP	eP	00 06 31.4	Z	0.8	13.0 (0)	60.0	5.08
		ePCP	00 07 18	Z	0.9	19.0 (0)		
20	FM	eP	00 06 48.1	Z	1.0	59.0 (0)	62.0	5.63
20	WI	iP	00 07 15.7D	Z	1.0	13.0 (1)	66.0	5.91
		eSS	00 20 46	LZ	27	82.0 (1)		
		eL	00 25 30	LZ	27	60.0 (1)		
		eL	00 28 00	LZ	23	42.0 (1)		
		eL	00 28 00	LR	21	49.0 (1)		
		eL	00 28 00	LT	22	14.0 (1)		
20	MV	eP	00 07 19.2	Z	1.3	39.0 (0)	67.0	5.27
20	DH	eS	00 13 41	LT	20	91.0 (0)	55.0	
		eS	00 13 41	LR	22	19.0 (1)		
		eSSS	00 20 00	LR	30	37.0 (1)		
		eL	00 23 50	LZ	35	62.0 (1)		
		eL	00 30 20	LZ	20	17.0 (1)		
		eL	00 30 20	LR	20	13.0 (1)		
		eL	00 30 20	LT	20	18.0 (1)		
							AVG.	5.60
20	CP	eP	00 24 31.5	Z	0.2	3.3 (0)	1.3	
		eS	00 24 48	Z	0.3	5.4 (0)		
20	00 40 38.3		34.8 N 022.3 E			CRETE		
			H =025 KM					
20	LC	eP	01 50 28.7	Z	0.8	1.8 (0)		
20	MN	eP	01 52 15.8	Z	1.0	4.8 (0)		
20	WI	eP	01 53 32.1	Z	0.6	1.0 (0)		
20	SJ	eP	01 54 14.5	Z	0.7	19.0 (0)		
20	MN	eP	02 48 35.1	Z	0.5	1.8 (0)		
20	WI	eP	06 33 02.0	Z	0.6	1.8 (0)		
20	06 48 53.3		10.9 S 164.3 E			SANTA CRUZ ISLANDS		
			H =040 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20 08 09 14.4 21.3 S 179.1 W FIJI ISLANDS REGION H = 608 KM								
20	MN	eP	08 20 38.7	Z	0.9	3.9 (0)	83.0	4.42
20	WI	eP	08 20 48.6	Z	1.0	4.2 (0)	85.0	4.02
20	LC	eP	08 21 03.8	Z	0.8	1.5 (0)	88.0	3.86
						AVG.		4.10
20	WI	eP	08 25 53.9	Z	0.6	0.9 (0)		
20	WI	eP	08 39 20.1	Z	0.7	1.6 (0)		
20	CP	eP	10 09 25.7	Z	0.2	3.3 (0)	1.1	
		eS	10 09 39	R	0.3	12.0 (0)		
20	DH	eP	11 41 34.3	Z	0.5	8.4 (0)		
20	LC	eP	11 43 17.0	Z	0.9	1.9 (0)		
20	LC	e	11 43 37	Z	0.9	1.9 (0)		
20	MN	eP	11 44 43.9	Z	1.0	4.8 (0)		
20	WI	eP	11 44 44.5	Z	0.7	1.1 (0)		
20	DH	eL	11 45 57	T	0.5	20.0 (0)		
20	LC	eP	12 46 45.0	Z	0.7	3.6 (0)		
20	MN	eP	12 48 31.8	Z	1.0	4.8 (0)		
20	WI	eP	12 48 48.7	Z	1.0	6.3 (0)		
20	CP	eP	14 27 29.3	Z	0.2	2.2 (0)	1.3	
		eS	14 27 46	R	0.3	9.7 (0)		
20	MV	eP	14 40 37.5	Z	0.2	4.4 (0)	0.9	
		eS	14 40 50	Z	0.3	14.0 (0)		
20 15 01 20.7 20.5 N 066.0 W OFF COAST OF PUERTO RICO H = 038 KM								
20	DH	eP	15 06 21.2	Z	1.0	40.0 (0)	23.0	4.84
		eS	15 10 37	LT	21	46.0 (1)		
		eS	15 10 37	LR	20	83.0 (1)		
		eLR	15 12 00	LZ	28	21.0 (2)		
		eL	15 13 00	LZ	25	20.0 (2)		
		eL	15 13 00	LR	25	94.0 (1)		
		eL	15 13 00	LT	25	63.0 (1)		
20	SJ	eP	15 07 31.6	Z	1.0	58.0 (0)	30.0	5.33
20	NG	eP	15 07 37.2	Z	0.8	11.0 (0)	31.0	5.00
		eS	15 12 50	LR	20	29.0 (1)		
		eS	15 12 50	LT	20	22.0 (1)		
		eL	15 16 03	LZ	29	99.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	15 18 15	LZ	22	11.0 (2)		
		eL	15 18 15	LR	20	77.0 (1)		
		eL	15 18 15	LT	22	89.0 (1)		
20	LC	eP	15 08 37.7	Z	1.0	9.4 (0)	38.0	4.55
		eL	15 21 07	LR	19	75.0 (1)		
		eL	15 22 00	LR	19	75.0 (1)		
		eL	15 22 00	LT	19	70.0 (1)		
20	FM	eP	15 09 26.5	Z	0.7	9.9 (0)	44.0	4.45
		eL	15 22 30	LT	25	35.0 (1)		
		eL	15 23 40	LR	20	18.0 (1)		
		eL	15 23 40	LT	22	53.0 (1)		
20	CP	eP	15 09 47.7	Z	1.0	8.3 (0)	47.0	4.70
20	WI	eP	15 09 58.0	Z	0.8	6.6 (0)	48.0	4.70
		e	15 20 50	LR	19	30.0 (1)		
		eL	15 25 17	LR	21	49.0 (1)		
		eL	15 26 30	LR	19	92.0 (1)		
		eL	15 26 30	LT	19	30.0 (1)		
20	MN	eP	15 09 59.6	Z	1.0	11.0 (0)	48.0	4.83
		e	15 20 57	LT	21	23.0 (1)		
		eL	15 25 00	LT	25	37.0 (1)		
		eL	15 26 15	LR	22	49.0 (1)		
		eL	15 26 15	LT	21	60.0 (1)		
20	TF	eP	15 10 09.7	Z	0.8	10.0 (0)	49.0	4.82
		eL	15 27 11	LZ	20	25.0 (1)		
		eL	15 28 00	LZ	18	20.0 (1)		
		eL	15 28 00	LR	18	36.0 (1)		
20	MV	eP	15 10 19.5	Z	1.0	7.6 (0)	51.0	4.62
		eL	15 27 00	LZ	20	34.0 (1)		
		eL	15 30 00	LZ	16	32.0 (1)		
		eL	15 30 00	LR	16	39.0 (1)		
						AVG.		4.78
20	DH	eP	15 06 38.3	Z	0.4	19.0 (0)		
20	DH	eL	15 10 30	R	0.4	40.0 (0)		
20	LC	eP	15 41 46.8	Z	0.8	2.2 (0)		
20 16 22 29.4 15.2 S 167.2 E NEW HEBRIDES ISLANDS H = 108 KM								
20	SJ	eP	16 48 12.8	Z	0.7	9.8 (0)		
20 16 49 46.8 06.2 N 125.8 E NEAR MINDANAO, P. ISLANDS H = 133 KM								
20	LC	eP	17 08 20.0	Z	0.8	1.5 (0)	116.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	NG	eP	17 08 23.8	Z	0.7	8.6 (0)	120.0	
20	WI	eP	17 10 10.2	Z	0.7	2.1 (0)		
20	MN	eP	17 22 03.1	Z	0.9	2.6 (0)		
20	MN	eP	18 23 01.2	Z	0.5	1.2 (0)		
20	MN	eP	18 23 03.3	Z	0.5	0.9 (0)		
20	WI	eP	18 23 34.7	Z	0.7	1.1 (0)		
20	18 30 38.9		30.0 S 177.5 W				KERMADEC ISLANDS	
			H = 025 KM					
20	MN	eP	18 43 28.5	Z	1.0	3.2 (0)	88.0	3.52
20	TF	eP	18 43 32.4	Z	0.8	3.3 (0)	89.0	4.59
20	LC	eP	18 43 47.4	Z	1.0	2.4 (0)	92.0	4.48
						AVG.		4.20
20	LC	eP	19 40 21.4	Z	0.2	2.8 (0)	2.4	
		e	19 40 26	Z	0.3	3.9 (0)		
		eS	19 40 52	R	0.4	4.2 (0)		
20	MN	eP	20 08 06.3	Z	0.3	4.1 (0)	1.1	
20	MV	eP	20 08 13.5	Z	0.2	3.0 (0)	1.4	
20	MN	eS	20 08 21	R	0.4	21.0 (0)	1.1	
20	MV	eS	20 08 32	R	0.3	14.0 (0)	1.4	
20	MN	eP	21 09 05.3	Z	0.5	1.8 (0)	2.3	
		eS	21 09 36	R	0.5	1.8 (0)		
20	LC	eP	21 15 26.5	Z	0.2	3.1 (0)	1.3	
		eS	21 15 43	R	0.5	5.8 (0)		
20	CP	eP	21 31 20.5	Z	0.2	22.0 (0)		
21	01 54 06.2		19.4 N 145.6 E				MARIANA ISLANDS	
			H = 085 KM					
21	WI	eP	02 06 20.3	Z	1.0	6.4 (0)	82.0	4.54
		e	02 06 50	Z	1.0	13.0 (0)		4.07
21	MN	eP	02 06 22.6	Z	0.8	2.1 (0)	83.0	
		e	02 06 52	Z	0.9	6.7 (0)		4.64
21	LC	eP	02 07 16.2	Z	0.8	2.3 (0)	94.0	
		e	02 07 55	Z	0.9	3.9 (0)		4.41
						AVG.		
21	CP	iP	04 07 20.3C	Z	0.2	7.7 (0)	0.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	CP	eS	04 07 24	T	999.9	99.9 (9)		
		iP	04 35 32.5D	Z	0.2	5.5 (0)	0.8	
		eS	04 35 43	T	0.2	11.0 (0)		
21	12 02 50.6		37.3 N 096.0 E				CHINGHAI PROVINCE, CHINA	
			H = 025 KM			MAG	7.00-7.25 PAS	
21	WI	eP	12 16 21.3	Z	1.5	15.0 (1)	97.0	6.38
		eP	12 16 23	LZ	15	39.0 (2)		
		ePP	12 20 11	Z	2.0	18.0 (1)		
		ePP	12 20 22	LZ	16	43.0 (2)		
		ePPP	12 22 16	Z	3.2			
		ePPP	12 22 25	LZ	20	16.0 (2)		
		eSKS	12 25 42	LT	17	25.0 (2)		
		ePS	12 29 11	R	4.5			
		ePS	12 29 12	LR	999.9	99.9 (9)		
		ePKKP	12 32 35	Z	1.6	33.0 (0)		
		eP'iP'i	12 41 17	Z	3.0	20.0 (1)		
21	MV	eP	12 16 23.0	Z	1.0	52.0 (0)	97.0	6.09
		eP	12 16 25	LZ	15			
		ePP	12 20 18	LZ	18			
		ePP	12 20 23	Z	2.0	17.0 (1)		
		ePS	12 29 20	LT	23			
		e	12 32 29	Z	1.5	48.0 (0)		
		eSS	12 34 48	LR	999.9	99.9 (9)		
21	NG	eP	12 16 25.8	Z	1.2	12.0 (1)	98.0	6.45
		eP	12 16 27	LZ	20	34.0 (2)		
		e	12 19 34	Z	1.4	46.0 (0)		
		ePP	12 20 26	LZ	21	37.0 (2)		
		ePPP	12 22 33	LZ	25	24.0 (1)		
		ePS	12 29 19	LT	23	14.0 (3)		
		ePKKP	12 33 26	Z	1.2	30.0 (0)		
		eSS	12 34 53	LT	35	33.0 (3)		
21	MN	eP	12 16 31.8	Z	1.3	79.0 (0)	99.0	6.26
		eP	12 16 33	LZ	20	13.0 (3)		
		ePP	12 20 21	Z	2.5	42.0 (1)		
		ePP	12 20 30	LZ	22	30.0 (2)		
		ePPP	12 22 47	LZ	20	17.0 (2)		
		e	12 25 50	LR	20	18.0 (2)		
		eSKS	12 26 54	R	4.0			
		eSKKS	12 27 25	LR	999.9	99.9 (9)		
		e	12 27 26	R	4.0			
		ePS	12 29 48	LR	999.9	99.9 (9)		
		ePKKP	12 32 30	Z	1.1	11.0 (0)		
		eP'iP'i	12 41 17	Z	2.0	35.0 (0)		
21	FM	eP	12 16 38.0	Z	1.8	16.0 (1)	101.0	6.27
		eP	12 16 39	LZ	22	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	12 20 39	Z	2.5	53.0 (1)		
		ePP	12 20 53	LZ	20	23.0 (2)		
		ePPP	12 22 55	Z	3.0	94.0 (1)		
		ePPP	12 23 02	LZ	20	89.0 (1)		
		eSKS	12 27 30	LT	20	26.0 (2)		
		ePS	12 29 57	LT	20	10.0 (3)		
		ePKKP	12 32 48	Z	1.0	9.9 (0)		
		eSS	12 35 32	LT	38	99.9 (9)		
		eSKKS	12 40 00	LT	26	97.0 (2)		
		e	12 43 07	LT	20	64.0 (2)		
		e	12 43 45	LZ	25	73.0 (2)		
		eL	12 49 25	LR	36	13.0 (3)		
21	DH	eP	12 16 43.5	Z	0.9	30.0 (0)	102.0	5.95
		eP	12 16 44	LZ	17	17.0 (2)		
		ePP	12 20 43	Z	2.3	39.0 (1)		
		ePP	12 20 49	LZ	20	25.0 (2)		
		ePS	12 29 55	LT	25	73.0 (2)		
		e	12 34 06	Z	1.0	18.0 (0)		
		eSS	12 35 30	LT	40	20.0 (3)		
21	TF	eP	12 16 43.6	Z	1.7	13.0 (1)	102.0	6.31
		eP	12 16 45	LZ	20	24.0 (2)		
		ePP	12 20 43	Z	2.2	25.0 (1)		
21	CP	ePD	12 17 02.0	Z	1.7	65.0 (0)	105.0	6.31
		ePD	12 17 02	LZ	22	12.0 (2)		
		ePP	12 21 17	Z	2.0	27.0 (1)		
		ePP	12 21 21	LZ	20	28.0 (2)		
		ePS	12 30 38	LT	23	28.0 (2)		
		e	12 31 48	LT	21	51.0 (2)		
		e	12 42 08	LT	36	13.0 (3)		
		eLQ	12 50 16	LT	35	71.0 (2)		
		eLR	12 54 21	LZ	35	33.0 (3)		
21	LC	ePD	12 17 13.0	Z	1.2	14.0 (0)	107.0	5.97
		ePD	12 17 15	LZ	22	10.0 (3)		
		e	12 20 16	Z	2.2	46.0 (0)		
		ePP	12 21 34	Z	2.5	57.0 (1)		
		ePP	12 21 48	LZ	20	31.0 (3)		
		eSKS	12 28 00	LR	23	21.0 (2)		
		e	12 31 20	LR	23	50.0 (2)		
		e	12 32 30	LZ	18	77.0 (2)		
		ePKKP	12 32 35	Z	0.7	3.6 (0)		
		e	12 33 47	Z	1.2	20.0 (0)		
		e	12 37 23	LR	18	10.0 (3)		
		eL	12 52 40	LR	25	93.0 (2)		
21	SJ	ePD	12 17 48	LZ	16	89.0 (1)	114.0	
		eP	12 21 32.6	Z	1.0	19.0 (0)		
		ePP	12 22 29	LZ	17	43.0 (2)		
		ePKKP	12 32 13	Z	0.9	15.0 (0)		
		ePS	12 32 19	LT	17	78.0 (1)		
							AVG.	6.22

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21			12 36 19.7			37.0 N 095.9 E H =025 KM	CHINGHAI PROVINCE, CHINA	
21	WI	eP	12 49 48.0	Z	1.4	16.0 (0)	97.0	5.43
21	MN	eP	12 49 59.5	Z	1.0	3.3 (0)	99.0	4.99
							AVG.	5.21
21	CP	iP	12 54 24.8D	Z	0.3	28.0 (0)	0.7	
		eS	12 54 34	T	999.9	99.9 (9)		
21	CP	iP	13 00 36.6D	Z	0.3	4.5 (0)	0.7	
		eS	13 00 46	T	0.3	26.0 (0)		
21			13 15 39.4			37.0 N 095.7 E H =025 KM	CHINGHAI PROVINCE, CHINA	
21	WI	eP	13 29 11.3	Z	1.0	4.3 (0)	97.0	5.01
21	NG	eP	13 29 14.6	Z	0.7	9.1 (0)	98.0	5.56
21	MN	eP	13 29 21.3	Z	0.8	3.1 (0)	99.0	5.06
							AVG.	5.21
21			13 28 55.8			37.3 N 095.9 E H =035 KM	CHINGHAI PROVINCE, CHINA	
21	MN	eP	14 20 35.9	Z	1.0	6.6 (0)		
21	WI	eP	14 20 47.1	Z	0.9	7.0 (0)		
21	LC	eP	14 21 00.0	Z	0.8	9.0 (0)		
21			15 41 46.8			37.1 N 095.9 E H =036 KM	CHINGHAI PROVINCE, CHINA	
21	MN	eP	15 55 22.4	Z	1.0	3.3 (0)	98.0	4.95
21			18 15 29.9			36.9 N 096.4 E H =035 KM	CHINGHAI PROVINCE, CHINA	
21			19 29 10.0			37.4 N 095.5 E H =025 KM	CHINGHAI PROVINCE, CHINA	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	19 46	01.2	36.7 N 095.8 E H =035 KM				CHINGHAI PROVINCE, CHINA	
21	20 11	22.8	37.1 N 095.7 E H =025 KM				CHINGHAI PROVINCE, CHINA	
21	21 08	20.6	37.1 N 095.7 E H =025 KM				CHINGHAI PROVINCE, CHINA	
21	21 15	31.0	20.0 S 177.5 W H =379 KM				FIJI ISLANDS REGION MAG 6.75-7.00 PAS	
21	TF	eP	21 26 49.9	Z	999.9	99.9 (9)	78.0	
		eP	21 26 53	LZ	22	27.0 (3)		
		eS	21 36 12	R	2.8	12.0 (2)		
		eS	21 36 12	T	4.0			
		ePS	21 37 32	T	4.0			
		eP'P'	21 53 54	Z	1.2	35.0 (0)		
		e	21 55 45	Z	3.3			
		e	22 15 25	Z	4.0			
21	CP	eP	21 26 55.7	Z	1.3	27.0 (1)	79.0	5.84
		eP	21 26 59	LZ	24	20.0 (2)		
		epP	21 28 31	LZ	27	35.0 (3)		
		eS	21 36 23	R	2.5	90.0 (1)		
		eS	21 36 23	T	2.5	33.0 (1)		
		e	21 55 49	Z	2.2	16.0 (1)		
		e	22 15 35	Z	3.0	26.0 (1)		
21	MV	eP	21 26 56.9	Z	1.1	15.0 (1)	79.0	5.66
		eP	21 27 02	LZ	1.7	99.9 (9)		
		epP	21 28 26	Z	1.5	66.0 (1)		
		epP	21 28 28	LZ	999.9	99.9 (9)		
		ePP	21 29 56	Z	2.2	72.0 (1)		
		eS	21 36 25	R	3.5			
		eS	21 36 25	T	3.5			
		e	21 54 01	Z	1.0	6.1 (0)		
		e	21 55 35	Z	2.5	12.0 (1)		
		e	22 15 38	Z	4.0			
21	MN	eP	21 27 04.5	Z	999.9	99.9 (9)	81.0	
		eP	21 27 09	LZ	999.9	99.9 (9)		
		e	21 36 43	R	3.0	23.0 (2)		
		eP'P'	21 53 46	Z	1.5	20.0 (0)		
		e	21 55 41	Z	2.3	12.0 (1)		
		e	22 15 45	Z	4.0			
21	WI	eP	21 27 15.6	Z	999.9	99.9 (9)	83.0	
		eP	21 27 21	LZ	30			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP'P'	21 53 52	Z	1.3	18.0 (0)		
		e	21 55 31	Z	3.5			
		e	22 13 52	Z	3.6			
		e	22 15 42	Z	3.5			
		e	22 15 59	Z	3.1			
21	FM	eP	21 27 27.2	Z	0.7	50.0 (0)	85.0	5.45
		eP	21 27 31	LZ	999.9	99.9 (9)		
		epP	21 29 01	Z	2.0	27.0 (2)		
		eS	21 37 25	R	4.5			
		eS	21 37 25	T	3.4			
21	LC	eP	21 27 31.6	Z	999.9	99.9 (9)	86.0	
		eP	21 27 34	LZ	999.9	99.9 (9)		
		eS	21 37 27	R	3.8			
		eS	21 37 27	T	3.8			
		e	21 40 28	R	7.0			
		eP'P'	21 53 48	Z	1.0	9.6 (0)		
		e	21 55 38	Z	2.0	85.0 (0)		
		e	22 15 50	Z	5.0			
21	SJ	eP	21 27 54.5	Z	0.8	71.0 (0)	91.0	5.65
		eP	21 27 55	LZ	999.9	99.9 (9)		
		epP	21 29 29	Z	1.7	21.0 (2)		
		epP	21 29 27	LZ	999.9	99.9 (9)		
		eSKS	21 37 51	T	3.5			
21	NG	eP	21 28 54.5	Z	0.7	4.5 (0)	104.0	5.49
		eP	21 28 56	LZ	25	33.0 (2)		
		epP	21 30 28	Z	2.2	34.0 (2)		
		epP	21 30 29	LZ	25	67.0 (2)		
		ePP	21 33 17	Z	1.5	17.0 (2)		
		ePP	21 33 25	LZ	26	79.0 (2)		
		eSKS	21 39 00	LR	26	18.0 (3)		
		e	21 39 44	R	2.5	71.0 (2)		
		eS	21 40 14	R	3.6			
		eS	21 40 14	T	2.6	68.0 (1)		
		eS	21 40 14	LT	999.9	99.9 (9)		
		ePKKP	21 44 46	Z	0.6	15.0 (0)		
21	DH	ePD	21 29 50	LZ	23	19.0 (2)	112.0	
		ePD	21 29 50.5	Z	1.0	9.2 (0)		
		e	21 31 03	LZ	28	44.0 (2)		
		eP'	21 33 28.2	Z	0.9	30.0 (0)		
		ePP	21 34 18	LZ	24	99.9 (9)		
		ePP	21 34 22	Z	2.0	39.0 (1)		
		eSKS	21 39 20	LR	999.9	99.9 (9)		
		e	21 41 30	LT	26	99.9 (9)		
							AVG.	5.61
21	21 51	40.9	20.0 S 177.6 W H =454 KM				FIJI ISLANDS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
22	00 20	02.4	16.8 S 174.3 W H =052 KM	TONGA ISLANDS					
22	TF	eP	00 31 29.0	Z	1.0	17.0 (0)	73.0	4.97	
22	CP	eP	00 31 35.3	Z	1.0	11.0 (0)	74.0	4.74	
22	MN	eP	00 31 46.3	Z	1.0	23.0 (0)	76.0	5.11	
22	WI	eP	00 31 58.4	Z	1.0	15.0 (0)	78.0	4.92	
22	LC	eP	00 32 14.6	Z	0.9	13.0 (0)	81.0	4.86	
						AVG.		4.92	
22	02 04	20.3	12.3 N 144.2 E H =052 KM	MARIANA ISLANDS					
22	TF	eP	02 17 08.9	Z	0.9	9.1 (0)	89.0	4.95	
22	WI	eP	02 17 10.6	Z	0.8	4.0 (0)	89.0	4.65	
		eLR	02 44 55	LZ	29	55.0 (1)			
		eL	02 47 35	LZ	25	34.0 (1)			
		eL	02 47 35	LT	25	47.0 (1)			
22	MN	eP	02 17 11.4	Z	0.8	3.0 (0)	89.0	4.52	
22	LC	eP	02 18 00.4	Z	1.0	1.2 (0)	100.0	4.48	
						AVG.		4.65	
22	02 20	10.4	14.7 S 173.0 W H =046 KM	SAMOA ISLANDS REGION					
22	MN	eP	02 31 43.8	Z	1.2	8.7 (0)	74.0	4.57	
22	WI	eP	02 31 57.0	Z	1.5	14.0 (0)	76.0	4.73	
22	LC	eP	02 32 12.6	Z	1.2	8.2 (0)	79.0	4.54	
						AVG.		4.61	
22	MN	eP	04 21 23.3	Z	1.0	3.5 (0)			
22	WI	eP	04 21 36.5	Z	1.0	2.2 (0)			
22	LC	eP	04 21 53.9	Z	1.0	2.3 (0)			
22	04 34	53.0	37.4 N 095.8 E H =035 KM	CHINGHAI PROVINCE, CHINA					
22	04 40	14.4	55.5 S 138.3 W H =042 KM	SOUTH PACIFIC OCEAN					
22	CP	eG	05 18 10	LT	36	19.0 (2)	90.0		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
		eLR	05 22 30	LZ	27	18.0 (2)			
		eL	05 23 45	LZ	26	17.0 (2)			
		eL	05 23 45	LR	26	88.0 (1)			
		eL	05 23 45	LT	25	34.0 (1)			
22	TF	eG	05 20 07	LR	27	15.0 (2)	92.0		
		eLR	05 23 32	LZ	24	36.0 (2)			
		eL	05 25 10	LZ	22	35.0 (2)			
		eL	05 25 10	LR	22	21.0 (2)			
22	LC	eG	05 20 15	LR	48	86.0 (2)	92.0		
		eLR	05 24 18	LZ	26	16.0 (2)			
		eL	05 25 35	LZ	26	16.0 (2)			
		eL	05 25 35	LR	22	34.0 (1)			
		eL	05 25 35	LT	23	12.0 (2)			
22	MN	eG	05 21 15	LR	30	15.0 (2)	96.0		
		eLR	05 25 45	LZ	25	24.0 (2)			
		eL	05 27 15	LZ	23	23.0 (2)			
		eL	05 27 15	LR	23	11.0 (2)			
		eL	05 27 15	LT	22	18.0 (2)			
22	FM	eG	05 22 13	LR	42	25.0 (2)	97.0		
		eLR	05 27 00	LZ	27	12.0 (2)			
		eL	05 27 50	LZ	26	90.0 (1)			
		eL	05 27 50	LR	26	72.0 (1)			
		eL	05 27 50	LT	25	60.0 (2)			
22	WI	eG	05 22 33	LT	45	35.0 (2)	99.0		
		eLR	05 27 13	LZ	27	20.0 (2)			
		eL	05 28 00	LZ	23	11.0 (2)			
		eL	05 28 00	LR	25	16.0 (2)			
		eL	05 28 00	LT	26	19.0 (2)			
22	MV	eLR	05 25 08	LZ	25	14.0 (2)	96.0		
		eL	05 27 00	LT	23	11.0 (2)			
		eL	05 27 00	LZ	22	16.0 (2)			
		eL	05 27 00	LR	21	36.0 (1)			
22	LC	eP	04 53 47.4	Z	0.9	2.0 (0)			
22	CP	eP	05 18 50.5	Z	0.3	47.0 (0)	1.3		
		eS	05 19 07	T	0.4	49.0 (0)			
22	06 17	05.4	22.7 N 121.5 E H =025 KM	OFF S. E. COAST OF FORMOSA					
22	LC	eP	07 37 23.7	Z	0.8	1.5 (0)			
22	07 40	54.6	35.7 N 089.3 E H =025 KM	TIBET					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	07 50	03.4	10.2 S H = 105 KM	161.5 E	SOLOMON ISLANDS			
22	WI	eP	08 02 57.8	Z	0.5	0.8 (0)	91.0	4.11
22	08 06	38.7	12.3 S H = 151 KM	166.6 E	SANTA CRUZ ISLANDS 6.50-6.75 PAS			
22	TF	eP	08 18 54.8	Z			84.0	
		iP	08 18 55 C	LZ	17	91.0 (2)		
		epP	08 19 26	Z	1.1	26.0 (1)		
		ePP	08 22 26	Z	2.9	64.0 (1)		
		e	08 29 01	LR	23	70.0 (2)		
		eLR	08 44 17	LZ	999.9			
22	MV	eP	08 18 56.5	Z	1.5	48.0 (1)	85.0	6.11
		eP	08 18 58	LZ	18	43.0 (2)		
		epP	08 19 27	Z	1.1	36.0 (1)		
		ePP	08 22 12	Z	4.0			
		e	08 29 16	LT	20	35.0 (2)		
		e	08 30 03	R	4.0			
		eSS	08 35 52	LT	20	36.0 (2)		
		e	08 41 07	LT	27	29.0 (2)		
		eLR	08 44 35	LZ	999.9			
		eP <i>PiPi</i>	08 45 02	Z	2.1	76.0 (0)		
		eL	08 48 35	LZ	22	79.0 (2)		
		eL	08 48 35	LR	22	61.0 (2)		
		eL	08 48 35	LT	21	84.0 (2)		
		eP <i>PiPiPi</i>	09 05 34	Z	4.0			
22	CP	eP	08 19 05.4	Z	1.0	12.0 (1)	87.0	5.78
		iP	08 19 08 C	LZ	18	44.0 (2)		
		epP	08 19 37	Z	1.4	40.0 (1)		
		ePP	08 22 12	Z	3.0	40.0 (1)		
		eSKS	08 29 27	LT	22	51.0 (2)		
		e	08 41 50	LR	28	10.0 (3)		
		eLR	08 45 16	LZ	32	23.0 (3)		
		eL	08 47 05	LZ	26	88.0 (2)		
		eL	08 47 05	LT	25	71.0 (2)		
22	MN	eP	08 19 06.8	Z	1.0	13.0 (1)	87.0	5.81
		epP	08 19 38	Z	1.7	71.0 (1)		
		iP	08 19 07 C	LZ	20	33.0 (2)		
		ePP	08 22 57	Z	2.0	27.0 (1)		
		e	08 29 27	LT				
		e	08 29 33	T	3.0	13.0 (1)		
		e	08 30 16	T	4.0			
		eSS	08 35 25	LT	20	39.0 (2)		
		ePKKP	08 36 34	Z	1.5	11.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSSS	08 39 53	LT	27	31.0 (2)		
		e	08 42 16	LT	19			
		eP <i>PiPi</i>	08 45 14	Z	3.6			
		eLR	08 45 36	LZ	999.9			
		eP <i>PiPiPi</i>	09 05 49	Z	5.0			
22	WI	eP	08 19 14.1	Z	1.4	27.0 (1)	88.0	5.98
		iP	08 19 14 C	LZ	20	37.0 (2)		
		epP	08 19 45	Z	1.5	36.0 (1)		
		ePP	08 23 10	Z	2.3	48.0 (1)		
		eSKS	08 29 32	LT	25	46.0 (2)		
		e	08 30 13	Z	4.0			
		eSS	08 35 10	LT	20	33.0 (2)		
		e	08 42 41	LR	28	54.0 (2)		
		eL	08 46 21	LZ	39			
		eL	08 51 23	LZ	20	83.0 (2)		
		eL	08 51 23	LR	20	17.0 (2)		
		eL	08 51 23	LT	20	74.0 (2)		
		eP <i>PiPiPi</i>	09 05 18	Z	4.0			
22	FM	eP	08 19 29.2	Z	1.0		92.0	
		eP	08 19 31	LZ	20	24.0 (2)		
		e	08 20 00	Z	1.3	32.0 (1)		
		eSKS	08 29 56	LR	19	28.0 (2)		
		e	08 32 20	LT	23	64.0 (2)		
		e	08 40 03	LR	30	34.0 (2)		
		e	08 43 39	LT	31	11.0 (3)		
		eLR	08 48 20	LZ	35	20.0 (3)		
		eL	08 51 50	LZ	23	10.0 (3)		
		eL	08 51 50	LR	22	85.0 (2)		
		eL	08 51 50	LT	23	53.0 (2)		
22	LC	eP	08 19 42.1	Z	1.0	41.0 (0)	95.0	5.73
		eP	08 19 45	LZ	19	27.0 (2)		
		epP	08 20 14	Z	1.0	74.0 (0)		
		ePP	08 23 29	Z	4.5			
		eSKS	08 30 10	R	3.2			
		eSKS	08 30 12	LT	20	11.0 (2)		
		eS	08 30 48	LR	19	31.0 (2)		
		eS	08 30 48	LT	20	36.0 (2)		
		eSS	08 36 25	LT	20	25.0 (2)		
		ePKKP	08 36 47	Z	1.2	11.0 (0)		
		eSSS	08 40 59	LT	25	32.0 (2)		
		ePCPP <i>Pi</i>	08 41 19	Z	2.3	74.0 (0)		
		e	08 44 07	LT	39	85.0 (2)		
		eP <i>PiPi</i>	08 45 04	Z	3.5			
		eLR	08 48 50	LZ	35	14.0 (3)		
		eL	08 57 05	LZ	999.9			
		eL	08 57 05	LR	20	17.0 (3)		
		eL	08 57 05	LT	19	11.0 (3)		
22	SJ	eP	08 20 14	LZ	15	79.0 (1)	101.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	08 24 14	LZ	15	84.0 (1)		
		ePP	08 24 44	Z	1.5	11.0 (0)		
		eSKS	08 30 45	LT	20	37.0 (2)		
		ePS	08 33 13	LT	21	69.0 (2)		
		eSS	08 38 32	LT	24	71.0 (2)		
		e	08 43 10	LT	29	67.0 (2)		
		eL	08 45 40	LT	24	50.0 (2)		
22	NG	ePD	08 20 55	LZ	20	7.5 (0)	111.0	
		eP	08 24 53.6	Z	0.7	4.5 (0)		
		ePP	08 25 18	LZ	23	26.0 (0)		
		ePP	08 25 52	Z	2.1	60.0 (0)		
		ePS	08 34 46	LR	20	20.0 (2)		
		ePKKP	08 36 00	Z	0.8	5.6 (0)		
		eSS	08 40 20	LR	22	66.0 (2)		
		eLQ	08 51 40	LT	34	50.0 (0)		
		eLR	08 57 50	LZ	36	10.0 (1)		
		eL	09 10 50	LZ	19	81.0 (0)		
		eL	09 10 50	LR	20	53.0 (2)		
		eL	09 10 50	LT	18	1.7 (0)		
22	DH	ePD	08 21 37	LZ	22	62.0 (0)	119.0	
		eP	08 25 12.7	Z	0.7	2.8 (0)		
		ePP	08 26 34	LZ	22	26.7 (1)		
		ePP	08 26 57	Z	2.0	26.0 (0)		
		eSP	08 36 15	LZ	27	48.1 (1)		
		e	08 39 13	Z	1.3	3.8 (0)		
		eSS	08 43 07	LR	27	44.0 (0)		
		e	08 51 38	LZ	26	60.3 (1)		
		eLR	09 02 00	LZ	42	30.0 (2)		
		eL	09 08 00	LZ	25	12.0 (2)		
		eL	09 08 00	LR	24	76.0 (1)		
		eL	09 08 00	LT	21	18.0 (0)		
							AVG.	5.88
22	CP	eP	08 17 30.7	Z	0.2	3.4 (0)	0.2	
		eS	08 17 35	T	0.3	36.0 (0)		
22	TF	eP	09 33 17.3	Z	1.0	17.0 (0)		
22	MV	eP	09 33 22.0	Z	1.0	18.0 (0)		
22	CP	eP	09 33 25.6	Z	1.0	8.3 (0)		
22	MN	eP	09 33 30.3	Z	1.0	11.0 (0)		
22	WI	eP	09 33 38.7	Z	0.7	4.4 (0)		
22	LC	eP	09 33 57.8	Z	0.7	0.6 (0)		
22	11 02 33.9		37.2 N 095.7 E				CHINGHAI PROVINCE, CHINA	
			H =025 KM					
22	CP	eP	11 09 09.8D	Z	0.4	9.2 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	FM	eS	11 09 27	T	0.4	3.6 (0)		
		eP	11 40 45.0	Z	0.3	13.0 (0)	1.4	
		eS	11 41 03	R	0.6	30.0 (0)		
22	DH	eP	16 21 12.0	Z	0.5	0.6 (0)	1.7	
		eS	16 21 35	T	0.5	3.9 (0)		
22	17 57 03.6		37.1 N 095.5 E				CHINGHAI PROVINCE, CHINA	
			H =035 KM					
22	LC	eP	18 15 06.4	Z	0.6	5.1 (0)	2.8	
		eS	18 15 42	T	0.6	9.3 (0)		
22	LC	eP	19 07 13.6	Z	0.2	1.0 (0)	0.6	
		eS	19 07 22	R	0.5	13.0 (0)		
22	LC	eP	19 26 32.3	Z	0.7	0.6 (0)		
22	LC	eP	20 16 20.4	Z	0.8	1.4 (0)		
22	LC	eP	20 59 24.4	Z	0.3	3.9 (0)	1.5	
		eS	20 59 43	T	0.5	8.8 (0)		
22	CP	eP	21 12 28.5	Z	0.3	0.3 (0)	1.5	
		eS	21 12 48	T	0.4	7.7 (0)		
22	LC	eP	21 21 46.5	Z	0.2	0.9 (0)	0.6	
		eS	21 21 55	R	0.4	4.3 (0)		
22	MN	eP	21 35 00.2	Z	1.0	5.3 (0)		
22	22 03 36.0		05.5 S 152.0 E				NEW BRITAIN	
			H =100 KM					
22	MV	eP	22 16 33.3	Z	1.4	39.0 (0)	92.0	5.54
		eP	22 16 33	LZ	18	57.0 (1)		
		e	22 17 56	Z	1.2	25.0 (0)		
		eS	22 27 24	R	3.0	43.0 (0)		
		eS	22 27 24	T	3.0	44.0 (0)		
		e	22 28 29	R	4.0			
		e	22 41 30	LT	32	35.0 (2)		
22	MN	eLR	22 45 28	LZ	28	46.0 (2)		
		eP	22 16 39.7	Z	1.3	89.0 (0)	93.0	5.94
		eP	22 16 47	LZ	18	11.0 (2)		
		e	22 18 07	Z	1.1	42.0 (0)		
		e	22 18 09	LZ	22	12.0 (2)		
		eS	22 27 20	T	3.0	86.0 (0)		
		eS	22 27 30	LR	24	13.0 (2)		
		eS	22 27 30	LT	20	55.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	22 28 40	T	2.3	38.0 (0)		
		ePS	22 29 14	LT	26	16.0 (2)		
		e	22 30 12	LR	21	24.0 (2)		
		e	22 35 53	LR	25	16.0 (2)		
		eLQ	22 42 40	LT	32	33.0 (2)		
		eLR	22 46 23	LZ	29			
22	TF	eP	22 16 46.9	Z	1.1	22.0 (0)	95.0	5.60
		e	22 18 00	Z	1.0	28.0 (0)		
22	WI	eP	22 16 47.7	Z	1.3	63.0 (0)	95.0	5.87
		eP	22 16 42	LZ	19	60.0 (1)		
		e	22 18 10.5	Z	1.4	67.0 (0)		
		e	22 18 14	LZ	17	97.0 (1)		
		e	22 29 01	T	3.5			
		eLQ	22 41 55	LR	29	17.0 (2)		
		eLR	22 47 20	LZ	29			
22	CP	eP	22 16 49.8	Z	1.1	25.0 (0)	95.0	5.56
		e	22 18 12	Z	1.1	36.0 (0)		
		eLR	22 46 45	LZ	25	94.0 (2)		
		eL	22 49 30	LT	25	76.0 (2)		
		eL	22 49 30	LZ	25	94.0 (2)		
		eL	22 49 30	LR	22	86.0 (1)		
22	FM	eP	22 17 03.1	Z	1.0	9.8 (0)	98.0	5.29
		eP	22 17 07	LZ	18	34.0 (1)		
		e	22 18 34	LZ	22	39.0 (1)		
		eS	22 28 07	LR	22	35.0 (1)		
		eS	22 28 07	LT	20	13.0 (2)		
		e	22 35 34	LT	30	50.0 (2)		
		eLQ	22 44 30	LT	38	16.0 (3)		
		eLR	22 49 16	LZ	27	96.0 (2)		
22	LC	eP	22 17 28.0	Z	1.0	2.3 (0)	104.0	5.06
		eP	22 17 32	LZ	18	57.0 (1)		
		e	22 18 55	Z	1.0	4.6 (0)		
		e	22 29 35	LT	23	72.0 (1)		
		ePS	22 30 56	LT	21	12.0 (2)		
		ePKKP	22 33 47	Z	1.0	6.9 (0)		
		e	22 35 10	Z	1.0	4.6 (0)		
		eLQ	22 46 35	LT	38	51.0 (2)		
		eLR	22 50 25	LZ	25	66.0 (2)		
		eL	23 04 22	LZ	17	98.0 (2)		
		eL	23 04 22	LR	17	74.0 (2)		
		eL	23 04 22	LT	17	51.0 (2)		
22	DH	eP	22 22 28.0	Z	1.0	0.9 (0)	124.0	
		e	22 23 49	Z	1.0	0.9 (0)		
		e	22 42 55	LR	35	24.0 (1)		
		eLQ	22 58 18	LR	36	40.0 (1)		
		eLR	23 03 13	LZ	27	47.0 (1)		
		eL	23 13 05	LZ	21	96.0 (1)		
		eL	23 13 05	LR	21	77.0 (1)		
		eL	23 13 05	LT	20	40.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	SJ	eL	22 54 05	LT	18	35.0 (2)	110.0	5.54
						AVG.		
22	23 15	46.1	05.0 S 151.3 E				NEW BRITAIN	
			H = 065 KM					
22	23 29	14.0	36.8 N 096.0 E				CHINGHAI PROVINCE, CHINA	
			H = 025 KM					
23	00 53	02.9	37.2 N 095.8 E				CHINGHAI PROVINCE, CHINA	
			H = 039 KM					
23	01 42	12.2	37.1 N 096.0 E				CHINGHAI PROVINCE, CHINA	
			H = 050 KM					
23	WI	eP	01 55 39.5	Z	1.2	11.0 (0)	98.0	5.36
23	MV	eP	01 55 42.5	Z	1.0	5.9 (0)	98.0	5.17
						AVG.		5.26
23	CP	eP	02 14 03.2	Z	0.2	6.6 (0)	1.2	
		eS	02 14 18	R	0.3	12.0 (0)		
23	MN	eP	03 57 10.0	Z	1.2	14.0 (0)		
23	WI	eP	03 57 14.0	Z	1.0	6.5 (0)		
23	CP	eP	03 57 15.7	Z	1.1	11.0 (0)		
23	TF	eL	04 25 50	LZ	25	24.0 (1)		
23	MV	eL	04 26 55	LT	25	46.0 (1)		
23	WI	eL	04 27 20	LZ	30	24.0 (1)		
23	MN	eL	04 27 35	LZ	25	27.0 (1)		
23	CP	eL	04 28 00	LZ	25	21.0 (1)		
23	CP	eL	04 30 00	LZ	20	32.0 (1)		
23	CP	eL	04 30 00	LT	20	26.0 (1)		
23	WI	eL	04 30 00	LZ	22	28.0 (1)		
23	WI	eL	04 30 00	LR	20	14.0 (1)		
23	WI	eL	04 30 00	LT	20	21.0 (1)		
23	FM	eL	04 30 00	LZ	30	23.0 (1)		
23	FM	eL	04 32 00	LZ	25	20.0 (1)		
23	FM	eL	04 32 00	LR	25	18.0 (1)		
23	FM	eL	04 32 00	LT	25			
23	TF	eL	04 32 20	LZ	20	48.0 (1)		
23	TF	eL	04 32 20	LR	20	24.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	TF	eL	04 32 20	LT	20			
23	MN	eL	04 35 00	LZ	18	48.0 (1)		
23	MN	eL	04 35 00	LR	20	28.0 (1)		
23	MN	eL	04 35 00	LT	20	38.0 (1)		
23	05 03	47.0	05.4 S 151.9 E	NEW BRITAIN				
			H =055 KM					
23	06 34	00.4	05.4 S 152.0 E	NEW BRITAIN				
			H =070 KM					
23	MV	eP	06 47 00.0	Z	1.5	20.0 (0)	92.0	5.23
		eL	07 17 50	LZ	28	82.0 (1)		
		eL	07 22 20	LZ	21	43.0 (1)		
		eL	07 22 20	LR	20	37.0 (1)		
		eL	07 22 20	LT	21	41.0 (1)		
23	MN	eP	06 47 12.5	Z	1.2	17.0 (0)	94.0	5.32
		eL	07 17 25	LZ	28	30.0 (1)		
		eL	07 21 00	LZ	22	41.0 (1)		
		eL	07 21 00	LR	20	28.0 (1)		
		eL	07 21 00	LT	20	19.0 (1)		
23	WI	eP	06 47 16.7	Z	1.0	11.0 (0)	95.0	5.34
		eL	07 19 15	LZ	27	22.0 (1)		
		eL	07 20 00	LZ	20	42.0 (1)		
		eL	07 20 00	LR	20	28.0 (1)		
		eL	07 20 00	LT	20	14.0 (1)		
23	CP	eP	06 47 18.5	Z	1.3	17.0 (0)	95.0	5.32
		eLR	07 15 40	LZ	15	49.0 (1)		
		eL	07 18 00	LZ	25	42.0 (1)		
		eL	07 20 00	LZ	22	42.0 (1)		
		eL	07 20 00	LT	22	35.0 (1)		
23	LC	ePKKP	07 04 16.5	Z	1.0	4.8 (0)	102.0	
		eL	07 18 05	LT	17	39.0 (1)		
		eLR	07 21 50	LZ	30	23.0 (1)		
		eL	07 28 00	LZ	20	29.0 (1)		
		eL	07 28 00	LR	20	23.0 (1)		
		eL	07 28 00	LT	20	21.0 (1)		
23	TF	eLQ	07 13 43	LZ	22	14.0 (2)	91.0	
		eLR	07 17 10	LZ	22	48.0 (1)		
		eL	07 22 00	LZ	21	48.0 (1)		
		eL	07 22 00	LR	20	72.0 (1)		
		eL	07 22 00	LT	20			
23	SJ	eL	07 17 50	LZ	25	27.0 (1)	109.0	
23	FM	eLR	07 19 35	LZ	30	23.0 (1)	98.0	
		eL	07 22 20	LZ	24	29.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	07 22 20	LR	25	18.0 (1)		
		eL	07 22 20	LT	25			
23	DH	eLR	07 33 55	LZ	32	24.0 (1)	114.0	
		eL	07 40 00	LZ	22	28.0 (1)		
		eL	07 40 00	LR	20	16.0 (1)		
		eL	07 40 00	LT	20	14.0 (1)		
							AVG.	5.30
23	06 43	28.0	04.9 S 150.8 E	NEW BRITAIN				
			H =044 KM					
23	MN	eP	06 56 43.4	Z	1.5	17.0 (0)	94.0	5.20
23	07 10	51.7	07.3 S 128.4 E	BANDA SEA				
			H =025 KM					
23	CP	eP	07 14 51.1	Z	0.4	0.9 (0)	2.6	
		e	07 15 00	Z	0.4	34.0 (0)		
		eS	07 15 24	R	0.5	55.0 (0)		
23	TF	eP	07 22 18.5	Z	0.2	45.0 (0)	1.9	
		eS	07 22 23	T	0.3	43.0 (0)		
23	WI	eP	08 25 37.0	Z	0.7	1.1 (0)		
23	LC	eP	08 27 23.0	Z	0.7	2.4 (0)		
23	08 19	00.7	25.4 S 179.3 W	KERMADEC ISLANDS REGION				
			H =363 KM					
23	CP	eP	08 30 50.7	Z	1.0	14.0 (0)	84.0	4.68
23	TF	eP	08 30 51.0	Z	0.8	11.0 (0)	84.0	4.68
23	MV	eP	08 30 54.1	Z	1.0	18.0 (0)	85.0	4.86
23	MN	eP	08 31 00.6	Z	0.9	8.6 (0)	86.0	4.58
		epP	08 32 39	Z	1.1	4.6 (0)		
23	WI	eP	08 31 11.5	Z	1.0	11.0 (0)	88.0	4.68
		epP	08 32 52	Z	1.0	4.3 (0)		
23	FM	eP	08 31 21.7	Z	1.0	20.0 (0)	90.0	4.94
23	LC	eP	08 31 23.0	Z	1.0	12.0 (0)	91.0	4.78
		epP	08 33 05	Z	1.0	4.8 (0)		
							AVG.	4.74
23	DH	eP	13 52 34.5	Z	0.4	18.0 (0)	1.8	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	13 52 59	R	0.4	16.0 (1)		
23	CP	eP	14 34 09.3	Z	0.2	8.1 (0)	1.1	
		eS	14 34 24	R	0.3	12.0 (0)		
23	DH	eP	17 06 48.5	Z	0.2	12.0 (0)	1.2	
		eS	17 07 04	R	0.4	34.0 (0)		
23	FM	eP	17 13 16.8	Z	0.5	7.2 (0)	2.1	
		eS	17 13 44	R	0.5	20.0 (0)		
23	LC	eP	18 09 41.0	Z	0.8	1.5 (0)		
23	WI	eP	18 27 58.5	Z	1.5	14.0 (0)		
23	MN	eP	18 28 11.4	Z	1.0	3.5 (0)		
23	TF	eL	18 56 15	LR	23	80.0 (1)		
23	TF	eL	18 57 30	LR	23	80.0 (1)		
23	TF	eL	18 57 30	LZ	20	40.0 (1)		
23	TF	eL	18 57 30	LT	21			
23	MN	eP	20 41 34.5	Z	0.9	2.9 (0)		
23	20 48 03.3		48.2 S 119.4 E				SOUTH OF AUSTRALIA	
			H =025 KM					
23	21 04 19.1		49.1 S 121.3 E				SOUTH OF AUSTRALIA	
			H =025 KM					
23	CP	eP	21 29 48.2	Z	0.3	2.7 (0)	4.0	
		eS	21 30 35	T	0.5	4.2 (0)		
23	NG	eP	21 41 31.5	Z	1.0	36.0 (0)		
23	CP	eP	22 15 53.3	Z	0.3	5.4 (0)	0.7	
		eS	22 16 04	R	0.4	30.0 (0)		
24	SJ	eLR	02 07 50	LZ	20	36.0 (1)		
24	SJ	eL	02 07 57	LT	20	39.0 (1)		
24	SJ	eL	02 07 57	LZ	20	36.0 (1)		
24	02 11 35.8		05.4 S 151.9 E				NEW BRITAIN	
			H =055 KM					
24	MN	eP	02 24 49.5	Z	1.0	11.0 (0)	94.0	5.20
		eLR	02 55 15	LZ	30	37.0 (1)		
		eL	03 01 30	LZ	20	50.0 (1)		
		eL	03 01 30	LR	20	54.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	WI	eL	03 01 30	LT	17	39.0 (1)		
		eP	02 24 54.0	Z	1.0	6.4 (0)	95.0	5.00
		eLR	02 56 10	LZ	25	20.0 (1)		
		eL	03 01 44	LT	20	27.0 (1)		
		eL	03 01 44	LR	20	68.0 (0)		
24	TF	eL	03 01 44	LZ	20	28.0 (1)		
		eL	02 54 50	LZ	25	30.0 (1)	95.0	
		eL	03 00 35	LT	17			
		eL	03 00 35	LR	18	52.0 (1)		
		eL	03 00 35	LZ	18	71.0 (1)		
24	CP	eL	02 55 49	LZ	25	42.0 (1)	94.0	
24	FM	eLR	02 59 05	LZ	25	30.0 (1)	98.0	
		eL	03 00 12	LZ	20	20.0 (1)		
		eL	03 00 12	LR	25	28.0 (1)		
		eL	03 00 12	LT	22	21.0 (1)		
24	LC	eLR	03 00 30	LZ	25	19.0 (1)	106.0	
		eL	03 09 17	LR	17	30.0 (1)		
		eL	03 09 17	LT	17	26.0 (1)		
		eL	03 09 17	LZ	19	42.0 (1)		
							AVG.	5.10
24	LC	eP	03 17 39.6	Z	0.8	6.0 (0)		
24	04 24 49.8		49.1 N 129.4 W				VANCOUVER ISLAND REGION	
			H =025 KM					
24	MV	eP	04 27 35.5	Z	1.3	95.0 (0)	12.0	5.79
		eP	04 27 40	LZ	17	28.0 (1)		
		eLQ	04 29 32	LT	30	21.0 (1)		
		eL	04 30 30	LT	25	17.0 (1)		
		eL	04 30 30	LR	18	42.0 (1)		
		eL	04 30 30	LZ	25	44.0 (1)		
24	WI	eP	04 27 36.4	Z	1.0	43.0 (0)	12.0	4.56
		eLQ	04 29 57	LT	32	39.0 (2)		
		eL	04 32 07	LT	16	52.0 (2)		
		eL	04 32 07	LR	15	37.0 (2)		
		eL	04 32 07	LZ	15	98.0 (1)		
24	MN	eP	04 28 02.2	Z	1.2	20.0 (0)	13.0	5.05
		eP	04 28 05	LZ	15	21.0 (1)		
		eS	04 30 37	LT	16	28.0 (2)		
		eS	04 30 37	LR	16	12.0 (2)		
		eLQ	04 31 20	LT	30	43.0 (2)		
		eL	04 31 50	LT	20	37.0 (2)		
		eL	04 31 50	LR	20	12.0 (2)		
24	TF	eP	04 28 31.2	Z	1.0	34.0 (0)	16.0	4.46

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
				LZ	12	54.0 (1)		
				LR	30	56.0 (2)		
		eP	04 28 35	LT	25			
		eS	04 31 25	LR	22	79.0 (2)		
		eL	04 32 45	LZ	25	21.0 (2)		
		eL	04 32 45	LT	20			
		eL	04 32 45	Z	1.0	20.0 (0)	16.0	4.22
24	FM	eP	04 28 37.3	LR	22	14.0 (2)		
		eS	04 31 45	LT	15	33.0 (1)		
		eS	04 31 45	LR	25	23.0 (2)		
		eL	04 32 34	LZ	25	30.0 (1)		
		eL	04 32 34	LT	25	42.0 (1)		
		eL	04 32 34	Z	1.5	61.0 (0)	19.0	4.63
24	CP	eP	04 29 13.7	LZ	12	57.0 (1)		
		eP	04 29 14	LT	20	19.0 (2)		
		eS	04 32 54	LR	17	10.0 (2)		
		eS	04 32 54	LT	17	22.0 (2)		
		eLQ	04 36 21	LT	17	27.0 (2)		
		eL	04 36 39	LR	20	80.0 (1)		
		eL	04 36 39	LZ	17	14.0 (2)		
		eL	04 36 39	Z	1.0	10.0 (0)	28.0	4.55
24	LC	eP	04 30 03.8	LT	15	13.0 (2)		
		eS	04 34 30	LR	17	74.0 (1)		
		eS	04 34 30	LT	30	21.0 (2)		
		eLQ	04 36 25	LT	22	18.0 (2)		
		eL	04 37 32	LR	22	10.0 (2)		
		eL	04 37 32	LZ	17	37.0 (1)		
		eL	04 37 32	Z	1.0	18.0 (0)	28.0	4.80
24	NG	eP	04 30 40.0	LT	20	55.0 (1)		
		eS	04 35 34	LR	20	82.0 (1)		
		eS	04 35 34	LR	16	17.0 (2)		
		eL	04 41 55	LT	15	15.0 (2)		
		eL	04 41 55	Z	1.0	18.0 (0)	38.0	4.80
24	DH	eP	04 32 12.5	LZ	25	76.0 (1)		
		eLR	04 44 50	LZ	15	40.0 (2)		
		eL	04 47 55	LR	17	23.0 (2)		
		eL	04 47 55	LT	15	20.0 (2)		
		eL	04 47 55	LT	20	24.0 (2)	38.0	
24	SJ	eLQ	04 41 00	LT	25	36.0 (2)		
		eL	04 43 20	LZ	17	46.0 (1)		
		eL	04 43 20	AVG.				4.75
24	CP	eP	05 04 50.7	Z	0.3	58.0 (0)	0.6	
		eS	05 04 59	T	0.4	12.0 (1)		
24	07 11 59.5		18.7 S 173.2 W				TONGA ISLANDS	
			H = 025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	MN	eP	07 23 51.8	Z	1.0	5.0 (0)	77.0	4.52
24	WI	eP	07 24 04.4	Z	1.0	4.3 (0)	79.0	4.38
24	LC	eP	07 24 18.3	Z	0.8	3.0 (0)	80.0	4.25
						AVG.		4.38
24	WI	eP	14 13 13.0	Z	1.2	14.0 (0)		
24	MV	eP	14 13 13.0	Z	1.0	7.6 (0)		
24	MN	eP	14 13 40.1	Z	1.0	7.0 (0)		
24	WI	eL	14 15 33	LR	27	65.0 (1)		
24	LC	eP	14 15 42.1	Z	0.7	1.2 (0)		
24	MN	e	14 16 25	LT	15	55.0 (1)		
24	MV	eLR	14 16 35	LZ	17	45.0 (1)		
24	FM	eLQ	14 18 10	LR	25	46.0 (1)		
24	MN	eL	14 22 05	LT	30	71.0 (1)		
24	LC	eP	21 46 06.5	Z	0.3	3.0 (0)	1.5	
		eS	21 46 27	T	0.4	16.0 (0)		
25	00 48 57.1		58.6 N 031.5 W				SOUTH OF GREENLAND	
			H = 025 KM					
25	01 07 09.6		59.0 N 031.2 W				SOUTH OF GREENLAND	
			H = 025 KM					
25	01 09 58.1		05.6 S 152.2 E				NEW BRITAIN	
			H = 025 KM					
25	04 19 57.0		20.7 S 174.3 W				TONGA ISLANDS	
			H = 281 KM					
25	MN	eL	04 24 00	LZ	26	14.0 (1)		
25	MN	eP	06 50 10.6	Z	0.3	13.0 (0)	0.1	
		eS	06 50 14	R	0.3	41.0 (0)		
25	07 05 32.3		18.4 S 168.4 E				NEW HEBRIDES ISLANDS	
			H = 067 KM					
25	TF	eP	07 18 09.5	Z	0.9	13.0 (0)	87.0	5.03
25	MV	eP	07 18 10.0	Z	0.9	15.0 (0)	88.0	5.12

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	CP	eP	07 18 18.3	Z	0.9	6.8 (0)	89.0	4.78
25	MN	eP	07 18 22.4	Z	0.9	11.0 (0)	90.0	5.28
25	WI	eP	07 18 27.5	Z	0.8	11.0 (0)	91.0	5.17
25	FM	eP	07 18 43.5	Z	0.7	1.6 (0)	95.0	4.56
25	LC	eP	07 18 52.9	Z	0.7	1.2 (0)	96.0	4.53
							AVG.	4.92
25	WI	eP	07 32 13.5	Z	0.8	2.1 (0)		
25	SJ	eP	08 27 28.0	Z	1.0	39.0 (0)		
25	09 40 33.9		05.4 S 151.7 E				NEW BRITAIN	
			H =129 KM					
25	MN	eP	09 53 37.1	Z	0.8	8.4 (0)	94.0	5.14
25	WI	eP	09 53 41.0	Z	1.4	11.0 (0)	94.0	4.71
							AVG.	4.93
25	MN	eL	10 00 20	LZ	28	15.0 (1)		
25	CP	eP	10 35 13.3	Z	0.4	46.0 (0)		
25	CP	eP	10 40 55.9	Z	0.3	18.0 (0)	0.8	
		eS	10 41 08	R	0.5	62.0 (0)		
25	SJ	eP	11 31 00.5	Z	1.0	59.0 (0)		
25	LC	eP	11 32 23.4	Z	0.8	3.1 (0)		
25	DH	eP	11 33 01.2	Z	0.7	9.4 (0)		
25	FM	eP	11 33 29.4	Z	0.7	1.6 (0)		
25	MN	eP	11 33 59.5	Z	0.8	8.4 (0)		
25	WI	eP	11 34 11.2	Z	0.7	1.1 (0)		
25	11 35 07.6		38.0 N 095.9 E				CHINGHAI PROVINCE, CHINA	
			H =025 KM					
25	WI	eP	11 48 32.0	Z	0.9	1.8 (0)	95.0	4.51
		eL	12 23 00	LZ	30	39.0 (1)		
		eL	12 25 00	LZ	22	20.0 (1)		
		eL	12 25 00	LR	21	67.0 (0)		
		eL	12 25 00	LT	22	26.0 (0)		
25	MV	eP	11 48 33.3	Z	0.8	2.4 (0)	95.0	4.68
25	TF	eL	12 20 43	LZ	25	39.0 (1)	100.0	
		eL	12 24 40	LZ	20	79.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	MN	eL	12 24 40	LR	20	40.0 (1)		
		eL	12 22 05	LZ	29	52.0 (2)	97.0	
		eL	12 25 00	LZ	22	55.0 (2)		
		eL	12 25 00	LR	21	26.0 (1)		
		eL	12 25 00	LT	22	38.0 (1)		
25	FM	eLR	12 25 00	LZ	30	37.0 (1)	98.0	
		eL	12 27 00	LZ	22	32.0 (1)		
		eL	12 27 00	LR	23	29.0 (1)		
							AVG.	4.60
25	DH	eP	12 11 21.5	Z	1.0	18.0 (0)		
25	SJ	eP	13 38 15.2	Z	0.9	48.0 (0)		
25	14 19 38.9		30.9 S 177.2 W				KERMADEC ISLANDS	
			H =025 KM					
25	TF	eP	14 32 20.5	Z	0.8	3.3 (0)	86.0	4.47
25	CP	eP	14 32 22.6	Z	0.8	3.8 (0)	87.0	4.63
25	MV	eP	14 32 29.0	Z	1.0	8.0 (0)	88.0	4.96
25	WI	eP	14 32 46.1	Z	1.0	4.4 (0)	90.0	4.62
25	LC	eP	14 32 52.9	Z	0.8	1.5 (0)	93.0	4.45
							AVG.	4.63
25	CP	eP	14 47 39.7	Z	0.3	7.2 (0)	0.6	
		eS	14 47 49	R	0.3	12.0 (0)		
25	14 49 11.2		02.5 S 079.1 W				ECUADOR	
			H =079 KM					
25	SJ	eP	14 56 04.0	Z	1.0	39.0 (0)	36.0	5.27
25	LC	eP	14 57 08.9	Z	0.7	2.5 (0)	44.0	4.06
25	DH	eP	14 57 18.0	Z	0.8	24.0 (0)	45.0	5.02
25	NG	eP	14 57 47.2	Z	0.8	11.0 (0)	48.0	4.80
25	FM	eP	14 58 11.5	Z	0.9	5.1 (0)	52.0	4.53
25	TF	eP	14 58 21.3	Z	0.8	3.3 (0)	53.0	4.39
25	MN	eP	14 58 33.6	Z	0.7	6.7 (0)	54.0	4.78
25	WI	eP	14 59 05.2	Z	1.3	9.2 (0)	59.0	4.65
25	MV	eP	14 59 10.0	Z	1.0	3.8 (0)	60.0	4.46
							AVG.	4.66
25	MV	eP	16 55 55.2	Z	0.9	3.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	WI	eP	16 56 14.6	Z	0.9	3.6 (0)		
25	17 21	57.6	24.1 S 179.1 E	FIJI ISLANDS REGION				
			H = 576 KM					
25	MV	eP	17 33 33.8	Z	0.8	4.8 (0)	85.0	4.18
25	WI	eP	17 33 52.1	Z	0.5	2.6 (0)	89.0	5.32
25	FM	eP	17 34 02.8	Z	0.7	4.5 (0)	91.0	5.08
25	LC	eP	17 34 05.1	Z	0.8	3.1 (0)	91.0	4.27
		epP	17 36 12.9	Z	1.3	10.0 (0)		
				AVG.				4.71
25	CP	eP	18 38 35.3	Z	0.7	3.0 (0)		
25	LC	eP	19 14 10.7	Z	0.2	2.0 (0)	2.5	
		e	19 14 15	Z	0.4	4.0 (0)		
		eS	19 14 43	R	0.4	4.0 (0)		
25	DH	eP	19 48 31.5	Z	1.0	37.0 (0)		
25	NG	eP	19 55 57.7	Z	0.3	5.8 (0)	0.9	
		eS	19 56 08	R	0.4	27.0 (0)		
25	FM	eP	20 02 48.5	Z	0.2	7.6 (0)	1.5	
		eS	20 03 07	R	0.4	9.3 (0)		
25	DH	eP	20 08 48.9	Z	0.5	27.0 (0)	1.9	
		eS	20 09 14	R	0.5	66.0 (0)		
25	NG	eP	20 12 20.3	Z	0.9	14.0 (0)		
25	LC	eP	21 07 33.3	Z	0.2	4.8 (0)	0.6	
		eS	21 07 53	R	0.5	9.2 (0)		
25	21 28	28.1	24.3 S 065.2 W	JUJUY PROVINCE, ARGENTINA				
			H = 069 KM					
25	DH	eP	21 39 26.5	Z	0.6	39.0 (0)	68.0	5.54
25	LC	eP	21 39 29.3	Z	0.6	5.1 (0)	70.0	4.62
		eP AS	21 39 55.7	Z	0.7	5.1 (0)		4.56
25	NG	eP	21 39 58.1	Z	0.7	9.0 (0)	74.0	4.77
		ePCP	21 40 12.5	Z	1.0	45.0 (0)		
25	CP	eP	21 40 03.8	Z	0.6	5.9 (0)	75.0	4.65
		eP AS	21 40 30.0	Z	0.7	3.0 (0)		4.29
25	FM	eP	21 40 19.1	Z	0.7	9.6 (0)	78.0	4.78
		eP AS	21 44 45.1	Z	0.7	6.1 (0)		4.63
25	TF	eP	21 40 26.5	Z	999.9	99.9 (9)	75.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	WI	eP AS	21 40 53.5	Z	0.8	6.3 (0)		
		eP	21 40 41.2	Z	0.8	28.0 (0)		
		eP AS	21 41 08.5	Z	0.7	9.1 (0)	82.0	4.56
25	MV	eP	21 40 44.5	Z	0.8	5.0 (0)	83.0	4.81
		AS					AVG.	4.59
							AVG.	4.88
							AVG.	4.57
25	FM	eP	22 50 29.3	Z	0.3	12.0 (0)	1.4	
		eS	22 50 48	R	0.3	41.0 (0)		
25	CP	eP	23 11 44.9	Z	0.3	3.6 (0)	1.5	
		eS	23 12 03	T	0.3	6.2 (0)		
26	WI	eP	02 07 52.0	Z	1.0	4.4 (0)		
26	02 13	04.8	19.7 S 178.0 W	FIJI ISLANDS				
			H = 600 KM					
26	TF	eP	02 24 01.0	Z	1.0	8.6 (0)	78.0	4.13
26	CP	eP	02 24 07.0	Z	1.0	5.6 (0)	79.0	3.95
26	MV	eP	02 24 10.0	Z	1.0	6.6 (0)	80.0	4.02
		e	02 50 08	R	2.0	50.0 (0)		
26	MN	eP	02 24 18.0	Z	0.9	4.0 (0)	81.0	3.85
		epP	02 26 22	Z	1.2	6.9 (0)		
		eP'P'	02 50 42	Z	1.3	6.9 (0)		
26	WI	eP	02 24 28.7	Z	0.9	5.3 (0)	83.0	4.07
		epP	02 26 53	Z	1.3	9.1 (0)		
		eP'P'	02 50 30	Z	1.3	9.1 (0)		
26	LC	eP	02 24 44.3	Z	1.2	12.0 (0)	86.0	4.50
		epP	02 26 50	Z	1.0	2.4 (0)		
		eSKPP'	02 53 05	Z	1.8	26.0 (0)		
				AVG.				4.09
26	LC	eP	03 20 12.7	Z	0.4	7.9 (0)	1.9	
		eS	03 20 38	R	0.5	27.0 (0)		
26	MN	eP	04 52 58.3	Z	0.3	3.2 (0)	1.3	
		eS	04 53 15	Z	0.4	11.0 (0)		
26	MN	eL	05 35 03	LZ	25	19.0 (1)		
26	MN	eL	05 40 00	LZ	21	24.0 (1)		
26	MN	eL	05 40 00	LR	20	19.0 (1)		
26	MN	eL	05 40 00	LT	20	27.0 (1)		
26	MN	eP	06 54 30.2	Z	1.0	3.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	WI	eP	06 54 53.4	Z	1.0	2.2 (0)		
26	LC	eP	07 35 54.0	Z	1.0	7.2 (0)		
26	CP	eP	07 36 20.0	Z	1.0	2.8 (0)		
26	TF	eP	07 37 06.3	Z	1.0	17.0 (0)		
26	FM	eP	07 37 22.0	Z	1.0	20.0 (0)		
26	MN	eP	07 37 27.8	Z	1.0	12.0 (0)		
26	WI	eP	07 37 53.0	Z	0.9	3.5 (0)		
26	MV	eP	07 37 57.1	Z	0.8	2.1 (0)		
26	LC	e	07 39 16	LR	18	83.0 (1)		
26	LC	e	07 40 20	LZ	16	82.0 (1)		
26	CP	e	07 40 32	LZ	22	83.8 (1)		
26	MN	e	07 41 28	Z	1.3	6.8 (0)		
26	WI	e	07 41 32	Z	1.0	4.4 (0)		
26	MN	e	07 43 00	LZ	26	25.0 (1)		
26	MN	e	07 43 00	LR	25	19.0 (1)		
26	FM	e	07 43 16	LZ	23	31.0 (1)		
26	MV	e	07 45 25	LT	20	24.0 (0)		
26	WI	eL	07 46 10	LZ	18	30.0 (1)		
26	MV	eL	08 10 00	LZ	23	20.0 (0)		
26	TF	eP	08 10 25.7	Z	0.2	21.0 (0)	1.3	
		eS	08 10 42	R	0.3	21.0 (0)		
26	MN	eP	08 11 01.3	Z	0.2	2.7 (0)	3.3	
26	MN	eL	08 11 05	LZ	25	14.0 (1)		
26	MN	eS	08 11 43	R	0.5	1.3 (0)	3.3	
26	WI	eL	08 12 22	LZ	25	13.0 (0)		
26	MV	eL	08 13 00	LZ	24	20.0 (0)		
26	MV	eL	08 13 00	LR	20	9.0 (0)		
26	MV	eL	08 13 00	LT	24	24.0 (0)		
26	WI	eL	08 15 00	LZ	21	20.0 (0)		
26	WI	eL	08 15 00	LT	25	20.0 (0)		
26	MN	eL	08 17 14	LZ	20	19.0 (1)		
26	MN	eL	08 17 14	LR	18	32.0 (1)		
26	MN	eL	08 17 14	LT	19	17.0 (1)		
26	CP	eP	08 23 07.5	Z	0.2	3.4 (0)	1.6	
		eS	08 23 29	R	0.3	1.8 (0)		
26	MN	eP	09 07 16.4	Z	0.2	3.3 (0)	1.1	
		eS	09 07 31	R	0.4	10.0 (1)		
26	MV	eP	09 43 02.4	Z	0.8	4.2 (0)		
26	WI	eP	09 43 07.2	Z	0.8	4.4 (0)		
26	MN	eP	09 43 21.2	Z	0.8	1.0 (0)		
26	LC	eP	09 44 44.5	Z	0.9	1.9 (0)		
26	DH	eP	09 45 56.4	Z	0.6	12.0 (0)		
26	TF	eP	10 04 26.4	Z	0.9	7.0 (0)		
26	MV	eP	10 04 27.4	Z	1.0	6.6 (0)		
26	WI	eP	10 04 38.3	Z	0.9	1.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	MN	eP	10 04 39.3	Z	1.0	5.0 (0)		
26	LC	eP	10 21 08.7	Z	1.0	4.8 (0)		
26	WI	e	10 32 43	LR	20	4.0 (0)		
26	MV	eL	10 33 52	LT	34	42.0 (0)		
26	WI	eL	10 35 10	LZ	35	20.0 (1)		
26	FM	eL	10 38 00	LZ	25	21.0 (1)		
26	MV	eL	10 39 15	LZ	23	15.0 (0)		
26	MV	eL	10 39 15	LT	24	38.0 (0)		
26	MV	eL	10 39 15	LR	20	27.0 (0)		
26	WI	eL	10 41 40	LZ	22	45.0 (0)		
26	WI	eL	10 41 40	LR	21	20.0 (1)		
26	WI	eL	10 41 40	LT	22	41.0 (0)		
26	FM	eL	10 43 50	LZ	21	21.0 (1)		
26	FM	eL	10 43 50	LR	21	98.0 (0)		
26	FM	eL	10 43 50	LT	22	20.0 (1)		
26	LC	eL	10 45 00	LZ	23	48.0 (1)		
26	LC	eL	10 48 00	LZ	21	29.0 (1)		
26	LC	eL	10 48 00	LR	18	31.0 (1)		
26	LC	eL	10 48 00	LT	18	11.0 (1)		
26	12 51	01.4	43.2 S 075.6 W				OFF COAST SOUTHERN CHILE	
			H = 038 KM					
26	LC	eP	13 03 12.4	Z	1.0	7.2 (0)	81.0	4.58
26	DH	eP	13 03 37.3	Z	0.7	9.6 (0)	86.0	4.96
26	TF	eP	13 03 51.5	Z	1.0	17.0 (0)	89.0	5.23
26	FM	eP	13 03 53.7	Z	1.0	20.0 (0)	89.0	4.26
26	NG	eP	13 03 55.7	Z	0.9	28.0 (0)	89.0	5.45
26	MN	eP	13 04 00.6	Z	1.0	10.0 (0)	89.0	4.96
26	WI	eP	13 04 10.2	Z	0.9	3.5 (0)	93.0	4.75
							AVG.	4.88
26	WI	eP	16 57 42.2	Z	1.0	4.4 (0)		
26	LC	eP	18 11 53.3	Z	0.6	1.0 (0)		
26	19 44	17.5	06.7 N 094.6 E				NICOBAR ISLANDS	
			H = 060 KM					
26	MV	eP†	20 03 11.3	Z	0.7	15.0 (0)	125.0	
26	WI	eP†	20 03 12.6	Z	0.9	18.0 (0)	124.0	
		e	20 03 39	Z	0.9	5.3 (0)		
		ePP	20 05 04	Z	1.0	6.5 (0)		
26	TF	eP†	20 03 12.9	Z	0.8	11.0 (0)	127.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	MN	eP ⁰	20 03 15.9	Z	0.7	14.0 (1)	127.0	
26	NG	eP ⁰	20 03 18.7	Z	0.9	28.0 (0)	128.0	
26	CP	eP ⁰	20 03 18.8	Z	0.6	2.4 (0)	131.0	
		eSKP	20 06 39	Z	0.7	11.0 (0)		
26	FM	eP ⁰	20 03 20.8	Z	0.6	17.0 (0)	128.0	
26	DH	eP ⁰	20 03 24.0	Z	0.8	12.0 (0)	130.0	
		eSKP	20 06 36.0	Z	0.8	82.0 (0)		
26	LC	eP ⁰	20 03 24.6	Z	0.8	1.5 (0)	136.0	
		eSKP	20 06 56	Z	1.0	2.4 (0)		
26	SJ	eP ⁰	20 03 47.4	Z	0.7	5.9 (0)	143.0	
26	LC	eP	21 11 22.6	Z	0.7	2.4 (0)		
26	MN	eP	22 56 32.1	Z	0.5	30.0 (0)	2.0	
		eS	22 56 58	R	0.5	3.1 (0)		
27	01 45 34.7		31.7 N 115.6 W			BAJA CALIFORNIA NORTE		
			H =025 KM	MAG	5.50-	PAS		
27	CP	eP	01 45 54.3	LZ	999.9	99.9 (9)	1.1	
		eL	01 45 55	LT	15	92.0 (2)		
		eL	01 45 55	LR	999.9	99.9 (9)		
		eL	01 45 55	LZ	999.9	99.9 (9)		
27	TF	eP	01 46 51.6	Z	0.3	24.0 (0)	5.0	5.20
		eL	01 48 10	LR	18	39.0 (2)		
		eL	01 48 10	LZ	14	15.0 (2)		
27	MN	eP	01 47 18.3	Z	1.3	5.3 (0)	7.0	4.44
		e	01 47 42	Z	1.0	36.0 (0)		
		eL	01 49 00	LR	16	15.0 (2)		
		eL	01 49 00	LZ	17	12.0 (2)		
		eL	01 49 00	LT	11	3.5 (0)		
		eLG	01 49 09	R	1.0	73.0 (0)		
27	LC	eP	01 47 32.9	Z	0.9	2.8 (0)	8.0	4.29
		eL	01 49 46	LZ	25	43.0 (1)		
		eL	01 49 46	LR	25	24.0 (1)		
		eL	01 49 46	LT	21	30.0 (1)		
		eL	01 49 52	R	0.7	7.3 (0)		
27	FM	eP	01 47 42.7	Z	0.6	2.1 (0)	9.0	4.97
		eL	01 48 52	LT	17	22.0 (2)		
		eL	01 48 52	LZ	20	21.0 (1)		
		eL	01 48 52	LR	17	88.0 (1)		
		eL	01 49 58	Z	1.0	15.0 (0)		
27	MV	eP	01 47 52.0	Z	0.5	1.8 (0)	10.0	4.68
		eLR	01 50 00	Z	1.0	19.0 (0)		
		eL	01 50 10	R	1.0	27.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	01 50 10	Z	1.4	74.0 (0)		
		eL	01 50 10	T	1.2	29.0 (0)		
27	WI	eP	01 47 57.8	Z	0.9	6.0 (0)	10.0	4.95
		eLR	01 50 27	LZ	25	32.0 (1)		
		eLQ	01 50 36	T	1.0	15.0 (0)		
		eLR	01 50 50	Z	1.2	50.0 (0)		
		eL	01 51 40	LZ	20	58.0 (1)		
		eL	01 51 40	LT	15	95.0 (1)		
		eL	01 51 40	LR	20	61.0 (1)		
							AVG.	4.75
27	CP	eP	02 33 37.4	Z	0.3	7.3 (0)	1.5	
		eS	02 33 57	T	0.3	25.0 (0)		
27	CP	eP	03 10 48.1	Z	0.2	4.9 (0)	0.8	
27	CP	eS	03 10 59	T	0.3	6.2 (0)		
27	CP	eP	03 30 12.1	Z	0.2	3.0 (0)	0.6	
		eS	03 30 22	T	0.2	12.0 (0)		
27	MN	eP	06 21 23.7	Z	0.3	2.2 (0)	1.0	
		eS	06 21 37	R	0.3	8.4 (0)		
27	WI	eP	06 45 41.1	Z	0.7	2.1 (0)		
27	WI	e	06 47 05	R	0.7	21.0 (0)		
27	CP	eP	13 27 03.6	Z	0.3	4.3 (0)	2.6	
		eS	13 27 37	T	0.3	6.2 (0)		
27	05 30 44.4		03.2 S 129.5 E			CERAM		
			H =082 KM					
27	14 33 03.7		41.4 S 080.6 E			KERGUELEN ISLANDS		
			H =025 KM					
27	WI	eP ⁰ 1	14 53 13.8	Z	1.2	3.4 (0)	166.0	
27	MN	eP ⁰ 1	14 53 18.4	Z	1.0	2.6 (0)	165.0	
27	MN	eL	15 51 20	LZ	30	17.0 (1)		
27	FM	eL	15 54 56	LZ	28	23.0 (1)		
27	MV	eP	18 16 05.5	Z	0.3	5.2 (0)	1.4	
		eS	18 16 23	R	0.4	6.2 (0)		
27	MN	eP	18 26 10.0	Z	1.1	5.5 (0)		
27	WI	eP	19 40 19.9	Z	0.4	1.4 (0)	0.8	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	19 40 30	R	0.5	5.3 (0)		
27	LC	eP	20 33 22.6	Z	0.3	1.5 (0)	3.0	
		e	20 33 28	Z	0.3	2.2 (0)		
		eS	20 34 01	T	0.3	9.4 (0)		
28	LC	eP	00 36 54.2	Z	0.3	5.4 (0)	1.5	
		eS	00 37 14	R	0.4	9.7 (0)		
28	01 19 52.3		42.7 N 144.5 E H =018 KM					
28	MN	eP	01 31 04.7	Z	0.8	1.1 (0)	70.0	3.96
28	02 48 13.1		16.4 N 120.4 E H =025 KM					
28	FM	eP	03 41 21.1	Z	0.3	6.5 (0)	0.9	
		eS	03 41 33	R	0.4	13.8 (0)		
28	03 08 07.4		03.3 S 146.0 E H =025 KM					
28	TF	eLR	03 51 35	LZ	25	40.0 (1)	95.0	
		eL	03 58 47	LR	20	40.0 (1)		
		eL	03 58 47	LZ	20	60.6 (1)		
28	MN	eLR	03 52 22	LZ	30	78.8 (1)	96.0	
		eL	03 55 01	LR	22	50.6 (1)		
		eL	03 55 01	LT	22	40.8 (1)		
		eL	03 55 01	LZ	22	81.5 (1)		
28	WI	eLR	03 52 55	LZ	30	10.3 (2)	97.0	
		eL	03 55 05	LZ	22	75.0 (1)		
		eL	03 55 05	LR	22	14.0 (1)		
		eL	03 55 05	LT	22	74.0 (1)		
28	CP	eLR	03 53 45	LZ	25	63.6 (1)	98.0	
		eL	03 58 05	LT	22	97.0 (1)		
		eL	03 58 05	LZ	17	54.7 (1)		
		eL	03 58 05	LR	15	14.3 (2)		
28	FM	eLR	03 55 00	LZ	30	49.0 (1)	101.0	
		eL	03 58 38	LZ	22	41.7 (1)		
		eL	03 58 38	LR	22	29.6 (1)		
		eL	03 58 38	LT	20	40.3 (1)		
28	LC	eLR	03 57 40	LZ	25	28.8 (1)	106.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	04 01 45	LZ	20	38.9 (1)		
		eL	04 01 45	LR	23	36.8 (1)		
28	NG	eL	04 01 45	LT	20	20.0 (1)		
		eLR	04 04 15	LZ	30	67.0 (1)	117.0	
		eL	04 08 32	LZ	22	57.0 (1)		
		eL	04 08 32	LR	20	47.5 (1)		
		eL	04 08 32	LT	25	59.3 (1)		
28	SJ	eP	04 01 32.7	Z	1.2	96.5 (0)		
28	MN	eP	06 13 39.3	Z	0.4	1.2 (0)	0.5	
		eS	06 13 47	T	0.5	6.0 (0)		
28	CP	eP	06 42 49.7	Z	0.3	14.0 (0)	0.6	
		eS	06 42 58	T	0.4	20.9 (0)		
28	WI	eP	06 46 01.2	Z	0.7	2.2 (0)		
28	CP	eP	06 51 20.5	Z	0.4	13.3 (0)	0.7	
		eS	06 51 30	T	999.9	99.9 (9)		
28	LC	eP	08 03 57.1	Z	0.8	1.5 (0)		
28	MN	eP	08 05 26.9	Z	1.0	3.6 (0)		
28	CP	eP	08 11 02.0	Z	0.3	5.6 (0)	0.7	
		eS	08 11 12	T	0.4	13.6 (0)		
28	10 09 57.6		31.1 N 140.9 E H =158 KM					
28	WI	eP	10 21 44.0	Z	1.2	8.9 (0)	79.0	4.42
		eLR	10 46 07	LZ	30	22.0 (0)		
		eL	10 48 07	LT	20	20.4 (0)		
		eL	10 48 07	LR	20	14.1 (0)		
		eL	10 48 07	LZ	22	25.0 (0)		
28	MN	eP	10 21 48.9	Z	1.0	3.6 (0)	80.0	4.10
		eLR	10 46 30	LZ	25	24.8 (1)		
		eL	10 47 05	LR	25	18.4 (1)		
		eL	10 47 05	LZ	25	19.0 (1)		
28	TF	eLR	10 47 25	LZ	22	20.2 (1)	83.0	4.26
							AVG.	
28	CP	eP	14 45 13.3	Z	0.3	15.9 (0)	1.2	
		eS	14 45 28	T	0.4	30.0 (0)		
28	SJ	eP	16 14 21.7	Z	1.0	59.0 (0)		
28	16 07 59.8		10.8 S 165.8 E H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MV	eP	16 20 36.5	Z	0.7	5.0 (0)	85.0	4.78
28	MN	eP	16 20 47.5	Z	1.0	5.4 (0)	88.0	4.75
		eLR	16 47 40	LZ	25	14.3 (1)		
		eL	16 50 55	LR	17	17.7 (1)		
		eL	16 50 55	LT	15	16.0 (1)		
		eL	16 50 55	LZ	20	14.4 (1)		
28	LC	eLQ	16 52 12	LR	30	21.6 (1)	90.0	
		eL	16 58 05	LR	17	23.7 (1)		
		eL	16 58 05	LT	15	15.7 (1)		
28	FM	eL	16 52 52	LZ	20	10.4 (1)	91.0	
							AVG.	4.77
28	21 45 18.5		07.0 S 128.9 E					BANDA SEA
			H =065 KM					
28	LC	eP	21 47 38.7	Z	0.4	99.9 (9)	1.4	
		eS	21 47 56	T	0.5	16.8 (0)		
28	23 49 01.0		31.3 S 068.3 W					SAN JUAN PROV., ARGENTINA
			H =094 KM					
28	SJ	eP	23 59 33.9	Z	0.9	95.5 (0)	65.0	5.74
29	SJ	epP	00 00 02	Z	0.9	64.0 (0)	65.0	
29	LC	eP	00 00 21.2	Z	1.0	64.5 (0)	72.0	5.43
		epP	00 00 50	Z	1.0	47.8 (0)		
29	NG	eP	00 00 53.8	Z	1.0	10.7 (1)	78.0	5.66
29	CP	eP	00 00 58.9	Z	0.8	18.0 (0)	79.0	4.96
		epP	00 01 27	Z	1.0	14.3 (0)		
29	FM	eP	00 01 08.1	Z	0.8	37.5 (0)	80.0	5.27
		epP	00 01 35	Z	1.0	39.7 (0)		
29	TF	eP	00 01 11.8	Z	1.0	33.6 (0)	81.0	5.14
29	MN	eP	00 01 19.8	Z	1.0	52.4 (0)	83.0	5.02
29	WI	eP	00 01 28.2	Z	1.0	26.1 (0)	84.0	5.13
		epP	00 01 57	Z	1.5	47.6 (0)		
29	MV	eP	00 01 30.1	Z	1.4	51.0 (0)	85.0	5.28
							AVG.	5.29
29	CP	eP	01 22 43.4	Z	0.3	17.0 (0)	1.0	
		eS	01 22 57	T	0.4	30.0 (0)		
29	WI	eP	01 42 30.5	Z	0.3	3.6 (0)	0.7	
		eS	01 42 40	R	0.5	12.0 (0)		
		eP	01 50 02.5	Z	0.3	2.9 (0)		
		eS	01 50 12	R	0.4	8.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	CP	eP	02 05 43.9	Z	0.2	14.0 (0)	0.4	
		eS	02 05 50	T	0.2	34.0 (0)		
29	CP	eP	03 23 09.5	Z	0.3	2.8 (0)	1.6	
		eS	03 23 30	T	0.4	44.0 (0)		
29	CP	eP	06 55 01.0	Z	0.3	17.0 (0)	0.1	
29	CP	eS	06 55 03	T	0.4	48.0 (0)	0.1	
29	FM	eP	07 50 41.0	Z	999.9	99.9 (9)		
29	CP	eP	09 56 07.4	Z	0.4	3.7 (0)	2.6	
		eS	09 56 40	T	0.5	7.3 (0)		
29	LC	eP	10 28 24.8	Z	0.6	4.0 (0)		
29	MN	eP	13 22 48.3	Z	0.2	10.0 (0)	0.1	
		eS	13 22 51	T	0.4	40.0 (0)		
29	MN	eP	15 39 07.2	Z	0.9	1.5 (0)		
29	LC	eP	16 41 33.1	Z	0.3	3.1 (0)	2.4	
		eS	16 42 04	R	0.5	7.9 (0)		
29	LC	eP	17 05 55.1	Z	0.2	14.0 (0)	1.3	
		eS	17 06 13	T	0.4	7.2 (0)		
29	CP	eP	18 02 07.3	Z	0.2	4.5 (0)	0.8	
		eS	18 02 18	T	0.3	18.0 (0)		
29	CP	eP	20 52 06.1	Z	0.5	62.0 (0)	2.7	
		e	20 52 17	Z	0.6	82.0 (0)		
		eS	20 52 40	T	0.6	50.0 (0)		
29	LC	eP	20 53 01.7	Z	0.4	5.6 (0)		
29	LC	eL	20 55 00	R	0.7	7.3 (0)		
29	21 00 16.4		51.8 N 177.1 W	ANDREANOF-ALEUTIAN ISLANDS				
			H =025 KM					
29	MV	eP	21 07 51.5	Z	0.9	16.0 (0)	40.0	4.70
		ePCP	21 09 55	Z	0.8	10.0 (0)		
		eLR	21 19 15	LZ	27	47.0 (1)		
		eL	21 20 00	LZ	23	34.0 (1)		
29	WI	eL	21 20 00	LR	24	35.0 (1)	41.0	4.65
		eP	21 08 00.9	Z	0.8	12.0 (0)		
29	MN	ePCP	21 10 00	Z	0.8	9.6 (0)	43.0	4.56
		eP	21 08 11.7	Z	0.6	6.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
29	TF	ePCP	21 10 04	Z	0.7	4.6 (0)	44.0	4.38	
		eLR	21 20 20	LZ	27	46.0 (1)			
		eL	21 21 45	LZ	25	38.0 (1)			
		eL	21 21 45	LR	25	30.0 (1)			
		eP	21 08 19.0	Z	0.9	6.8 (0)			
	29	FM	ePCP	21 10 06	Z	0.9			6.8 (0)
			eLR	21 19 55	LZ	25			50.0 (1)
			eL	21 21 45	LZ	21			50.0 (1)
			eL	21 21 45	LR	22			30.0 (1)
			eL	21 21 45	LT	21			21.0 (1)
29		CP	eP	21 08 37.2	Z	1.0	9.9 (0)	46.0	4.74
			eLR	21 22 37	LZ	25	41.0 (1)		
			eL	21 23 48	LZ	24	31.0 (1)		
			eL	21 23 48	LT	25	49.0 (1)		
			eP	21 08 49.2	Z	0.6	2.4 (0)	47.0	5.43
29	LC	eP	21 09 36.2	Z	0.8	5.3 (0)	53.0	4.96	
		ePCP	21 10 20	LZ	30	50.0 (1)			
		eLR	21 22 10	Z	0.7	12.0 (0)			
29	SJ	eP	21 10 36.9	Z	0.8	24.0 (0)	62.0	5.43	
								AVG.	4.85

29 21 52 50.0 26.3 S 113.7 W EASTER ISLAND
H = 025 KM

29	SJ	eP	22 02 29.0	Z	1.0	57.0 (0)	56.0	5.56	
		eLR	22 22 22	LZ	19	22.0 (2)			
		eL	22 23 15	LZ	19	22.0 (2)			
		eL	22 23 15	LR	20	21.0 (2)			
		eL	22 23 15	LT	19	40.0 (1)			
29	CP	eP	22 02 51.5	Z	1.0	8.5 (0)	59.0	4.73	
		eLR	22 21 05	LZ	25	85.0 (1)			
		eL	22 22 35	LZ	17	55.0 (1)			
		eL	22 22 35	LR	18	82.0 (1)			
		eL	22 22 35	Z	1.3	15.0 (0)			60.0
29	LC	eP	22 02 52.6	Z	1.3	15.0 (0)	60.0	4.89	
		eS	22 11 05	LR	17	44.0 (1)			
		eS	22 11 05	LT	16	29.0 (1)			
		eLQ	22 18 00	LR	31	11.0 (2)			
		eLR	22 21 45	LZ	21	26.0 (2)			
	29	TF	eL	22 23 15	LZ	21	26.0 (2)	62.0	4.57
			eL	22 23 15	LR	22	43.0 (1)		
			eL	22 23 15	LT	20	21.0 (2)		
			eP	22 03 09.4	Z	1.0	4.2 (0)		
			eLQ	22 19 08	LT	25	62.0 (1)		
29	TF	eLR	22 21 08	LZ	25	11.0 (2)	62.0	4.57	
		eL	22 22 45	LZ	25	11.0 (2)			
		eL	22 22 45	LR	24	69.0 (1)			
		eL	22 22 45	LR	24	69.0 (1)			
		eL	22 22 45	LT	23	93.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG			
29	MN	eP	22 03 29.9	Z	1.1	16.0 (0)	65.0	5.09			
		eS	22 12 20	LR	20	35.0 (0)					
		eLQ	22 20 40	LR	25	94.0 (1)					
		eLR	22 23 50	LZ	28	10.0 (2)					
		eL	22 25 23	LZ	19	83.0 (1)					
	29	FM	eL	22 25 23	LR	20			55.0 (1)		
			eL	22 25 23	LT	19			69.0 (1)		
			eP	22 03 35.5	Z	1.0			9.9 (0)	66.0	4.92
			eS	22 12 28	LT	23			39.0 (1)		
			eLQ	22 21 30	LT	25			78.0 (1)		
29	MV	eLR	22 25 05	LZ	26	73.0 (1)	66.0	4.74			
		eL	22 25 45	LZ	26	73.0 (1)					
		eL	22 25 45	LR	23	39.0 (1)					
		eL	22 25 45	LT	23	68.0 (1)					
		eP	22 03 36.0	Z	1.0	6.6 (0)					
	29	WI	eLR	22 24 05	LZ	29			95.0 (1)	68.0	5.16
			eP	22 03 48.8	Z	1.0			18.0 (0)		
			eLQ	22 21 53	LT	32			88.0 (1)		
			eLR	22 24 50	LZ	30			95.0 (1)		
			eL	22 27 05	LZ	20			63.0 (1)		
29	WI	eL	22 27 05	LR	22	61.0 (1)	68.0	5.16			
								AVG.	4.95		

29 23 44 16.1 38.1 N 020.9 E IONIAN SEA
H = 025 KM

29	CP	eP	23 05 26.7	Z	0.2	4.5 (0)	1.0	
		eS	23 05 37	T	0.3	17.0 (0)		
29	CP	eP	23 10 50.9	Z	0.3	2.8 (0)	1.5	
		eS	23 11 09	T	0.4	6.6 (0)		
30	DH	eP	03 26 55.0	Z	0.6	8.0 (0)		
30	04 57 46.2	44.6 N 129.5 W NORTH COAST OF CALIFORNIA H = 025 KM						
30	MV	eP	04 59 44.3	Z	1.2	22.0 (0)	8.0	5.11
		eL	05 00 47	Z	1.6	45.0 (0)		
30	WI	eP	05 00 06.2	Z	0.6	2.8 (0)	10.0	4.79
		eL	05 01 55	LZ	25	74.0 (1)		
		eL	05 01 55	LR	24	14.0 (2)		
		eL	05 01 55	LT	24	81.0 (1)		
30	MN	eP	05 00 17.5	Z	0.8	3.2 (0)	10.0	4.73

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	TF	eL	05 01 50	LT	29	17.0 (2)		
		eP	05 00 46.4	Z	1.0	8.4 (0)	13.0	4.75
		e	05 02 57	LZ	22	70.0 (1)		
		eL	05 04 02	LR	19	97.0 (1)		
30	FM	eP	05 01 06.7	Z	1.0	20.0 (0)	14.0	4.69
		eL	05 04 15	LR	25	59.0 (1)		
30	CP	eP	05 01 43.5	Z	1.2	7.1 (0)	17.0	3.70
		eL	05 05 15	LZ	21	64.0 (1)		
30	LC	eP	05 02 44.3	Z	1.5	24.0 (0)	22.0	4.38
		eL	05 07 38.5	Z	0.6	1.0 (0)		
30	SJ	eL	05 12 07	LT	35	46.0 (1)	30.0	
		eL	05 14 00	LT	20	14.0 (2)		
		eL	05 14 00	LZ	15	44.0 (1)		
		eL	05 14 00	LR	25	70.0 (1)		
							AVG.	4.59
30	LC	eP	05 42 42.3	Z	0.9	1.9 (0)		
30	MN	eP	05 43 30.5	Z	1.0	1.7 (0)		
30	WI	eP	05 43 50.2	Z	1.0	2.2 (0)		
30	TF	eL	05 57 25	LZ	22	30.0 (1)		
30	TF	eL	05 57 25	LR	20	15.0 (1)		
30	TF	eL	05 57 25	LT	20	16.0 (1)		
30	MN	eP	07 35 24.7	Z	0.7	0.8 (0)		
30	WI	eP	07 35 34.8	Z	0.6	1.8 (0)		
30	09 16 14.9		08.9 S 106.1 W				S. W. GALAPAGOS ISLANDS	
			H =025 KM					
30	LC	eP	09 23 58.3	Z	0.8	4.5 (0)	41.0	4.28
30	CP	eP	09 24 10.1	Z	0.8	3.6 (0)	43.0	4.15
30	DH	eP	09 24 26.5	Z	0.7	9.6 (0)	45.0	4.79
30	TF	eP	09 24 35.2	Z	1.0	13.0 (0)	46.0	4.86
30	FM	eP	09 24 55.6	Z	0.6	8.4 (0)	48.0	4.97
30	MN	eP	09 24 56.5	Z	1.0	4.2 (0)	49.0	4.40
30	WI	eP	09 25 17.2	Z	0.7	3.3 (0)	51.0	4.40
							AVG.	4.55
30	CP	eP	09 54 48.8	Z	0.5	3.2 (0)		
30	CP	eP	10 00 02.8	Z	0.6	12.0 (0)		
30	10 02 48.3		28.7 N 042.9 W				NORTH ATLANTIC OCEAN	
			H =035 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	10 02 52.2		30.3 N 042.4 W				NORTH ATLANTIC OCEAN	
			H =025 KM				PAL	
30	LC	eP	10 12 16.5	Z	0.8	4.5 (0)	54.0	4.55
		eS	10 20 00	LR	15	54.0 (1)		
		eS	10 20 00	LT	23	82.0 (1)		
		e	10 25 08	LR	19	75.0 (1)		
		eLQ	10 26 45	LR	33	20.0 (2)		
		eLR	10 29 30	LZ	25	14.0 (2)		
		eL	10 31 00	LZ	24	14.0 (2)		
		eL	10 31 00	LR	22	15.0 (2)		
30	FM	eP	10 31 00	LT	25	10.0 (2)		
		eS	10 12 40	LZ	17	14.0 (1)	57.0	
		eS	10 20 35	LT	21	39.0 (1)		
		eS	10 20 35	LR	25	99.0 (1)		
		eLQ	10 28 20	LT	40	56.0 (2)		
		eLR	10 30 22	LZ	30	11.0 (2)		
		eL	10 33 00	LZ	22	15.0 (2)		
		eL	10 33 00	LR	20	16.0 (2)		
30	WI	eP	10 33 00	LT	20	13.0 (2)		
		eP	10 12 58.7	Z	0.8	4.1 (0)	61.0	4.58
		eP	10 13 01	LZ	13	27.0 (1)		
		eS	10 21 14	LT	25	68.0 (1)		
		eS	10 21 14	LR	25	41.0 (1)		
		e	10 27 26	LR	30	19.0 (2)		
		eLQ	10 29 20	LR	40	22.0 (2)		
		eLR	10 31 50	LZ	35	16.0 (2)		
		eL	10 36 00	LZ	22	27.0 (2)		
		eL	10 36 00	LR	20	12.0 (2)		
30	MN	eP	10 36 00	LT	22	24.0 (2)		
		eP	10 13 07.7	Z	0.8	3.1 (0)	61.0	4.46
		eP	10 13 12	LZ	15	16.0 (1)		
		eS	10 21 32	LR	25	31.0 (1)		
		eS	10 21 32	LT	29	60.0 (1)		
		e	10 28 07	LR	25	97.0 (1)		
		eLQ	10 29 53	LR	34	24.0 (2)		
		eLR	10 32 05	LZ	28	16.0 (2)		
		eL	10 35 00	LZ	23	21.0 (2)		
		eL	10 35 00	LR	23	40.0 (2)		
30	MV	eP	10 35 00	LT	23	28.0 (2)		
		eP	10 13 20.8	Z	1.2	16.0 (0)	63.0	4.98
		eS	10 21 55	LR	25	33.0 (1)		
		e	10 29 07	LT	25	90.0 (1)		
		eLQ	10 30 52	LT	40	15.0 (2)		
		eLR	10 33 55	LZ	30	12.0 (2)		
		eL	10 37 20	LZ	23	13.0 (2)		
		eL	10 37 20	LR	20	13.0 (2)		
		eL	10 37 20	LT	24	76.0 (1)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	TF	eP	10 13 25.0	Z	0.8	5.3 (0)	64.0	4.75
		eS	10 22 15	LT	22	21.0 (1)		
		e	10 29 12	LT	23	14.0 (2)		
		eS	10 22 15	LR	23	40.0 (1)		
		eLQ	10 31 07	LT	30	10.0 (2)		
		eLR	10 34 43	LZ	29	74.0 (1)		
		eL	10 38 50	LR	20	15.0 (2)		
		eL	10 38 50	LZ	20	15.0 (2)		
		eL	10 38 50	LT	18	50.0 (1)		
30	DH	eLQ	10 13 30	LT	26	94.0 (2)	24.0	
		eLR	10 14 17	LZ	28	63.0 (2)		
		eL	10 15 40	LZ	24	54.0 (2)		
		eL	10 15 40	LR	22	36.0 (2)		
		eL	10 15 40	LT	20	18.0 (2)		
30	SJ	eS	10 18 43	LT	19	92.0 (1)	49.0	
		eS	10 18 43	LR	20	47.0 (1)		
		eL	10 22 15	LT	29	11.0 (2)		
		eL	10 25 35	LT	34	42.0 (2)		
		eL	10 25 35	LZ	14	85.0 (1)		
		eL	10 25 35	LR	30	48.0 (2)		
30	CP	e	10 28 45	LT	23	13.0 (2)	62.0	
		eLQ	10 30 50	LR	32	81.0 (1)		
		eLR	10 32 35	LZ	30	10.0 (2)		
		eL	10 38 00	LZ	20	11.0 (2)		
		eL	10 38 00	LT	21	97.0 (1)		
							AVG.	4.66
30	DH	eP	10 07 05.0	Z	1.0	28.0 (0)		
30	CP	eP	10 12 58.8	Z	0.5	14.0 (0)		
30	CP	eP	10 15 35.5	Z	0.5	8.5 (0)		
30	CP	eP	10 37 43.9	Z	0.5	3.2 (0)	4.1	
		e	10 37 54	Z	0.5	70.0 (0)		
		eS	10 38 34	R	0.5	38.0 (0)		
30	LC	eP	10 38 38.5	Z	0.5	4.4 (0)		
30	MN	eP	10 39 57.8	Z	0.9	1.3 (0)		
30	LC	eL	10 40 36	Z	0.7	6.0 (0)		
30	WI	eP	10 40 45.0	Z	0.8	1.4 (0)		
30	CP	eP	10 54 56.7	Z	0.5	1.1 (0)		
30	WI	eP	13 59 17.2	Z	0.7	2.2 (0)		
30	MV	eP	14 52 36.0	Z	0.5	3.7 (0)	1.4	
		eS	14 52 54	R	0.5	6.5 (0)		
30	WI	eP	14 53 08.5	Z	0.5	2.4 (0)	3.3	
30	MN	eP	14 53 10.1	Z	0.7	0.8 (0)		
30	WI	eS	14 53 49	R	0.5	15.0 (0)	3.3	
30	CP	eP	16 56 12.1	Z	0.5	32.0 (0)	1.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	16 56 25	R	0.5	26.0 (0)		
30	16 57 36.9		18.9 S 177.9 W				FIJI ISLANDS	
			H =480 KM					
30	MV	eP	17 08 51.5	Z	0.7	3.4 (0)	79.0	3.95
30	MN	eP	17 09 00.0	Z	0.7	2.5 (0)	81.0	3.89
		epP	17 10 41	Z	1.1	4.3 (0)		
30	WI	eP	17 09 11.0	Z	0.7	3.3 (0)	83.0	4.01
30	LC	eP	17 09 27.4	Z	0.9	3.9 (0)	86.0	4.08
		epP	17 11 11	Z	1.0	2.4 (0)		
							AVG.	4.08
30	LC	eP	17 22 47.8	Z	0.7	1.2 (0)		
30	LC	eP	21 09 18.7	Z	0.3	0.7 (0)	1.6	
		e	21 09 25	Z	0.4	1.6 (0)		
		eS	21 09 41	T	0.4	2.5 (0)		
30	CP	eP	21 18 41.4	Z	1.0	8.6 (0)		
30	MV	eP	21 18 44.8	Z	1.0	10.0 (0)		
30	MN	eP	21 18 53.3	Z	1.2	22.0 (0)		
30	WI	eP	21 19 05.3	Z	0.7	4.4 (0)		
30	LC	eP	21 19 22.4	Z	0.9	14.0 (0)		
31	WI	eP	01 23 21.0	Z	0.4	1.3 (0)		
31	WI	eL	01 24 37	R	0.7	17.0 (0)		
31	01 57 02.2		24.5 N 065.8 E				PAKISTAN WEST COAST	
			H =025 KM					
31	MN	eP	02 15 49.0	Z	0.7	2.0 (0)	117.0	
31	CP	eP	02 20 05.8	Z	999.9	99.9 (9)		
31	CP	eP	02 22 26	Z	999.9	99.9 (9)		
31	MN	eP	02 23 04.0	Z	0.8	2.5 (0)		
31	TF	eP	02 23 23.5	Z	0.3	2.7 (0)	5.0	
31	MN	e	02 24 04	Z	1.0	7.0 (0)		
31	TF	eS	02 24 24	T	0.4	23.0 (0)	5.0	
31	WI	eP	02 24 54.9	Z	0.5	0.8 (0)		
31	MN	eL	02 25 21	T	1.0	15.0 (0)		
31	WI	eL	02 26 42	T	0.7	4.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	CP	eP	02 31 43.1	Z	999.9	99.9 (9)		
31	03 17 57.2		30.1 S 177.1 W			KERMADEC ISLANDS		
			H =015 KM					
31	CP	eP	03 30 35.0	Z	1.0	9.0 (0)	85.0	4.91
31	MV	eP	03 30 41.1	Z	1.0	7.0 (0)	87.0	4.82
31	MN	eP	03 30 47.5	Z	1.0	7.0 (0)	88.0	4.90
31	WI	eP	03 30 58.3	Z	1.0	4.0 (0)	90.0	4.62
						AVG.		4.81
31	MN	eLR	03 58 30	LZ	25	10.0 (1)		
31	MN	eL	04 05 32	LT	17	23.0 (1)		
31	05 11 17.6		07.7 N 124.0 E			MINDANAO, PHILIPPINE IS.		
			H =040 KM					
31	MN	eLR	05 59 25	LZ	30	18.0 (1)	106.0	
31	06 28 26.2		22.1 N 142.6 E			VOLCANO ISLANDS REGION		
			H =257 KM			MAG 6.50-	PAS	
31	MV	eP	06 40 12.5	Z	1.4	14.0 (1)	81.0	5.58
		eP	06 40 15	LZ	22	12.0 (2)		
		epP	06 41 12	Z	1.4	77.0 (0)		
		eS	06 49 57	R	4.2			
		eS	06 49 57	T	1.7	62.0 (0)		
		eS	06 49 57	T	1.6	37.0 (1)		
		eS	06 49 57	R	2.7	43.0 (2)		
		esS	06 51 52	R	2.5	80.0 (0)		
		eSSS	07 01 10	LT	40	15.0 (2)		
31	WI	eP	06 40 22.9	Z	1.0	65.0 (0)	83.0	5.37
		eP	06 40 25	LZ	22	69.0 (1)		
		eS	06 50 18	T	3.0	52.0 (1)		
		eS	06 50 18	R	1.5	46.0 (0)		
		eS	06 50 21	LT	20	25.0 (2)		
		eS	06 50 21	LR	20	22.0 (2)		
		e	06 53 03	LZ	22	23.0 (2)		
		eP!P!	07 06 49	Z	1.5	13.0 (0)		
		eSKPP!	07 09 48	Z	1.5	13.0 (0)		
31	TF	eP	06 40 25.2	Z	1.2	29.0 (1)	83.0	5.94

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	06 40 26	LZ	13	18.0 (2)		
		epP	06 41 38	Z	1.3	19.0 (1)		
		e	06 50 22	LT	22	48.0 (2)		
		e	06 50 22	R	2.0	36.0 (1)		
		e	06 51 26	LR	35	51.0 (2)		
		eG	07 02 24	LR	38	13.0 (3)		
31	MN	eP	06 40 26.0	Z	999.9	99.9 (9)	84.0	
		eP	06 40 27.0	LZ	17	77.0 (1)		
		e	06 45 12	LZ	15	63.0 (1)		
		eS	06 50 23	T	2.7	40.0 (1)		
		eS	06 50 23	R	4.5			
		eS	06 50 24	LR	35	99.9 (9)		
		eS	06 50 24	LT	15	20.0 (2)		
		eSS	06 55 55	LR	25	30.0 (2)		
		eSSS	06 59 35	LR	30	43.0 (2)		
31	CP	eP	06 40 43.7	Z	1.2	24.0 (1)	87.0	5.96
		eP	06 40 45	LZ	15	10.0 (2)		
		epP	06 41 34	Z	1.0	40.0 (0)		
		eS	06 50 59	T	1.4	72.0 (1)		
		eS	06 50 59	R	1.5	98.0 (1)		
		eS	06 50 49	LT	20	49.0 (2)		
		eS	06 50 49	LR	20	21.0 (2)		
		esS	06 52 57	R	4.0			
		eSS	06 56 55	LT	22	35.0 (2)		
		e	07 04 30	LR	40	89.0 (2)		
31	FM	eP	06 40 45.3	Z	1.4	20.0 (1)	87.0	5.81
		eP	06 40 46	LZ	20	40.0 (1)		
		epP	06 41 44	Z	1.7	19.0 (1)		
		e	06 45 40	LZ	15	80.0 (1)		
		eSKS	06 50 50	T	1.5	63.0 (0)		
		eSKS	06 50 50	LT	22	44.0 (2)		
		e	06 52 05	LT	17	54.0 (2)		
		eSS	06 57 05	LT	25	32.0 (2)		
		eG	07 04 08	LR	60	15.0 (3)		
31	LC	eP	06 41 18.5	Z	1.4	74.0 (0)	95.0	5.67
		epP	06 42 19	Z	1.5	10.0 (1)		
		eSKS	06 51 31	R	3.5			
		eSKS	06 51 34	LR	20	27.0 (2)		
		eSP	06 53 30	LZ	17	37.0 (2)		
		eSS	06 58 50	LR	22	34.0 (2)		
		e	06 59 52	Z	1.0	7.2 (0)		
		eG	07 07 35	LT	50	13.0 (3)		
31	SJ	ePD	06 42 05	LZ	12	14.0 (2)	104.0	
		e	06 55 15	LT	26	18.0 (2)		
						AVG.		5.72
31	WI	eLR	07 02 22	LZ	35	48.0 (2)		
31	WI	eL	07 06 28	LR	16	23.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AI..		
31	WI	eL	07 06 28	LZ	15	11.0	(2)	
31	WI	eL	07 06 28	LT	15	14.0	(2)	
31	MN	eP	07 48 06.1	Z	1.0	3.6	(0)	
31	WI	eP	07 48 15.0	Z	1.0	29.0	(0)	
31	08 37 25.8		30.8 S 177.3 W					KERMADEC ISLANDS
			H =042 KM					
31	CP	eP	08 50 05.5	Z	1.4	22.0	(0)	88.0 5.17
		eL	09 16 25	LZ	25	63.0	(1)	
31	MV	eP	08 50 11.6	Z	1.0	6.6	(0)	88.0 4.79
		eL	09 16 45	LZ	25	13.0	(2)	
31	MN	eP	08 50 16.2	Z	1.1	7.1	(0)	89.0
		eL	09 17 50	LT	30	64.0	(1)	
		eL	09 19 12	LZ	25	70.0	(1)	
		eL	09 19 12	LR	25	18.0	(1)	
		eL	09 19 12	LT	25	48.0	(1)	
31	WI	eP	08 50 27.8	Z	1.0	4.0	(0)	91.0 4.66
		eL	09 19 25	LZ	30	73.0	(1)	
31	LC	eP	08 50 35.0	Z	1.1	6.2	(0)	93.0 4.91
		eL	09 19 45	LZ	35	60.0	(1)	
31	TF	eL	09 16 01	LZ	30	83.0	(1)	86.0
31	FM	eL	09 20 00	LZ	30	49.0	(1)	91.0
31	SJ	eL	09 22 22	LZ	25	34.0	(1)	94.0
								AVG. 4.88
31	MN	eP	10 25 40.7	Z	0.8	2.3	(0)	
31	LC	eP	10 26 05.8	Z	0.7	2.4	(0)	
31	MN	e	10 30 11	Z	0.8	2.3	(0)	
31	CP	eP	10 57 44.0	Z	999.9	99.9	(9)	
31	MN	eP	15 07 46.3	Z	1.0	9.0	(0)	
31	WI	eP	15 07 57.8	Z	1.0	2.0	(0)	
31	LC	eP	15 08 12.5	Z	1.0	7.2	(0)	
31	21 19 04.0		38.2 S 072.7 W					CENTRAL CHILE
			H =025 KM					
31	MN	eP	21 31 48.7	Z	1.2	9.0	(0)	87.0 4.82
		eLR	21 57 10	LZ	15	24.0	(1)	
31	WI	eP	21 31 58.8	Z	1.0	4.0	(0)	89.0 4.58
		e	21 59 12	Z	1.5	20.0	(0)	
								AVG. 4.70

G. W. ...

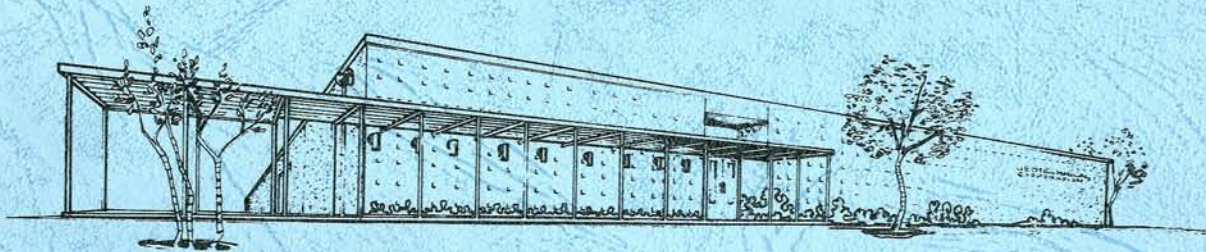


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June 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM FOR JUNE 1962



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, the Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except the unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

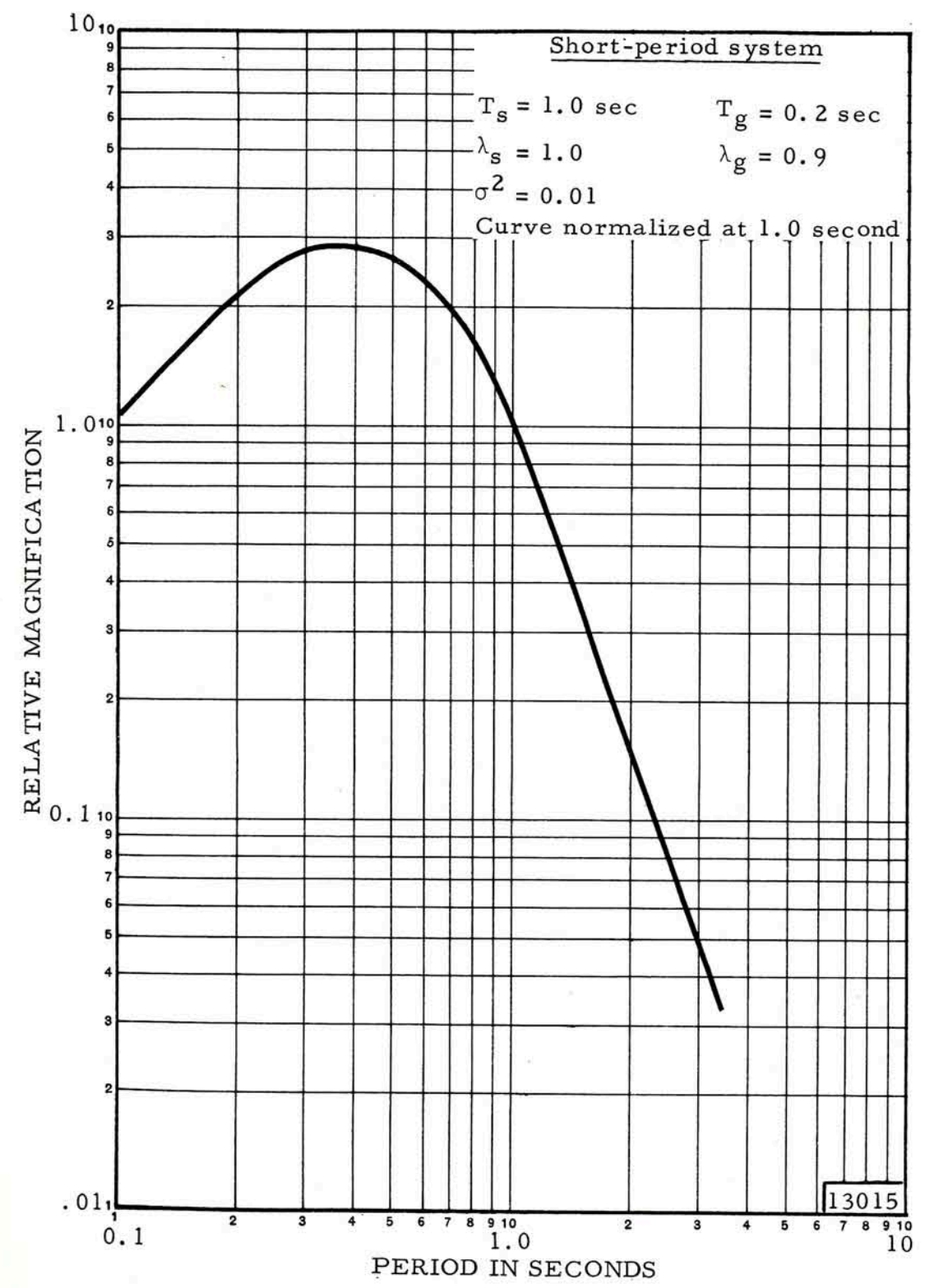


Figure 1. Frequency response of the short-period seismograph system

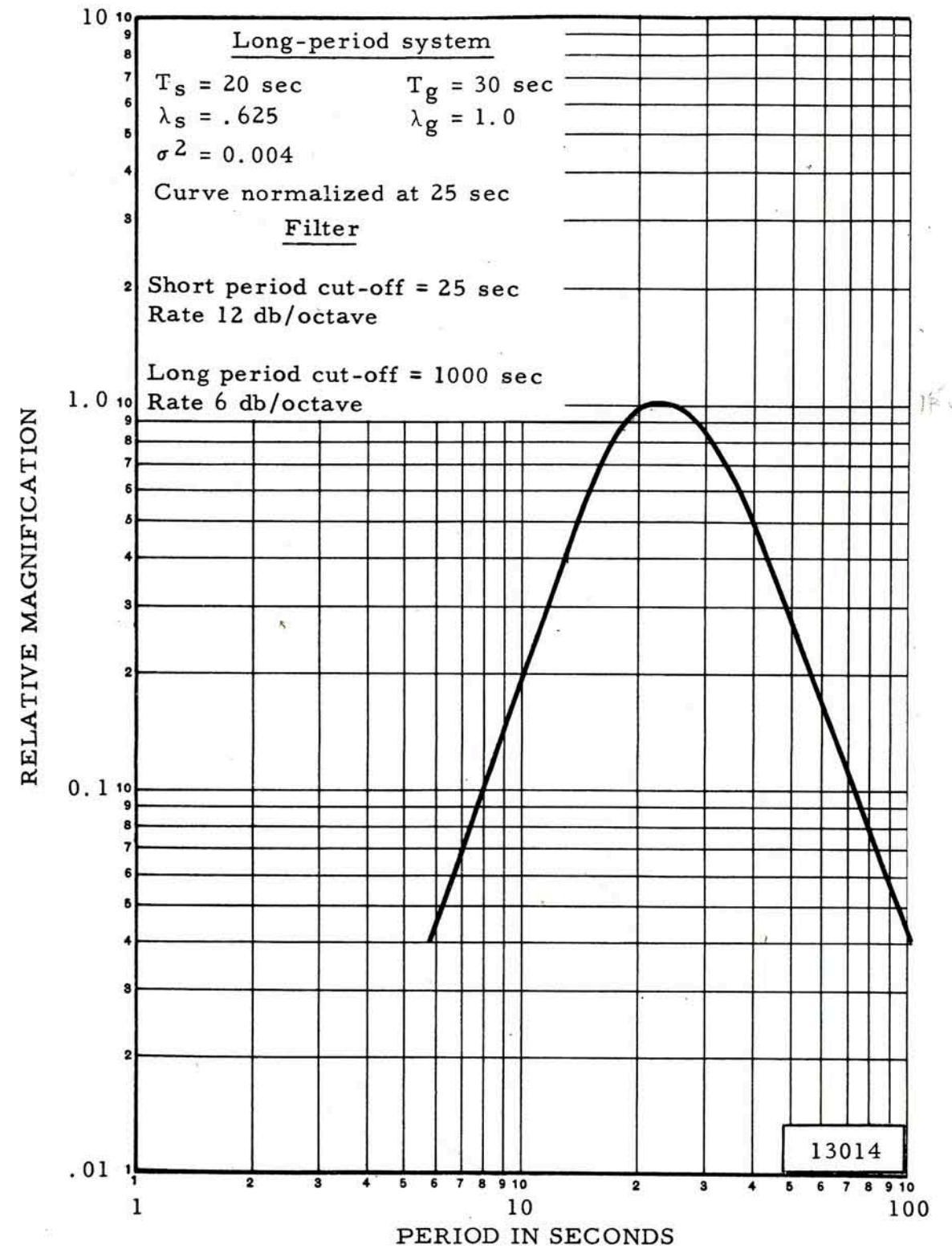


Figure 2. Frequency response of the long-period seismograph system

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, in two digits, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
AR	Aurora, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An 'i' (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all 'i' phases.
- b. An 'e' (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An 'i' or 'e' alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

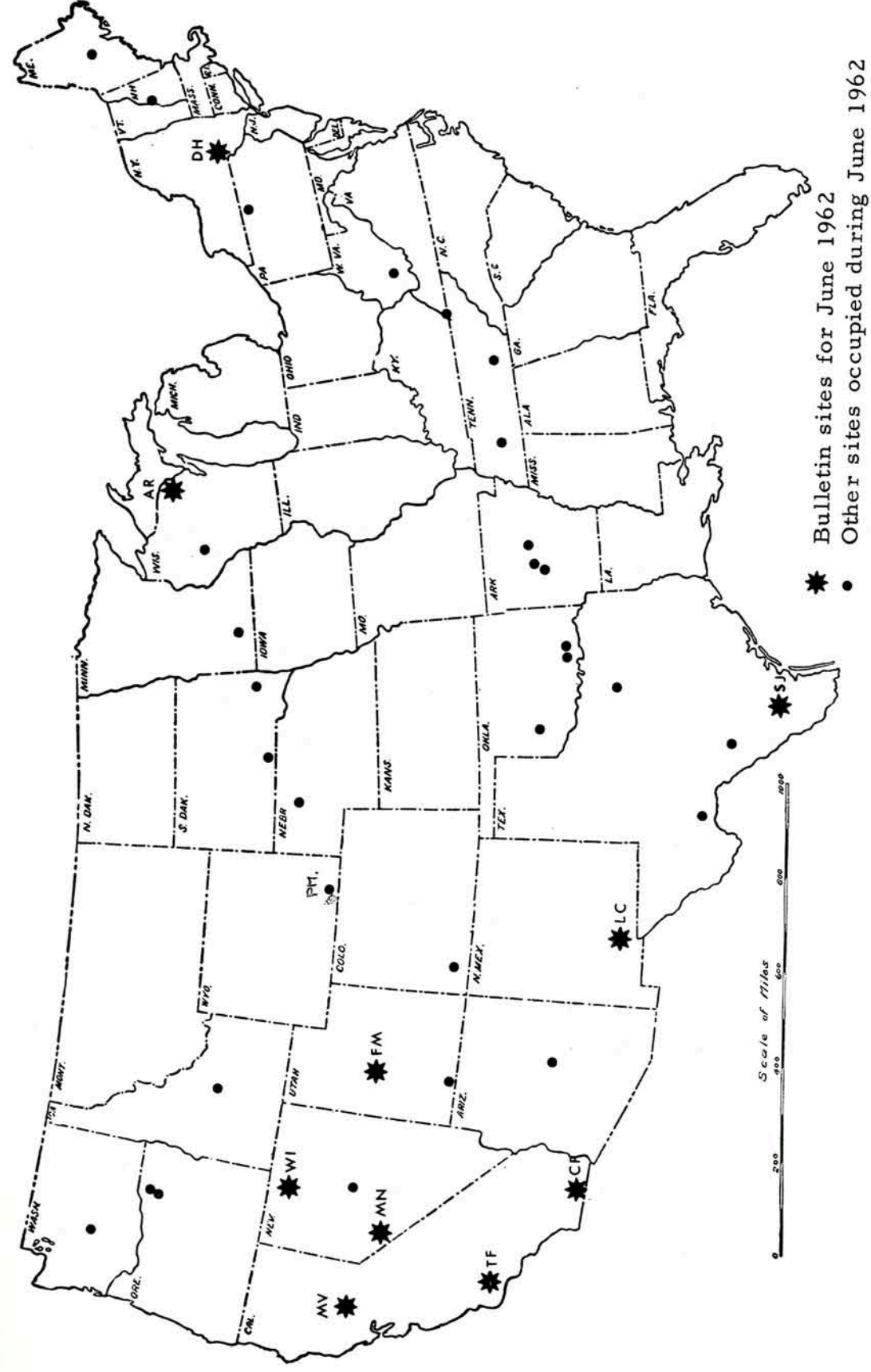


Figure 3. LRSR Program Sites

TABLE 1

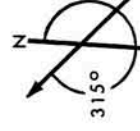
LRSM SITE INFORMATION

Horizontal seismometer orientation

Azimuth from True North
in Degrees*

<u>Site Designation</u>	<u>Site Location</u>	<u>in Degrees*</u>			<u>Site Coordinates</u>		<u>Elevation in km</u>	<u>Rock Type</u>
		<u>Radial</u>	<u>Trans-verse</u>		<u>in deg, min, sec</u>			
SJ TX	San Jose, Texas	127	217		N 27 36 43	0.114	Limestone	
LC NM	Las Cruces, New Mexico	124	214		W 98 18 46	1.585	Limestone	
CP CL	Campo, California	182	272		N 32 24 08			
					W 106 35 58			
MV CL	Marysville, California	295	025		N 32 43 44	1.189	Granite	
					W 116 22 16			
WI NV	Winnemucca, Nevada	346	076		N 39 13 36	0.610	Volcanics	
					W 121 18 05			
MN NV	Mina, Nevada	308	038		N 41 21 02	1.524	Limestone	
					W 117 27 30			
FM UT	Fillmore, Utah	058	148		N 38 26 10	1.524	Limestone	
					W 118 08 53			
AR WS	Aurora, Wisconsin	078	168		N 39 13 06	1.890	Limestone	
					W 112 12 25			
DH NY	Delhi, New York	095	185		N 45 42 48	0.366	Gneiss	
					W 88 08 32			
TF CL	Taft, California	235	325		N 42 14 39	0.652	Sandstone	
					W 74 53 18			
					N 35 09 49	0.792	Sandstone	
					W 119 58 03			

*When earth moves in direction shown, trace moves up.



3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log 10 A + B$$

Where: m = Unified Magnitude

A = 1/2 P-P amplitude in millimicrons/second of the
"P" phase (initial arrival).

B = Log function of distance and depth.

The average magnitude (sum of station magnitudes) is listed on the last line
number of stations

of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks
as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls
attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-
shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated
phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (h) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS)
or Berkeley (BRK)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1

DCS/Operations

Headquarters United States Air Force

Washington 25, D. C.

ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	01 22	27.4	03.9 S 137.9 E				NEW GUINEA	
			H =166 KM					
1	01 59	53.2	57.6 N 150.8 W				KODIAC ISLAND	
			H =025 KM					
1	CP	eP	06 23 43.1	Z	0.5	4.1 (0)	2.0	
		e	06 23 52	Z	0.5	33.0 (0)		
		eS	06 24 10	T	0.5	55.0 (0)		
1	LC	eP	06 24 38.2	Z	0.5	0.4 (0)		
1	LC	e	06 24 50	Z	0.6	6.9 (0)		
1	LC	eL	06 26 33	R	0.7	12.0 (0)		
1	06 48	32.1	13.1 N 088.0 W				HONDURAS	
			H =094 KM					
1	SJ	eP	06 52 32.2	Z	1.0	6.8 (0)	18.0	3.82
1	LC	eP	06 53 56.1	Z	0.9	9.5 (0)	26.0	4.33
1	DH	eP	06 54 44.1	Z	1.0	18.0 (0)	31.0	4.77
1	FM	eP	06 55 05.7	Z	1.0	5.0 (0)	34.0	4.31
1	MN	eP	06 55 33.0	Z	1.0	8.7 (0)	37.0	4.62
1	WI	eP	06 55 43.7	Z	0.8	4.9 (0)	38.0	4.47
							AVG.	4.43
1	CP	eP	07 01 52.5	Z	0.5	6.1 (0)		
1	CP	eP	07 05 00.1	Z	0.5	11.0 (0)	2.9	
		eS	07 05 36	R	0.7	19.0 (0)		
1	CP	eP	08 34 27.5	Z	0.5	5.1 (0)	2.4	
		eS	08 34 58	T	0.5	37.0 (0)		
1	09 01	56.8	06.9 S 129.2 E				BANDA SEA	
			H =140 KM					
1	09 29	08.6	36.6 N 071.3 E				HINDU KUSH	
			H =201 KM					
1	13 07	20.1	21.6 S 063.7 W				SOUTHERN BOLIVIA	
			H =128 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	DH	eP	13 17 54.6	Z	0.8	11.0 (0)	66.0	4.78
1	LC	eP	13 18 05.0	Z	1.0	4.7 (0)	68.0	4.24
1	CP	eP	13 18 39.9	Z	0.8	7.0 (0)	73.0	4.51
1	FM	eP	13 18 52.9	Z	0.8	9.4 (0)	76.0	4.64
1	TF	eP	13 19 01.7	Z	1.0	17.0 (0)	77.0	4.80
1	MN	eP	13 19 07.7	Z	1.0	4.4 (0)	78.0	4.21
1	WI	eP	13 19 15.6	Z	1.0	23.0 (0)	80.0	4.93
							AVG.	4.59
1	CP	eP	18 25 09.9	Z	0.2	3.3 (0)	0.7	
		eS	18 25 19	T	0.2	17.0 (0)		
1	FM	eP	19 50 10.6	Z	0.4	6.6 (0)	2.1	
		eS	19 50 38	R	0.5	14.0 (0)		
1	LC	eP	21 45 51.0	Z	1.0	4.7 (0)		
1	FM	eP	21 46 58.6	Z	1.1	6.5 (0)		
1	DH	eP	21 47 44.0	Z	1.0	18.0 (0)		
1	LC	e	21 51 05	LR	19	20.0 (1)		
1	SJ	eLR	21 52 08	LZ	20	56.0 (1)		
1	FM	eP	21 53 19.4	Z	0.3	3.2 (0)	3.8	
		eS	21 54 06	R	0.5	11.0 (0)		
1	LC	eLR	21 55 45	LZ	20	22.0 (2)		
1	CP	eLR	21 56 54	LZ	29	12.0 (2)		
1	TF	eLR	21 58 51	LZ	27	91.0 (1)		
1	FM	eLR	21 59 14	LZ	30	49.0 (1)		
1	FM	eP	23 46 16.9	Z	0.5	17.0 (0)		
2	LC	eP	02 09 08.5	Z	1.0	2.4 (0)		
2	MN	eP	02 10 30.1	Z	1.0	5.1 (0)		
2	DH	eP	02 11 02.9	Z	1.0	19.0 (0)		
2	WI	eP	02 11 15.0	Z	1.5	8.2 (0)		
2	SJ	eL	02 15 55	LR	25	20.0 (2)		
2	LC	eL	02 18 05	LR	20	44.0 (1)		
2	CP	eL	02 20 35	LZ	25	64.0 (1)		
2	TF	eL	02 22 48	LZ	22	60.0 (1)		
2	SJ	eL	02 23 20	LZ	30	30.0 (1)		
2	MN	e	02 24 19	Z	0.7	0.8 (0)		
2	MV	eL	02 24 45	LZ	25			
2	MV	eL	02 25 32	LZ	20			
2	MV	eL	02 25 32	LR	22	40.0 (1)		
2	MV	eL	02 25 32	LT	20	15.0 (1)		
2	WI	eL	02 25 50	LZ	20	21.0 (1)		
2	DH	eL	02 26 02	LZ	30	40.0 (1)		
2	MV	eP	03 57 47.0	Z	0.3	5.2 (0)	1.6	
		eS	03 58 09	T	0.5	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MN	eP	03 58 10.5	Z	0.3	1.7 (0)	3.3	
		eS	03 58 52	T	0.4	6.2 (0)		
2	05 35 36.1		03.5 S 145.3 E				BISMARCK SEA	
			H = 042 KM					
2	MN	eP	05 49 07.5	Z	0.7	1.7 (0)	98.0	4.80
		eLR	06 20 07	LZ	35	11.0 (2)		
		eL	06 21 40	LZ	25	33.0 (1)		
		eL	06 21 40	LR	25	47.0 (1)		
		eL	06 21 40	LT	25	70.0 (1)		
2	LC	ePKKP	06 05 32	Z	1.0	7.2 (0)	107.0	
		eLR	06 20 25	LZ	30	34.0 (1)		
		eL	06 20 55	LZ	25	29.0 (1)		
		eL	06 20 55	LR	25	17.0 (1)		
2	MV	eL	06 18 50	LZ	25		95.0	
		eL	06 20 32	LT	25	30.0 (1)		
		eL	06 20 32	LR	20	15.0 (1)		
		eL	06 20 32	LZ	25			
2	WI	eLR	06 20 15	LT	30	66.0 (1)	97.0	
2	CP	eL	06 21 10	LZ	30	50.0 (1)	99.0	
2	FM	eLR	06 22 25	LZ	30	35.0 (1)	102.0	
		eL	06 29 25	LZ	25	30.0 (1)		
		eL	06 29 25	LR	25	20.0 (1)		
		eL	06 29 25	LT	25	19.0 (1)		
2	DH	eL	06 34 40	LZ	30	20.0 (1)	128.0	
		eL	06 46 20	LZ	20	51.0 (1)		
		eL	06 46 20	LR	18	30.0 (1)		
		eL	06 46 20	LT	22	30.0 (1)		
							AVG.	4.80
2	09 18 48.1		05.4 S 151.7 E				NEW BRITAIN	
			H = 053 KM					
2	CP	eP	10 18 37.6	Z	0.4	12.0 (0)		
2	11 49 49.0		50.2 N 129.1 W				VANCOUVER ISLAND REGION	
			H = 025 KM					
2	WI	eP	11 52 42.0	Z	1.0	21.0 (0)	12.0	5.25
		eP	11 52 45	LZ	12	38.0 (1)		
		eL	11 55 57	LZ	27	19.0 (2)		
		eL	11 57 05	LZ	20	18.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MV	eL	11 57 05	LR	18	21.0 (2)		
		eL	11 57 05	LT	18	49.0 (1)		
2	MV	eP	11 52 44.5	Z	0.8	6.0 (0)	12.0	4.80
		eL	11 55 10	LZ	20			
2	MN	eL	11 55 47	LZ	25			
		eL	11 55 47	LR	20	61.0 (1)		
2	MN	eL	11 55 47	LT	25	71.0 (2)		
		eP	11 53 09.5	Z	1.0	8.5 (0)	14.0	4.60
2	MN	eP	11 53 10	LZ	15	15.0 (1)		
		eS	11 55 52	LT	17	54.0 (1)		
2	MN	eS	11 55 52	LR	15	30.0 (1)		
		eLQ	11 56 40	LT	30	15.0 (2)		
2	FM	eL	11 58 10	LZ	17	17.0 (2)		
		eL	11 58 10	LR	15	25.0 (2)		
2	FM	eL	11 58 10	LT	15	88.0 (1)		
		eP	11 53 42.0	Z	1.0	10.0 (0)	17.0	3.92
2	FM	eP	11 53 44	LZ	15	16.0 (1)		
		eL	11 58 30	LZ	27	85.0 (1)		
2	FM	eL	11 59 40	LT	20	11.0 (2)		
		eL	11 59 40	LR	15	63.0 (1)		
2	CP	eL	11 59 40	LZ	20	80.0 (1)		
		eP	11 54 19.0	Z	0.8	7.0 (0)	20.0	4.00
2	CP	eS	11 58 14	LT	20	83.0 (1)		
		eL	11 59 11	LT	25	49.0 (1)		
2	CP	eL	11 59 11	LR	22	46.0 (1)		
		eP	11 55 06.4	Z	1.0	4.8 (0)	24.0	3.96
2	LC	eL	12 02 25	LZ	35	12.0 (2)		
		eL	12 05 00	LZ	18	17.0 (2)		
2	LC	eL	12 05 00	LR	18	10.0 (1)		
		eL	12 05 00	LT	20	40.0 (1)		
2	DH	eL	12 08 55	LT	25	16.0 (2)	38.0	
		eL	12 10 15	LT	17	21.0 (2)		
2	DH	eL	12 10 15	LR	15	90.0 (1)		
							AVG.	4.42
2	WI	eP	12 08 51.9	Z	1.0	7.8 (0)		
2	MN	eP	12 09 20.3	Z	1.0	5.1 (0)		
2	WI	eP	12 21 25.5	Z	1.3	22.0 (0)		
2	MN	eP	12 21 54.1	Z	1.0	3.4 (0)		
2	MN	e	12 25 14	Z	1.0	3.4 (0)		
2	WI	e	12 25 44	Z	1.0	5.2 (0)		
2	12 26 09.6			49.9 N 129.8 W	VANCOUVER ISLAND			
			H =025 KM	MAG	5.75-	PAL		
2	WI	eP	12 29 04.4	Z	1.1	78.0 (0)	12.0	5.78

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MV	eP	12 29 05	LZ	12	72.0 (1)		
		e	12 29 30	Z	1.5	22.0 (1)		
2	MV	eL	12 31 10	LT	25	99.9 (9)		
		eL	12 33 48	Z	10.0	87.0 (2)		
2	MV	eP	12 29 05.5	Z	0.8	12.0 (0)	12.0	5.72
		eL	12 31 18	LZ	25			
2	MN	eL	12 31 18	LR	15	28.0 (3)		
		eL	12 31 18	LT	17	72.0 (2)		
2	MN	eL	12 33 46	Z	9.0	7.7 (0)		
		eP	12 29 32.9	Z	1.2	61.0 (0)	14.0	5.16
2	MN	eP	12 29 35	LZ	15	22.0 (1)		
		eL	12 32 12	LR	25	44.0 (2)		
2	TF	eP	12 30 02.6	Z	1.5	94.0 (0)	17.0	4.72
2	FM	eP	12 30 04.5	Z	1.1	26.0 (0)	17.0	4.30
		eP	12 30 07	LZ	17	90.0 (1)		
2	FM	eS	12 33 15	LR	22	38.0 (2)		
		eS	12 33 15	LT	18	12.0 (2)		
2	FM	eL	12 34 22	LT	30	62.0 (2)		
		eL	12 36 15	LZ	18	77.0 (2)		
2	FM	eL	12 36 15	LR	15	11.0 (3)		
		eL	12 36 15	LT	17	12.0 (3)		
2	CP	eP	12 30 42.2	Z	0.8	7.2 (0)	20.0	3.98
		eS	12 34 35	LT	20	83.0 (2)		
2	CP	eS	12 34 35	LR	20	28.0 (2)		
		eS	12 34 42	R	4.0	96.0 (1)		
2	CP	eS	12 34 42	T	5.0	90.0 (1)		
		eL	12 35 24	LT	30	54.0 (2)		
2	CP	eL	12 38 14	LT	17	61.0 (2)		
		eL	12 38 14	LR	15	14.0 (2)		
2	CP	eL	12 38 14	LZ	24	19.0 (2)		
		eL	12 38 14	LZ	24	19.0 (2)		
2	LC	eP	12 31 29.9	Z	1.0	12.0 (0)	25.0	4.50
		eP	12 31 30	LZ	20	39.0 (0)		
2	LC	eS	12 36 00	LT	20	18.0 (2)		
		eS	12 36 00	LR	20	96.0 (1)		
2	LC	eL	12 39 00	LT	30	55.0 (2)		
		eL	12 40 35	LZ	22	50.0 (2)		
2	LC	eL	12 40 35	LR	17	72.0 (2)		
		eL	12 40 35	LT	15	14.0 (3)		
2	SJ	eP	12 32 44.5	Z	1.0	38.0 (0)	33.0	5.30
		ePCS	12 39 20	LR	25	19.0 (2)		
2	SJ	eLQ	12 41 30	LT	40	18.0 (3)		
		eP	12 33 27.6	Z	0.7	9.4 (0)	38.0	4.68
2	SJ	e	12 38 25	LT	20	37.0 (1)		
		eL	12 43 50	LT	35	64.0 (2)		
							AVG.	4.90
2	WI	e	12 26 22	Z	1.0	5.2 (0)		
2	MN	e	12 26 48	Z	1.0	3.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	12 35 48.0		49.8 N 129.8 W H =023 KM	VANCOUVER ISLAND				
2	WI	eP	12 38 42.4	Z	1.0	83.0 (0)	12.0	5.85
		eL	12 41 52	LZ	20	94.0 (2)		
		eL	12 42 12	LZ	20	54.0 (2)		
		eL	12 42 12	LR	20	53.0 (2)		
		eL	12 42 12	LT	15	19.0 (2)		
2	MV	eP	12 38 43.8	Z	1.0	36.0 (0)	12.0	5.50
		eL	12 42 10	LZ	18			
		eL	12 42 28	LZ	18			
		eL	12 42 28	LR	15	12.0 (3)		
		eL	12 42 28	LT	18	31.0 (2)		
2	MN	eP	12 39 09.1	Z	1.2	50.0 (0)	13.0	5.46
		eLR	12 42 58	LZ	33	57.0 (2)		
		eL	12 44 18	Z	12.0			
2	TF	eP	12 39 40.3	Z	1.2	62.0 (0)	17.0	4.64
2	FM	eP	12 39 42.5	Z	1.2	66.0 (0)	17.0	4.66
		eL	12 44 00	LT	30	34.0 (2)		
		eL	12 45 32	LZ	20	24.0 (2)		
		eL	12 45 32	LR	20	17.0 (2)		
		eL	12 45 32	LT	18	34.0 (2)		
2	CP	eP	12 40 19.3	Z	0.8	12.0 (0)	20.0	4.20
		eS	12 44 17	R	4.0	48.0 (1)		
		eS	12 44 17	T	5.0	30.0 (1)		
		eL	12 46 07	LZ	22	28.0 (2)		
		eL	12 47 55	LZ	18	36.0 (1)		
		eL	12 47 55	LR	16	23.0 (2)		
		eL	12 47 55	LT	18	35.0 (2)		
2	LC	eP	12 41 12.9	Z	1.0	9.6 (0)	25.0	4.41
		eL	12 43 50	LZ	30	34.0 (2)		
		eL	12 46 02	LZ	15	70.0 (2)		
		eL	12 46 02	LR	20	24.0 (2)		
		eL	12 46 02	LT	18	84.0 (1)		
2	SJ	eP	12 42 22.3	Z	1.0	24.0 (0)	33.0	5.10
2	DH	eP	12 43 05.7	Z	0.8	12.0 (0)	38.0	4.72
		eL	12 54 15	LT	30	60.0 (2)		
		eL	12 56 12	LT	18	60.0 (2)		
		eL	12 56 12	LR	18	24.0 (2)		
							AVG.	4.94
2	WI	eP	13 49 05.4	Z	1.0	2.8 (0)		
2	MN	eP	13 49 32.6	Z	1.2	2.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	CP	eP	14 09 43.1	Z	0.4	1.8 (0)	2.8	
		eS	14 10 20	T	0.5	22.0 (0)		
2	MN	eL	14 14 03	LZ	20	52.0 (1)		
2	CP	eP	15 50 27.5	Z	0.4	4.6 (0)	3.0	
		eS	15 51 05	T	0.5	14.0 (0)		
2	17 15 08.7		29.8 N 130.6 E H =015 KM	KYUSHU, JAPAN				
2	MV	eP	17 27 42.0	Z	1.0	9.5 (0)	85.0	4.93
		eL	17 54 25	LZ	30			
2	WI	eP	17 27 48.5	Z	1.0	21.0 (0)	86.0	5.19
		eS	17 38 15	LT	20	98.0 (1)		
		eS	17 38 15	LR	25	74.0 (1)		
		eLR	17 50 40	LZ	30	50.0 (1)		
		eL	18 04 24	LZ	25	10.0 (2)		
		eL	18 04 24	LR	25	90.0 (1)		
		eL	18 04 24	LT	24	10.0 (2)		
2	MN	eP	17 27 53.9	Z	1.0	12.0 (0)	87.0	5.05
		eS	17 38 27	LT	22	94.0 (1)		
		eS	17 38 27	LR	20	62.0 (1)		
		eLQ	17 51 15	LT	30	24.0 (2)		
		eL	18 06 50	LZ	20	80.0 (1)		
		eL	18 06 50	LR	22	11.0 (2)		
		eL	18 06 50	LT	22	84.0 (1)		
2	TF	eP	17 27 54.1	Z	1.0	19.0 (0)	87.0	5.76
2	CP	eP	17 28 29.3	Z	1.0	5.6 (0)	94.0	4.86
		eL	17 57 36	LZ	30	10.0 (2)		
2	SJ	eL	17 59 32	LZ	25	64.0 (1)	107.0	
		eL	18 01 50	LZ	25	89.0 (1)		
		eL	18 01 50	LR	25	33.0 (1)		
		eL	18 01 50	LT	24	11.0 (2)		
2	DH	eL	18 08 10	LZ	30	60.0 (1)	105.0	
							AVG.	4.93
2	LC	eL	17 42 50	LR	25	34.0 (1)		
2	CP	eP	19 58 25.8	Z	999.9	99.9 (9)	0.5	
		eS	19 58 33	T	999.9	99.9 (9)		
3	MN	eP	00 34 11.8	Z	999.9	99.9 (9)		
3	CP	eP	01 30 21.1	Z	0.2	3.4 (0)	0.2	
		eS	01 30 26	R	0.3	11.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MV	eP	03 29 41.5	Z	0.4	3.8 (0)		
3	MN	eP	03 29 51.4	Z	0.5	0.7 (0)		
3	MN	eP	05 20 21.5	Z	0.3	1.2 (0)	0.1	
		eS	05 20 23.7	T	0.3	17.0 (0)		
3	MN	eP	06 03 04.7	Z	0.3	1.5 (0)	0.1	
		eS	06 03 07	T	0.3	11.0 (0)		
3	CP	eP	06 59 22.5	Z	0.5	2.1 (0)	3.9	
3	CP	eS	07 00 10	T	0.5	17.0 (0)	3.9	
3	LC	eP	07 02 13.0	Z	0.6	0.5 (0)		
3	CP	eP	07 37 28.5	Z	0.3	2.3 (0)	2.9	
		eS	07 38 05	T	0.3	14.0 (0)		
3	09 00 19.3		14.8 S 167.5 E				NEW HEBRIDES IS. REGION	
			H =111 KM					
3	10 13 55.2		49.5 N 156.3 E				KAMCHATKA	
			H =087 KM					
3	MN	eP	10 27 26.6	Z	0.8	1.7 (0)		
3	DH	eLQ	10 32 20	LT	30	40.0 (2)		
3	DH	eLR	10 33 35	LZ	30	99.0 (1)		
3	DH	eL	10 34 23	LZ	24	84.0 (1)		
3	DH	eL	10 34 23	LR	25	21.0 (1)		
3	DH	eL	10 34 23	LT	22	39.0 (1)		
3	SJ	eLR	10 44 00	LZ	33	74.0 (1)		
3	LC	eLR	10 45 45	LZ	30	23.0 (1)		
3	LC	eL	10 48 00	LZ	26	52.0 (1)		
3	LC	eL	10 48 00	LR	25	38.0 (1)		
3	SJ	eL	10 48 25	LZ	20	33.0 (1)		
3	SJ	eL	10 48 25	LR	23	14.0 (2)		
3	SJ	eL	10 48 25	LT	18	24.0 (1)		
3	MN	eLR	10 49 30	LZ	40	39.0 (1)		
3	TF	eLR	10 50 44	LZ	40	31.0 (1)		
3	MV	eLR	10 51 28	LZ	35	75.0 (1)		
3	TF	eL	10 53 25	LZ	30	40.0 (1)		
3	TF	eL	10 53 25	LR	28	23.0 (1)		
3	TF	eL	10 53 25	LT	25	30.0 (1)		
3	MN	eL	10 54 30	LZ	23	83.0 (1)		
3	MN	eL	10 54 30	LR	23	47.0 (1)		
3	MN	eL	10 54 30	LT	21	50.0 (1)		
3	MV	eL	10 54 53	LZ	25	15.0 (2)		
3	MV	eL	10 54 53	LR	25	19.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MV	eL	10 54 53	LT	24	50.0 (1)		
3	LC	eP	12 08 22.7	Z	1.0	2.4 (0)		
3	TF	eP	13 08 23.6	Z	999.9	99.9 (9)	0.7	
		eS	13 08 33	T	0.3	15.0 (0)		
		eP	13 12 10.2	Z	0.2	10.0 (0)		
		eS	13 12 20	T	999.9	99.9 (9)		
3	13 42 27.3		06.4 S 148.1 E				NEW BRITAIN	
			H =032 KM					
3	CP	eP	14 12 54.5	Z	0.3	0.5 (0)	1.5	
		eS	14 13 13	R	0.3	2.9 (0)		
3	14 25 42.7		23.7 S 179.7 W				FIJI ISLANDS REGION	
			H =438 KM					
3	LC	eP	14 37 52.2	Z	0.6	1.0 (0)	89.0	3.83
3	15 02 25.5		22.4 N 045.2 W				NORTH ATLANTIC OCEAN	
			H =025 KM					
3	DH	eP	15 08 51.6	Z	0.8	12.0 (0)	32.0	4.83
		eP	15 08 54	LZ	15	66.0 (1)		
		eS	15 14 10	LR	15	24.0 (2)		
		eS	15 14 10	LT	15	30.0 (2)		
		eLQ	15 15 43	LT	25	70.0 (2)		
		eLR	15 16 55	LZ	30	17.0 (3)		
		eL	15 17 35	LZ	24	18.0 (3)		
		eL	15 17 35	LR	26	14.0 (3)		
		eL	15 17 35	LT	22	80.0 (2)		
3	SJ	eP	15 11 08.6	Z	0.7	20.0 (0)	49.0	5.22
		eP	15 11 10	LZ	15	12.0 (2)		
		e	15 11 14	Z	1.0	68.0 (0)		
		eS	15 18 15	LR	17	44.0 (2)		
		eS	15 18 15	LT	17	48.0 (2)		
		eL	15 25 02	LR	35	13.0 (3)		
		eLR	15 27 38	LZ	27	79.0 (2)		
		eL	15 38 45	LZ	18	48.0 (2)		
		eL	15 38 45	LR	18	99.9 (9)		
		eL	15 38 45	LT	18	18.0 (3)		
3	LC	eP	15 11 57.6	Z	1.0	9.6 (0)	55.0	4.78

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	15 11 58	LZ	17	62.0 (1)		
		e	15 12 03	Z	1.6	11.0 (1)		
		eS	15 19 24	LR	20	38.0 (2)		
		eS	15 19 24	LT	20	19.0 (2)		
		eLR	15 26 59	LZ	24	67.0 (1)		
		eL	15 31 47	LZ	24	10.0 (3)		
		eL	15 31 47	LT	21	39.0 (2)		
		eL	15 31 47	LR	24	78.0 (2)		
3	FM	eP	15 12 24.5	Z	0.7	10.0 (0)	59.0	4.95
		eP	15 12 29	LZ	15	40.0 (1)		
		e	15 12 32	Z	1.4	10.0 (1)		
		eS	15 20 40	LR	21	22.0 (2)		
		eS	15 20 40	LT	23	19.0 (2)		
		eLQ	15 28 27	LT	35	21.0 (2)		
		eLR	15 29 30	LZ	45	35.0 (2)		
		eL	15 34 25	LZ	22	13.0 (3)		
		eL	15 34 25	LR	24	92.0 (2)		
		eL	15 34 25	LT	20	78.0 (2)		
3	WI	eP	15 12 49.8	Z	1.0	9.2 (0)	63.0	4.81
		eP	15 12 51	LZ	15	44.0 (1)		
		e	15 12 57	Z	1.5	10.0 (1)		
		eS	15 21 31	LR	20	64.0 (1)		
		eS	15 21 31	LT	32	23.0 (2)		
		eLQ	15 27 36	LR	28	10.0 (2)		
		eLR	15 31 54	LZ	45	72.0 (2)		
		eL	15 36 45	LZ	25	11.0 (2)		
		eL	15 36 45	LR	20	34.0 (2)		
		eL	15 36 45	LT	25	99.0 (2)		
		ePip	15 41 56	Z	1.4	6.7 (0)		
3	CP	eP	15 12 53.6	Z	1.1	9.3 (0)	63.0	4.78
		eP	15 12 59	LZ	17	53.0 (1)		
		e	15 13 00	Z	1.5	80.0 (0)		
		eS	15 21 35	LT	25	27.0 (2)		
		eLR	15 32 17	LZ	35	38.0 (2)		
		eL	15 36 40	LZ	24	73.0 (2)		
		eL	15 36 40	LR	25	21.0 (2)		
		eL	15 36 40	LT	25	53.0 (2)		
3	MN	eP	15 12 55.8	Z	0.9	5.1 (0)	63.0	4.60
		eP	15 12 56	LZ	17	30.0 (1)		
		e	15 13 02	Z	1.4	32.0 (0)		
		eS	15 21 36	LR	26	89.0 (1)		
		eS	15 21 36	LT	24	10.0 (2)		
		e	15 28 40	LT	25	16.0 (2)		
		eLQ	15 31 15	LR	42	22.0 (2)		
		eLR	15 32 08	LZ	999.9	99.9 (9)		
3	TF	eP	15 13 09.8	Z	0.6	5.3 (0)	66.0	4.87
		eP	15 13 10	LZ	12	10.0 (2)		
		e	15 13 17	Z	1.3	87.0 (0)		
		eS	15 22 04	LR	22	94.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	15 22 04	LT	21	66.0 (1)		
		e	15 29 41	LT	25	18.0 (2)		
		eLR	15 33 52	LZ	40	60.0 (2)		
		eL	15 39 10	LZ	23	47.0 (2)		
		eL	15 39 10	LR	24	62.0 (2)		
		eL	15 39 10	LT	22	36.0 (2)		
3	MV	eP	15 13 10.6	Z	1.0	8.2 (0)	66.0	4.84
		eP	15 13 12	LZ	10	19.0 (2)		
		e	15 13 18	Z	1.5	86.0 (0)		
		eS	15 22 08	LR	20	13.0 (3)		
		eS	15 22 08	LT	23	72.0 (1)		
		eSCS	15 23 05	LT	24	77.0 (1)		
		eG	15 29 28	LT	25	11.0 (2)		
		eLQ	15 31 40	LT	32	21.0 (2)		
		eLR	15 33 50	LZ	48	16.0 (3)		
							AVG.	4.85
3	MN	eP	16 52 24.9	Z	1.1	7.0 (0)		
3	LC	eP	16 52 54.4	Z	0.7	1.8 (0)		
3	LC	eP	17 11 10.8	Z	0.3	1.6 (0)	3.0	
		eS	17 11 48	T	0.4	4.9 (0)		
3	17 31 56.5		17.7 N 061.5 W				LEEWARD ISLANDS	
			H = 049 KM					
3	SJ	eP	17 38 48.5	Z	1.0	29.0 (0)	35.0	5.16
3	LC	eP	17 39 53.6	Z	1.1	30.0 (0)	43.0	4.94
3	CP	eP	17 40 59.4	Z	1.0	10.0 (0)	52.0	4.75
3	WI	eP	17 41 11.5	Z	0.9	8.5 (0)	53.0	4.72
3	MN	eP	17 41 12.4	Z	1.0	8.1 (0)	53.0	4.66
							AVG.	4.85
3	MN	eP	18 27 06.8	Z	999.9	99.9 (9)		
3	MN	eP	18 34 15.6	Z	0.5	2.6 (0)	2.5	
		eS	18 34 47	R	0.6	69.0 (0)		
3	FM	eP	19 19 19.6	Z	0.2	28.0 (0)	1.2	
		eS	19 19 35	R	0.3	90.0 (0)		
3	MN	eP	19 20 25.6	Z	0.6	0.8 (0)	5.4	
3	WI	eP	19 21 23.8	Z	0.9	4.3 (0)		
3	MN	eS	19 21 29	T	0.6	1.8 (0)	5.4	
3	LC	eP	19 36 38.4	Z	0.9	2.9 (0)		
3	CP	eP	20 37 07.0	Z	0.4	2.4 (0)	2.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MN	eS	20 37 44	T	0.4	7.5 (0)		
		eP	20 43 23.9	Z	999.9	99.9 (9)	0.6	
		eS	20 43 32	T	0.3	21.0 (0)		
3	CP	eP	20 57 39.7	Z	0.4	6.6 (0)	1.9	
		e	20 57 42	Z	0.3	24.0 (0)		
3	TF	eP	20 57 46.5	Z	0.2	14.0 (0)	3.0	
3	CP	eS	20 58 06	T	0.5	28.0 (0)	1.9	
3	TF	eS	20 58 25	T	0.5	34.0 (0)	3.0	
3	LC	eP	20 59 33.2	Z	0.2	17.0 (0)	1.4	
		eS	20 59 51	T	0.5	9.9 (0)		
3	MN	eLR	21 15 49	LZ	30	11.0 (1)		
3	MN	eL	21 18 35	LZ	30	22.0 (1)		
3	MN	eL	21 18 35	LR	35	89.0 (1)		
3	MN	eL	21 18 35	LT	30	22.0 (1)		
3	MN	eP	22 18 31.0	Z	0.6	2.3 (0)		
3	MN	eP	22 30 36.8	Z	0.5	1.4 (0)		
3	WI	eP	22 56 42.7	Z	999.9	99.9 (9)		
3	LC	eP	23 04 08.6	Z	1.0	2.4 (0)		
3	WI	eP	23 53 48.0	Z	1.1	6.9 (0)		
4	CP	eP	04 12 04.0	Z	0.2	1.7 (0)	1.0	
		eS	04 12 17	T	0.3	9.5 (0)		
4	05 31 33.6		43.0 N 015.8 E			ADRIATIC SEA		
			H =041 KM					
4	MN	iP	06 09 24.8C	Z	0.3	3.3 (0)	0.1	
		eS	06 09 28	R	0.4	8.0 (0)		
4	MV	eP	06 21 25.0	Z	0.3	3.2 (0)	1.4	
		e	06 21 32	Z	0.4	7.6 (0)		
		eS	06 21 42	T	0.5	31.0 (0)		
4	MN	eP	06 22 08.4	Z	0.6	0.7 (0)	1.7	
		eS	06 23 05	R	0.8	4.0 (0)		
4	TF	eL	07 35 30	LZ	22	24.0 (1)		
4	MN	eP	09 00 09.9	Z	0.3	8.2 (0)	0.1	
		eS	09 00 13	R	0.4	7.0 (0)		
4	15 21 56.9		30.3 N 070.0 E			WEST PAKISTAN		
			H =050 KM					
4	WI	eP	17 04 21.3	Z	0.6	2.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	18 50 40.1		07.5 N 080.9 W			SOUTH COAST PANAMA		
			H =056 KM					
4	SJ	eP	18 56 12.3	Z	1.0	39.0 (0)	26.0	5.05
4	WI	eP	22 21 02.8	Z	1.3	13.0 (0)		
5	MN	eP	01 57 24.5	Z	0.8	3.4 (0)		
5	MN	eP	02 30 43.2	Z	0.7	1.4 (0)		
5	MN	eP	05 27 05.0	Z	0.9	2.2 (0)		
5	LC	eP	05 28 35.9	Z	0.9	1.9 (0)		
5	DH	eP	05 30 03.2	Z	0.6	8.3 (0)		
5	CP	eP	07 04 45.1	Z	0.3	20.0 (0)	1.3	
		eS	07 05 02	R	0.3	32.0 (0)		
5	TF	eP	07 05 08.0	Z	0.3	5.5 (0)	3.0	
5	MN	eP	07 05 40.2	Z	0.8	3.4 (0)		
5	TF	eS	07 05 46	R	0.4	10.0 (0)	3.0	
5	MN	eP	09 47 44.5	Z	1.0	2.7 (0)		
5	LC	eP	10 24 14.7	Z	1.0	2.4 (0)		
5	LC	eL	10 33 55	LR	23	39.0 (1)		
5	TF	e	10 35 53	LR	25	31.0 (1)		
5	MN	e	10 37 35	LT	22	23.0 (1)		
5	TF	eL	10 38 05	LZ	22	77.0 (1)		
5	TF	eL	10 38 05	LR	23	20.0 (1)		
5	TF	eL	10 38 05	LT	23	72.0 (1)		
5	CP	eL	10 40 10	LZ	22	24.0 (2)		
5	CP	eL	10 40 10	LR	20	54.0 (1)		
5	CP	eL	10 40 10	LT	22	77.0 (1)		
5	MV	eL	10 40 10	LZ	22	96.0 (1)		
5	MV	eL	10 40 10	LT	22	22.0 (1)		
5	MN	eL	10 40 23	LZ	23	28.0 (1)		
5	MN	eL	10 40 23	LR	23	13.0 (1)		
5	MN	eL	10 40 23	LT	22	23.0 (1)		
5	10 51 19.7		38.9 N 075.5 E			SINKIANG PROVINCE, CHINA		
			H =140 KM					
5	LC	eP	12 20 04.2	Z	0.8	1.5 (0)		
5	FM	eP	12 20 49.5	Z	0.8	13.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	MN	eP	12 21 22.3	Z	0.7	2.7 (0)		
5	CP	eP	12 21 40.5	Z	0.6	2.4 (0)		
5	LC	eP	13 01 30.6	Z	1.0	7.2 (0)		
5	CP	eP	13 01 40.5	Z	1.0	5.7 (0)		
5	DH	eP	13 02 45.8	Z	0.6	8.3 (0)		
5	LC	e	13 07 35	LR	20	20.0 (1)		
5	SJ	e	13 09 15	LT	20	60.0 (1)		
5	MV	eL	13 09 42	LT	20	13.0 (1)		
5	LC	eL	13 10 37	LR	25	69.0 (1)		
5	SJ	eL	13 10 40	LR	28	17.0 (2)		
5	MN	eP	13 12 06.0	Z	0.3	13.0 (0)	1.0	
		eS	13 12 19	T	0.4	14.0 (0)		
5	MV	eP	13 12 22.4	Z	0.3	3.2 (0)	1.7	
5	TF	e	13 12 36	LR	25	20.0 (1)		
5	MV	eS	13 12 46	R	0.4	7.5 (0)	1.7	
5	CP	eL	13 13 11	LZ	20	10.0 (2)		
5	CP	eL	13 13 11	LR	20	54.0 (1)		
5	CP	eL	13 13 11	LT	20	48.0 (1)		
5	MN	eL	13 14 20	LZ	29	8.1 (0)		
5	TF	eL	13 14 23	LZ	22	18.0 (2)		
5	TF	eL	13 14 23	LR	20	41.0 (1)		
5	TF	eL	13 14 23	LT	24	96.0 (1)		
5	MN	eL	13 16 20	LZ	20	47.0 (1)		
5	MN	eL	13 16 20	LR	20	31.0 (1)		
5	MN	eL	13 16 20	LT	20	46.0 (1)		
5	MV	eL	13 16 38	LZ	24	15.0 (2)		
5	MV	eL	13 16 38	LR	24	56.0 (1)		
5	MV	eL	13 16 38	LT	25	43.0 (1)		
5	FM	eL	13 16 40	LZ	25	52.0 (1)		
5	DH	eP	15 58 22.7	Z	0.6	8.3 (0)		
5	DH	eP	16 02 20.9	Z	0.4	28.0 (0)	1.9	
		eS	16 02 46	R	0.4	55.0 (0)		
5	LC	eP	16 13 20.5	Z	0.8	4.5 (0)		
5	LC	eL	16 14 44	R	0.8	28.0 (0)		
5	LC	eL	16 15 00	LR	16	56.0 (1)		
5	LC	eL	16 16 45	R	0.8	25.0 (0)		
5	LC	eL	16 16 55	LR	16	56.0 (1)		
5	16 43 44.8		07.1 S 129.2 E				BANDA SEA	
			H =124 KM					
5	MN	eP	17 02 08.5	Z	0.7	1.4 (0)	112.0	
5	CP	eP	17 02 12.7	Z	0.6	2.4 (0)	115.0	
5	FM	eP	17 02 17.5	Z	0.7	10.0 (0)	116.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	LC	eP	17 02 29.1	Z	0.8	5.3 (0)	122.0	
5	SJ	eSKP	17 05 52.9	Z	0.6	41.0 (0)	131.0	
5	MN	eP	21 24 16.4	Z	0.4	11.0 (0)	0.6	
		eS	21 24 25	T	0.4	19.0 (0)		
5	22 29 45.0		38.0 N 112.1 W				SOUTHERN UTAH	
			H =025 KM					
5	FM	eP	22 30 04.3	Z	0.5	74.0 (1)	1.0	
		eS	22 30 21	R	0.5	76.0 (1)		
5	MN	eP	22 30 56.0	Z	0.5	2.6 (0)	4.5	3.97
		eS	22 32 08	T	0.6	8.8 (0)		
		eL	22 32 23	LT	16	52.0 (1)		
5	CP	eP	22 31 18.3	Z	0.3	2.8 (0)	6.0	4.42
		eL	22 32 54	R	0.7	8.7 (0)		
5	MV	eP	22 31 38.3	Z	0.7	3.3 (0)	8.0	4.52
		eL	22 33 31	T	0.7	12.0 (0)		
5	TF	eP	22 31 41.1	Z	0.5	6.2 (0)	8.0	4.94
5	LC	eP	22 31 48.7	Z	0.7	6.1 (0)	9.0	4.99
		e	22 31 58	Z	0.9	31.0 (0)		
		eL	22 33 27	R	0.9	91.0 (0)		
		eL	22 34 15	LR	12	79.0 (1)		
5	SJ	eL	22 37 59.5	Z	0.8	24.0 (0)	16.0	4.57
							AVG.	
6	02 29 04.8		08.8 S 153.9 E				NEW BRITAIN REGION	
			H =060 KM					
6	CP	eP	06 44 53.4	Z	0.4	1.8 (0)	1.8	
		eS	06 45 27	R	0.4	4.7 (0)		
6	CP	eP	08 17 58.9	Z	0.3	8.3 (0)		
6	08 48 51.6		20.0 S 169.1 E				LOYALTY ISLANDS REGION	
			H =017 KM					
6	10 33 05.8		38.2 S 073.3 W				CENTRAL CHILE	
			H =040 KM					
6	LC	eP	10 44 54.2	Z	1.0	7.2 (0)	77.0	4.64

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	FM	eP	10 57 57.3	Z	0.4	6.7 (0)	1.2	
		eS	10 58 12	R	0.5	36.0 (0)		
6	LC	eP	11 06 13.5	Z	0.9	3.9 (0)		
6	CP	eP	11 07 15.6	Z	1.0	2.8 (0)		
6	FM	eP	11 48 26.2	Z	0.5	3.7 (0)		
6	17 50 08.6		39.1 N 123.1 W	CALIFORNIA				
			H =023 KM	MAG 5.25-	PAS			
6	MV	eP	17 50 31.5	Z	999.9	99.9 (9)	1.3	
		eP	17 50 34	LZ	999.9	99.9 (9)		
6	MN	eP	17 51 08.5	Z	1.0	48.0 (1)	4.0	5.78
		eP	17 51 12	LZ	24	16.0 (2)		
		e	17 51 18	Z	1.0	29.0 (2)		
		eLG	17 52 12	T	1.5	13.0 (3)		
6	TF	eP	17 51 16.7	Z	0.8	61.0 (0)	4.5	5.13
		eP	17 51 18	LZ	12	80.0 (1)		
		e	17 51 31	LT	20	51.0 (2)		
		e	17 52 05	T	0.9	33.0 (1)		
		eL	17 53 02	LT	999.9	99.9 (9)		
6	CP	eP	17 52 08.7	Z	0.9	46.0 (0)	8.0	5.57
		eL	17 54 29	T	1.8	23.0 (1)		
6	FM	eP	17 52 13.8	Z	1.0	40.0 (0)	9.0	5.68
		eL	17 54 14	LT	999.9	99.9 (9)		
		eL	17 54 36	R	3.3	53.0 (2)		
6	LC	eP	17 53 43.8	Z	2.0	33.0 (1)	15.0	5.45
		eP	17 53 46	LZ	14	34.0 (1)		
		eL	17 57 35	LT	999.9	99.9 (9)		
		eL	17 58 07	T	3.0	45.0 (1)		
6	SJ	eP	17 55 24.5	Z	1.5	32.0 (1)	24.0	5.61
		eP	17 55 25	LZ	11	11.0 (2)		
		eS	17 59 31	LR	18	38.0 (2)		
		eS	17 59 31	LT	16	15.0 (2)		
		eL	18 02 03	LT	999.9	99.9 (9)		
6	DH	eL	18 08 10	LT	32	52.0 (2)	36.0	
		eL	18 08 10	LR	18	12.0 (2)		
							AVG.	5.53
6	MV	eP	19 00 38.0	Z	0.3	8.3 (0)	1.9	
		eS	19 01 03	T	0.3	10.0 (0)		
6	CP	eP	19 02 28.8	Z	0.6	2.4 (0)	0.4	
		eS	19 03 05	T	0.7	4.2 (0)		
6	19 38 13.6		44.7 N 149.0 E	KURILE ISLANDS				
			H =027 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	19 50 06.4	Z	0.8	1.5 (0)	77.0	4.09
6	20 02 37.0		28.1 N 139.8 E	BONIN ISLANDS REGION				
			H =421 KM					
6	MV	eP	20 13 58.0	Z	0.7	2.6 (0)	79.0	4.01
6	CP	eP	20 14 32.0	Z	0.9	6.9 (0)	86.0	4.42
6	LC	eP	20 15 05.7	Z	0.8	1.5 (0)	93.0	4.07
							AVG.	4.16
6	MV	eP	19 46 48.4	Z	0.2	33.0 (0)	1.8	
		eS	19 47 12	T	0.3	50.0 (0)		
6	LC	eP	21 22 01.2	Z	0.3	11.0 (0)	1.5	
		eS	21 22 18	T	0.4	11.0 (0)		
6	CP	eP	23 26 49.0	Z	0.5	40.0 (0)	2.9	
		eS	23 27 26	T	0.7	85.0 (0)		
6	CP	eP	23 44 37.3	Z	0.5	5.2 (0)	3.0	
		eS	23 45 15	T	0.5	14.0 (0)		
7	00 22 39.4		30.0 N 113.4 W	GULF OF CALIFORNIA				
			H =025 KM					
7	CP	eP	00 23 20.6	Z	0.8	11.0 (0)	2.5	
		e	00 23 32	Z	0.9	25.0 (1)		
		eL	00 24 36	LT	14	99.9 (9)		
		eL	00 24 38	T	1.1	53.0 (1)		
7	LC	eP	00 24 12.5	Z	0.8	20.0 (0)	7.0	4.95
		eLR	00 25 44	LR	17	88.0 (2)		
		eLG	00 26 02	R	0.8	82.0 (0)		
		eL	00 26 30	LZ	22	41.0 (2)		
		eL	00 26 30	LR	17	88.0 (2)		
		eL	00 26 30	LT	16	11.0 (3)		
7	TF	eP	00 24 28.5	Z	0.7	2.1 (0)	8.0	4.33
		eL	00 26 06	LR	19	99.9 (9)		
7	MN	eP	00 24 54.9	Z	1.4	13.0 (0)	10.0	5.09
		eL	00 27 37	LR	14	99.9 (9)		
		eL	00 27 43	T	1.8	14.0 (1)		
7	FM	eP	00 24 58.5	Z	0.5	3.7 (0)	10.0	5.07
		eL	00 27 19	LT	20	37.0 (2)		
		eL	00 27 25	R	2.4	46.0 (1)		
		eL	00 27 50	LR	20	18.0 (2)		
		eL	00 27 50	LZ	23	25.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MV	eL	00 27 50	LT	20	37.0 (2)		
		eLG	00 26 07	LT	26	14.0 (2)	6.0	
		eL	00 27 43	LT	21	99.9 (9)		
7	WI	eL	00 29 39	LT	23	23.0 (2)	11.0	
7	SJ	eL	00 29 26	LT	21	99.9 (9)	13.0	
		eL	00 29 53	T	3.1	19.0 (2)		
							AVG.	4.86
7	WI	eP	02 53 21.9	Z	1.1	5.6 (0)		
7	MV	eP	04 21 31.3	Z	0.4	55.0 (0)	1.8	
7	TF	eP	04 21 38.2	Z	0.5	15.0 (0)	3.0	
7	MN	eP	04 21 48.5	Z	0.5	1.3 (0)		
7	MN	e	04 21 54	Z	0.5	20.0 (0)		
7	MV	eS	04 21 55	T	0.6	12.0 (1)	1.8	
7	TF	eS	04 22 14	T	0.5	37.0 (0)	3.0	
7	WI	eP	04 22 20.3	Z	0.4	2.9 (0)		
7	MN	e	04 22 27	T	0.5	40.0 (0)		
7	WI	eL	04 23 41	T	0.6	30.0 (0)		
7	05 35 47.3		51.9 N 175.9 E				RAT ISLANDS REGION	
			H =050 KM					
7	MV	eP	05 43 54.7	Z	0.8	14.0 (0)	44.0	4.74
		ePCP	05 45 37	Z	0.7	12.0 (0)		
7	WI	eP	05 44 03.4	Z	0.7	6.6 (0)	45.0	4.57
		ePCP	05 45 42	Z	1.0	11.0 (0)		
7	MN	eP	05 44 14.0	Z	0.9	18.0 (0)	46.0	5.00
7	TF	eP	05 44 22.0	Z	0.8	21.0 (0)	48.0	5.17
		ePCP	05 45 49	Z	0.9	14.0 (0)		
7	FM	eP	05 44 37.5	Z	0.6	4.2 (0)	49.0	4.60
7	CP	eP	05 44 50.7	Z	0.8	16.0 (0)	51.0	5.05
7	LC	eP	05 45 35.5	Z	0.7	16.0 (0)	57.0	5.05
7	SJ	eP	05 46 33.5	Z	0.9	24.0 (0)	66.0	5.27
7	DH	eP	05 46 42.4	Z	0.7	27.0 (0)	67.0	5.44
							AVG.	4.99
7	LC	eP	08 35 18.8	Z	0.5	1.8 (0)		
7	CP	eP	08 36 22.3	Z	0.5	6.3 (0)	4.0	
		eS	08 37 11	T	0.6	11.0 (0)		
7	WI	eP	08 37 11.8	Z	0.5	4.8 (0)		
7	WI	eP	09 10 50.1	Z	1.1	2.8 (0)		
7	MN	eP	09 11 02.6	Z	0.9	1.4 (0)		
7	LC	eP	09 12 16.5	Z	0.8	1.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	CP	eP	10 45 43.4	Z	0.2	17.0 (0)	0.3	
		eS	10 45 49	T	0.3	28.0 (0)		
7	CP	eP	11 06 31.6	Z	0.4	1.9 (0)	4.5	
		eS	11 07 22	T	0.5	6.3 (0)		
7	FM	eP	11 42 01.8	Z	0.2	48.0 (0)	0.4	
		eS	11 42 11	R	0.3	26.0 (1)		
7	CP	eP	11 48 13.5	Z	0.2	48.0 (0)	0.4	
		eS	11 48 20	T	0.4	64.0 (0)		
7	LC	eP	15 07 54.7	Z	0.9	17.0 (0)		
7	FM	eP	15 08 40.5	Z	0.8	13.0 (0)		
7	CP	eP	15 08 59.5	Z	0.8	3.6 (0)		
7	WI	eP	15 09 13.3	Z	0.6	11.0 (0)		
7	MN	eP	15 09 14.0	Z	0.9	11.0 (0)		
7	TF	eP	15 09 22.4	Z	0.7	8.6 (0)		
7	MV	eP	15 09 31.3	Z	0.9	11.0 (0)		
7	MN	eP	15 16 10.5	Z	0.3	17.0 (0)	0.9	
		eS	15 16 23	T	0.5	40.0 (0)		
7	MV	eP	15 16 26.4	Z	0.3	9.8 (0)	1.7	
		eS	15 16 49	T	0.5	56.0 (0)		
7	CP	eP	17 19 27.6	Z	0.6	2.4 (0)	3.7	
		e	17 19 36	Z	0.5	42.0 (0)		
		eS	17 20 13	T	0.6	75.0 (0)		
7	LC	eP	17 20 21.0	Z	0.6	1.0 (0)		
7	LC	eL	17 21 59	R	0.9	9.9 (0)		
7	MN	eP	19 00 18.4	Z	0.3	7.6 (0)	1.5	
		eS	19 00 38	R	1.0	19.0 (0)		
7	CP	eP	19 12 49.7	Z	0.5	13.0 (0)	2.9	
		eS	19 13 25	T	0.5	21.0 (0)		
		eP	19 27 39.9	Z	0.5	5.3 (0)		
		eS	19 28 14	T	0.5	10.0 (0)		
7	WI	eP	22 48 30.0	Z	1.2	18.0 (0)		
7	MN	eP	22 48 57.2	Z	1.2	8.2 (0)		
8	MN	eP	00 31 21.7	Z	999.9	99.9 (9)		
8	01 31 59.9		18.1 S 178.4 W				FIJI ISLANDS	
			H =603 KM					
8	TF	eP	01 42 51.8	Z	1.0	67.0 (0)	76.0	5.13
8	CP	eP	01 42 58.6	Z	0.8	38.0 (0)	78.0	4.88
8	MV	eP	01 42 58.6C	Z	0.9	44.0 (0)	78.0	4.89

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MN	eP	01 43 07.5	Z	999.9	99.9 (9)	79.0	
		epP	01 45 14	Z	1.2	8.1 (0)		
8	WI	eP	01 43 17.7	Z	999.9	99.9 (9)	81.0	
		e	01 44 37	Z	1.2	10.0 (0)		
		epP	01 45 26	Z	1.4	11.6 (0)		
		ePP	01 46 33	Z	1.3	13.0 (0)		
8	FM	eP	01 43 30.0	Z	0.8	19.0 (0)	84.0	4.77
8	LC	iP	01 43 35.0C	Z	1.0	41.0 (0)	85.0	5.01
		epP	01 45 43	Z	1.0	4.5 (0)		
		ePP	01 47 02	Z	1.2	37.0 (0)		
8	SJ	eP	01 43 58.7	Z	0.8	25.0 (0)	90.0	5.19
							AVG.	4.97
8	CP	eP	02 59 44.3	Z	0.2	5.7 (0)	0.1	
		eS	02 59 48	T	0.3	14.0 (0)		
8	CP	eP	04 11 49.0	Z	0.4	4.7 (0)	6.0	
		eS	04 12 25	T	0.5	23.0 (0)		
8	WI	eP	05 37 26.7	Z	1.3	6.4 (0)		
8	06 28 03.4		39.3 N 119.7 W				WESTERN NEVADA	
			H =025 KM					
8	MN	eP	06 28 19.5	Z	999.9	99.9 (9)	1.0	
		eL	06 28 22	LT	12	14.0 (2)		
8	MV	eP	06 28 34.5	Z	999.9	99.9 (9)	1.0	
8	WI	iP	06 28 55.5C	Z	0.5	9.0 (0)	3.5	4.30
		eS	06 29 52	LT	18	10.0 (2)		
		eS	06 29 52	LR	15	54.0 (1)		
8	FM	eP	06 29 33.3	Z	0.6	2.2 (0)	6.0	4.39
		e	06 29 46	Z	0.7	10.0 (0)		
		eL	06 30 59	R	0.7	30.0 (0)		
8	CP	eP	06 29 40.9	Z	0.6	1.2 (0)	6.0	4.12
		eL	06 31 10	R	0.8	9.2 (0)		
8	TF	eL	06 29 45	LR	17	23.0 (2)	4.0	
		eL	06 30 03	LR	17	23.0 (2)		
		eL	06 30 03	LZ	16	14.0 (1)		
		eL	06 30 03	LT	17	18.0 (1)		
							AVG.	4.27
8	TF	eP	06 58 53.7	Z	0.3	14.0 (0)	0.1	
		eS	06 59 30	R	999.9	99.9 (9)		
8	MN	iP	06 59 44.5C	Z	0.3	7.5 (0)	0.9	
		eS	06 59 57	T	0.4	4.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MN	iP	08 35 04.3C	Z	999.9	99.9 (9)		
8	MV	eP	08 35 20.7	Z	999.9	99.9 (9)		
8	WI	eP	08 35 41.0	Z	0.5	3.0 (0)		
8	09 11 17.6		29.1 N 129.5 E				RYUKYU ISLANDS	
			H =042 KM					
8	WI	eP	09 23 56.7	Z	1.3	13.0 (0)	87.0	4.92
8	WI	eP	12 05 14.5	Z	1.0	4.1 (0)		
8	LC	eP	12 05 30.3	Z	1.0	4.5 (0)		
8	CP	eP	13 19 12.2	Z	0.6	1.2 (0)	0.3	
		e	13 19 17	Z	0.7	7.5 (0)		
8	LC	eP	13 19 49.0	Z	0.7	1.1 (0)		
8	CP	eS	13 20 05	T	0.7	11.0 (0)	0.3	
8	LC	eL	13 21 39	R	0.8	5.8 (0)		
8	LC	eP	13 40 59.5	Z	0.7	1.1 (0)		
8	LC	eL	13 42 53	R	0.7	3.5 (0)		
8	15 19 21.4		07.3 S 155.7 E				SOLOMON ISLANDS	
			H =054 KM					
8	MN	iP	15 30 17.8C	Z	999.9	99.9 (9)		
8	WI	eL	15 45 55	LR	25	14.0 (1)		
8	MN	eL	15 49 00	LZ	30	18.0 (1)		
8	WI	eL	15 49 54	LZ	23	34.0 (1)		
8	16 04 24.5		37.9 N 141.2 E				HONSHU, JAPAN	
			H =056 KM					
8	SJ	eP	17 09 01.0	Z	0.7	20.0 (0)		
8	TF	eL	17 25 00	LZ	25	51.0 (1)		
8	MV	eL	17 25 55	LZ	25	55.0 (1)		
8	MN	eL	17 26 47	LT	28	28.0 (1)		
8	WI	eL	17 27 15	LZ	25	21.0 (1)		
8	FM	eL	17 28 26	LZ	23	43.0 (1)		
8	LC	eL	17 29 27	LZ	25	36.0 (1)		
8	LC	eP	18 04 07.4	Z	0.2	4.5 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	TF	eS	18 04 25	T	0.3	6.3 (0)		
8	CP	eP	18 58 10.0	Z	999.9	99.9 (9)		
8	CP	e	18 58 41.4	Z	0.3	1.9 (0)		
8	CP	e	18 58 49	Z	0.4	8.5 (0)		
8	MN	eP	18 59 02.6	Z	0.5	0.6 (0)	0.4	
8	MV	eP	18 59 10.5	Z	0.6	4.1 (0)		
8	MV	e	18 59 14	T	0.6	11.0 (0)		
8	CP	eS	18 59 19	R	999.9	99.9 (9)		
8	MN	eS	19 00 04	T	0.8	19.0 (0)	0.4	
8	MV	eL	19 00 40	T	0.8	6.2 (0)		
8	FM	eP	19 14 27.5	Z	0.3	27.0 (0)	1.4	
		eS	19 14 44	R	0.3	10.0 (1)		
8	19 17 23.9		11.3 N 126.0 E				TIMOR SEA	
			H =060 KM					
8	FM	eP	19 21 49.0	Z	0.3	47.0 (0)	1.4	
		eS	19 22 05	R	0.3	15.0 (1)		
8	SJ	eP	19 40 07.0	Z	0.8	49.0 (0)		
8	DH	eP	19 40 08.7	Z	1.0	28.0 (0)		
8	MV	eP	19 45 36.5	Z	0.5	4.7 (0)	2.4	
		eS	19 46 06	T	0.6	8.3 (0)		
8	MN	eP	20 40 52.7	Z	0.8	3.1 (0)		
8	CP	eP	22 32 28.5	Z	0.5	2.1 (0)	5.2	
		e	22 32 34	Z	0.6	9.6 (0)		
		eS	22 33 30	T	0.8	38.0 (0)		
9	MN	eP	00 34 48.0	Z	0.3	4.4 (0)	0.1	
		eS	00 34 50	T	0.4	18.0 (0)		
9	01 35 49.0		51.6 N 177.2 W				ANDREANOF-ALEUTIAN ISLANDS	
			H =025 KM					
9	WI	eP	01 43 35.3	Z	0.7	2.1 (0)	41.0	4.00
		eLR	01 55 20	LZ	27	22.0 (1)		
		eL	01 56 40	LT	25	21.0 (1)		
		eL	01 56 40	LR	22	14.0 (1)		
		eL	01 56 40	LZ	26	21.0 (1)		
9	MN	eP	01 43 45.2	Z	0.6	2.1 (0)	42.0	4.07
		eLR	01 56 05	LZ	28	16.0 (1)		
		eL	01 57 10	LR	25	20.0 (1)		
		eL	01 57 10	LZ	25	15.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	LC	eL	01 57 10	LT	26	93.0 (0)		
9	FM	eP	01 45 11.3	Z	0.5	3.5 (0)	54.0	4.64
9	FM	eLR	01 58 28	LZ	30	12.0 (1)	46.0	
						AVG.		4.24
9	MN	eP	02 47 09.1	Z	0.3	2.2 (0)	1.2	
		eS	02 47 25	R	0.5	9.9 (0)		
9	MN	eP	02 49 46.6	Z	0.2	12.0 (0)	0.5	
		eS	02 49 54	T	0.3	31.0 (0)		
9	CP	eLR	03 08 17	LZ	23	20.0 (1)		
9	TF	eLR	03 09 15	LZ	25	30.0 (1)		
9	LC	eL	03 09 32	LZ	21	27.0 (1)		
9	MN	eL	03 11 20	LZ	24	25.0 (1)		
9	MV	eLR	03 11 23	LZ	23			
9	WI	eLR	03 12 58	LZ	22	14.0 (1)		
9	TF	eP	04 01 18.5	Z	0.2	17.0 (0)	2.8	
		eS	04 01 53	T	0.5	32.0 (0)		
9	CP	eP	04 08 53.0	Z	0.2	3.4 (0)	3.7	
9	CP	eS	04 09 08	T	0.3	12.0 (0)	1.2	
9	06 04 55.8		21.1 S 178.3 E				FIJI ISLANDS	
			H =339 KM					
9	MN	eP	06 12 52.5	Z	1.0	1.7 (0)		
9	WI	eP	07 13 16.5	Z	0.9	1.7 (0)		
9	07 40 18.5		09.0 N 126.6 E				MINDANAO, PHILIPPINE IS.	
			H =065 KM					
9	10 25 40.3		05.9 S 147.0 E				BISMARCK SEA	
			H =072 KM					
9	TF	eP	12 52 29.2	Z	0.2	17.0 (0)	0.7	
		eS	12 52 39	T	0.3	41.0 (0)		
9	MN	eP	13 07 58.3	Z	999.9	99.9 (9)		
9	MN	eP	13 17 04.6	Z	0.3	2.7 (0)	0.1	
		eS	13 17 07	T	0.4	4.9 (0)		
9	13 25 48.1		23.3 S 066.4 W				BOLIVIA-ARGENTINA BORDER	
			H =184 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	LC	eP	13 36 24.4	Z	0.8	3.0 (0)	66.0	4.11
9	CP	eP	13 37 00.8	Z	0.8	1.8 (0)	73.0	3.87
9	FM	eP	13 37 14.8	Z	0.6	4.3 (0)	76.0	4.37
9	MN	eP	13 37 28.9	Z	1.0	3.4 (0)	78.0	4.05
9	TF	eP	13 37 33.2	Z	1.0	8.4 (0)	79.0	4.52
9	WI	eP	13 37 38.5	Z	1.0	16.0 (0)	80.0	4.72
							AVG.	4.27
9	DH	eP	14 23 39.0	Z	0.4	25.0 (0)	0.8	
		eS	14 23 50	R	0.5	33.0 (0)		
9	TF	eP	14 52 28.9	Z	0.2	24.0 (0)	0.9	
		eS	14 52 41	T	0.3	38.0 (0)		
9	MN	eP	15 25 03.0	Z	1.0	3.4 (0)		
9	WI	eP	15 25 28.0	Z	1.0	2.0 (0)		
9	CP	eLR	15 43 38	LZ	21	40.0 (1)		
9	LC	eLR	15 44 40	LZ	22	54.0 (1)		
9	TF	eLR	15 44 48	LZ	25	71.0 (1)		
9	MN	eLR	15 46 37	LZ	23	49.0 (1)		
9	MV	eLR	15 46 37	LZ	25			
9	FM	eLR	15 47 25	LZ	28	23.0 (1)		
9	WI	eLR	15 48 13	LZ	26	42.0 (1)		
9	LC	eP	16 07 57.2	Z	1.0	4.8 (0)		
9	DH	eP	17 03 06.2	Z	0.3	6.2 (0)	1.8	
		eS	17 03 31	R	0.5	25.0 (0)		
9	MN	eP	18 07 16.4	Z	1.0	3.4 (0)		
9	WI	eP	18 07 20.0	Z	1.0	4.1 (0)		
9	19 57 35.5		13.6 N 091.2 W			OFF COAST OF GUATEMALA		
			H =104 KM					
9	SJ	eP	20 01 09.5	Z	0.7	12.0 (1)	16.0	5.24
		eLR	20 05 18	LT	30	25.0 (2)		
		eL	20 14 30	LT	20	18.0 (2)		
		eL	20 14 30	LZ	16	69.0 (1)		
		eL	20 14 30	LR	25	11.0 (2)		
9	LC	eP	20 02 37.2	Z	0.8	47.0 (0)	24.0	4.98
		eS	20 07 02	T	3.0	23.0 (1)		
		eS	20 07 02	R	3.0	18.0 (1)		
		e	20 10 12	Z	1.1	6.2 (0)		
9	CP	eP	20 03 34.2	Z	1.0	25.0 (0)	30.0	4.90
		ePCP	20 06 33	Z	1.0	11.0 (0)		
9	DH	eP	20 03 51.3	Z	0.8	48.0 (0)	32.0	5.28

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePCP	20 06 39	Z	0.9	31.0 (0)		
		eS	20 09 08	LT	26	62.0 (1)		
		eS	20 09 08	LR	26	38.0 (1)		
		eLR	20 13 00	LZ	36	16.0 (2)		
		eL	20 17 55	LZ	19	19.0 (2)		
		eL	20 17 55	LR	18	20.0 (2)		
		eL	20 17 55	LT	18	36.0 (1)		
9	FM	eP	20 03 51.4	Z	1.0	61.0 (0)	32.0	5.28
		ePCP	20 06 38	Z	0.8	13.0 (0)		
9	TF	eP	20 04 08.2	Z	1.5	83.0 (0)	34.0	5.34
		ePCP	20 06 44	Z	1.0	8.4 (0)		
9	MN	eP	20 04 14.9	Z	1.0	81.0 (0)	35.0	5.60
		ePCP	20 06 46	Z	0.9	18.0 (0)		
9	WI	eP	20 04 27.9	Z	0.8	44.0 (0)	36.0	5.43
		ePP	20 06 07	Z	1.0	12.0 (0)		
		e	20 10 56	Z	0.7	2.1 (0)		
9	MV	eP	20 04 34.6	Z	1.0	13.0 (0)	37.0	4.80
		ePCP	20 06 53	Z	1.0	6.4 (0)		
							AVG.	5.20
9	LC	eP	20 32 45.9	Z	0.2	21.0 (0)	1.5	
		eS	20 33 05	T	0.3	8.6 (0)		
9	MN	eP	21 33 54.2	Z	1.0	8.4 (0)		
9	WI	eP	21 33 58.0	Z	1.2	10.0 (0)		
9	MV	eP	21 34 00.0	Z	1.0	6.4 (0)		
10	LC	eP	00 02 26.6	Z	0.8	4.5 (0)		
10	TF	eP	00 28 21.0	Z	0.3	5.4 (0)	1.6	
		eS	00 28 43	R	0.4	14.0 (0)		
10	02 59 44.8		20.9 S 170.8 E			LOYALTY ISLANDS REGION		
			H =031 KM					
10	CP	eP	04 58 33.3	Z	0.3	11.0 (0)	0.2	
		eS	04 58 38	T	0.3	11.0 (0)		
10	CP	eP	06 07 04.5	Z	0.4	5.6 (0)	2.4	
		eS	06 07 36	R	0.5	11.0 (0)		
10	CP	eP	06 14 26.5	Z	0.5	2.0 (0)	3.9	
		eS	06 15 14	T	0.5	3.2 (0)		
10	LC	eP	06 17 11.8	Z	0.7	2.4 (0)		
10	MN	eP	07 18 50.8	Z	0.3	60.0 (0)	0.9	
		eS	07 19 03	R	0.5	8.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
10	MV	eP eS	07 19 07.0 07 19 31	Z T	0.5 0.5	3.4 (0) 14.0 (0)	1.8		
10	LC	eP	09 52 04.3	Z	0.8	1.5 (0)			
10	CP	eP eS	11 49 31.2 11 49 46	Z T	0.2 0.3	3.4 (0) 15.0 (0)	1.1		
10	CP	eP eS	12 30 53.3 12 31 03	Z T	0.2 0.3	5.6 (0) 34.0 (0)	0.7		
10	MV	eP e	12 37 11.1 12 37 18	Z Z	0.4 0.5	14.0 (0) 22.0 (0)	2.3		
		eS	12 37 41	T	0.5	59.0 (0)			
10	WI	eP	12 37 47.5	Z	0.5	3.0 (0)			
10	MN	eP	12 37 47.7	Z	0.9	14.0 (0)			
10	TF	eP	12 38 00.8	Z	0.3	5.4 (0)	5.4		
10	WI	e	12 38 05	Z	0.9	29.0 (0)			
10	MV	eL	12 38 11	LT	19	36.0 (1)	2.3		
10	FM	eP	12 38 48.7	Z	0.9	8.2 (0)			
10	TF	e	12 38 49	LT	23	84.0 (0)	5.4		
10	WI	eL	12 39 03	T	1.0	50.0 (0)			
10	TF	eS	12 39 05	T	0.5	8.4 (0)	5.4		
10	WI	eL	12 39 17	LZ	22	20.0 (1)			
10	MN	eL	12 39 24	T	1.0	37.0 (0)			
10	MN	eL	12 39 26	LT	20	25.0 (2)			
10	TF	eL	12 39 44	LR	17	17.0 (2)	5.4		
10	LC	eP	12 40 23.3	Z	1.0	2.3 (0)			
10	FM	eL	12 41 45	LZ	21	32.0 (1)			
10	CP	eL	12 41 48	LT	20	52.0 (1)			
10	SJ	eL	12 49 53	LT	19	59.0 (2)			
10	13 54	01.4	30.5 N 138.6 E H =384 KM	BONIN ISLANDS REGION					
10	MV	eP	14 05 21.0	Z	1.0	3.1 (0)	78.0	3.99	
10	WI	eP	14 05 29.1	Z	1.0	4.0 (0)	80.0	4.12	
10	MN	eP	14 05 34.7	Z	0.9	2.7 (0)	81.0	3.98	
10	CP	eP	14 05 55.8	Z	0.9	4.6 (0)	85.0	4.31	
						AVG.		4.10	
10	CP	eP eS	14 17 03.9 14 17 15	Z T	0.2 0.3	6.7 (0) 15.0 (0)	0.8		
10	LC	eP	14 20 50.8	Z	0.5	2.6 (0)			
10	DH	eP	14 22 05.4	Z	0.6	7.5 (0)			
10	MN	eP	14 22 30.6	Z	0.7	3.4 (0)			
10	WI	eP	14 22 42.6	Z	0.7	6.0 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
10	MN	e	14 25 06	Z	0.6	1.4 (0)			
10	SJ	eP	16 06 31.6	Z	1.0	38.0 (0)			
10	MN	eP eS	16 07 29.1 16 07 32	Z T	0.3 0.4	7.1 (0) 24.0 (0)	0.1		
10	MN	eP	16 10 14.0	Z	1.5	11.0 (0)			
10	WI	eP	16 10 30.4	Z	1.5	20.0 (0)			
10	LC	eP	16 10 53.2	Z					
10	MN	e	16 18 53	LT	25	27.0 (1)			
10	TF	eL	16 23 09	Z	2.0	11.0 (1)			
10	CP	eL	16 23 26	LZ	25	81.0 (1)			
10	MV	eL	16 24 00	LZ	28	12.0 (2)			
10	MN	eL	16 24 35	LZ	21	92.0 (1)			
10	WI	eL	16 25 42	LZ	38	96.0 (1)			
10	LC	eL	16 27 08	LZ	22	90.0 (1)			
10	FM	eL	16 27 43	LZ	25	64.0 (1)			
10	SJ	eL	16 30 35	LT	20	18.0 (2)			
10	DH	eL	16 40 52	LZ	40	16.0 (2)			
10	SJ	eP	17 12 35.3	Z	1.0	38.0 (0)			
10	17 25	11.3	19.0 S 167.1 E H =120 KM	LOYALTY ISLANDS REGION					
10	FM	eP	17 46 00.2	Z	1.0	10.0 (0)			
10	MN	eP	17 46 09.1	Z	1.0	6.7 (0)			
10	WI	eP	17 46 13.2	Z	1.0	6.0 (1)			
10	CP	eP eS	19 02 43.1 19 03 16	Z T	0.4 0.5	4.5 (0) 8.5 (0)	2.6		
10	MN	eP eS	19 29 44.1 19 30 10	Z T	0.3 0.4	7.1 (0) 26.0 (0)	1.9		
10	FM	eP eS	19 30 21.1 19 31 06	Z T	0.5 0.5	74.0 (0) 14.0 (0)	3.6		
10	FM	eP	22 47 56.4	Z	0.5	3.7 (0)			
11	00 52	47.3	49.7 N 129.3 W H =025 KM	VANCOUVER ISLAND REGION					
11	WI	eP eP e eS	00 55 36.9 00 55 37 00 55 44 00 57 55	Z LZ Z LR	1.2 15 1.2 25	77.0 (0) 21.0 (1) 51.0 (0) 27.0 (1)	12.0	5.73	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	00 57 55	LT	25	49.0 (1)		
		eLQ	00 58 45	LT	27	12.0 (2)		
		eL	00 59 00	LZ	25	68.0 (1)		
		eL	00 59 00	LR	25	11.0 (2)		
		eL	00 59 00	LT	25	12.0 (2)		
11	MV	eP	00 55 39.0	Z	1.0	13.0 (0)	12.0	5.04
		eL	00 58 00	LT	18	71.0 (1)		
		eL	00 59 00	LZ	18	19.0 (2)		
		eL	00 59 00	LT	18	35.0 (1)		
11	MN	eP	00 56 03.5	Z	1.2	14.0 (0)	14.0	4.52
		eS	00 58 35	LR	18	48.0 (1)		
		eS	00 58 35	LT	23	74.0 (1)		
		eLQ	00 59 25	LT	30	19.0 (2)		
		eLR	01 00 35	LZ	16	66.0 (1)		
		eL	01 00 35	LR	19	64.0 (1)		
		eL	01 00 35	LT	19	15.0 (2)		
11	TF	eP	00 56 03.5	Z	1.0	17.0 (0)	14.0	4.67
11	FM	eP	00 56 32.8	Z	1.1	17.0 (0)	16.0	4.11
		eL	01 01 00	LT	23	59.0 (1)		
		eL	01 01 00	LZ	24	83.0 (1)		
		eL	01 01 00	LR	23	10.0 (2)		
11	CP	eP	00 57 14.3	Z	1.5	33.0 (0)	20.0	4.37
		eLR	01 03 12	LZ	21	60.0 (1)		
		eL	01 03 12	LR	21	84.0 (1)		
		eL	01 03 12	LT	21	50.0 (1)		
11	SJ	eP	00 58 02.0	Z	1.0	20.0 (0)	24.0	5.58
		e	00 59 18	Z	1.0	20.0 (0)		
		eL	01 08 43	LT	22	13.0 (2)		
11	LC	eP	00 58 03.5	Z	1.0	9.6 (0)	24.0	4.26
		eLQ	01 04 50	LR	25	36.0 (1)		
		eLR	01 07 34	LZ	10	69.0 (2)		
11	DH	eL	01 03 25	LZ	30	48.0 (1)	37.0	
		eL	01 05 50	LZ	16	36.0 (2)		
		eL	01 05 50	LR	16	24.0 (2)		
		eL	01 05 50	LT	16	15.0 (1)		
							AVG.	4.79
11	02 05 43.3		19.0 S 168.8 E				NEW HEBRIDES ISLANDS	
			H =085 KM					
11	WI	eP	02 18 36.8	Z	0.5	1.5 (0)	90.0	4.39
11	LC	eP	02 56 25.3	Z	0.5	1.3 (0)		
11	04 35 00.6		19.6 S 177.7 W				FIJI ISLANDS	
			H =370 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	TF	eP	04 46 17.5	Z	1.0	42.0 (0)	78.0	5.12
11	CP	eP	04 46 23.6	Z	1.0	31.0 (0)	79.0	5.02
11	MV	eP	04 46 24.8	Z	1.0	22.0 (0)	80.0	4.87
11	MN	eP	04 46 33.0	Z	1.3	46.0 (0)	80.0	5.07
		epP	04 48 03	Z	1.5	17.0 (0)		
11	WI	eP	04 46 44.0	Z	1.1	32.0 (0)	83.0	4.82
		e	04 46 56	Z	1.3	12.0 (0)		
11	FM	eP	04 46 55.3	Z	0.8	8.2 (0)	85.0	4.61
11	LC	eP	04 46 59.5	Z	1.0	34.0 (0)	86.0	5.13
		e	04 47 10	Z	1.0	7.2 (0)		
		epP	04 48 30	Z	2.0	34.0 (0)		
							AVG.	4.95
11	MN	eP	06 05 33.7	Z	0.3	2.8 (0)	0.7	
		eS	06 05 44	R	0.3	14.0 (0)		
11	DH	eP	06 19 56.8	Z	0.9	15.0 (0)		
11	07 15 37.6		43.5 N 018.3 E				YUGOSLAVIA	
			H =021 KM					
11	DH	eP	07 26 16.9	Z	1.0	38.0 (0)	65.0	5.64
		eL	07 44 40	LT	40	59.0 (2)		
		eL	07 48 30	LZ	22	21.0 (2)		
		eL	07 48 30	LR	25	21.0 (2)		
		eL	07 48 30	LT	24	14.0 (2)		
11	FM	eP	07 28 23.0	Z	0.7	6.6 (0)	87.0	4.93
		eS	07 38 55	LT	20	29.0 (1)		
		eS	07 38 55	LR	20	67.0 (1)		
		eLQ	07 55 48	LT	38	16.0 (2)		
		eLR	07 59 42	LZ	24	10.0 (2)		
		eL	08 01 00	LT	25	36.0 (2)		
		eL	08 01 00	LZ	25	52.0 (1)		
		eL	08 01 00	LR	25	17.0 (2)		
11	WI	eP	07 28 24.0	Z	1.0	25.0 (0)	87.0	5.36
		eS	07 39 06	LR	25	67.0 (1)		
		eS	07 39 06	LT	24	49.0 (1)		
		eSS	07 45 45	LR	40	18.0 (2)		
		eLQ	07 53 50	LT	45	60.0 (2)		
		eLR	07 58 10	LZ	40	22.0 (2)		
		eL	08 03 00	LZ	23	88.0 (1)		
		eL	08 03 00	LR	20	22.0 (2)		
		eL	08 03 00	LT	20	39.0 (2)		
11	LC	eP	07 28 35.5	Z	1.0	19.0 (0)	89.0	5.26
		eS	07 39 30	LR	25	22.0 (1)		
		eLQ	07 56 10	LR	32	17.0 (2)		
		eL	08 02 20	LR	23	28.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	SJ	eL	08 02 20	LZ	22	77.0 (1)	90.0	5.37
		eP	07 28 36.0	Z	1.2	32.0 (0)		
		eS	07 39 23	LR	18	77.0 (1)		
		eS	07 39 23	LT	20	79.0 (1)		
		eL	07 59 25	LT	28	16.0 (2)		
		eL	08 01 20	LT	25	18.0 (2)		
		eL	08 01 20	LR	25	20.0 (2)		
		eL	08 01 20	LZ	23	34.0 (1)		
		eP	07 28 36.5	Z	1.0	6.8 (0)		
		ePS	07 40 37	LT	25	46.0 (1)		
11	MN	eSS	07 45 33	LT	35	10.0 (2)	90.0	4.81
		eSSS	07 49 12	LT	25	55.0 (1)		
		e	07 52 25	LZ	30	66.0 (1)		
		eLQ	07 54 20	LR	50	34.0 (2)		
		eLR	07 59 15	LZ	40	18.0 (2)		
		eL	08 05 15	LZ	22	10.0 (2)		
		eL	08 05 15	LR	20	33.0 (2)		
		eL	08 05 15	LT	21	12.0 (2)		
		eP	07 28 38.2	Z	1.2	10.0 (0)		
		eL	08 00 25	LZ	32	33.0 (2)		
11	MV	eL	08 06 40	LT	24	14.0 (2)	90.0	4.90
		eL	08 06 40	LZ	25	43.0 (2)		
		eP	07 28 56.1	Z	1.0	17.0 (0)		
		eL	08 06 40	LZ	25	43.0 (2)		
11	TF	eP	07 28 56.1	Z	1.0	17.0 (0)	94.0	5.35
		eLQ	07 57 00	LR	37	27.0 (2)		
		eLR	08 01 35	LZ	36	16.0 (2)		
		eL	08 09 25	LZ	22	25.0 (2)		
		eL	08 09 25	LR	22	21.0 (2)		
11	CP	eP	07 28 56.2	Z	1.3	24.0 (0)	94.0	5.39
		eLQ	08 00 20	LT	35	13.0 (2)		
		eLR	08 03 33	LZ	30	11.0 (2)		
		eL	08 08 20	LT	22	23.0 (2)		
		eL	08 08 20	LZ	20	12.0 (2)		
		eL	08 08 20	LR	21	21.0 (2)		
		AVG.						
11	LC	eP	07 38 24.0	Z	0.6	1.0 (0)		
11	LC	e	07 38 37	Z	0.7	4.2 (0)		
11	MN	eP	07 40 22.0	Z	0.8	3.2 (0)		
11	MV	eP	08 10 53.9	Z	0.5	4.7 (0)	1.7	
11	MN	eP	08 11 14.8	Z	0.5	1.9 (0)	3.2	
11	MV	eS	08 11 17	R	0.5	9.1 (0)	1.7	
11	MN	eS	08 11 54	R	0.5	3.1 (0)	3.2	
11	LC	eP	08 36 55.5	Z	0.9	5.9 (0)		
11	LC	eP	12 56 08.3	Z	0.7	1.8 (0)		
11	MN	eP	12 57 59.0	Z	1.5	17.0 (0)		
11	LC	eL	12 58 35	Z	1.0	5.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	LC	eL	12 58 38	LR	19	10.0 (2)		
11	SJ	eL	12 59 31	R	2.2	53.0 (1)		
11	SJ	eL	13 00 05	LZ	15	14.0 (2)		
11	SJ	eL	13 00 05	LR	15	12.0 (2)		
11	SJ	eL	13 00 05	LT	17	14.0 (2)		
11	TF	eL	13 01 15	LR	27	67.0 (1)		
11	MN	eL	13 02 05	LT	23	32.0 (1)		
11	TF	eL	13 03 00	LZ	17	38.0 (1)		
11	TF	eL	13 03 00	LR	16	44.0 (1)		
11	WI	eL	13 03 22	LT	22	42.0 (1)		
11	MN	eP	13 20 54.2	Z	0.3	31.0 (0)		
11	CP	eP	15 23 43.0	Z	0.8	3.6 (0)		
11	CP	e	15 24 31	Z	1.0	5.7 (0)		
11	MV	eP	15 30 38.0	Z	0.3	6.3 (0)	2.1	
		eS	15 31 05	R	0.4	5.1 (0)		
11	DH	eP	15 48 22.4	Z	0.7	9.5 (0)		
11	LC	eP	15 49 03.6	Z	0.8	5.3 (0)		
11	LC	e	15 49 38	Z	0.9	5.9 (0)		
11	17 02	16.4	10.6 S 164.7 E	SANTA CRUZ ISLANDS REGION				
			H = 132 KM					
11	MN	eP	17 14 49.0	Z	1.0	3.4 (0)	87.0	4.27
11	CP	eP	19 11 20.5	Z	0.5	6.3 (0)	3.3	
		e	19 11 25	Z	0.5	42.0 (0)		
		eS	19 12 01	R	0.5	99.0 (0)		
11	LC	eP	19 12 25.5	Z	0.8	3.0 (0)		
11	MN	eP	19 12 46.7	Z	1.0	3.4 (0)		
11	WI	eP	19 13 24.1	Z	1.3	4.2 (0)		
11	LC	eL	19 14 33	LR	20	37.0 (1)		
11	LC	e	19 14 53	Z	1.2	5.9 (0)		
11	MN	eL	19 15 35	LR	19	54.0 (1)		
11	MN	eL	19 15 35	LT	19	50.0 (1)		
11	MN	e	19 15 39	Z	1.7	24.0 (0)		
11	FM	eL	19 15 57	LZ	20	42.0 (1)		
11	WI	eL	19 16 40	LZ	24	27.0 (1)		
11	WI	eL	19 16 40	LR	23	20.0 (1)		
11	WI	eL	19 16 40	LT	24	63.0 (1)		
11	21 46	44.5	17.3 N 147.4 E	MARIANA ISLANDS				
			H = 019 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	WI	eP	21 59 08.2	Z	1.0	6.0 (0)	83.0	4.72
11	MN	eP	21 59 09.7	Z	0.8	2.1 (0)	83.0	4.26
						AVG.		4.49
11	WI	eP	22 43 14.8	Z	1.1	5.3 (0)		
11	MV	eP	22 48 45.6	Z	0.5	7.1 (0)	1.8	
		eS	22 49 10	R	0.5	11.0 (0)		
12	CP	eP	02 37 56.8	Z	0.5	3.2 (0)		
12	LC	eP	02 38 29.0	Z	0.8	2.9 (0)		
12	CP	eL	02 38 52	T	0.8	4.5 (0)		
12	CP	eL	02 38 54	LT	14	38.0 (2)		
12	WI	eL	02 39 48	R	2.0	32.0 (0)		
12	TF	eL	02 40 25	LZ	15	28.0 (2)		
12	LC	eL	02 40 28	T	1.0	19.0 (0)		
12	MN	eL	02 41 26	R	1.2	2.3 (0)		
12	MN	eL	02 41 30	LR	22	98.0 (1)		
12	FM	eL	02 42 05	LT	15	55.0 (1)		
12	WI	eL	02 42 30	LT	15	66.0 (1)		
12	MV	eL	02 42 40	LT	17	61.0 (1)		
12	FM	eL	02 42 45	LZ	18	37.0 (1)		
12	FM	eL	02 42 45	LT	15	55.0 (1)		
12	WI	eL	02 43 50	LZ	22	30.0 (1)		
12	WI	eL	02 43 50	LR	15	21.0 (1)		
12	SJ	eL	02 44 25	LZ	20	41.0 (1)		
12	SJ	eL	02 45 02	LZ	20	41.0 (1)		
12	SJ	eL	02 45 02	LR	25	78.0 (1)		
12	SJ	eL	02 45 02	LT	17	11.0 (2)		
12	DH	eL	02 54 40	LT	18	72.0 (1)		
12	DH	eL	02 55 05	LR	18	31.0 (1)		
12	DH	eL	02 55 05	LT	18	72.0 (1)		
12	TF	eP	07 55 27.6	Z	0.3	8.2 (0)	1.5	
		eS	07 55 41	T	0.5	35.0 (0)		
12	09 46 27.0		65.0 N 016.6 W H =028 KM	ICELAND				
12	LC	eP	09 56 42.8	Z	1.0	4.7 (0)	61.0	4.54
12	MN	eL	10 17 20	LR	25	28.0 (1)	71.0	
12	MN	eP	10 12 39.5	Z	1.0	3.4 (0)		
12	WI	eP	11 23 04.0	Z	1.0	4.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	13 45 40.6		13.2 S 167.2 E H =233 KM	NEW HEBRIDES ISLANDS				
12	MV	eP	13 57 53.2	Z	0.8	3.9 (0)	85.0	4.22
		epP	13 58 47	Z	1.3	19.0 (0)		
12	MN	eP	13 58 02.5	Z	1.0	3.4 (0)	87.0	4.17
		epP	13 58 54	Z	1.2	8.4 (0)		
12	WI	epP	13 59 02	Z	1.4	11.0 (0)	87.0	
						AVG.		4.20
12	WI	eL	12 43 50	LT	15	66.0 (1)		
12	MN	eP	14 15 08.5	Z	0.3	2.4 (0)	0.1	
		eS	14 15 12	T	999.9	99.9 (9)		
12	MN	eP	15 30 17.5	Z	999.9	99.9 (9)		
12	MV	eP	15 30 38.0	Z	0.3	5.1 (0)	0.4	
12	TF	eP	15 30 49.0	Z	0.5	3.1 (0)	0.1	
		eS	15 30 52.2	T	1.0	16.0 (0)		
12	MV	eS	15 31 08	T	0.5	9.6 (0)	0.4	
12	TF	eL	15 59 35	LZ	25	69.0 (1)		
12	CP	eL	16 00 15	LZ	25	40.0 (1)		
12	MV	eL	16 00 27	LT	27	25.0 (1)		
12	MN	eL	16 00 57	LZ	25	44.0 (1)		
12	TF	eL	16 01 15	LZ	20	79.0 (1)		
12	TF	eL	16 01 15	LR	20	63.0 (1)		
12	FM	eL	16 03 05	LZ	35	33.0 (1)		
12	MN	eL	16 04 05	LZ	17	44.0 (1)		
12	MN	eL	16 04 05	LR	17	12.0 (1)		
12	MN	eL	16 04 05	LT	20	36.0 (1)		
12	FM	eL	16 04 10	LZ	25	31.0 (1)		
12	FM	eL	16 04 10	LR	25	31.0 (1)		
12	SJ	eL	16 07 40	LZ	25	30.0 (1)		
12	MN	eP	17 09 48.0	Z	0.3	2.4 (0)		
12	LC	eP	20 37 03.3	Z	0.4	3.9 (0)	0.5	
		eS	20 37 11	T	0.5	11.0 (0)		
12	LC	eP	20 41 07.6	Z	0.3	4.2 (0)	6.3	
		eS	20 41 19	T	0.5	22.0 (0)		
12	LC	eP	21 38 44.8	Z	0.3	7.6 (0)	1.5	
		eS	21 39 04	R	0.4	8.7 (0)		
13	MV	eP	06 57 43.5	Z	0.3	3.2 (0)	1.6	
		eS	06 58 05	R	0.4	13.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	CP	eP	07 08 39.9	Z	0.2	30.0 (0)	0.4	
		eS	07 08 46	T	999.9	99.9 (9)		
		eP	07 13 33.9	Z	0.2	20.0 (0)		
		eS	07 13 40	T	0.3	30.0 (0)		
13	MV	eP	10 21 52.0	Z	0.4	17.0 (0)	0.9	
		eS	10 22 06	T	0.5	19.0 (0)		
13	FM	eP	12 14 35.5	Z	0.3	11.0 (0)	1.5	
		eS	12 14 55	R	0.5	48.0 (0)		
13	CP	eP	13 02 07.6	Z	0.2	7.7 (0)	1.5	
		eS	13 02 27	T	0.3	15.0 (0)		
13	WI	eP	15 59 04.3	Z	0.3	11.0 (0)	0.1	
		eS	15 59 08	T	0.4	14.0 (0)		
13	LC	eP	18 53 19.6	Z	0.3	5.5 (0)	1.5	
		eS	18 53 39	T	0.4	7.8 (0)		
13	19 08 45.7		24.2 S 176.3 W				TONGA ISLANDS REGION	
			H = 025 KM					
13	WI	eP	19 21 23.3	Z	0.7	1.8 (0)	85.0	4.34
13	LC	eP	19 21 34.4	Z	1.1	4.7 (0)	87.0	4.52
						AVG.		4.43
13	MV	eP	22 30 32.5	Z	0.3	5.3 (0)	1.2	
		eS	22 30 48	T	0.4	11.0 (0)		
14	TF	eP	01 14 14.2	Z	0.9	7.0 (0)		
14	LC	eP	03 52 41.8	Z	0.9	7.7 (0)		
14	LC	eP	07 28 56.0	Z	0.5	2.6 (0)	3.3	
		eS	07 29 37	R	0.5	14.0 (0)		
14	CP	eP	07 48 57.3	Z	0.2	4.6 (0)	0.4	
		eS	07 49 04	T	0.2	30.0 (0)		
14	07 51 51.0		54.3 N 169.1 E				NEAR ALEUTIAN ISLANDS	
			H = 034 KM					
14	MV	eP	08 00 31.0	Z	0.9	26.0 (0)	48.0	5.24

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	08 00 36	LZ	17	11.0 (3)		
		eS	08 07 28	LT	20	32.0 (2)		
		eLR	08 13 41	LZ	30	21.0 (3)		
14	WI	eP	08 00 37.0	Z	1.0	34.0 (0)	49.0	
		eP	08 00 42	LZ	19	88.0 (1)		5.43
		eS	08 07 36	LT	30	49.0 (2)		
		eS	08 07 36	LR	27	99.9 (9)		
		eLR	08 15 27	LZ	999.9	99.9 (9)		
14	MN	eP	08 00 49.2	Z	1.0	27.0 (0)	51.0	5.16
		eP	08 00 53	LZ	18	10.0 (2)		
		eS	08 08 06	LR	25	99.9 (9)		
		eS	08 08 06	LT	20	23.0 (2)		
		e	08 09 42	LZ	21	40.0 (2)		
		eLR	08 15 35	LZ	999.9	99.9 (9)		
14	TF	eP	08 00 58.5	Z	1.0	17.0 (0)	52.0	4.96
		eP	08 01 03	LZ	17	14.0 (2)		
		eS	08 08 26	LT	24	13.0 (3)		
		eS	08 08 26	LR	23	70.0 (2)		
		eLR	08 16 08	LZ	28	13.0 (3)		
14	FM	eP	08 01 10.5	Z	1.0	28.0 (0)	53.0	5.18
		eP	08 01 13	LZ	18	74.0 (1)		
		eS	08 08 50	LT	27	80.0 (2)		
		eS	08 08 50	LR	29	36.0 (2)		
		eLR	08 14 35	LR	29	80.0 (2)		
14	CP	eP	08 01 26.1	Z	1.0	17.0 (0)	56.0	5.03
		eP	08 01 32	LZ	18	10.0 (2)		
		eS	08 09 17	LT	28	61.0 (2)		
		eS	08 09 17	LR	28	72.0 (2)		
		eLR	08 16 55	LZ	23	15.0 (3)		
14	LC	eP	08 02 07.7	Z	1.0	33.0 (0)	62.0	5.45
		eP	08 02 11	LZ	11	41.0 (2)		
		e	08 02 16	Z	0.7	40.0 (0)		
		eS	08 10 33	LT	28	38.0 (2)		
		eS	08 10 33	LR	32	37.0 (2)		
		eLR	08 21 30	LZ	32	13.0 (3)		
14	DH	eP	08 02 58.1	Z	0.7	28.0 (0)	69.0	5.48
		eP	08 03 02	LZ	18	11.0 (1)		
		eS	08 12 13	LT	23	89.0 (1)		
		eS	08 12 13	LR	20	12.0 (2)		
		eLR	08 26 06	LZ	25	48.0 (2)		
14	SJ	eP	08 03 02.0	Z	1.0	58.0 (0)	70.0	5.54
		eP	08 03 07	LZ	14	19.0 (1)		
		eS	08 12 09	LT	20	52.0 (2)		
		eS	08 12 09	LR	22	31.0 (2)		
		eLR	08 26 16	LZ	29	74.0 (2)		
							AVG.	5.27
14	07 55 48.9		54.2 N 169.3 E				ALEUTIAN ISLANDS	
			H = 056 KM					
						MAG 6. -	PAS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	MV	eP	08 04 25.6	Z	0.8	18.0 (0)	48.0	5.08
		eS	08 11 16	LT	18	26.0 (2)		
14	WI	eP	08 04 32.1	Z	1.0	24.0 (0)	49.0	5.12
		eS	08 11 17	LT	20	79.0 (2)		
		eS	08 11 17	LR	19	47.0 (2)		
14	MN	eP	08 04 44.2	Z	1.2	33.0 (0)	51.0	5.20
		e	08 08 59	Z	2.6	78.0 (0)		
		eS	08 11 47	LR	999.9	99.9 (9)		
		eS	08 11 47	LT	20	24.0 (2)		
14	TF	eP	08 04 53.2	Z	0.9	14.0 (0)	52.0	4.95
		eS	08 12 06	LT	22	70.0 (2)		
		eS	08 12 06	LR	22	48.0 (2)		
14	FM	eP	08 05 05.2	Z	1.0	20.0 (0)	53.0	5.06
		eS	08 12 42	LT	23	71.0 (2)		
		eS	08 12 42	LR	24	35.0 (2)		
14	CP	eP	08 05 21.2	Z	1.0	14.0 (0)	56.0	4.94
		eS	08 13 07	LT	21	33.0 (2)		
		eS	08 13 07	LR	25	32.0 (2)		
14	LC	eP	08 06 02.4	Z	1.0	24.0 (1)	62.0	5.27
		eS	08 14 05	LT	24	35.0 (2)		
		eS	08 14 05	LR	22	63.0 (2)		
14	DH	eP	08 06 53.9	Z	0.8	12.0 (0)	69.0	4.95
		eS	08 16 33	LR	17	21.0 (2)		
		eS	08 16 33	LT	24	97.0 (1)		
14	SJ	eP	08 06 57.0	Z	1.0	39.0 (0)	70.0	5.32
		eS	08 16 03	LT	18	25.0 (2)		
		eS	08 16 03	LR	23	15.0 (2)		
							AVG.	5.09
14	08 30 53.2		19.4 N 065.0 W				PUERTO RICO REGION	
			H = 064 KM					
14	DH	eP	08 36 07.2	Z	1.0	19.0 (0)	5.0	4.59
14	SJ	eP	08 37 12.5	Z	1.0	98.0 (0)	12.0	5.56
14	LC	eP	08 38 38.8	Z	1.0	33.0 (0)	12.0	4.08
		eSCP	08 44 16	Z	1.0	4.8 (0)		
14	FM	eP	08 39 06.6	Z	1.0	21.0 (0)	4.0	4.89
14	CP	eP	08 39 26.4	Z	1.2	28.0 (0)	48.0	5.02
14	WI	eP	08 39 39.5	Z	1.3	11.0 (1)	50.0	5.63
14	MN	eP	08 39 40.5	Z	1.0	49.0 (0)	50.0	5.39
14	TF	eP	08 39 50.0	Z	1.3	36.0 (0)	51.0	5.21
14	MV	eP	08 39 59.4	Z	1.1	33.0 (0)	52.0	5.11
							AVG.	5.05
14	MN	eP	08 33 57.0	Z	1.0	3.4 (0)		
14	MN	eP	08 37 08.4	Z	0.4	4.5 (0)	0.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 37 12	R	0.5	13.0 (0)		
14	DH	eP	08 40 35.6	Z	0.8	35.0 (0)		
14	LC	eP	13 36 43.0	Z	0.5	3.5 (0)		
14	MN	eP	13 38 22.1	Z	1.0	5.0 (0)		
14	DH	eP	14 35 26.6	Z	0.4	12.0 (0)	1.5	
		eS	14 35 46	R	0.5	38.0 (0)		
14	LC	eP	14 40 04.8	Z	0.8	1.5 (0)		
14	CP	eP	15 01 23.6	Z	0.6	4.8 (0)		
14	17 14 23.2		54.2 N 169.2 E				NEAR IS., ALEUTIAN ISLANDS	
			H = 063 KM					
14	WI	eP	17 23 04.0	Z	1.0	4.0 (0)	49.0	4.37
14	MN	eP	17 23 15.5	Z	0.8	6.3 (0)	50.0	4.50
14	LC	eP	17 24 34.1	Z	0.7	2.4 (0)	61.0	4.37
							AVG.	4.41
14	LC	eP	18 50 53.0	Z	0.3	4.7 (0)	1.4	
		eS	18 51 10	T	0.5	8.1 (0)		
14	20 18 04.7		01.8 S 076.9 W				ECUADOR	
			H = 147 KM					
14	MN	eP	20 27 25.6	Z	0.7	1.7 (0)	55.0	4.00
		epP	20 28 04	Z	1.1	6.5 (0)		
14	WI	eP	20 27 34.8	Z	0.6	2.5 (0)	57.0	4.28
		epP	20 28 16	Z	0.9	4.9 (0)		
							AVG.	4.14
14	MN	eP	21 13 22.4	Z	0.8	1.0 (0)		
14	MV	eP	21 26 11.7	Z	0.2	7.7 (0)	0.1	
		eS	21 26 16	T	0.3	18.0 (0)		
14	FM	eP	21 28 43.3	Z	0.5	53.0 (0)	1.7	
		eS	21 29 06	R	0.6	14.0 (1)		
14	22 14 10.9		26.4 N 126.5 E				RYUKYU ISLANDS	
			H = 022 KM					
14	MV	eP	22 27 09.5	Z	1.5	42.0 (0)	90.0	5.42

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	WI	eP	22 27 15.1	Z	1.9	88.0 (0)	91.0	5.74
		eL	22 53 30	LR	25	40.0 (1)		
		eL	22 53 30	LT	30	80.0 (1)		
14	TF	eP	22 27 24.1	Z	1.1	22.0 (0)	93.0	5.50
		eL	22 52 26	LR	32	80.0 (1)		
		eL	23 28 35	LR	22	72.0 (1)		
		eL	23 28 35	LT	18	42.0 (1)		
		eL	23 28 35	LZ	20	45.0 (1)		
14	CP	eP	22 27 42.9	Z	1.5	47.0 (0)	97.0	5.87
14	MN	eL	22 53 15	LT	28	14.0 (2)	91.0	
		eL	23 00 25	LT	23	62.0 (1)		
		eL	23 00 25	LR	22	22.0 (1)		
		eL	23 00 25	LZ	20	15.0 (1)		
14	DH	eL	23 02 55	LR	38	15.0 (2)	109.0	
		eL	23 15 00	LZ	25	10.0 (2)		
		eL	23 15 00	LR	20	18.0 (2)		
		eL	23 15 00	LT	25	80.0 (1)		
							AVG.	5.63
14	CP	eP	23 04 50.3	Z	0.3	6.5 (0)	1.8	
		eS	23 05 14	T	0.5	6.5 (0)		
15	SJ	eP	04 31 12.5	Z	0.6	24.0 (0)		
15	LC	eP	04 32 37.5	Z	0.8	26.0 (0)		
15	WI	eP	04 34 31.1	Z	0.5	17.0 (0)		
15	06 30 37.0		20.4 S 070.9 W				COAST OF NORTHERN CHILE	
			H =060 KM				MAG 5.0 - PAL	
15	SJ	eP	06 40 07.5	Z	1.0	19.0 (0)	55.0	5.08
		eP	06 40 10	LZ	17	54.0 (1)		
		eS	06 47 45	LT	20	21.0 (2)		
15	DH	eP	06 40 57.6	Z	1.2	95.0 (0)	63.0	5.68
		eP	06 41 00	LZ	15	75.0 (1)		
		eS	06 49 25	LR	20	18.0 (2)		
		eS	06 49 25	LT	15	40.0 (1)		
		eLQ	06 59 25	LR	30	21.0 (2)		
		eLR	07 04 00	LZ	25	15.0 (2)		
		eL	07 06 20	LZ	25	21.0 (2)		
		eL	07 06 20	LR	22	22.0 (2)		
		eL	07 06 20	LT	25	13.0 (2)		
15	LC	eP	06 41 00.0	Z	1.0	12.0 (0)	63.0	4.86
		eS	06 49 30	LT	22	78.0 (1)		
		eS	06 49 30	LR	25	44.0 (1)		
		eL	07 03 17	LR	25	14.0 (1)		
		eL	07 05 10	LZ	20	13.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	07 05 10	LR	20	18.0 (2)		
		eL	07 05 10	LT	15	20.0 (1)		
15	CP	eP	06 41 45.0	Z	1.5	47.0 (0)	70.0	5.22
		eL	07 04 40	LZ	22	17.0 (2)		
15	FM	eP	06 41 54.2	Z	0.8	13.0 (0)	72.0	4.93
		eP	06 41 55	LZ	18	38.0 (1)		
		eS	06 51 10	LR	20	98.0 (1)		
		eS	06 51 10	LT	18	99.0 (1)		
		eSS	06 56 05	LR	22	43.0 (1)		
		e	06 59 25	LR	25	43.0 (1)		
		eL	07 02 15	LR	30	51.0 (1)		
		eL	07 15 22	LZ	20	96.0 (1)		
		eL	07 15 22	LR	22	43.0 (1)		
		eL	07 15 22	LT	20	15.0 (2)		
15	TF	eP	06 42 02.5	Z	1.0	17.0 (0)	73.0	4.95
		eP	06 42 05	LZ	17	46.0 (1)		
		eS	06 51 34	LR	23	13.0 (2)		
		eS	06 51 34	LT	18	13.0 (2)		
15	MN	eP	06 42 10	LZ	17	39.0 (1)	74.0	5.04
		eS	06 51 42	LT	20	15.0 (2)		
		eS	06 51 42	LR	20	54.0 (1)		
		eSS	06 56 45	LT	22	70.0 (1)		
		eL	07 07 05	LZ	30	85.0 (1)		
		eL	07 17 35	LZ	15	32.0 (1)		
		eL	07 17 35	LR	21	10.0 (2)		
		eL	07 17 35	LT	22	10.0 (2)		
15	WI	eP	06 42 18.0	Z	1.0	39.0 (0)	76.0	5.37
		eS	06 52 00	LR	18	16.0 (2)		
		eS	06 52 00	LT	18	82.0 (1)		
		eSS	06 57 00	LR	22	83.0 (1)		
		eL	07 04 35	LT	30	98.0 (1)		
		eL	07 14 12	LZ	20	11.0 (2)		
		eL	07 14 12	LR	20	13.0 (2)		
		eL	07 14 12	LT	25	28.0 (1)		
15	MV	eP	06 42 28.2	Z	2.0	69.0 (0)	78.0	5.26
		eS	06 52 10	LT	20	12.0 (2)		
		eSS	06 57 10	LT	25	44.0 (1)		
							AVG.	5.15
15	MN	eP	08 50 33.4	Z	0.8	1.0 (0)		
15	WI	eP	08 50 48.2	Z	0.9	3.3 (0)		
15	MN	eP	09 27 34.7	Z	1.0	3.2 (0)		
15	CP	eP	10 17 28.6	Z	0.3	2.8 (0)	1.4	
		eS	10 17 46	T	999.9	99.9 (9)		
15	11 56 19.3		13.3 S 167.0 E				NEW HEBRIDES ISLANDS	
			H =211 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	MV	eP	12 08 33.2	Z	1.0	6.5 (0)	85.0	4.32
		epP	12 09 20	Z	1.0	9.7 (0)		
15	MN	eP	12 08 43.0	Z	0.7	1.6 (0)	87.0	3.97
		epP	12 09 30	Z	1.0	6.4 (0)		
15	WI	eP	12 08 50.5	Z	1.0	4.1 (0)	89.0	4.31
		epP	12 09 37	Z	1.5	14.0 (0)		
							AVG.	4.20
15	12 10 40.6		18.4 S 176.7 W				TONGA ISLANDS	
			H =278 KM					
15	DH	eP	12 21 14.0	Z	0.8	37.0 (0)		
15	LC	eP	12 21 21.5	Z	1.0	9.3 (0)		
15	LC	e	12 21 51	Z	1.0	4.6 (0)		
15	FM	eP	12 22 12.5	Z	0.8	25.0 (0)		
15	MN	eP	12 22 27.5	Z	0.8	3.0 (0)		
15	WI	eP	12 22 36.0D	Z	0.8	27.0 (0)		
15	MN	e	12 22 57	Z	1.0	3.2 (0)		
15	WI	e	12 23 11	Z	0.8	6.4 (0)		
15	MV	eP	14 26 40.0	Z	0.3	3.2 (0)	1.3	
		eS	14 26 56	T	0.4	7.3 (0)		
15	MN	eP	14 27 26.5	Z	0.5	2.0 (0)	4.4	
		eS	14 28 19	R	0.8	3.2 (0)		
15	WI	eP	15 07 17.2	Z	1.0	14.0 (0)		
15	MN	eP	15 07 31.8	Z	1.0	3.2 (0)		
15	CP	eL	16 24 25	LZ	20	67.0 (1)		
15	MN	eL	16 24 30	LZ	25	36.0 (1)		
15	WI	eL	16 25 55	LZ	27	28.0 (1)		
15	WI	eL	16 26 37	LZ	25	20.0 (1)		
15	WI	eL	16 26 37	LT	22	14.0 (1)		
15	MN	eL	16 26 57	LZ	20	31.0 (1)		
15	MN	eL	16 26 57	LT	20	26.0 (1)		
15	FM	eL	16 27 20	LZ	25	32.0 (1)		
15	LC	eL	16 28 00	LR	25	22.0 (1)		
15	LC	eL	16 28 30	LT	22	26.0 (1)		
15	LC	eL	16 28 30	LR	25	22.0 (1)		
15	FM	eL	16 30 32	LZ	20	32.0 (1)		
15	FM	eL	16 30 32	LR	20	33.0 (1)		
15	SJ	eL	16 31 10	LZ	22	31.0 (1)		
15	SJ	eL	16 32 50	LZ	20	32.0 (1)		
15	SJ	eL	16 32 50	LR	20	11.0 (2)		
15	17 31 56.2		10.3 S 161.6 E				SOLOMON ISLANDS	
			H =112 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	MN	eP	17 46 22.4	Z	0.4	1.6 (0)	1.2	
		eS	17 46 38	T	0.5	3.7 (0)		
15	21 29 32.4		42.6 N 143.6 E				COAST HOKKAIDO, JAPAN	
			H =025 KM					
15	MN	eP	21 40 48.5	Z	0.7	1.6 (0)	71.0	4.18
16	TF	eP	01 54 58.7	Z	0.3	27.0 (0)	0.3	
		eS	01 55 04	T	0.3	38.0 (0)		
16	05 21 12.7		26.6 N 126.4 E				RYUKYU ISLANDS	
			H =038 KM					
16	WI	eP	05 34 16.1	Z	1.0	9.4 (0)	91.0	5.04
16	CP	eP	05 34 42.5	Z	1.5	24.0 (0)	98.0	5.63
16	LC	ePP	05 39 25	Z	1.1	31.0 (0)	102.0	4.99
16	DH	eLR	06 10 05	LR	35	48.0 (1)	108.0	
		eLR	06 21 40	LZ	25	28.0 (1)		
		eLR	06 21 40	LR	22	52.0 (1)		
		eLR	06 21 40	LT	25	16.0 (1)		
16	SJ	eL	06 20 12	LT	25	73.0 (1)	111.0	
							AVG.	5.22
16	TF	eP	05 34 28.2	Z	1.0	17.0 (0)		
16	06 27 29.8		00.2 S 122.8 E				CELEBES REGION	
			H =177 KM					
16	WI	eP [†]	06 45 50.8	Z	0.6	2.0 (0)	112.0	
		ePKKP	06 56 52	Z	1.0	7.1 (0)		
16	MN	eP [†]	06 45 52.0	Z	1.0	3.2 (0)	114.0	
16	CP	eP [†]	06 45 58.6	Z	0.6	3.6 (0)	115.0	
16	LC	eP [†]	06 46 13.0	Z	0.8	9.0 (0)	123.0	
		ePKKP	06 56 03	Z	0.8	2.3 (0)		
16	MN	eP	08 06 24.5	Z	1.6	12.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	WI	eP	08 06 50.0	Z	1.0	4.7 (0)		
16	SJ	eL	08 08 20	LZ	17	26.0 (1)		
16	SJ	eL	08 08 20	LT	17	11.0 (2)		
16	SJ	eL	08 08 20	LR	20	68.0 (1)		
16	CP	eP	09 35 51.3	Z	0.3	17.0 (0)	1.3	
		eS	09 36 08	T	0.5	96.0 (0)		
16	LC	eP	11 16 17.5	Z	1.0	4.8 (0)		
16	MN	eP	11 17 57.0	Z	1.0	4.8 (0)		
16	WI	eP	11 18 06.7	Z	0.8	3.0 (0)		
16	LC	eP	12 03 10.5	Z	0.7	1.2 (0)		
16	DH	eP	13 44 29.8	Z	0.4	22.0 (0)	1.8	
		eS	13 44 54	R	0.4	47.0 (0)		
16	14 13 36.6		10.0 S 079.4 W			NEAR COAST OF PERU		
			H =056 KM					
16	SJ	eP	14 21 24.1	Z	0.7	24.0 (0)	42.0	5.09
		eP AS	14 21 36.6	Z	0.7	29.0 (0)		5.17
16	LC	eP	14 22 25.3	Z	0.7	4.2 (0)	50.0	4.48
		eP AS	14 22 38.6	Z	0.7	4.8 (0)		4.54
16	DH	eP	14 22 41.5	Z	0.6	8.1 (0)	52.0	4.89
		eP AS	14 22 54.3	Z	0.5	18.0 (0)		5.31
16	CP	eP	14 23 22.7	Z	1.0	2.9 (0)	58.0	4.26
16	MN	eP	14 23 43.0	Z	0.6	2.4 (0)	61.0	4.46
16	WI	eP	14 23 53.5	Z	0.7	3.6 (0)	62.0	4.60
		eP AS	14 24 07.5	Z	0.7	5.9 (0)		4.81
						AVG.		4.63
						AS .		4.96
16	17 48 47.1		16.6 S 167.7 E			NEW HEBRIDES ISLANDS		
			H =025 KM					
16	DH	eP	19 17 13.0	Z	0.2	23.0 (0)	2.0	
		eS	19 17 40	R	0.3	27.0 (0)		
16	FM	eP	22 16 49.6	Z	0.5	7.6 (0)	1.6	
		eS	22 17 12	T	0.5	7.3 (0)		
17	MN	eP	00 02 06.3	Z	0.6	3.0 (0)		
17	04 27 38.2		40.1 S 045.7 E			INDIAN OCEAN		
			H =015 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	DH	eP ⁰	04 47 05.0	Z	0.7	38.0 (0)	138.0	
17	SJ	eP ¹	04 47 28.8	Z	0.7	15.0 (0)	148.0	
17	LC	eP ¹	04 47 38.5	Z	1.0	10.0 (0)	157.0	
		eP ²	04 48 09	Z	1.0	10.0 (0)		
17	FM	eP ¹	04 47 45.1	Z	0.7	10.0 (0)	163.0	
17	WI	eP ¹	04 47 51.5	Z	1.0	4.6 (0)	167.0	
		ePP	04 52 52	Z	1.6	18.0 (0)		
17	MN	eP ¹	04 47 52.0	Z	1.2	6.6 (0)	167.0	
		eP ²	04 48 56	Z	1.2	8.0 (0)		
		e	04 58 57	Z	0.9	2.6 (0)		
17	MV	eP ¹	04 47 58.3	Z	1.3	17.0 (0)	169.0	
17	04 39 26.6		33.3 N 076.2 E			KASHMIR REGION		
			H =022 KM					
17	MV	eP	04 57 59.5	Z	0.5	4.8 (0)	1.6	
		eS	04 58 22	R	0.5	7.3 (0)		
17	WI	e	05 13 46	LR	26	37.0 (1)		
17	WI	e	05 15 26	LT	30	32.0 (1)		
17	WI	e	05 39 10	LZ	28	75.0 (1)		
17	WI	eL	05 50 17	LZ	25	11.0 (2)		
17	MN	eL	05 55 50	LT	30	53.0 (1)		
17	MN	eL	05 59 35	LZ	24	42.0 (1)		
17	MN	eL	05 59 35	LR	25	20.0 (1)		
17	MN	eL	05 59 35	LT	23	90.0 (1)		
17	WI	eP	07 30 13.6	Z	1.0	2.3 (0)		
17	MN	eP	07 30 19.5	Z	1.0	3.2 (0)		
17	LC	eP	11 04 23.0	Z	0.9	3.9 (0)		
17	WI	eP	11 05 21.0	Z	0.9	5.6 (0)		
17	MN	eP	11 05 24.0	Z	0.5	0.6 (0)		
17	MN	eP	12 37 04.8	Z	0.3	10.0 (0)	0.6	
		eS	12 37 14	T	0.3	22.0 (0)		
17	MV	eP	12 37 21.0	Z	0.3	11.0 (0)	1.8	
		eS	12 37 45	R	0.3	19.0 (0)		
17	CP	eP	12 53 56.1	Z	0.3	24.0 (0)	0.1	
		eS	12 53 59	T	0.3	44.0 (0)		
17	13 22 21.4		10.7 S 165.3 E			SANTA CRUZ ISLANDS REGION		
			H =106 KM					
17	MN	eP	13 34 41.0	Z	0.9	5.3 (0)	84.0	4.46

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	13 34 53	LZ	24	10.0 (1)		
		e	13 45 16	LT	22	23.0 (1)		
		eSS	13 51 00	LR	25	15.0 (1)		
		e	13 54 47	LT	28	25.0 (1)		
		e	13 57 53	LT	26	32.0 (1)		
		eLR	14 01 11	LZ	30	22.0 (2)		
		eL	14 03 00	LZ	25	12.0 (2)		
		eL	14 03 00	LR	25	87.0 (1)		
		eL	14 03 00	LT	25	10.0 (2)		
17	MV	eP	13 34 41.1	Z	0.9	8.0 (0)	84.0	4.64
		eL	14 00 00	LZ	30	23.0 (2)		
		eL	14 02 00	LZ	25	15.0 (2)		
		eL	14 02 00	LT	25	55.0 (1)		
17	CP	eP	13 34 51.0	Z	1.0	5.7 (0)	86.0	4.40
		eLR	14 01 10	LZ	30	92.0 (1)		
		eL	14 03 00	LZ	23	10.0 (2)		
		eL	14 03 00	LT	23	84.0 (1)		
17	WI	eP	13 34 58.6	Z	1.0	3.5 (0)	88.0	4.33
		eSKS	13 45 30	LT	23	27.0 (1)		
		e	13 51 08	LT	25	14.0 (1)		
		eSSS	13 55 17	LT	30	32.0 (1)		
		e	13 58 20	LR	36	70.0 (1)		
		eL	14 02 00	LZ	33	16.0 (2)		
		eL	14 08 30	LZ	20	92.0 (1)		
		eL	14 08 30	LR	20	22.0 (1)		
		eL	14 08 30	LT	20	55.0 (1)		
17	LC	eP	13 35 27.7	Z	1.0	2.4 (0)	94.0	4.56
		eSKS	13 45 58	LR	20	71.0 (0)		
		ePS	13 47 37	LR	22	25.0 (1)		
		e	13 53 25	LR	27	30.0 (1)		
		eSSS	13 56 45	LR	30	29.0 (1)		
		eLQ	14 01 15	LT	35	52.0 (1)		
		eLR	14 04 50	LZ	30	13.0 (2)		
		eL	14 07 00	LZ	25	12.0 (2)		
		eL	14 07 00	LR	25	11.0 (2)		
		eL	14 07 00	LT	25	87.0 (1)		
17	FM	eLQ	13 59 25	LT	25	40.0 (1)	86.0	
		eLR	14 03 20	LZ	33	14.0 (2)		
		eL	14 05 55	LZ	24	91.0 (1)		
		eL	14 05 55	LR	24	63.0 (1)		
		eL	14 05 55	LT	25	59.0 (1)		
17	TF	eL	14 00 16	LZ	30	12.0 (1)	87.0	
		eL	14 02 20	LZ	23	16.0 (1)		
		eL	14 02 20	LR	22	76.0 (0)		
		eL	14 02 20	LT	23	25.0 (0)		
17	SJ	eL	14 08 45	LZ	32	42.0 (1)	101.0	
		eL	14 11 15	LT	25	73.0 (1)		
		eL	14 11 15	LR	25	38.0 (2)		
		eL	14 11 15	LZ	24	40.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.50
17	14 26	29.7	43.2 N 088.0 E				SINKIANG PROVINCE, CHINA	
			H =050 KM					
17	DH	eP	14 44 22.5	Z	0.6	50.0 (0)		
17	LC	eP	14 44 32.5	Z	0.8	3.0 (0)		
17	CP	eP	14 45 08.6	Z	0.7	5.0 (0)		
17	FM	eP	14 45 21.9	Z	0.7	10.0 (0)		
17	MN	eP	14 45 35.5	Z	1.2	5.3 (0)		
17	WI	eP	14 45 44.5	Z	1.0	14.0 (0)		
17	TF	eP	14 45 59.9	Z	0.9	81.0 (0)		
17	CP	e	14 46 00	Z	1.0	5.7 (0)		
17	MN	e	14 46 29	Z	1.2	5.3 (0)		
17	WI	e	14 46 37	Z	1.0	12.0 (0)		
17	LC	eP	20 15 25.2	Z	1.3	17.0 (0)		
17	CP	eP	20 15 45.5	Z	1.0	17.0 (0)		
17	TF	eP	20 16 32.9	Z	1.1	26.0 (1)		
17	FM	eP	20 16 51.9	Z	1.1	26.0 (0)		
17	MN	eP	20 16 56.0	Z	1.2	21.0 (0)		
17	MV	eP	20 17 15.0	Z	0.9	5.4 (0)		
17	WI	eP	20 17 21.6	Z	1.0	5.8 (0)		
17	LC	eL	20 18 05	LR	21	17.0 (2)		
17	SJ	eL	20 19 03	LZ	20	82.0 (1)		
17	SJ	eL	20 19 03	LR	20	76.0 (2)		
17	SJ	eL	20 19 03	LT	20	38.0 (2)		
17	CP	eL	20 19 12	LT	33	28.0 (2)		
17	CP	eL	20 20 30	LZ	21	10.0 (2)		
17	CP	eL	20 20 30	LR	17	10.0 (2)		
17	CP	eL	20 20 30	LT	20	50.0 (1)		
17	MN	e	20 20 55	LT	18	42.0 (1)		
17	MN	eL	20 21 45	LT	31	67.0 (1)		
17	FM	eL	20 22 10	LZ	28	33.0 (1)		
17	MN	eL	20 22 30	LZ	30	31.0 (1)		
17	FM	eL	20 23 14	LZ	18	48.0 (1)		
17	FM	eL	20 23 14	LR	20	21.0 (1)		
17	FM	eL	20 23 14	LT	18	47.0 (1)		
17	MN	eL	20 23 30	LZ	22	42.0 (1)		
17	MN	eL	20 23 30	LR	22	41.0 (1)		
17	MN	eL	20 23 30	LT	20	45.0 (1)		
17	SJ	eP	20 41 06.1	Z	0.8	24.0 (0)		
17	MN	eP	20 45 23.0	Z	1.0	5.7 (0)		
17	LC	eP	21 25 37.8	Z	0.3	1.2 (0)	2.8	
		e	21 25 43	Z	0.4	2.4 (0)		
		eS	21 26 14	R	0.4	5.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	LC	eP	21 43 52.5	Z	1.0	4.8 (0)		
17	LC	eL	21 46 31	LR	20	45.0 (1)		
17	LC	eL	21 46 31	LT	21	10.0 (1)		
17	SJ	eL	21 47 40	LZ	17	26.0 (1)		
17	SJ	eL	21 47 40	LT	17	11.0 (2)		
17	22 28 04.1		51.7 N 177.0 E H =022 KM				ANDREANOF-ALEUTIAN ISLANDS	
17	MV	eP	22 36 13.2	Z	0.5	4.2 (0)	44.0	4.42
17	WI	eP	22 36 22.2	Z	0.5	2.5 (0)	45.0	4.35
17	MN	eP	22 36 32.0	Z	0.5	1.5 (0)	46.0	4.23
17	CP	eP	22 37 08.3	Z	0.8	3.6 (0)	51.0	4.38
17	LC	eP	22 37 54.1	Z	0.8	4.5 (0)	57.0	4.55
							AVG.	4.38
17	MV	eP	22 41 41.0	Z	1.0	6.6 (0)		
17	WI	eP	22 41 45.6	Z	1.0	4.6 (0)		
18	LC	eP	00 47 20.5	Z	0.6	2.0 (0)		
18	FM	eP	00 47 40.3	Z	0.5	7.5 (0)		
18	FM	eL	00 49 03	R	0.5	21.0 (0)		
18	LC	eL	00 49 59	R	0.6	5.3 (0)		
18	CP	eP	01 39 46.2	Z	0.3	5.6 (0)	0.3	
		eS	01 39 52	T	0.4	23.0 (0)		
18	06 21 04.9		60.5 N 153.8 W H =193 KM				ALASKA	
18	WI	eP	06 26 54.1	Z	1.0	37.0 (0)	30.0	5.07
		epP	06 27 29	Z	1.0	14.0 (0)		
		eSCP	06 33 20	Z	0.6	3.9 (0)		
18	MV	eP	06 26 55.4	Z	0.6	4.2 (0)	30.0	4.34
		eSCP	06 33 20	Z	0.5	14.0 (0)		
18	MN	eP	06 27 12.2	Z	0.8	14.0 (0)	32.0	4.65
		ePCP	06 30 01	Z	0.6	3.4 (0)		
		eSCP	06 33 28	Z	0.6	6.1 (0)		
18	FM	eP	06 27 30.0	Z	0.8	13.0 (0)	34.0	4.62
		ePCP	06 30 07	Z	0.6	43.0 (0)		
18	CP	eP	06 28 00.0	Z	0.8	9.0 (0)	37.0	4.47
		eSCP	06 33 47	Z	0.9	7.0 (0)		
18	TF	eP	06 28 29.4	Z	1.0	17.0 (0)	41.0	4.55
		eSCP	06 33 35	Z	0.7	4.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	LC	eP	06 28 38.6	Z	1.0	17.0 (0)	42.0	4.55
		epP	06 29 17	Z	1.0	22.0 (0)		
		eSCP	06 34 05	Z	0.8	4.5 (0)		
18	DH	eP	06 29 37.9	Z	0.5	32.0 (0)	50.0	5.04
18	SJ	eP	06 29 41.2	Z	0.7	20.0 (0)	50.0	4.69
							AVG.	4.66
18	CP	eP	06 45 07.0	Z	0.3	54.0 (0)		
18	MN	eP	06 53 03.8	Z	0.2	3.7 (0)	0.9	
		eS	06 53 16	R	0.4	2.3 (0)		
18	CP	eP	08 05 16.7	Z	0.2	12.0 (0)	0.2	
		eS	08 05 21	T	0.2	22.0 (0)		
18	MV	eP	08 51 15.0	Z	0.3	2.2 (0)	2.7	
		eS	08 51 49	R	0.3	9.9 (0)		
18	WI	eP	11 08 25.8	Z	0.5	2.6 (0)	1.1	
		eS	11 08 40	R	0.5	26.0 (0)		
18	12 27 02.7		52.4 N 174.6 W H =065 KM				ANDREANOF-ALEUTIAN ISLANDS	
18	MV	eP	12 34 34.0	Z	0.6	1.4 (0)	40.0	3.90
18	WI	eP	12 34 35.8	Z	0.8	2.9 (0)	40.0	4.12
		eL	12 46 22	LT	27	36.0 (1)		
		eL	12 47 18	LT	25	34.0 (1)		
		eL	12 47 18	LR	25	21.0 (1)		
18	MN	eP	12 34 45.5	Z	0.5	1.2 (0)	42.0	3.95
		eLR	12 46 47	LZ	30	43.0 (1)		
		eL	12 48 00	LR	26	27.0 (1)		
		eL	12 48 00	LT	25	13.0 (1)		
		eL	12 48 00	LZ	25	36.0 (1)		
18	FM	eP	12 35 10.0	Z	1.0	10.0 (0)	45.0	4.57
		eL	12 48 50	LZ	32	40.0 (1)		
		eL	12 49 38	LT	25	31.0 (1)		
		eL	12 49 38	LZ	26	32.0 (1)		
18	LC	eP	12 36 11.0	Z	1.0	4.8 (0)	53.0	4.45
18	DH	eP	12 37 25.6	Z	1.0	22.0 (0)	63.0	5.11
18	TF	eL	12 46 42	LZ	25	30.0 (1)	42.0	
		eL	12 47 25	LZ	25	40.0 (1)		
		eL	12 47 25	LR	22	21.0 (1)		
		eL	12 47 25	LT	25	25.0 (1)		
							AVG.	4.35
18	LC	eP	13 27 53.4	Z	1.0	2.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	eP	13 29 30.0	Z	1.0	4.8 (0)		
18	LC	eP	14 46 40.8	Z	0.3	2.3 (0)	1.4	
		eS	14 46 58	R	0.4	5.0 (0)		
18	16 59 11.7		00.8 S 133.8 E H =025 KM				NEAR COAST OF NEW GUINEA	
18	FM	eP	17 41 31.9	Z	0.2	4.1 (0)	0.7	
		eS	17 41 42	R	0.3	86.0 (0)		
18	TF	eP	18 04 51.3	Z	0.2	14.0 (0)	0.8	
		eS	18 05 03	R	0.4	51.0 (0)		
18	DH	eP	18 33 42.8	Z	0.3	11.0 (0)	1.6	
		eS	18 34 04	T	0.5	14.0 (0)		
18	MN	eP	19 35 35.9	Z	0.3	1.6 (0)	1.2	
		eS	19 35 51	T	0.4	28.0 (0)		
18	MN	eP	21 08 54.5	Z	1.0	3.2 (0)		
18	WI	eP	21 09 03.6	Z	1.1	6.0 (0)		
18	LC	eP	21 09 28.7	Z	1.1	3.1 (0)		
18	MN	eP	21 46 10.4	Z	0.3	4.2 (0)	0.1	
		eS	21 46 13	T	0.5	8.0 (0)		
18	MN	eP	22 23 52.3	Z	0.6	4.8 (0)	2.5	
		eS	22 24 24	R	0.7	5.3 (0)		
18	MN	eP	23 01 49.0	Z	0.9	3.9 (0)		
18	WI	eP	23 01 51.0	Z	0.7	3.5 (0)		
18	MN	eP	23 11 50.4	Z	0.3	2.1 (0)	0.1	
		eS	23 11 53	T	0.4	12.0 (0)		
18	23 42 31.3		04.8 S 151.8 E H =047 KM				NEW BRITAIN REGION MAG 6.75- PAS	
18	MV	eP	23 55 30.9	Z	1.3	10.0 (1)	91.0	5.94
		eP	23 55 32	LZ	16	71.0 (1)		
		ePP	23 59 05	Z	1.5	33.0 (0)		
19	MV	eSKS	00 05 57	R	2.0	14.0 (1)	91.0	
		eL	00 23 40	LZ	38	66.0 (2)		
		eL	00 28 40	LZ	20	30.0 (2)		
		eL	00 28 40	LT	21	82.0 (1)		
18	TF	eP	23 55 33.9	Z	1.4	18.0 (1)	92.0	6.21

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	TF	eL	00 24 10	LZ	34	32.0 (2)	92.0	
		eL	00 29 45	LZ	19	20.0 (2)		
		eL	00 29 45	LR	20	14.0 (2)		
		eL	00 29 45	LT	19	73.0 (1)		
18	MN	eP	23 55 40.6	Z	1.4	15.0 (1)	93.0	6.18
		eP	23 55 44	LZ	18	18.0 (1)		
19	MN	eSKS	00 06 11	T	2.5	22.0 (1)	93.0	
		e	00 12 50	LT	24	95.0 (1)		
		eL	00 25 32	LT	35	17.0 (2)		
		eL	00 31 00	LZ	20	16.0 (2)		
		eL	00 31 00	LR	21	13.0 (2)		
		eL	00 31 00	LT	21	82.0 (1)		
18	WI	eP	23 55 44.5	Z	1.4	30.0 (1)	94.0	6.48
		eP	23 55 46	LZ	20	54.0 (1)		
19	WI	eSKS	00 06 13	R	2.5	9.0 (0)	94.0	
		eSKS	00 06 15	LT	18	71.0 (1)		
		eSKKS	00 06 50	LR	22	57.0 (1)		
18	CP	eP	23 55 46.8	Z	1.4	15.0 (1)	95.0	6.23
19	CP	eS	00 06 58	R	2.1	5.3 (0)	95.0	
		eL	00 25 00	LZ	38	34.0 (2)		
		eL	00 33 00	LZ	19	11.0 (2)		
		eL	00 33 00	LT	20	16.0 (2)		
18	FM	eP	23 56 03.5	Z	1.2	33.0 (0)	98.0	5.85
19	FM	eL	00 27 25	LZ	39	28.0 (2)	98.0	
		eL	00 33 00	LZ	22	12.0 (2)		
		eL	00 33 00	LR	23	75.0 (1)		
		eL	00 33 00	LT	21	95.0 (1)		
18	LC	eP	23 56 24.9	Z	1.4	18.0 (0)	103.0	5.66
19	LC	ePKKP	00 12 47	Z	1.2	31.0 (0)	103.0	
19	DH	eP	00 01 26.4	Z	1.3	14.0 (1)	124.0	
		eL	00 40 55	LZ	38	12.0 (2)		
							AVG.	6.07
19	FM	eP	00 47 57.4	Z	0.3	20.0 (0)	1.3	
		eS	00 48 13	R	0.4	13.0 (1)		
19	MN	eP	00 49 00.9	Z	0.5	2.4 (0)		
19	00 59 21.3		07.1 N 082.7 W H =042 KM				SOUTH OF PANAMA	
19	SJ	eP	01 04 46.0	Z	1.0	10.0 (1)	25.0	5.37
19	LC	eP	01 06 00.2	Z	0.9	16.0 (0)	34.0	4.94
19	CP	eP	01 06 57.0	Z	1.1	7.4 (0)	41.0	4.37
19	FM	eP	01 07 08.3	Z	0.8	6.3 (0)	42.0	4.44
19	TF	eP	01 07 28.1	Z	0.9	7.0 (0)	45.0	4.36
19	MN	eP	01 07 32.6	Z	1.0	13.0 (0)	45.0	4.73

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	WI	eP	01 07 42.6	Z	0.8	5.9 (0)	46.0	4.58 4.68
							AVG.	
19	LC	eP	01 28 28.4	Z	0.3	2.4 (0)	1.2	
		eS	01 28 44	R	0.5	12.0 (0)		
19	WI	eP	02 00 50.2	Z	1.0	4.7 (0)		
19	MN	eP	02 01 18.5	Z	1.0	1.6 (0)		
19	MN	eP	03 22 33.5	Z	0.3	6.3 (0)		
19	03 32 01.8		05.6 S 151.5 E				NEW BRITAIN REGION	
			H =130 KM					
19	TF	eL	04 12 41	LZ	18	12.0 (1)	95.0	
		eL	04 20 32	LZ	20	40.0 (1)		
		eL	04 20 32	LR	20	32.0 (1)		
		eL	04 20 32	LT	20	23.0 (1)		
19	MV	eL	04 13 45	LZ	28	28.0 (1)	92.0	
		eL	04 18 30	LZ	20	76.0 (1)		
		eL	04 18 30	LT	20	23.0 (1)		
19	MN	eL	04 15 48	LZ	23	20.0 (1)	95.0	
		eL	04 21 00	LZ	20	52.0 (1)		
		eL	04 21 00	LR	20	51.0 (1)		
		eL	04 21 00	LT	19	34.0 (1)		
19	WI	eL	04 17 05	LT	21	20.0 (1)	95.0	
		eL	04 24 35	LT	19	44.0 (1)		
		eL	04 24 35	LZ	19	25.0 (1)		
19	FM	eLR	04 18 52	LZ	25	20.0 (1)	99.0	
		eL	04 25 00	LR	19	23.0 (1)		
		eL	04 25 00	LZ	19	33.0 (1)		
		eL	04 25 00	LT	19	21.0 (1)		
19	SJ	eL	04 28 00	LZ	25	23.0 (1)	111.0	
		eL	04 32 15	LR	20	89.0 (1)		
		eL	04 32 15	LT	18	25.0 (1)		
		eL	04 32 15	LZ	20	35.0 (1)		
19	DH	eL	04 34 50	LZ	30	34.0 (1)	123.0	
		eL	04 40 00	LR	22	28.0 (1)		
		eL	04 40 00	LZ	21	56.0 (1)		
19	MN	eP	03 45 10.5	Z	1.0	4.8 (0)		
19	LC	eP	05 40 19.3	Z	1.1	9.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	CP	eP	06 21 30.0	Z	0.3	32.0 (0)	1.0	
		eS	06 21 43	T	0.3	51.0 (0)		
19	TF	eP	06 30 40.0	Z	0.7	4.3 (0)		
19	CP	eP	06 30 40.5	Z	1.0	5.7 (0)		
19	TF	eP	07 54 36.5	Z	0.4	8.6 (0)	1.8	
		eS	07 55 01	T	0.6	35.0 (0)		
19	CP	eP	13 51 02.5	Z	0.5	7.4 (0)	2.4	
		eS	13 51 33	T	0.5	9.9 (0)		
19	MN	eP	14 30 18.0	Z	999.9	99.9 (9)		
19	MV	eP	14 30 38.0	Z	0.2	12.0 (0)	1.9	
		eS	14 31 03	T	0.3	10.0 (0)		
19	LC	eP	14 44 26.5	Z	1.0	2.4 (0)		
19	LC	e	14 50 19.6	Z	3.0	57.0 (0)		
19	15 45 03.2		17.0 S 172.5 W				TONGA ISLANDS	
			H =029 KM					
19	CP	eP	15 56 34.8	Z	1.3	18.0 (0)	73.0	4.96
19	MN	eP	15 56 47.5	Z	1.0	3.2 (0)	75.0	4.25
		eL	16 19 38	LZ	30	18.0 (1)		
		eL	16 25 10	LZ	18	24.0 (1)		
		eL	16 25 10	LR	18	59.0 (0)		
		eL	16 25 10	LT	18	21.0 (1)		
19	WI	eP	15 56 58.6	Z	1.5	16.0 (0)	77.0	4.84
19	LC	eP	15 57 14.2	Z	1.0	4.8 (0)	80.0	4.35
		e	15 57 23	Z	1.0	12.0 (0)		
							AVG.	4.60
19	MN	eP	16 07 45.5	Z	999.9	99.9 (9)		
19	MV	eP	16 08 25.1	Z	0.5	2.4 (0)	2.9	
19	WI	eP	16 08 37.0	Z	0.5	3.5 (0)	3.1	
19	MV	eS	16 08 56	T	0.5	5.9 (0)	2.9	
19	WI	eS	16 09 16	T	0.5	8.8 (0)	3.1	
19	DH	eP	16 09 27.9	Z	0.4	26.0 (0)	1.8	
		eS	16 09 53	R	0.4	63.0 (0)		
19	16 39 21.4		20.9 S 177.8 W				FIJI ISLANDS REGION	
			H =405 KM					
19	CP	eP	16 50 46.0	Z	1.0	11.0 (0)	79.0	4.53
19	MV	eP	16 50 47.7	Z	0.9	7.9 (0)	80.0	4.43

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	MN	eP	16 50 56.0	Z	0.9	11.0 (0)	81.0	4.58
19	WI	eP	16 51 06.7	Z	0.8	8.8 (0)	83.0	4.53
		epP	16 52 51	Z	1.3	9.8 (0)		
19	LC	eP	16 51 21.1	Z	1.0	12.0 (0)	86.0	4.67
		epP	16 53 02	Z	1.2	16.0 (0)		
						AVG.		4.55
19	LC	eP	16 58 48.2	Z	0.3	2.3 (0)	1.9	
		e	16 59 03	Z	0.4	6.4 (0)		
		eS	16 59 19	R	0.5	8.3 (0)		
19	MN	eP	18 05 11.0	Z	0.7	11.0 (0)	0.7	
		eS	18 05 21	Z	0.7	18.0 (0)		
19	MV	eP	18 05 37.9	Z	0.5	2.4 (0)	2.2	
19	WI	eP	18 05 58.5	Z	0.4	0.8 (0)	3.9	
19	MV	eS	18 06 06	T	0.6	11.0 (0)	2.2	
19	WI	eS	18 06 45	R	0.8	10.0 (0)	3.9	
19	DH	eP	19 10 51.1	Z	0.3	13.0 (0)	1.5	
		eS	19 11 10	T	0.3	63.0 (0)		
19	CP	eP	20 00 33.5	Z	0.3	3.7 (0)	0.6	
		eS	20 00 42	T	0.4	38.0 (0)		
20	00 05 46.9		19.4 S 175.4 W			TONGA ISLANDS REGION		
			H =244 KM					
20	TF	eP	00 17 10.3	Z	1.0	13.0 (0)	76.0	4.61
20	CP	eP	00 17 16.2	Z	1.0	5.7 (0)	77.0	4.26
20	MN	eP	00 17 21.9	Z	1.0	8.2 (0)	78.0	4.41
						AVG.		4.51
20	02 16 04.9		20.7 S 169.5 E			LOYALTY ISLANDS		
			H =109 KM					
20	MN	eP	03 35 00.5	Z	0.7	1.7 (0)		
20	WI	eP	03 35 09.2	Z	0.7	2.3 (0)		
20	04 34 41.1		46.4 N 143.3 E			OFF COAST HOKKAIDO, JAPAN		
			H =287 KM					
20	MV	eP	04 35 45.5	Z	0.3	5.2 (0)	2.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MN	eS	04 36 12	T	0.5	59.0 (0)		
		eP	04 45 14.5	Z	0.7	3.3 (0)		
20	CP	eP	05 50 36.0	Z	0.3	10.0 (0)	0.4	
		eS	05 50 42	T	0.5	36.0 (0)		
20	06 16 22.6		06.9 S 126.6 E			BANDA SEA		
			H =272 KM					
20	MN	eP†	06 34 29.8	Z	1.0	3.3 (0)	114.0	
20	CP	eP†	06 34 35.0	Z	1.2	28.0 (0)	116.0	
20	LC	eP†	06 34 50.4	Z	1.3	25.0 (0)	125.0	
20	WI	eP	13 21 37.5	Z	1.0	2.3 (0)		
20	LC	eP	13 24 47.2	Z	0.9	3.9 (0)		
20	WI	eP	13 29 35.7	Z	1.0	4.5 (0)		
20	TF	eL	13 40 36	LZ	22	72.0 (1)		
20	TF	eL	13 41 02	LZ	20	72.0 (1)		
20	TF	eL	13 41 02	LR	20	33.0 (1)		
20	TF	eL	13 41 02	LT	18	70.0 (1)		
20	MV	eP	13 46 48.4	Z	1.0	9.6 (0)		
20	WI	eP	13 47 07.8	Z	1.0	16.0 (0)		
20	MN	eP	13 47 20.5	Z	1.0	4.9 (0)		
20	FM	eP	13 48 12.1	Z	1.0	21.0 (0)		
20	CP	eP	13 48 27.5	Z	1.0	5.7 (0)		
20	WI	eL	13 48 52	LR	20	12.0 (2)		
20	MV	eL	13 49 00	LZ	22	11.0 (2)		
20	MV	eL	13 49 10	LZ	22	11.0 (2)		
20	MV	eL	13 49 10	LT	22	82.0 (1)		
20	MN	eL	13 49 30	LT	25	84.0 (1)		
20	LC	eP	13 49 38.8	Z	1.0	4.8 (0)		
20	WI	eL	13 49 55	LR	20	12.0 (2)		
20	WI	eL	13 49 55	LT	20	61.0 (1)		
20	MN	eL	13 50 07	LT	25	84.0 (1)		
20	FM	eL	13 51 02	LT	15	45.0 (1)		
20	FM	eL	13 52 12	LR	22	43.0 (1)		
20	FM	eL	13 52 12	LT	20	29.0 (1)		
20	CP	eL	13 52 52	LZ	25	61.0 (1)		
20	LC	e	13 53 55	LT	20	42.0 (1)		
20	LC	eL	13 55 30	LT	25	56.0 (1)		
20	LC	eL	13 56 05	LT	25	56.0 (1)		
20	DH	eL	14 05 25	LZ	25	20.0 (1)		
20	DH	eL	14 08 28	LZ	18	47.0 (1)		
20	DH	eL	14 08 28	LR	18	39.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	WI	eP	14 22 22.0	Z	1.0	4.5 (0)		
20	TF	eL	15 55 55	LZ	20	92.0 (1)		
20	TF	eL	16 00 25	LZ	20	92.0 (1)		
20	TF	eL	16 00 25	LR	20	22.0 (1)		
20	TF	eL	16 00 25	LT	18	10.0 (2)		
20	CP	eP	16 39 32.5	Z	0.3	16.0 (0)	0.7	
		eS	16 39 42	R	0.5	59.0 (0)		
20	DH	eP	16 46 03.6	Z	0.5	7.4 (0)	2.8	
		eS	16 46 39	R	0.6	44.0 (0)		
20	MV	eP	16 56 11.5	Z	1.0	9.6 (0)		
20	WI	eP	16 56 26.7	Z	1.0	11.0 (0)		
20	FM	eP	16 57 37.6	Z	1.0	10.0 (0)		
20	CP	eP	16 57 50.0	Z	1.2	9.3 (0)		
20	MV	eL	16 57 50	LT	25	11.0 (2)		
20	MV	eL	16 58 20	LZ	22	71.0 (1)		
20	MV	eL	16 58 20	LT	25	11.0 (2)		
20	WI	eL	16 58 27	LR	20	15.0 (2)		
20	MN	eL	16 58 42	LT	25	12.0 (2)		
20	LC	eP	16 59 01.1	Z	1.0	4.8 (0)		
20	LC	eP	16 59 01.3	Z	1.0	4.8 (0)		
20	WI	eL	16 59 25	LR	20	15.0 (2)		
20	WI	eL	16 59 25	LT	20	68.0 (1)		
20	MN	eL	16 59 30	LT	25	12.0 (2)		
20	FM	eL	17 00 25	LR	18	38.0 (1)		
20	FM	eL	17 01 25	LR	25	54.0 (1)		
20	FM	eL	17 01 25	LT	25	19.0 (1)		
20	CP	eL	17 01 40	LZ	25	76.0 (1)		
20	LC	e	17 03 15	LT	20	56.0 (1)		
20	LC	eL	17 04 50	LT	25	69.0 (1)		
20	LC	eL	17 04 55	LT	25	69.0 (1)		
20	LC	eL	17 05 25	LT	25	76.0 (1)		
20	LC	eL	17 05 25	LT	25	69.0 (1)		
20	DH	eL	17 15 10	LZ	30	35.0 (1)		
20	DH	eL	17 18 02	LR	18	39.0 (1)		
20	DH	eL	17 18 02	LZ	17	76.0 (1)		
20	FM	eP	17 27 23.6	Z	0.4	6.9 (0)	1.5	
		eS	17 27 44	R	0.5	21.0 (0)		
20	19 26 01.8		45.6 N 128.9 W				OFF COAST NORTH CALIFORNIA	
			H = 025 KM					
20	WI	eP	19 28 20.8	Z	0.8	17.0 (0)	10.0	5.45
		e	19 30 15	LT	20	18.0 (2)		
20	MN	eP	19 28 34.5	Z	1.0	6.5 (0)	11.0	4.86

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	FM	eP	19 30 25	LT	25	22.0 (2)		
		eS	19 29 27.1	Z	0.7	21.0 (0)	14.0	4.93
		eS	19 32 12	LR	17	83.0 (1)		
		eS	19 32 12	LT	15	60.0 (1)		
20	CP	eP	19 29 40.5	Z	1.5	57.0 (0)	16.0	4.51
		eL	19 33 50	LZ	22	14.0 (2)		
		eL	19 34 12	LZ	22	14.0 (2)		
		eL	19 34 12	LT	25	72.0 (1)		
20	MV	eL	19 30 00	LT	21	19.0 (2)	9.0	
		eL	19 30 16	LZ	15	10.0 (2)		
		eL	19 30 16	LT	21	19.0 (2)		
20	LC	eP	19 30 54.8	Z	1.0	9.6 (0)	22.0	4.16
		eL	19 35 12	LT	22	11.0 (2)		
		eL	19 37 34	LR	20	22.0 (1)		
		eL	19 37 34	LT	22	13.0 (2)		
20	TF	eL	19 31 45	LZ	20	16.0 (2)	12.0	
		eL	19 32 15	LZ	17	21.0 (2)		
		eL	19 32 15	LT	17	20.0 (2)		
20	DH	eL	19 46 05	LZ	35	92.0 (1)	38.0	
		eL	19 49 52	LZ	17	13.0 (2)		
		eL	19 49 52	LR	18	78.0 (1)		
		eL	19 49 52	LT	17	41.0 (1)		
							AVG.	4.78
20	WI	eP	19 34 16.8	Z	1.2	19.0 (0)		
20	MN	eP	19 34 31.4	Z	1.0	3.3 (0)		
20	FM	eP	19 35 27.2	Z	1.0	10.0 (0)		
20	CP	eP	19 35 36.2	Z	1.5	9.5 (0)		
20	LC	eP	19 36 49.3	Z	1.0	7.2 (0)		
20	LC	eP	23 03 50.1	Z	0.9	37.0 (0)		
20	CP	eP	23 04 51.0	Z	1.4	22.0 (0)		
20	SJ	eL	23 05 00	LT	30	21.0 (2)		
20	FM	eP	23 05 07.1	Z	1.0	21.0 (0)		
20	DH	eP	23 05 17.8	Z	0.6	17.0 (0)		
20	MN	eP	23 05 32.0	Z	1.0	29.0 (0)		
20	DH	e	23 05 37	Z	1.2	98.0 (0)		
20	WI	eP	23 05 44.7	Z	1.0	48.0 (0)		
20	LC	eL	23 07 50	LT	30	11.0 (2)		
20	SJ	eL	23 09 50	LR	22	23.0 (2)		
20	SJ	eL	23 09 50	LT	22	16.0 (2)		
20	SJ	eL	23 09 50	LZ	20	31.0 (1)		
20	FM	e	23 10 08	LT	25	57.0 (1)		
20	WI	e	23 11 20	LT	15	43.0 (1)		
20	TF	eL	23 14 03	LR	35	26.0 (2)		
20	DH	eL	23 14 05	LZ	35	20.0 (2)		
20	FM	eL	23 14 40	LT	40	10.0 (2)		
20	MN	eL	23 14 40	LT	28	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	TF	eL	23 16 06	LR	20	12.0 (2)		
20	TF	eL	23 16 06	LT	25	59.0 (1)		
20	DH	eL	23 17 10	LR	25	77.0 (1)		
20	DH	eL	23 17 10	LT	18	62.0 (1)		
20	DH	eL	23 17 10	LZ	25	12.0 (2)		
20	MN	eL	23 18 20	LT	20	4.0 (0)		
20	MN	eL	23 18 20	LR	25	75.0 (1)		
20	MN	eL	23 18 20	LZ	25	71.0 (1)		
20	WI	eL	23 18 22	LT	18	88.0 (1)		
20	WI	eL	23 18 47	LT	18	88.0 (1)		
20	WI	eL	23 18 47	LT	15	64.0 (1)		
20	WI	eL	23 18 47	LZ	25	20.0 (1)		
20	FM	eL	23 19 03	LT	18	11.0 (2)		
20	FM	eL	23 19 03	LZ	18	49.0 (1)		
21	03	23	21.0	04.9 N 122.7 E	CELEBES SEA			
				H =600 KM				
21	04	43	43.3	05.7 N 082.6 W	SOUTH OF PANAMA			
				H =023 KM MAG 6.25	PAS			
21	MV	eP	06 41 51.4	Z	0.3	6.3 (0)	1.6	
		eS	06 42 14	R	999.9	99.9 (9)		
21	07	55	46.0	61.3 N 153.4 W	ALASKA			
				H =032 KM				
21	08	38	28.4	20.8 S 175.6 W	TONGA ISLANDS REGION			
				H =067 KM				
21	TF	eP	08 50 15.6	Z	1.0	25.0 (0)	77.0	5.10
21	CP	eP	08 50 21.0	Z	1.0	11.0 (0)	78.0	4.74
		e	08 50 54	Z	1.3	22.0 (0)		
21	MV	eP	08 50 23.7	Z	1.0	9.7 (0)	78.0	4.69
21	MN	eP	08 50 32.3	Z	1.0	21.0 (0)	80.0	4.96
21	WI	eP	08 50 43.5	Z	1.1	22.0 (0)	82.0	5.00
21	FM	eP	08 50 54.8	Z	1.0	21.0 (0)	84.0	5.12
21	LC	eP	08 50 57.1	Z	1.0	24.0 (0)	85.0	5.18
							AVG.	5.01
21	CP	eP	09 00 32.7	Z	0.3	51.0 (0)	0.6	
		eS	09 00 42	T	0.5	14.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	09 15 35.5	Z	0.4	6.4 (0)	0.8	
		eS	09 15 49	R	0.4	50.0 (0)		
21	10	19	05.6	19.9 S 177.9 W	FIJI ISLANDS REGION			
				H =587 KM				
21	CP	eP	12 06 20.1	Z	0.2	5.8 (0)	1.6	
21	TF	eP	12 06 29.6	Z	0.3	8.3 (0)	2.2	
21	CP	eS	12 06 42	R	0.4	38.0 (0)	1.6	
21	TF	eS	12 06 59	T	0.5		2.2	
21	SJ	eP	15 47 00.4	Z	0.7	39.0 (0)		
21	LC	eP	15 48 08.7	Z	0.7	23.0 (0)		
21	DH	eP	15 48 09.5	Z	0.8	12.0 (0)		
21	CP	eP	15 48 59.3	Z	0.8	9.0 (0)		
21	FM	eP	15 49 10.7	Z	0.8	13.0 (0)		
21	TF	eP	15 49 27.5	Z	0.8	4.0 (0)		
21	WI	eP	15 49 41.6	Z	0.6	7.3 (0)		
21	MV	eP	15 49 49.6	Z	0.9	5.2 (0)		
21	15	56	21.1	53.0 N 159.1 E	NEAR E. COAST OF KAMCHATKA			
				H =042 KM				
21	16	45	19.6	07.0 S 155.7 E	SOLOMON ISLANDS REGION			
				H =069 KM				
21	18	58	18.6	38.8 S 072.9 W	NEAR COAST OF CHILE			
				H =040 KM				
21	LC	eP	19 10 10.9	Z	0.7	2.4 (0)		
21	LC	eP	20 30 04.5	Z	0.3	1.5 (0)	2.8	
		eS	20 30 40	R	0.5	9.1 (0)		
21	22	52	52.0	07.4 S 130.1 E	TANIMBAR ISLANDS REGION			
				H =052 KM				
21	LC	eP!	23 11 46.2	Z	1.0	4.7 (0)	122.0	
		ePKKP	23 21 43	Z	1.0	4.7 (0)		
22	08	16	46.4	18.8 S 169.7 E	NEW HEBRIDES IS. REGION			
				H =242 KM				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	MV	eP	08 29 04.5	Z	0.6	4.1 (0)	87.0	4.48
22	11 48 55.3		32.2 N 142.4 E H =025 KM				OFF COAST OF HONSHU, JAPAN	
22	MV	eP	12 00 36.2	Z	1.0	26.0 (0)	75.0	5.17
		eL	12 23 05	LZ	30	18.0 (2)		
		eL	12 26 00	LZ	22	17.0 (2)		
		eL	12 26 00	LT	20	25.0 (1)		
22	WI	eP	12 00 45.2	Z	1.3	72.0 (0)	76.0	5.57
		eL	12 24 28	LT	30	39.0 (1)		
		eL	12 30 00	LT	21	53.0 (1)		
		eL	12 30 00	LR	20	54.0 (1)		
		eL	12 30 00	LZ	22	11.0 (2)		
22	MN	eP	12 00 51.1	Z	1.0	40.0 (0)	77.0	5.43
		e	12 19 22	LR	22	18.0 (1)		
		eL	12 24 00	LR	32	60.0 (1)		
		eL	12 27 10	LR	23	74.0 (1)		
		eL	12 27 10	LZ	23	11.0 (2)		
22	TF	eP	12 00 53.6	Z	1.0	39.0 (0)	78.0	5.42
		eL	12 24 30	LZ	30	57.0 (1)		
		eL	12 30 00	LZ	20	15.0 (2)		
		eL	12 30 00	LR	20	62.0 (1)		
		eL	12 30 00	LT	20	89.0 (1)		
22	FM	eP	12 01 10.1	Z	1.2	51.0 (0)	81.0	5.38
		eL	12 26 15	LT	30	56.0 (1)		
		eL	12 33 20	LT	20	96.0 (1)		
		eL	12 33 20	LR	20	32.0 (1)		
		eL	12 33 20	LZ	20	93.0 (1)		
22	CP	eP	12 01 13.5	Z	1.2	44.0 (0)	82.0	5.39
		eL	12 26 20	LZ	30	71.0 (1)		
		eL	12 31 00	LZ	20	81.0 (1)		
		eL	12 31 00	LR	20	26.0 (1)		
		eL	12 31 00	LT	20	18.0 (1)		
22	LC	eP	12 01 49.2	Z	0.8	5.3 (0)	89.0	4.80
		eL	12 30 43	LZ	28	54.0 (1)		
		eL	12 38 40	LZ	20	99.0 (1)		
		eL	12 38 40	LR	20	70.0 (1)		
		eL	12 38 40	LT	20	16.0 (1)		
22	SJ	eP	12 02 29.3	Z	1.0	29.0 (0)	98.0	5.91
		eL	12 35 00	LZ	22	44.0 (1)		
		eL	12 35 00	LT	22	35.0 (1)		
22	DH	eL	12 40 00	LZ	27	38.0 (1)	98.0	
		eL	12 46 00	LZ	20	31.0 (1)		
		eL	12 46 00	LR	20	29.0 (1)		
		eL	12 46 00	LT	20	27.0 (1)		
							AVG.	5.38

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	14 55 39.8		06.9 S 147.0 E H =070 KM				NEAR N. COAST NEW GUINEA	
22	MV	eP	15 09 00.7	Z	1.0	8.2 (0)	96.0	5.21
22	TF	eP	15 09 05.8	Z	0.9	10.0 (0)	97.0	5.38
22	CP	eP	15 09 18.4	Z	0.7	2.7 (0)	100.0	4.99
22	LC	ePKKP	15 25 30.0	Z	0.8	3.8 (0)	108.0	
		e	15 25 45	Z	1.0	6.0 (0)		
							AVG.	5.19
22	WI	eP	15 30 39.0	Z	0.3	4.7 (0)	2.7	
		eS	15 31 13	R	0.5	18.0 (0)		
22	17 57 19.7		17.2 S 178.8 W H =609 KM				FIJI ISLANDS	
22	TF	eP	18 08 13.0	Z	0.7	6.5 (0)	78.0	4.18
22	CP	eP	18 08 19.2	Z	0.7	2.7 (0)	78.0	3.90
22	WI	eP	18 08 38.7	Z	0.9	7.0 (0)	82.0	4.76
22	LC	eP	18 08 55.9	Z	1.1	6.2 (0)	86.0	4.24
							AVG.	4.27
22	CP	eP	19 21 23.6	Z	0.5	4.6 (0)		
22	SJ	eP	19 48 33.6	Z	0.6	41.0 (0)		
23	CP	eP	01 03 34.1	Z	0.3	5.6 (0)	0.3	
		eS	01 03 39	T	0.4	4.3 (0)		
23	CP	eP	03 40 21.3	Z	0.4	3.8 (0)	1.6	
		eS	03 40 43	T	0.4	18.0 (0)		
		e	03 41 06	T	0.5	21.0 (0)		
23	CP	eP	03 43 41.8	Z	0.3	1.9 (0)	2.6	
		eS	03 44 15	R	0.5	25.0 (0)		
23	04 23 42.8		37.1 N 141.3 E H =060 KM				EAST COAST HONSHU, JAPAN	
23	05 04 57.6		29.7 N 049.1 E H =025 KM				PERSIAN GULF	
23	MN	eP	08 15 34.9	Z	0.2	4.4 (0)	0.3	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 15 40	R	0.3	22.0 (0)		
23	09 44 37.7		25.7 N 128.5 E H =036 KM	RYUKYU ISLANDS MAG 5.75-				
23	MV	eP	09 57 31.3	Z			89.0	
		eP	09 57 34	LZ	12	20.0 (2)		
		e	10 08 05	LT	20	39.0 (2)		
		e	10 14 12	LT	20	13.0 (2)		
		e	10 21 14	LT	27	50.0 (2)		
		eL	10 25 36	LZ	30	71.0 (2)		
23	WI	eP	09 57 38.0	Z	1.3	70.0 (0)	91.0	5.80
		eP	09 57 39	LZ	14	11.0 (2)		
		eSKS	10 08 05	LR	19	47.0 (2)		
		eS	10 08 34	R	3.0	26.0 (1)		
		eS	10 08 34	T	4.0	43.0 (1)		
		eL	10 20 35	LR	27	14.0 (2)		
		eL	10 44 30	LZ	18	15.0 (2)		
		eL	10 44 30	LR	17	11.0 (2)		
		eL	10 44 30	LT	17	44.0 (2)		
23	MN	eP	09 57 43.1	Z	1.3	72.0 (0)	92.0	5.84
		eP	09 57 46	LZ	13	11.0 (2)		
		eSKS	10 08 14	R	3.8	46.0 (1)		
		eSKS	10 08 16	LT	13	11.0 (3)		
		ePS	10 09 49	LR	24	26.0 (2)		
		eL	10 21 17	LT	28	99.9 (9)		
		eL	10 30 40	LZ	22	19.0 (2)		
		eL	10 30 40	LR	23	33.0 (2)		
		eL	10 30 40	LT	25	15.0 (2)		
23	TF	eP	09 57 46.9	Z	1.1	66.0 (0)	93.0	5.94
		eP	09 57 48	LZ	14	11.0 (2)		
		eSKS	10 08 21	LT	19	29.0 (2)		
		e	10 09 30	LT	23	30.0 (2)		
		eSS	10 15 11	LT	20	30.0 (2)		
		e	10 22 09	LT	28	30.0 (2)		
		eL	10 26 36	LZ	24	53.0 (2)		
		eL	10 29 49	LZ	23	11.0 (2)		
		eL	10 29 49	LR	25	40.0 (2)		
		eL	10 29 49	LT	23	70.0 (2)		
23	CP	eP	09 58 04.4	Z	1.3	95.0 (0)	96.0	6.16
		eP	09 58 06	LZ	13	50.0 (1)		
		eSKS	10 08 42	LT	18	20.0 (2)		
		ePS	10 10 48	LT	18	22.0 (2)		
		eSS	10 15 52	LT	24	21.0 (2)		
		eL	10 28 35	LZ	35	63.0 (2)		
		eL	10 31 35	LZ	24	80.0 (2)		
		eL	10 31 35	LR	25	92.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	LC	eL	10 31 35	LT	24	40.0 (2)		
		eP	09 58 35.0	Z	0.9	1.9 (0)	103.0	4.86
		eP	09 58 45	LZ	15	27.0 (1)		
		ePP	10 02 44	Z	1.3	15.0 (0)		
		eSKS	10 09 18	LR	23	13.0 (2)		
		eS	10 10 18	LT	29	11.0 (2)		
		eS	10 10 18	LR	18	31.0 (1)		
		ePS	10 11 55	LR	22	13.0 (2)		
		ePKKP	10 14 57	Z	1.0	14.0 (0)		
		e	10 15 35	LR	19	94.0 (1)		
		eSS	10 17 30	LT	23	13.0 (2)		
		eL	10 26 50	LT	34	28.0 (2)		
		eLR	10 32 29	LZ	30	21.0 (2)		
		eL	10 45 45	LZ	19	37.0 (2)		
		eL	10 45 45	LR	21	36.0 (2)		
		eL	10 45 45	LT	22	20.0 (2)		
23	SJ	ePD	09 59 42.0	LZ	14	46.0 (1)	110.0	
		eSKS	10 09 56	LR	20	15.0 (2)		
		e	10 11 38	LT	19	18.0 (2)		
		ePS	10 13 31	LR	25	25.0 (2)		
		eSS	10 19 15	LT	19	27.0 (2)		
		eSSS	10 22 58	LT	20	28.0 (2)		
		eL	10 34 33	LT	20	31.0 (2)		
		eL	10 48 00	LZ	20	33.0 (2)		
		eL	10 48 00	LR	20	32.0 (2)		
		eL	10 48 00	LT	21	10.0 (3)		
23	DH	ePP	10 03 30.5	Z	1.3	20.0 (0)	108.0	
		ePP	10 03 40	LZ	13	16.0 (2)		
		eSKS	10 09 47	LT	18	11.0 (2)		
		eSP	10 12 55	LZ	20	16.0 (2)		
		ePKKP	10 14 24	Z	1.1	25.0 (0)		
		eL	10 33 25	LR	30	25.0 (2)		
		eL	10 48 40	LT	23	62.0 (2)		
		eL	10 48 40	LR	22	32.0 (2)		
		eL	10 48 40	LZ	23	11.0 (3)		
							AVG.	5.72
23	09 58 26.0		19.1 N 121.4 E H =040 KM	NEAR COAST LUZON, P. IS.				
23	MV	eP	10 11 58.3	Z	1.0	10.0 (0)	98.0	5.42
23	WI	eP	10 12 04.5	Z	1.1	17.0 (0)	99.0	5.65
		e	10 15 51	Z	1.5	22.0 (0)		
		ePKKP	10 28 43	Z	1.5	7.4 (0)		
23	MN	eP	10 12 09.5	Z	1.3	15.0 (0)	100.0	5.46
		ePKKP	10 28 37	Z	0.9	2.9 (0)		
23	CP	ePD	10 12 37.8	Z	1.0	2.9 (0)	106.0	5.26

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
23	SJ	eP	10 17 15.0	Z	1.0	39.0 (0)	120.0		
23	LC	ePP	10 17 32	Z	2.0	34.0 (0)	111.0		
		ePKKP	10 28 03	Z	1.0	4.7 (0)			
							AVG.	5.41	
23	MN	eP	10 41 45.6	Z	0.4	3.7 (0)	0.9		
		eS	10 41 58	T	0.5	21.0 (0)			
23	MV	eP	12 48 55.8	Z	0.3	3.2 (0)	3.1		
		eS	12 49 25	R	0.5	5.0 (0)			
23	LC	eP	13 06 30.8	Z	1.0	4.7 (0)			
23	LC	eP	14 45 35.8	Z	0.9	3.8 (0)			
23	MN	eP	14 46 59.6	Z	0.6	0.8 (0)			
23	LC	eL	14 47 09	LZ	18	40.0 (1)			
23	LC	eL	14 47 09	LR	18	31.0 (1)			
23	LC	eL	14 47 09	LT	17	22.0 (1)			
23	15 03	15.4	33.5 S 071.8 W	NEAR COAST OF CHILE					
			H = 040 KM						
23	LC	eP	15 14 44.0	Z	0.9	3.8 (0)	73.0	4.41	
		eLR	15 40 20	LZ	19	65.0 (1)			
		eL	15 43 00	LZ	18	61.0 (1)			
		eL	15 43 00	LR	18	51.0 (1)			
		eL	15 43 00	LT	18	20.0 (1)			
23	CP	eP	15 15 22.8	Z	1.0	5.7 (0)	80.0	4.42	
23	MN	eP	15 15 39.5	Z	0.8	2.3 (0)	83.0	4.34	
23	WI	eP	15 15 59.1	Z	1.2	7.4 (0)	87.0	4.71	
		eL	15 47 10	LZ	23	15.0 (1)			
		eL	15 49 40	LZ	18	27.0 (1)			
		eL	15 49 40	LR	18	31.0 (1)			
		eL	15 49 40	LT	16	51.0 (1)			
							AVG.	4.47	
23	MN	eP	15 13 39.6	Z	0.2	20.0 (0)	0.1		
		eS	15 13 43	T	0.3	11.0 (1)			
23	CP	eP	19 16 25.6	Z	0.3	4.2 (0)	1.2		
		eS	19 16 41	T	0.3	8.4 (0)			
23	MN	eP	20 12 34.6	Z	0.4	1.8 (0)	0.2		
		eS	20 12 39	T	0.4	40.0 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	SJ	eP	22 02 43.6	Z	0.9	32.0 (0)		
24	01 21	18.2	25.6 N 101.1 E	YUNNAN PROVINCE, CHINA				
			H = 035 KM					
24	WI	eL	02 08 40	LR	35	12.0 (1)	105.0	
		eL	02 19 10	LT	22	35.0 (2)		
		eL	02 19 10	LZ	22	14.0 (2)		
		eL	02 19 10	LR	15	30.0 (1)		
24	MN	eL	02 08 40	LT	40	19.0 (2)	106.0	
		eL	02 20 07	LR	22	18.0 (2)		
		eL	02 20 07	LZ	17	47.0 (1)		
24	FM	eL	02 10 45	LR	50	20.0 (2)	109.0	
		eL	02 21 15	LR	20	44.0 (2)		
		eL	02 21 15	LZ	25	62.0 (1)		
24	MV	eL	02 13 23	LZ	33	22.0 (2)	106.0	
24	DH	eL	02 14 55	LR	35	10.0 (2)	113.0	
		eL	02 26 00	LR	25	21.0 (2)		
		eL	02 26 00	LT	23	72.0 (1)		
		eL	02 26 00	LZ	25	54.0 (0)		
24	LC	eL	02 14 55	LT	35	82.0 (1)	117.0	
		eL	02 25 17	LR	21	20.0 (2)		
		eL	02 25 17	LT	20	25.0 (2)		
		eL	02 25 17	LZ	18	31.0 (1)		
24	SJ	eL	02 21 20	LT	30	21.0 (2)	125.0	
24	01 43	01.2	15.7 S 179.1 W	FIJI ISLANDS REGION				
			H = 029 KM					
24	WI	eP	01 55 14.4	Z	1.0	6.6 (0)	81.0	4.56
24	CP	eL	02 17 10	LT	28	15.0 (2)		
24	CP	eL	02 24 00	LT	22	17.0 (2)		
24	03 01	47.6	06.8 S 146.8 E	NEW GUINEA				
			H = 050 KM					
24	MN	eP	03 15 22.2	Z	0.8	2.0 (0)	99.0	4.88

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	LC	eP	03 25 36.6	Z	1.0	7.2 (0)		
24	LC	e	03 31 40	Z	1.0	3.6 (0)		
24	LC	e	03 35 10	Z	0.9	5.8 (0)		
24	11 56 24.7		27.7 S 177.1 W H =052 KM				KERMADEC ISLAND REGION	
24	MN	eP	12 09 00.6	Z	1.0	3.2 (0)	86.0	4.30
24	WI	eP	12 09 12.1	Z	0.8	2.1 (0)	88.0	4.36
24	LC	eP	12 09 20.6	Z	1.0	4.8 (0)	90.0	4.63
							AVG.	4.43
24	14 13 02.4		55.8 N 162.6 E H =024 KM				KOMANDORSKIE IS. REGION	
24	MV	eP	14 22 09.0	Z	0.7	4.9 (0)	51.0	4.57
24	WI	eP	14 22 13.9	Z	1.0	8.8 (0)	52.0	4.67
24	MN	eP	14 22 26.4	Z	0.7	3.2 (0)	54.0	4.46
24	FM	eP	14 22 46.0	Z	0.8	13.0 (0)	56.0	5.01
24	AR	eP	14 23 27.1	Z	1.0	11.0 (0)	62.0	4.99
24	LC	eP	14 23 40.8	Z	0.8	3.8 (0)	64.0	4.60
24	DH	eP	14 24 20.2	Z	0.9	16.0 (0)	71.0	5.08
							AVG.	4.77
24	MV	eP	15 04 01.5	Z	0.3	2.1 (0)	0.9	
		eS	15 04 14	R	0.4	22.0 (0)		
24	MN	eP	15 04 44.4	Z	0.5	1.2 (0)	3.9	
		eS	15 05 33	R	0.7	3.5 (0)		
24	15 08 15.5		12.5 N 048.6 E H =047 KM				GULF OF ADEN	
24	MN	eP	15 27 22.9	Z	1.0	2.4 (0)	126.0	
24	17 03 14.9		15.3 S 167.6 E H =130 KM				NEW HEBRIDES ISLANDS	
24	MN	eP	17 15 50.4	Z	1.0	3.2 (0)	86.0	4.38

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	MN	eP	01 07 17.2	Z	0.6	1.4 (0)		
25	01 31 41.9		20.8 S 179.2 W H =645 KM				FIJI ISLANDS REGION	
25	CP	eP	01 42 50.2	Z	1.0	17.0 (0)	81.0	4.48
25	MV	eP	01 42 51.7	Z	0.9	26.0 (0)	81.0	4.72
25	MN	eP	01 42 59.0	Z	1.0	29.0 (0)	83.0	4.76
		eP	01 45 14.0	Z	1.0	4.1 (0)		
25	WI	eP	01 43 10.5	Z	0.8	9.7 (0)	84.0	4.44
25	LC	eP	01 43 23.9	Z	0.9	16.0 (0)	87.0	4.70
							AVG.	4.62
25	02 49 02.1		20.6 S 071.0 W H =037 KM				NEAR COAST OF NORTH CHILE	
25	DH	eP	02 59 24.3	Z	0.9	14.0 (0)	63.0	5.02
25	CP	eP	03 00 10.4	Z	1.0	5.7 (0)	70.0	4.54
25	MN	eP	03 00 34.5	Z	0.9	1.3 (0)	74.0	3.89
25	WI	eP	03 00 43.7	Z	0.9	7.2 (0)	75.0	4.63
							AVG.	4.74
25	06 26 49.6		37.3 S 073.5 W H =040 KM				NEAR COAST OF CHILE	
25	SJ	eP	06 37 54.0	Z	1.0	39.0 (0)	70.0	5.37
		eP	06 37 54	LZ	13	79.0 (1)		
		eS	06 46 45	LT	21	15.0 (2)		
		eS	06 46 45	LR	19	15.0 (1)		
		ePS	06 47 45	LR	20	71.0 (1)		
		eL	07 03 20	LZ	21	38.0 (1)		
		eL	07 12 39	LR	20	14.0 (2)		
		eL	07 12 39	LZ	20	51.0 (1)		
		eL	07 12 39	LT	18	12.0 (1)		
25	LC	eP	06 38 34.6	Z	1.1	34.0 (0)	76.0	5.27
		eP	06 38 35	LZ	19	19.0 (1)		
		eS	06 48 22	LT	21	22.0 (1)		
		ePS	06 49 07	LR	20	37.0 (1)		
		eSS	06 53 25	LR	21	28.0 (1)		
		eL	06 56 47	LR	24	31.0 (1)		
		eL	07 04 29	LZ	20	18.0 (2)		
		eL	07 04 29	LR	20	13.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
25	DH	eL	07 04 29	LT	19	12.0 (2)	79.0	5.04	
		eP	06 38 52.0	Z	1.1	23.0 (0)			
		eP	06 38 54	LZ	16	33.0 (1)			
		eS	06 48 55	LR	20	58.0 (1)			
		eS	06 48 55	LT	20	22.0 (1)			
		eL	07 03 50	LT	25	32.0 (1)			
		eL	07 08 00	LT	22	33.0 (1)			
		eL	07 08 00	LR	25	34.0 (1)			
25	CP	eP	06 39 05.7	Z	1.2	19.0 (0)	82.0	4.98	
	AR	eP	06 39 15.2	Z	1.0	27.0 (0)	84.0	5.31	
25	FM	eP	06 39 19.0	Z	1.2	52.0 (0)	84.0	5.52	
		eP	06 39 20	LZ	20	10.0 (1)			
		eS	06 49 43	LT	20	26.0 (1)			
		eS	06 49 43	LR	20	54.0 (1)			
		eL	07 08 25	LZ	30	61.0 (1)			
		eL	07 12 30	LZ	18	11.0 (2)			
		eL	07 12 30	LR	20	65.0 (1)			
		eL	07 12 30	LT	20	73.0 (1)			
25	TF	eP	06 39 25.0	Z	1.1	22.0 (0)	85.0	5.18	
		eP	06 39 28	LZ	15	31.0 (1)			
		e	06 49 49	LR	20	61.0 (1)			
		eL	07 07 15	LZ	18	14.0 (2)			
25	MN	eL	07 07 15	LR	18	36.0 (1)			
		eL	07 07 15	LT	18	12.0 (2)			
		eP	06 39 27.7	Z	1.3	30.0 (0)	87.0	5.28	
		eP	06 39 30	LZ	14	59.0 (1)			
		eS	06 50 07	LT	25	72.0 (1)			
		eSS	06 55 25	LT	25	32.0 (1)			
		e	06 59 21	LT	21	16.0 (1)			
		e	07 04 15	LT	32	76.0 (1)			
25	WI	eL	07 08 36	LZ	25	13.0 (2)			
		eL	07 10 00	LZ	21	13.0 (2)			
		eL	07 10 00	LR	20	40.0 (1)			
		eL	07 10 00	LT	21	23.0 (1)			
		eP	06 39 37.8	Z	1.5	51.0 (0)	88.0	5.51	
		e	06 50 10	LR	21	44.0 (1)			
		e	06 50 10	LT	22	40.0 (1)			
		eL	07 10 40	LZ	28	48.0 (1)			
25	MV	eL	07 12 45	LR	20	95.0 (1)			
		eL	07 12 45	LZ	20	80.0 (1)			
		eL	07 12 45	LT	20	20.0 (1)			
		eP	06 39 44.1	Z	1.6	37.0 (0)	89.0	5.32	
25	MV	eL	07 10 17	LZ	23	13.0 (2)			
		eL	07 10 17	LT	20	30.0 (1)			
AVG.								5.28	
25	11 10 23.3	24.3 N 122.6 E	OFF COAST OF FORMOSA						
		H =033 KM	MAG	5.75-	PAS				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
25	MV	eP	11 23 39.0	Z	1.1	25.0 (0)	94.0	5.49		
		eP	11 23 40	LZ	18	72.0 (2)				
		eSKS	11 34 20	LT	25	36.0 (2)				
		eSS	11 41 05	LT	25	26.0 (2)				
		e	11 46 13	LT	30	26.0 (2)				
		eL	11 53 55	LZ	43	14.0 (3)				
		eL	11 59 00	LZ	23	55.0 (2)				
		eL	11 59 00	LT	22	12.0 (2)				
		25	WI	eP	11 23 45.0	Z	1.1	34.0 (0)	95.0	5.69
				eP	11 23 47	LZ	18	93.0 (1)		
eSKS	11 34 21			LR	24	60.0 (2)				
eSKS	11 34 23			R	2.5	7.1 (0)				
e	11 36 05			LR	20	20.0 (2)				
eSS	11 40 43			LR	30	19.0 (2)				
ePKKP	11 40 45			Z	1.1	7.1 (0)				
eSSS	11 46 15			LR	28	17.0 (2)				
eL	11 48 42			LR	25	27.0 (2)				
eLR	11 54 32			LZ	38	64.0 (2)				
25	MN	eL	11 59 00	LZ	25	39.0 (2)				
		eL	11 59 00	LR	25	19.0 (2)				
		eL	11 59 00	LT	25	21.0 (2)				
		eP	11 23 49.6	Z	1.0	8.2 (0)	97.0	5.28		
		eP	11 23 50	LZ	15	39.0 (2)				
		eSKS	11 34 27	R	2.6	12.0 (1)				
		eSKS	11 34 34	LT	25	42.0 (2)				
		eSS	11 41 34	LT	25	20.0 (2)				
		e	11 47 23	LT	25	21.0 (2)				
		eLQ	11 49 08	LT	40	59.0 (2)				
25	TF	eLR	11 55 31	LZ	32	14.0 (3)				
		eL	11 57 40	LZ	24	10.0 (3)				
		eL	11 57 40	LR	25	26.0 (2)				
		eP	11 23 53.5	Z	1.0	21.0 (0)	97.0	5.69		
		eP	11 23 56	LZ	18	81.0 (1)				
		eSKS	11 34 20	LR	26	36.0 (2)				
		e	11 41 10	LR	25	40.0 (2)				
		eLQ	11 50 00	LR	30	63.0 (2)				
		eL	11 52 30	LZ	25	78.0 (2)				
		eL	11 52 30	LR	25	49.0 (2)				
25	FM	eL	11 52 30	LT	25	73.0 (2)				
		eLR	11 55 42	LZ	30	64.0 (2)				
		eP	11 24 07	LZ	19	51.0 (1)	100.0			
		ePP	11 28 10	LZ	19	51.0 (1)				
		eSKS	11 34 49	LT	25	16.0 (2)				
		eS	11 35 35	LR	26	25.0 (2)				
		e	11 37 00	LT	21	17.0 (2)				
		eSS	11 42 25	LR	26	23.0 (2)				
		eLQ	11 52 05	LR	31	50.0 (2)				
		eLR	12 00 10	LZ	24	34.0 (2)				
25	FM	eL	12 00 10	LT	24	26.0 (2)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	CP	eL	12 00 10	LR	25	28.0 (2)		
		eP	11 24 15.6	Z	1.2	9.3 (0)	102.0	5.32
25	LC	ePD	11 24 44.0	Z	0.9	1.9 (0)	105.0	5.06
		ePD	11 24 44	LZ	18	31.0 (1)		
		ePP	11 29 06	Z	1.8	39.0 (0)		
		ePP	11 29 07	LZ	22	62.0 (1)		
		eSKS	11 35 29	LR	20	14.0 (2)		
		e	11 36 50	LT	30	14.0 (2)		
		ePS	11 38 22	LR	21	18.0 (2)		
		ePKKP	11 40 22	Z	1.2	20.0 (0)		
		ePKKS	11 44 05	LT	25	26.0 (2)		
		eLQ	11 54 35	LT	32	29.0 (2)		
		eLR	11 58 45	LZ	28	31.0 (2)		
		eL	12 09 30	LZ	22	45.0 (2)		
		eL	12 09 30	LR	22	30.0 (2)		
		eL	12 09 30	LT	25	38.0 (2)		
25	SJ	ePD	11 25 20	LZ	17	33.0 (1)	116.0	
		ePKP	11 29 12.9	Z	1.0	20.0 (0)		
		ePP	11 30 08	LZ	17	13.0 (2)		
		e	11 37 55	LT	23	19.0 (2)		
		ePS	11 40 05	LR	25	38.0 (2)		
		eSS	11 45 55	LT	27	44.0 (2)		
		eSSS	11 50 05	LT	22	32.0 (2)		
		e	11 56 55	LT	27	39.0 (2)		
		e	11 59 12	LT	33	76.0 (2)		
		eLQ	12 05 00	LR	42	18.0 (3)		
		eLR	12 12 05	LZ	24	30.0 (2)		
		eL	12 16 50	LR	21	92.0 (2)		
		eL	12 16 50	LZ	20	32.0 (2)		
		eL	12 16 50	LT	20	53.0 (2)		
25	AR	ePP	11 29 03	Z	1.0	11.0 (0)	105.0	
		ePKKP	11 40 43	Z	1.3	26.0 (0)		
25	DH	ePP	11 29 46	LZ	20	13.0 (2)	111.0	
		ePS	11 39 02	LT	19	21.0 (2)		
		eSPP	11 40 27	LZ	20	39.0 (2)		
		eSS	11 45 26	LT	30	27.0 (2)		
		eL	12 00 50	LR	37	68.0 (2)		
		eL	12 03 50	LR	35	11.0 (3)		
		eL	12 13 00	LZ	23	11.0 (3)		
		eL	12 13 00	LR	23	81.0 (2)		
		eL	12 13 00	LT	23	69.0 (2)		
							AVG.	5.42
25	MN	eL	11 57 40	LT	25	17.0 (2)	97.0	
25	12 49 41.8		03.7 N 126.6 E				MOLLUCA PASSAGE	
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	WI	ePKKP	13 19 43.6	Z	1.0	2.2 (0)	108.0	
25	LC	eP	13 08 32.1	Z	0.7	1.8 (0)		
25	LC	eP	13 18 53.8	Z	1.0	3.6 (0)		
25	18 58 35.6		14.5 N 082.4 W				EAST COAST OF NICARAGUA	
			H =025 KM				MAG 4.50-4.75	PAL
25	SJ	eP	19 03 06.0	Z	1.0	31.0 (1)	20.0	5.52
		eP	19 03 06	LZ	10	20.0 (2)		
		eS	19 06 46	LT	15	16.0 (1)		
		eS	19 06 46	LR	14	15.0 (2)		
		eL	19 08 41	LR	27	24.0 (2)		
		eL	19 16 00	LT	21	50.0 (2)		
		eL	19 16 00	LR	20	16.0 (2)		
		eL	19 16 00	LZ	18	20.0 (2)		
25	LC	eP	19 04 29.1	Z	1.0	12.0 (0)	28.0	4.63
		eS	19 09 30	LR	19	11.0 (2)		
		eSS	19 10 45	LT	18	96.0 (1)		
		eL	19 12 40	LZ	30	12.0 (2)		
		eL	19 18 10	LR	20	20.0 (2)		
		eL	19 18 10	LZ	22	97.0 (1)		
		eL	19 18 10	LT	18	12.0 (2)		
25	DH	eP	19 04 33.5	Z	0.8	11.0 (0)	29.0	4.69
		eS	19 09 28	LT	20	87.0 (1)		
		eL	19 12 00	LR	25	50.0 (2)		
		eL	19 14 00	LR	23	54.0 (2)		
		eL	19 14 00	LZ	25	19.0 (2)		
		eL	19 14 00	LT	24	27.0 (2)		
25	AR	eP	19 04 56.3	Z	1.0	16.0 (0)	31.0	4.89
25	FM	eP	19 05 37.0	Z	1.2	34.0 (0)	36.0	5.07
		eS	19 11 20	LT	23	39.0 (1)		
		eL	19 20 00	LR	21	22.0 (2)		
		eL	19 20 00	LT	21	86.0 (1)		
		eL	19 20 00	LZ	20	52.0 (1)		
25	CP	eP	19 05 38.0	Z	1.1	7.4 (0)	36.0	4.45
25	TF	eP	19 06 10.5	Z	1.1	16.0 (0)	40.0	4.61
		eS	19 12 20	LR	22	30.0 (1)		
		eS	19 12 20	LT	24	75.0 (1)		
		eL	19 19 00	LR	19	47.0 (2)		
		eL	19 19 00	LZ	20	89.0 (1)		
		eL	19 19 00	LT	20	15.0 (2)		
25	WI	eP	19 06 17.0	Z	0.8	4.1 (0)	41.0	4.24
		eS	19 12 25	LR	25	50.0 (1)		
		eS	19 12 25	LT	23	47.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	19 22 05	LT	28	15.0 (2)		
		eL	19 24 10	LZ	23	80.0 (1)		
		eL	19 24 10	LR	21	19.0 (2)		
		eL	19 24 10	LT	20	54.0 (2)		
25	MV	eP	19 06 27.5	Z	1.0	6.5 (0)	42.0	4.34
25	MN	eS	19 12 15	LR	24	74.0 (1)	40.0	
		eL	19 16 55	LR	42	94.0 (1)		
		eL	19 20 17	LT	30	28.0 (2)		
		eL	19 22 35	LZ	22	78.0 (1)		
		eL	19 22 35	LR	23	84.0 (1)		
		eL	19 22 35	LT	22	24.0 (2)		
							AVG.	4.71
25	22 58 10.3		75.0 N 004.2 E				SVALBARD REGION	
			H =025 KM					
25	LC	eP	23 08 44.0	Z	0.7	3.0 (0)	64.0	4.56
26	02 51 21.7		27.9 N 129.2 E				RYUKYU ISLANDS	
			H =035 KM					
26	MV	eP	03 04 03.2	Z	0.8	4.1 (0)	87.0	4.54
		e	03 04 13	Z	1.0	9.7 (0)		
26	WI	eP	03 04 09.2	Z	1.0	4.4 (0)	88.0	4.64
		e	03 04 19	Z	1.5	27.0 (0)		
26	MN	eP	03 04 15.8	Z	1.0	1.7 (0)	89.0	4.19
		e	03 04 25	Z	1.5	11.0 (0)		
26	CP	eP	03 04 36.4	Z	1.2	9.3 (0)	94.0	4.66
		e	03 04 47	Z	1.4	29.0 (0)		
26	TF	eL	03 36 20	LZ	20	20.0 (1)	90.0	
							AVG.	4.51
26	MN	eP	07 22 55.2	Z	1.0	5.2 (0)		
26	MN	e	07 24 11	Z	1.0	3.5 (0)		
26	08 05 34.5		04.8 S 146.9 E				BISMARCK SEA	
			H =082 KM					
26	09 54 35.1		07.1 S 149.6 E				NEW BRITAIN REGION	
			H =059 KM					
26	WI	eP	10 08 03.3	Z	1.0	2.2 (0)	97.0	4.68

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	WI	eP	11 02 15.6	Z	0.8	2.8 (0)		
26	MN	eP	11 02 34.1	Z	0.7	1.8 (0)		
26	MN	eP	13 29 25.8	Z	1.0	3.5 (0)		
26	LC	eP	13 29 54.1	Z	0.8	4.5 (0)		
26	14 54 19.0		42.7 N 023.8 E				BULGARIA	
			H =025 KM					
26	WI	eP	16 08 01.8	Z	0.3	6.4 (0)	1.8	
		eS	16 08 26	T	0.4	14.0 (0)		
26	CP	eP	16 08 42.5	Z	0.3	5.5 (0)	2.6	
		eS	16 09 16	T	0.4	11.0 (0)		
27	01 28 55.7		37.7 N 088.5 W				SOUTHERN ILLINOIS	
			H =025 KM				MAG 5.25-5.50 PAL	
27	03 30 01.9		06.1 S 148.8 E				NEW BRITAIN REGION	
			H =055 KM					
27	MV	eP	05 13 10.5	Z	0.3	3.3 (0)		
27	MV	eL	05 14 11	T	1.5	64.0 (0)		
27	MV	eL	05 14 12	LT	20	16.0 (2)		
27	WI	eL	05 15 00	LR	20	24.0 (2)		
27	MN	eL	05 15 12	LT	20	23.0 (2)		
27	WI	eL	05 15 50	LR	20	24.0 (2)		
27	WI	eL	05 15 50	LT	25	12.0 (2)		
27	MN	eL	05 15 55	LT	20	23.0 (2)		
27	TF	eL	05 16 35	LZ	22	77.0 (1)		
27	TF	eL	05 17 30	LZ	15	76.0 (1)		
27	TF	eL	05 17 30	LR	20	10.0 (2)		
27	WI	eL	05 48 40	LZ	20	25.0 (1)		
27	WI	eL	05 52 12	LZ	20	17.0 (1)		
27	WI	eL	05 52 12	LT	20	20.0 (1)		
27	08 17 50.3		30.0 S 177.7 W				KERMADEC ISLANDS	
			H =069 KM					
27	08 30 39.3		50.2 N 158.7 E				OFF COAST OF KAMCHATKA	
			H =020 KM					
27	DH	eP	08 42 31.3	Z	0.7	18.0 (0)	77.0	5.25

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	12 21	40.0	04.6 S 151.4 E H =110 KM				NEW IRELAND REGION	
27	13 33	21.5	39.1 S 074.9 W H =040 KM				OFF COAST OF CHILE	
27	LC	eP	13 45 10.9	Z	0.8	13.0 (0)	77.0	4.99
27	AR	eP	13 45 53.4	Z	0.8	10.0 (0)	85.0	4.98
							AVG.	4.98
27	13 38	30.6	48.0 S 099.6 E H =025 KM				INDIAN OCEAN	
27	MV	eP ¹²	13 58 25.5	Z	1.0	20.0 (0)	149.0	
27	CP	eL	14 41 45	LZ	25	19.0 (2)		
27	FM	eL	14 45 25	LZ	30	13.0 (2)		
27	FM	eL	14 46 30	LZ	23	11.0 (2)		
27	FM	eL	14 46 30	LR	24	11.0 (2)		
27	FM	eL	14 46 30	LT	25	42.0 (1)		
27	MV	eL	14 48 20	LZ	35	71.0 (1)		
27	TF	eLR	14 48 22	LZ	30	57.0 (1)		
27	MN	eL	14 49 38	LZ	30	77.0 (1)		
27	WI	eL	14 50 00	LZ	40	70.0 (1)		
27	MN	eL	14 51 00	LZ	25	51.0 (1)		
27	MN	eL	14 51 00	LR	25	15.0 (1)		
27	MN	eL	14 51 00	LT	25	36.0 (1)		
27	TF	eL	14 51 38	LZ	22	58.0 (1)		
27	TF	eL	14 51 38	LR	22	41.0 (1)		
27	LC	eL	14 52 45	LZ	22	23.0 (1)		
27	WI	eL	14 56 48	LZ	22	58.0 (1)		
27	WI	eL	14 56 48	LR	15	10.0 (1)		
27	WI	eL	14 56 48	LT	20	46.0 (1)		
27	LC	eL	15 02 32	LZ	17	29.0 (1)		
27	LC	eL	15 02 32	LR	20	23.0 (1)		
27	LC	eL	15 02 32	LT	15	25.0 (1)		
27	LC	e	15 08 07	LR	20	46.0 (1)		
27	LC	eL	15 14 20	LR	17	24.0 (1)		
27	LC	eL	15 14 55	LZ	15	43.0 (1)		
27	LC	eL	15 14 55	LR	17	24.0 (1)		
27	LC	eL	15 14 55	LT	17	14.0 (1)		
27	MV	eL	15 41 57	LT	28	13.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	MN	eL	15 43 00	LZ	28	21.0 (2)		
27	MN	eL	15 43 52	LZ	25	20.0 (2)		
27	MN	eL	15 43 52	LR	20	53.0 (1)		
27	MN	eL	15 43 52	LT	24	14.0 (2)		
27	WI	eL	15 44 05	LZ	28	14.0 (2)		
27	WI	eL	15 45 02	LZ	25	90.0 (1)		
27	WI	eL	15 45 02	LR	25	51.0 (1)		
27	WI	eL	15 45 02	LT	25	85.0 (1)		
27	LC	eL	15 45 50	LZ	25	17.0 (2)		
27	LC	eL	15 47 40	LZ	20	18.0 (2)		
27	LC	eL	15 47 40	LR	20	93.0 (1)		
27	LC	eL	15 47 40	LT	15	15.0 (2)		
27	CP	eL	15 49 32	LZ	25	29.0 (1)		
27	LC	eP	19 58 01.8	Z	1.0	15.0 (0)		
27	23 26	48.2	23.7 N 123.0 E H =076 KM				OFF COAST OF FORMOSA	
28	04 13	52.3	31.9 N 130.8 E H =036 KM				KYUSHU, JAPAN	
28	04 27	18.4	20.0 N 155.6 W H =025 KM				HAWAII ISLAND, HAWAII MAG 5.25-5.50 PAS	
28	06 51	04.3	40.9 N 020.8 E H =025 KM				NEAR GREECE-ALBANIA BORDER	
28	11 02	50.5	02.4 S 127.7 E H =072 KM				CERAM SEA	
28	11 17	48.6	07.7 S 107.9 E H =094 KM				NEAR COAST OF JAVA	
28	17 51	01.5	43.8 N 144.5 E H =055 KM				COAST N. HOKKAIDO, JAPAN	
28	18 50	27.5	00.2 S 124.3 E H =058 KM				NORTHERN CELEBES	
28	20 47	30.6	17.6 S 175.2 W H =244 KM				TONGA ISLANDS REGION	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	00 52	12.0	15.1 S 166.9 E H = 122 KM	NEW HEBRIDES ISLANDS				
29	WI	eP	01 04 27.6	Z	0.4	5.1 (0)	1.7	
		eS	01 04 51	T	0.5	16.0 (0)		
29	LC	eP	01 37 50.0	Z	0.5	1.8 (0)		
29	CP	eP	03 26 40.5	Z	0.2	6.9 (0)	0.8	
		eS	03 26 51	T	0.3	58.0 (0)		
29	03 30	18.8	56.2 S 026.9 W H = 025 KM	SANDWICH ISLANDS				
29	TF	eP†	03 49 08.0	Z	0.8	5.2 (0)	118.0	
29	MN	eP†	03 49 10.6	Z	0.8	4.3 (0)	122.0	
29	WI	eP†	03 49 14.0	Z	0.8	5.5 (0)	122.0	
29	MV	eP†	03 49 14.5	Z	0.8	5.1 (0)	124.0	
29	CP	eP	09 39 05.1	Z	0.3	32.0 (0)	0.2	
		eS	09 39 10	T	0.5	12.0 (1)		
29	10 28	46.6	35.2 S 106.0 W H = 025 KM	EASTER ISLAND REGION				
29	LC	eP	10 39 40.5	Z	0.9	0.7 (0)	67.0	4.86
29	TF	eP	10 40 07.5	Z	1.5	27.0 (0)	71.0	5.08
		eLR	11 02 48	LZ	20	29.0 (1)		
		eL	11 03 35	LZ	21	20.0 (1)		
		eL	11 03 35	LR	20	10.0 (1)		
		eL	11 03 35	LT	21	13.0 (1)		
29	MN	eP	10 40 23.0	Z	1.0	10.0 (0)	75.0	4.75
		eLR	11 04 19	LZ	25	16.0 (1)		
		eL	11 05 20	LZ	21	16.0 (1)		
		eL	11 05 20	LR	21	99.0 (0)		
		eL	11 05 20	LT	20	18.0 (1)		
29	FM	eP	10 40 25.1	Z	0.9	8.5 (0)	75.0	4.73
29	MV	eP	10 40 31.0	Z	1.0	4.1 (0)	76.0	4.44
29	WI	eP	10 40 39.0	Z	0.9	3.6 (0)	77.0	4.38
29	DH	eLR	11 09 44	LZ	25	28.0 (1)	82.0	
		eL	11 12 00	LT	25	42.0 (1)		
		eL	11 12 00	LZ	23	28.0 (1)		
				AVG.			4.71	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	12 09	32.5	17.9 S 167.8 E H = 044 KM	NEW HEBRIDES ISLANDS				
29	MN	eP	12 22 24.3	Z	0.8	1.1 (0)	89.0	4.09
29	DH	eP	12 46 50.3	Z	0.4	7.0 (0)	1.1	
		eS	12 47 25	T	0.4	28.0 (0)		
29	WI	eP	13 17 14.4	Z	1.0	2.2 (0)		
29	13 49	16.9	07.9 S 127.3 E H = 080 KM	BANDA SEA				
29	CP	eP†	14 07 54.1	Z	1.0	5.7 (0)	112.0	
29	LC	eP†	14 08 09.3	Z	1.2	12.0 (0)	125.0	
29	SJ	eSKP	14 11 45	Z	1.0	58.0 (0)	134.0	
29	15 48	11.9	38.2 N 143.1 E H = 033 KM	COAST OF N. HONSHU, JAPAN				
29	16 28	04.4	62.3 N 152.4 W H = 039 KM	ALASKA MAG 4.75-5. PAL				
29	WI	eP	16 34 08.4	Z	1.3	50.0 (0)	29.0	5.11
		eP	16 34 10	LZ	15	26.0 (1)		
		ePCP	16 37 13	Z	1.5	29.0 (0)		
		eS	16 39 00	LR	23	21.0 (2)		
		eS	16 39 00	LT	26	83.0 (1)		
		eSCP	16 40 54	Z	1.6	25.0 (0)		
		eLQ	16 41 27	LT	31	21.0 (2)		
		eLR	16 43 09	LZ	23	25.0 (2)		
		eL	16 43 53	T	3.5	36.0 (1)		
		eL	16 47 15	LZ	14	62.0 (2)		
		eL	16 47 15	LR	14	74.0 (2)		
		eL	16 47 15	LT	15	19.0 (2)		
29	MV	eP	16 34 10.5	Z	1.4	13.0 (1)	30.0	4.54
		eP	16 34 11	LZ	15	25.0 (1)		
		e	16 36 51	Z	0.9	6.7 (0)		
		eS	16 39 00	LT	28	58.0 (1)		
		eS	16 39 08	R	2.4	21.0 (1)		
		eS	16 39 08	T	2.4	14.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
29	MN	eL	16 40 38	LT	25	11.0 (2)				
		e	16 41 03	Z	2.0	58.0 (0)				
		eP	16 34 28.0	Z	1.3	16.0 (0)	32.0	4.71		
		eP	16 34 30	LZ	21	21.0 (1)				
		ePCP	16 37 08	Z	1.0	24.0 (0)				
		eS	16 39 36	LR	30	10.0 (2)				
		eS	16 39 36	LT	33	68.0 (1)				
		eS	16 39 38	T	2.2	67.0 (0)				
		eS	16 39 38	R	2.5	88.0 (0)				
		e	16 41 00	Z	2.0	48.0 (0)				
		eLQ	16 41 45	LT	33	24.0 (2)				
		eLR	16 43 04	LZ	19	45.0 (2)				
		eL	16 45 35	LZ	19	45.0 (2)				
		eL	16 45 35	LR	19	32.0 (2)				
		29	FM	eL	16 45 35	LT	17	80.0 (1)		
eP	16 34 43.7			Z	1.0	21.0 (0)	34.0	4.98		
eP	16 34 46			LZ	13	22.0 (1)				
eS	16 40 03			LT	27	15.0 (2)				
eSS	16 42 21			LR	36	14.0 (2)				
eLR	16 45 26			LZ	24	14.0 (2)				
eL	16 47 53			LZ	20	14.0 (2)				
eL	16 47 53			LR	18	31.0 (2)				
eL	16 47 53			LT	21	16.0 (2)				
29	TF			eP	16 34 48.0	Z	1.1	80.0 (0)	34.0	5.52
				eP	16 34 50	LZ	14	36.0 (1)		
				ePCP	16 37 28	Z	1.0	20.0 (0)		
				eS	16 40 13	R	3.0	27.0 (1)		
				eS	16 40 13	T	2.2	38.0 (0)		
				eS	16 40 16	LR	20	40.0 (1)		
		eS	16 40 16	LT	20	51.0 (1)				
		e	16 42 51	LR	32	20.0 (2)				
		eL	16 44 29	LZ	23	32.0 (2)				
		eL	16 47 00	LZ	16	63.0 (2)				
		eL	16 47 00	LR	16	28.0 (2)				
		eL	16 47 00	LT	15	54.0 (2)				
		29	CP	eP	16 35 17.2	Z	1.1	63.0 (0)	37.0	5.18
				e	16 38 02	Z	1.0	17.0 (0)		
				eLR	16 46 44	LZ	21	27.0 (2)		
eL	16 47 39			LZ	23	27.0 (2)				
eL	16 47 39			LR	23	95.0 (1)				
eL	16 47 39			LT	24	15.0 (2)				
29	AR	eP	16 35 32.1	Z	1.2	92.0 (0)	40.0	5.36		
		eS	16 41 33	R	2.0	14.0 (1)				
		eS	16 41 33	T	2.0	60.0 (0)				
29	LC	eL	16 48 18	T	2.5	64.0 (1)				
		eP	16 35 52.3	Z	1.6	10.0 (1)	42.0	4.34		
		eP	16 35 53	LZ	13	39.0 (1)				
		ePCP	16 37 47	Z	1.0	14.0 (0)				
		e	16 41 36	Z	0.9	39.0 (0)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
29	DH	eS	16 42 13	LR	16	39.0 (1)				
		eS	16 42 13	LT	20	43.0 (1)				
		eLR	16 45 25	LZ	24	45.0 (1)				
		eL	16 55 00	LZ	14	30.0 (2)				
		eL	16 55 00	LR	15	41.0 (2)				
		eL	16 55 00	LT	13	93.0 (1)				
		eP	16 36 39.6	Z	1.3	88.0 (0)	48.0	5.61		
		eP	16 36 42	LZ	20	19.0 (1)				
		eS	16 43 36	LR	18	47.0 (1)				
		eS	16 43 36	LT	18	50.0 (1)				
		e	16 47 11	LZ	27	11.0 (2)				
		eL	16 50 54	LR	29	25.0 (2)				
		e	16 52 12	Z	2.0	15.0 (1)				
		eL	16 57 00	LR	14	54.0 (2)				
		eL	16 57 00	LZ	13	66.0 (2)				
		eL	16 57 00	LT	13	16.0 (3)				
		29	SJ	eP	16 36 54.3	Z	1.5	39.0 (1)	49.0	5.18
				eP	16 36 55	LZ	13	11.0 (2)		
				ePP	16 38 53	LZ	13	11.0 (2)		
				eS	16 44 02	LT	18	10.0 (2)		
				eS	16 44 02	LR	20	10.0 (2)		
				e	16 47 55	LZ	20	14.0 (3)		
				eL	16 55 16	LT	20	11.0 (3)		
				eLR	16 58 36	LZ	16	19.0 (3)		
				eL	16 59 30	LT	18	13.0 (3)		
eL	16 59 30			LR	18	16.0 (3)				
		eL	16 59 30	LZ	18	11.0 (3)				
						AVG.	5.05			
29	MV	eP	17 17 55.9	Z	0.7	4.1 (0)				
29	CP	eP	17 18 02.3	Z	0.6	2.4 (0)				
29	MN	eP	17 18 05.7	Z	0.7	3.4 (0)				
29	CP	eP	17 21 14.8	Z	1.0	2.9 (0)				
29	CP	eP	17 57 52.9	Z	0.3	0.9 (0)	2.1			
		e	17 57 58	Z	0.4	5.7 (0)				
		eS	17 58 20	R	0.4	16.0 (0)				
29	20 58 16.6	41.8 S 079.7 E	SOUTH INDIAN OCEAN							
		H = 033 KM								
29	MN	eP'2	21 19 23.0	Z	1.3	14.0 (0)	166.0			
29	MN	eLR	22 16 53	LZ	30	44.0 (1)				
29	MN	eL	22 22 40	LZ	21	53.0 (1)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MN	eL	22 22 40	LR	20	30.0 (1)		
29	MN	eL	22 22 40	LT	22	45.0 (0)		
29	CP	eP	22 25 56.5	Z	0.2	1.1 (0)	1.8	
		e	22 26 07	Z	0.5	9.5 (0)		
		eS	22 26 31	R	0.5	23.0 (0)		
29	22 35 20.3		15.3 N 105.4 W				OFF COAST OF MEXICO	
			H = 025 KM					
29	SJ	eP	22 38 38.9	Z	1.0	39.0 (0)	14.0	5.04
		eP	22 38 39	LZ	12	30.0 (2)		
		eL	22 42 30	LT	20	10.0 (3)		
		eL	22 43 36	R	4.0	16.0 (2)		
29	LC	eP	22 39 20.0	Z	1.3	30.0 (0)	17.0	4.29
		eS	22 42 35	LR	25	16.0 (2)		
		eL	22 43 33	LR	21	45.0 (2)		
		eL	22 44 29	Z	5.5	82.0 (1)		
		eLR	22 44 30	LZ	15	20.0 (2)		
29	CP	eP	22 39 56.4	Z	1.6	33.0 (0)	20.0	4.29
		e	22 41 15	Z	2.5	15.0 (2)		
		eS	22 43 53	LR	16	13.0 (2)		
		eS	22 43 53	LT	16	24.0 (2)		
		eLR	22 45 05	LZ	22	56.0 (2)		
		eL	22 46 08	LZ	22	56.0 (2)		
		eL	22 46 08	LR	22	36.0 (2)		
		eL	22 46 08	LT	21	22.0 (2)		
29	TF	eP	22 40 34.0	Z	0.9	10.0 (0)	24.0	4.32
		e	22 45 01	LR	20	81.0 (1)		
		eLQ	22 46 08	LR	31	17.0 (2)		
		eLR	22 47 36	LZ	20	22.0 (2)		
		eL	22 49 00	LZ	18	19.0 (2)		
		eL	22 49 00	LR	18	30.0 (2)		
		eL	22 49 00	LT	17	29.0 (2)		
29	MN	eP	22 40 50.8	Z	1.4	13.0 (0)	26.0	4.72
		e	22 42 32	Z	3.5	17.0 (1)		
		eLQ	22 46 55	LT	30	11.0 (2)		
		eLR	22 48 49	LZ	23	16.0 (2)		
		eL	22 49 30	LZ	21	15.0 (2)		
		eL	22 49 30	LR	21	15.0 (2)		
		eL	22 49 30	LT	18	12.0 (2)		
29	WI	eP	22 41 12.0	Z	1.2	11.0 (0)	28.0	4.51
		eL	22 48 00	LT	27	71.0 (1)		
		eL	22 52 30	LZ	15	22.0 (2)		
		eL	22 52 30	LR	16	28.0 (2)		
		eL	22 52 30	LT	18	32.0 (1)		
29	MV	eL	22 48 31	LT	24	10.0 (2)	28.0	
29	DH	eL	22 53 32	LZ	32	16.0 (2)	38.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	22 58 32	LR	15	13.0 (2)		
		eL	22 58 32	LT	15	10.0 (2)		
		eL	22 58 32	LZ	15	25.0 (2)		
							AVG.	4.52
29	22 35 40.5		32.1 N 048.4 E				IRAN	
			H = 025 KM					
30	01 09 47.7		34.0 N 141.5 E				OFF COAST OF HONSHU, JAPAN	
			H = 052 KM					
30	LC	eP	09 16 54.6	Z	0.6	0.9 (0)		
30	09 45 50.2		27.6 N 057.7 E				IRAN	
			H = 025 KM					
30	WI	eP	15 30 44.7	Z	1.0	5.7 (0)		
30	LC	eP	15 31 07.6	Z	0.8	2.9 (0)		
30	MN	eL	15 39 40	LZ	30	20.0 (1)		
30	MN	eL	15 40 20	LZ	28	26.0 (1)		
30	MN	eL	15 40 20	LR	24	94.0 (0)		
30	MN	eL	15 40 20	LT	26	28.0 (1)		
30	TF	eL	15 43 35	LZ	25	52.0 (1)		
30	CP	eL	15 43 42	LZ	25	30.0 (1)		
30	MV	eL	15 43 55	LZ	30	32.0 (1)		
30	TF	eL	15 45 05	LZ	20	62.0 (1)		
30	TF	eL	15 45 05	LR	20	50.0 (1)		
30	WI	eL	15 46 15	LZ	30	42.0 (1)		
30	WI	eL	15 46 15	LT	38	24.0 (1)		
30	DH	eP	17 48 11.2	Z	0.5	15.0 (0)		
30	WI	eP	18 04 19.2	Z	0.8	5.4 (0)		
30	CP	eP	18 05 02.5	Z	0.5	1.2 (0)		
30	AR	eP	18 05 24.3	Z	0.6	5.8 (0)		
30	LC	eP	18 05 37.5	Z	0.5	2.1 (0)		
30	DH	eP	18 06 10.0	Z	0.5	7.4 (0)		
30	19 29 51.0		16.5 N 122.0 E				NEAR COAST LUZON, P. IS.	
			H = 040 KM					
30	MN	eS	19 55 32	LT	27	44.0 (1)	102.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	19 55 32	LT	20	93.0 (0)		
		eSS	20 02 30	LT	24	48.0 (1)		
		eL	20 12 35	LT	30	11.0 (2)		
		eLR	20 17 12	LZ	28	14.0 (2)		
		eL	20 19 10	LZ	25	12.0 (2)		
		eL	20 19 10	LR	25	11.0 (2)		
		eL	20 19 10	LT	24	60.0 (1)		
30	TF	eS	19 55 45	LR	25	65.0 (1)	102.0	
		eS	19 55 45	LT	20	12.0 (1)		
		eSS	20 02 30	LR	25	75.0 (1)		
		eLR	20 18 10	LZ	25	81.0 (1)		
		eL	20 18 52	LZ	23	86.0 (1)		
		eL	20 18 52	LR	25	55.0 (1)		
		eL	20 18 52	LT	25	14.0 (2)		
30	LC	ePKKP	19 59 35	Z	1.1	3.0 (0)	114.0	
		eL	20 23 30	LZ	26	56.0 (0)		
		eL	20 26 52	LR	23	81.0 (0)		
		eL	20 26 52	LZ	24	90.0 (0)		
30	DH	eSS	20 06 41	LR	28	78.0 (1)	119.0	
		eL	20 28 00	LZ	26	23.0 (1)		
		eL	20 38 00	LZ	24	16.0 (2)		
		eL	20 38 00	LR	22	44.0 (1)		
		eL	20 38 00	LT	23	11.0 (2)		
30	MV	eLR	20 14 58	LZ	35	59.0 (1)	99.0	
		eL	20 17 00	LZ	30	21.0 (2)		
		eL	20 17 00	LT	28	27.0 (0)		
30	WI	eLR	20 17 10	LZ	30	94.0 (1)	101.0	
		eL	20 20 42	LT	22	19.0 (2)		
		eL	20 20 42	LZ	23	22.0 (2)		
		eL	20 20 42	LR	21	70.0 (1)		
30	CP	eLR	20 19 16	LZ	30	84.0 (1)	106.0	
		eL	20 22 10	LZ	23	92.0 (1)		
		eL	20 22 10	LR	21	89.0 (1)		
		eL	20 22 10	LT	25	94.0 (1)		
30	FM	eLR	20 19 26	LZ	29	96.0 (1)	105.0	
		eL	20 31 27	LZ	18	13.0 (2)		
		eL	20 31 27	LR	20	64.0 (1)		
		eL	20 31 27	LT	16	84.0 (1)		
30	SJ	eLR	20 30 08	LZ	22	28.0 (1)	121.0	
		eL	20 37 49	LZ	20	64.0 (1)		
		eL	20 37 49	LR	23	13.0 (2)		
		eL	20 37 49	LT	23	42.0 (2)		
30	CP	eP	20 17 32.7	Z	0.7	2.6 (0)		
30	LC	eP	20 18 21.8	Z	0.9	3.7 (0)		
30	DH	eP	20 27 19.4	Z	0.5	7.4 (0)		
30	WI	eP	20 49 28.0	Z	0.6	2.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MN	eP	21 11 00.1	Z	0.4	14.0 (0)	3.1	
		eS	21 11 39	R	0.4	16.0 (0)		
30	CP	eP	21 12 36.6	Z	0.6	1.4 (0)		
30	WI	eP	21 59 48.9	Z	0.7	2.9 (0)		
30	MV	eP	22 41 17.7	Z	0.5	1.4 (0)		
30	DH	eL	23 45 08	LZ	33	46.0 (1)		
30	DH	eL	23 45 08	LR	30	31.0 (1)		
30	DH	eL	23 45 08	LT	20	11.0 (1)		

Eure

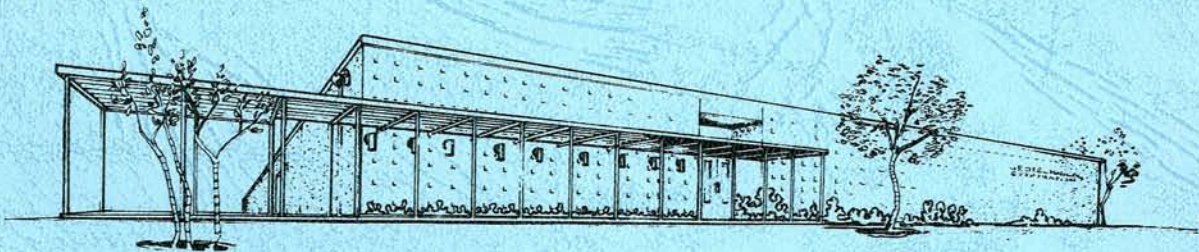


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Bulletin No. 7
July 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM FOR JULY 1962



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILON ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

Bulletin No. 7
July 1962

15 January 1963

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, the Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

- a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);
- b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;
- c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except the unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

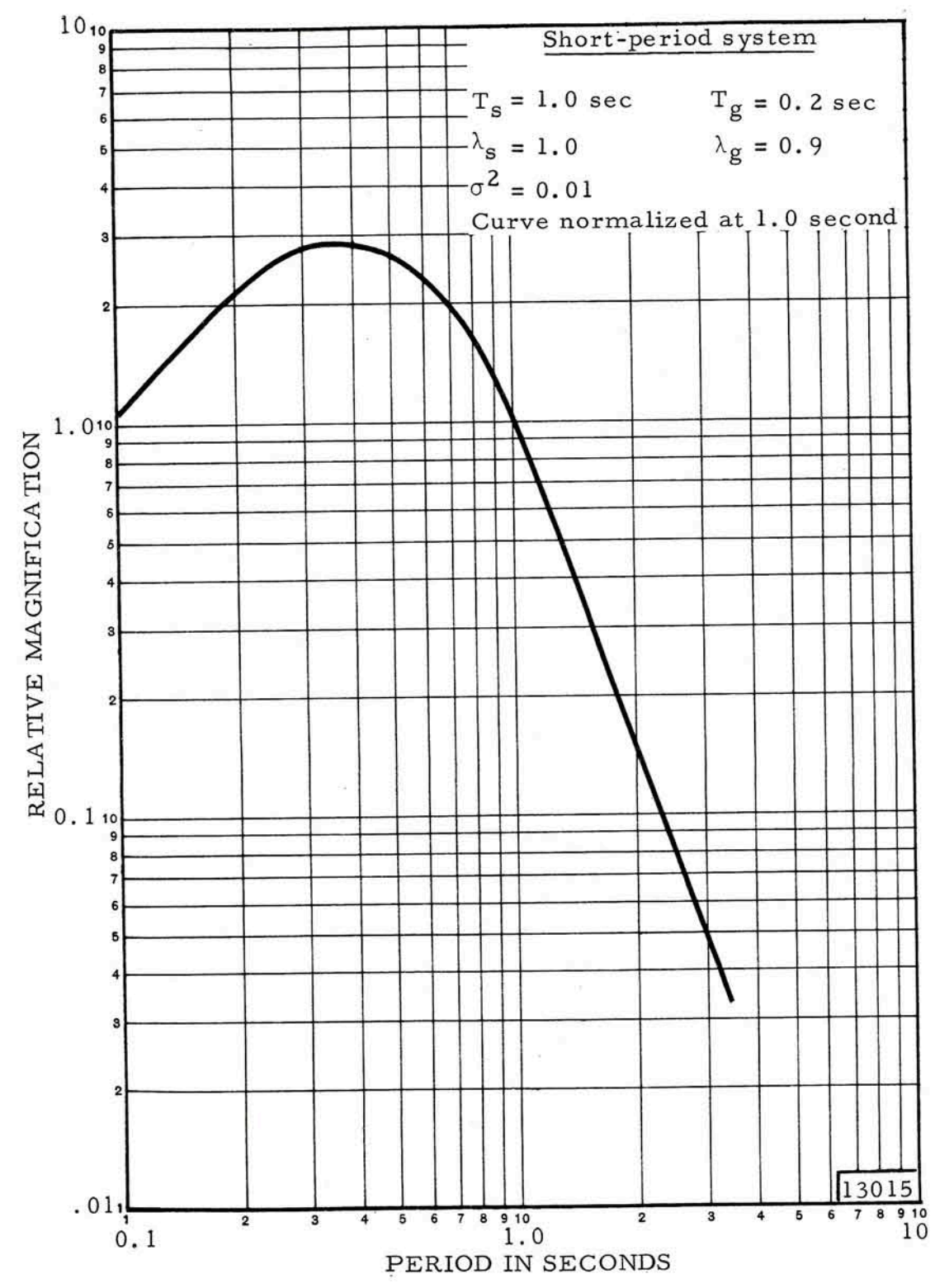


Figure 1. Frequency response of the short-period seismograph system

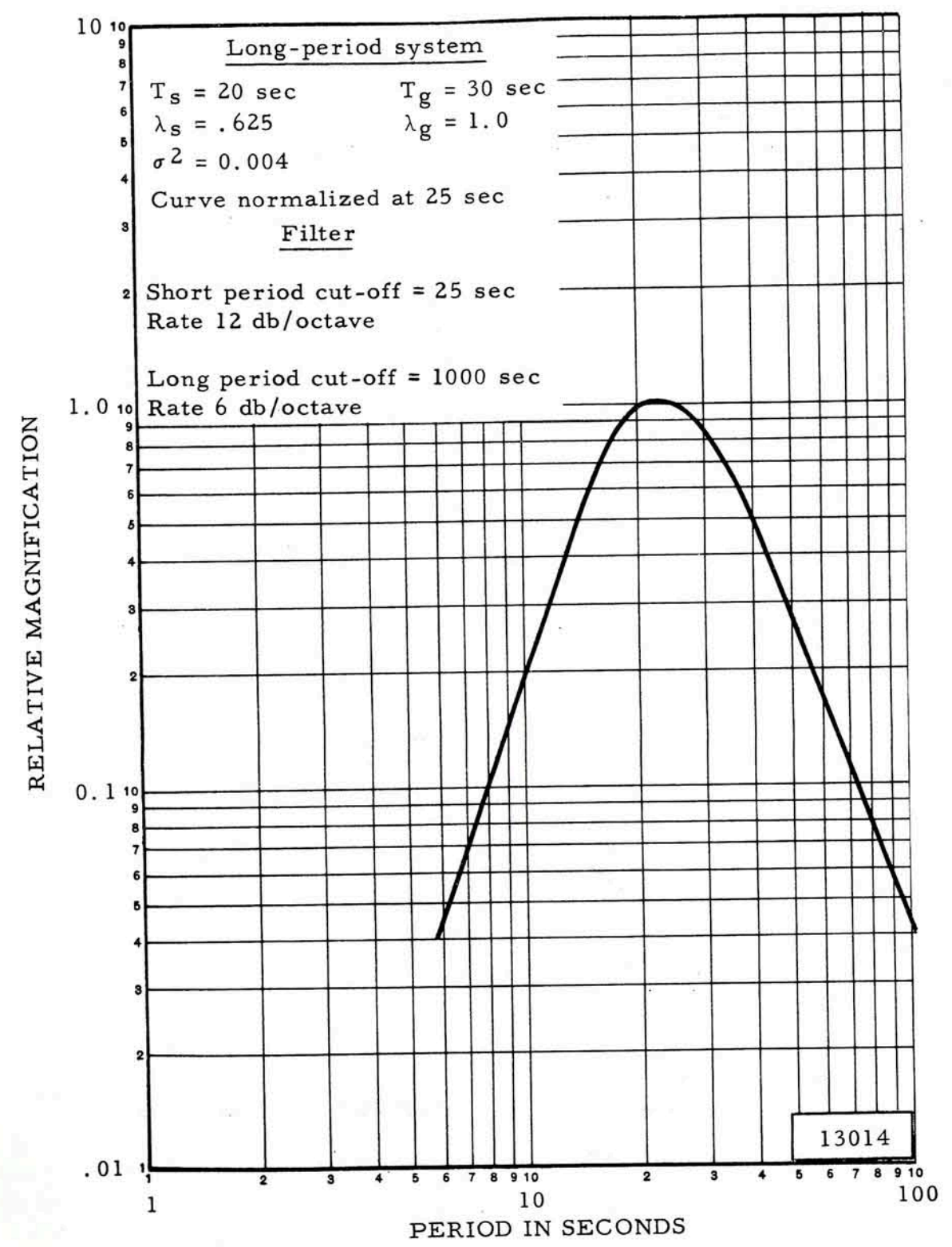


Figure 2. Frequency response of the long-period seismograph system

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
AR	Aurora, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

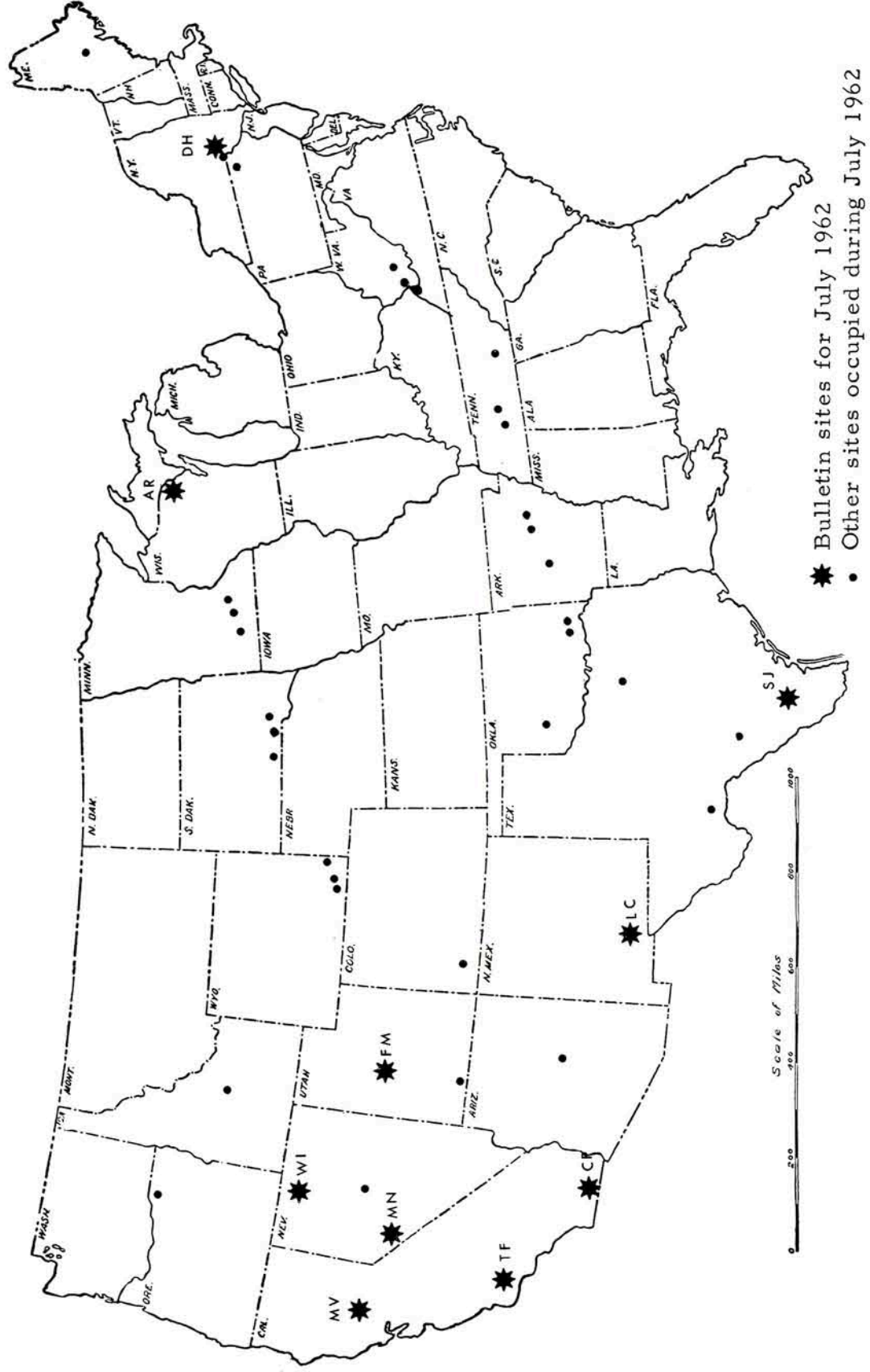
3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables.



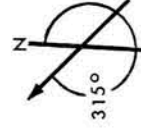
* Bulletin sites for July 1962
• Other sites occupied during July 1962

Figure 3. LRS M Program Sites

TABLE 1
LRSM SITE INFORMATION

Site Designation	Site Location	Horizontal seismometer orientation		Site Coordinates	Elevation in km	Rock Type
		Azimuth from True North in Degrees*	Transverse			
		Radial	verse	in deg, min, sec		
SJ TX	San Jose, Texas	127	217	N 27 36 43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98 18 46	1.585	Limestone
CP CL	Campo, California	182	272	N 32 24 08	1.189	Granite
MV CL	Marysville, California	295	025	W 106 35 58	0.610	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32 43 44	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116 22 16	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39 13 36	1.890	Limestone
AR WS	Aurora, Wisconsin	063	153	W 121 18 05	0.366	Gneiss
DH NY	Delhi, New York	095	185	N 41 21 02	0.652	Sandstone
TF CL	Taft, California	235	325	W 117 27 30	0.792	Sandstone
				N 38 26 10		
				W 118 08 53		
				N 39 13 06		
				W 112 12 25		
				N 45 42 48		
				W 88 08 32		
				N 42 14 39		
				W 74 53 18		
				N 35 09 49		
				W 119 58 03		

*When earth moves in direction shown, trace moves up.



P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log 10 A + B$$

where: m = Unified Magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival)

B = Log function of distance and depth.

The average magnitude ($\frac{\text{sum of station magnitudes}}{\text{number of stations}}$) is listed on the last line

of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETTIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month
Second group, origin time of the event
Third group, geographic coordinates of the epicenter
Fourth group, geographic description

Line 2 (from left to right)

First group, depth (h) of the hypocenter in kilometers
Second group, magnitude (MAG) as determined by Pasadena (PAS),
Berkeley (BRK), or Palisades (PAL)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1
DCS/Operations
Headquarters United States Air Force
Washington 25, D.C.
ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AM.			
1	LC	eP	00 25 05.3	Z	0.5	2.6	(0)		
1	MN	eP	00 26 55.5	Z	0.9	6.9	(0)		
1	LC	e	00 27 22	Z	0.9	9.8	(0)		
1	LC	eL	00 27 33	LR	18	92.0	(2)		
1	SJ	eLQ	00 28 21	LT	30	10.0	(2)		
1	SJ	e	00 28 44	R	2.0	19.0	(1)		
1	SJ	eL	00 29 20	LZ	18	63.0	(1)		
1	SJ	eL	00 29 20	LR	17	17.0	(2)		
1	SJ	eL	00 29 20	LT	15	35.0	(2)		
1	TF	eLQ	00 29 40	LR	25	82.0	(1)		
1	SJ	eLR	00 29 52	LZ	12	41.0	(2)		
1	MN	eL	00 30 08	LT	25	38.0	(1)		
1	TF	eLR	00 30 50	LZ	22	39.0	(1)		
1	TF	eL	00 30 50	LR	22	72.0	(1)		
1	TF	eL	00 30 50	LT	22	35.0	(1)		
1	FM	eL	00 31 03	LZ	17	39.0	(1)		
1	FM	eL	00 31 03	LR	17	51.0	(1)		
1	FM	eL	00 31 03	LT	16				
1	WI	eL	00 31 45	LT	30	23.0	(1)		
1	MV	eL	00 31 50	LZ	30	31.0	(1)		
1	MN	eL	00 32 30	LZ	21	13.0	(1)		
1	MN	eL	00 32 30	LR	18	30.0	(1)		
1	MN	eL	00 32 30	LT	20	29.0	(1)		
1	WI	eL	00 34 10	LZ	20	21.0	(1)		
1	WI	eL	00 34 10	LR	20	19.0	(1)		
1	WI	eL	00 34 10	LT	20	37.0	(1)		
1	01 32 11.0		14.1 S 167.2 E	NEW HEBRIDES ISLANDS					
			H =156 KM						
1	MV	eP	01 44 30.5	Z	0.8	9.1	(0)	85.0	4.64
		epP	01 45 15	Z	0.8	5.1	(0)		
1	CP	eP	01 44 36.2	Z	0.9	10.0	(0)	85.0	4.63
1	MN	eP	01 44 40.7	Z	1.0	6.8	(0)	87.0	4.52
		epP	01 45 23	Z	1.0	5.1	(0)		
1	WI	eP	01 44 49.0	Z	1.0	5.5	(0)	89.0	4.63
1	LC	eP	01 45 15.0	Z	0.8	1.5	(0)	95.0	4.36
								AVG.	4.56
1	01 56 15.6		03.8 S 150.4 E	NEW IRELAND REGION					
			H =024 KM						
1	03 37 36.2		30.1 N 102.8 E	SIKANG PROVINCE, CHINA					
			H =025 KM						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	LC	eLQ	03 39 45	LR	20	56.0 (2)		
1	SJ	eP	03 53 35.0	Z	1.5	95.0 (0)		
1	SJ	eP	03 53 35	LZ	14	42.0 (1)		
1	LC	eP	03 54 47.0	Z	1.2	28.0 (0)		
1	CP	eP	03 55 44.5	Z	1.0	5.3 (0)		
1	FM	eP	03 56 15.5	Z	1.0	21.0 (0)		
1	MN	eP	03 56 35.0	Z	1.0	14.0 (0)		
1	SJ	eLQ	03 56 47	LR	22	34.0 (2)		
1	WI	eP	03 56 51.5	Z	1.1	11.0 (0)		
1	SJ	e	03 56 59	Z	2.0	27.0 (1)		
1	AR	eP	03 57 03.1	Z	1.0	7.5 (0)		
1	SJ	eLR	03 57 45	LZ	13	47.0 (2)		
1	SJ	eL	03 57 55	LZ	20	12.0 (2)		
1	SJ	eL	03 57 55	LR	20	33.0 (2)		
1	SJ	eL	03 57 55	LT	18	23.0 (2)		
1	LC	e	03 59 46	Z	3.0	20.0 (1)		
1	TF	e	04 01 19	LT	19	13.0 (1)		
1	LC	eLR	04 01 20	LZ	15	14.0 (3)		
1	LC	eL	04 01 20	LR	15	87.0 (2)		
1	WI	e	04 02 25	LR	22	22.0 (1)		
1	TF	eLQ	04 03 10	LR	32	67.0 (1)		
1	FM	eLQ	04 03 50	LR	30	58.0 (1)		
1	MN	eLQ	04 04 05	LT	29	44.0 (1)		
1	TF	eLR	04 04 37	LZ	23	24.0 (1)		
1	TF	eL	04 04 37	LR	22	41.0 (1)		
1	WI	eLQ	04 04 55	LT	35	51.0 (1)		
1	MN	e	04 05 17	Z	3.0	12.0 (1)		
1	FM	eLR	04 06 32	LZ	14	21.0 (2)		
1	FM	eL	04 06 32	LT	15			
1	MN	eLR	04 06 40	LZ	21	26.0 (1)		
1	MN	eL	04 08 20	LZ	15	58.0 (1)		
1	MN	eL	04 08 20	LR	15	71.0 (1)		
1	MN	eL	04 08 20	LT	15	46.0 (1)		
1	WI	eLR	04 08 45	LZ	15	16.0 (2)		
1	WI	eL	04 08 45	LR	15	19.0 (2)		
1	WI	eL	04 08 45	LT	15	47.0 (1)		

1 05 07 37.0 23.8 S 176.9 W TONGA ISLANDS REGION
H =025 KM

1	CP	eP	05 19 51.2	Z	0.9	7.2 (0)	81.0	4.65
1	MV	eP	05 19 51.8	Z	1.1	4.2 (0)	81.0	4.33
1	MN	eP	05 20 03.2	Z	0.9	2.8 (0)	83.0	4.42
		eL	05 47 45	LZ	20	10.0 (1)		
		eL	05 55 00	LZ	17	17.0 (1)		
		eL	05 55 00	LT	15	16.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	WI	eP	05 20 14.5	Z	1.1	5.7 (0)	85.0	4.64
1	LC	eP	05 20 25.6	Z	0.9	7.8 (0)	88.0	4.96
						AVG.		4.60
1	WI	eP	06 55 41.5	Z	0.7	1.7 (0)		
1	WI	eL	06 57 02	R	0.9	3.8 (0)		
1	MN	eP	09 52 44.3	Z	1.0	2.5 (0)		
1	11 46 29.8		40.8 N 049.9 E			COAST AZERBAIJAN, S. S. R.		
			H =046 KM					
1	DH	eP	11 58 55.2	Z	0.7	21.0 (0)	83.0	5.28
1	13 35 05.1		15.7 S 172.6 W			TONGA ISLANDS REGION		
			H =065 KM					
1	MN	eP	13 46 35.0	Z	1.2	5.6 (0)	74.0	4.34
1	WI	eP	13 46 47.5	Z	1.1	4.3 (0)	76.0	4.35
1	LC	eP	13 47 05.1	Z	1.0	2.4 (0)	78.0	4.08
1	TF	eL	14 10 37	LZ	18	17.0 (1)	73.0	
		eL	14 13 00	LZ	18	35.0 (1)		
		eL	14 13 00	LR	18	24.0 (1)		
						AVG.		4.26
1	CP	eP	17 11 36.6	Z	0.5	65.0 (0)		
1	TF	eP	17 12 35.7	Z	0.8	3.9 (0)	4.7	
1	MN	eP	17 13 16.3	Z	0.6	1.4 (0)		
1	TF	eS	17 13 32	T	0.8	8.7 (0)	4.7	
1	MN	eL	17 14 26	T	1.0	3.4 (0)		

1 21 23 41.7 40.0 N 075.4 E SINKIANG PROVINCE, CHINA
H =025 KM

1	MN	eP	21 43 46.3	Z	0.8	1.6 (0)		
1	MV	eL	22 17 03	LZ	34	23.0 (1)		
1	MN	eL	22 25 20	LZ	23	73.0 (1)		
1	MN	eL	22 25 20	LR	20	76.0 (1)		
1	MN	eL	22 25 20	LT	20	24.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	SJ	eL	22 23 40	LT	31	11.0 (2)		
1	WI	eL	22 24 10	LR	25	77.0 (1)		
1	WI	eL	22 27 40	LZ	18	14.0 (2)		
1	WI	eL	22 27 40	LR	19	13.0 (2)		
1	WI	eL	22 27 40	LT	18	14.0 (2)		
1	SJ	eL	22 31 50	LZ	20	62.0 (1)		
1	SJ	eL	22 31 50	LT	21	18.0 (2)		
1	SJ	eL	22 31 50	LR	20	59.0 (1)		
1	FM	eP	23 49 12.6	Z	0.5	12.0 (0)		
2	MV	eP	01 04 13.6	Z	0.3	13.0 (0)	1.7	
2	WI	eP	01 04 23.2	Z	0.4	3.7 (0)	2.8	
		e	01 04 27	Z	0.5	31.0 (0)		
2	MV	eS	01 04 37	T	0.3	49.0 (0)	1.7	
2	WI	eS	01 04 58	T	0.5	22.0 (0)	2.8	
2	CP	eP	05 29 01.0	Z	0.3	45.0 (0)	1.5	
		eS	05 29 20	T	0.3	88.0 (0)		
2	CP	eP	07 16 14.1	Z	0.3	42.0 (0)	2.5	
		eS	07 16 46	T	0.3	16.0 (1)		
2	MN	eP	07 17 52.9	Z	0.5	0.9 (0)		
2	CP	eP	07 44 34.3	Z	0.3	55.0 (0)	1.5	
		eS	07 44 53	T	0.3	82.0 (0)		
2	08 32 37.9		10.3 S 165.9 E	SANTA CRUZ ISLANDS				
			H =050 KM	MAG 6.25-	BRK			
2	TF	eP	08 44 58.3	Z	1.1	69.0 (0)	83.0	5.65
		eP	08 45 00	LZ	17	19.0 (2)		
		ePP	08 48 10	LZ	13	13.0 (2)		
		eS	08 56 02	LR	26	21.0 (2)		
		eLQ	09 06 55	LT	35	26.0 (2)		
		eLR	09 10 08	LZ	43	13.0 (3)		
		eL	09 12 00	LZ	25	40.0 (2)		
		eL	09 12 00	LR	24	25.0 (2)		
		eL	09 12 00	LT	25	78.0 (1)		
2	MV	eP	08 45 00.3	Z	1.0	13.0 (1)	83.0	5.96
		eP	08 45 01	LZ	18	10.0 (2)		
		ePP	08 48 12	Z	2.1	19.0 (1)		
		ePP	08 48 13	LZ	18	29.0 (1)		
		ePS	08 56 05	LT	20	78.0 (1)		
		eLR	09 10 12	LZ	33	61.0 (2)		
		eL	09 16 20	LZ	20	13.0 (2)		
		eL	09 16 20	LT	20	93.0 (1)		
2	CP	eP	08 45 10.6	Z	1.5	17.0 (1)	86.0	5.85

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	08 45 13	LZ	17	13.0 (2)		
		ePP	08 48 23	Z	2.0	60.0 (0)		
		eS	08 55 30	LT	19	58.0 (1)		
		e	08 56 20	LT	21	16.0 (2)		
		eLR	09 11 10	LZ	35	52.0 (2)		
		eL	09 15 00	LZ	20	29.0 (2)		
		eL	09 15 00	LT	22	18.0 (2)		
		eL	09 15 00	LR	22	22.0 (1)		
2	MN	eP	08 45 11.5	Z	1.5	21.0 (1)	86.0	5.95
		eP	08 45 13	LZ	20	82.0 (1)		
		ePP	08 48 32	Z	2.5	24.0 (0)		
		ePP	08 48 35	LZ	20	29.0 (1)		
		eS	08 55 30	LR	20	50.0 (1)		
		e	08 56 15	LT	20	14.0 (2)		
		eSS	09 01 15	LT	28	66.0 (1)		
		e	09 04 48	LT	28	56.0 (1)		
		e	09 08 05	LT	29	13.0 (2)		
		eP+P1	09 11 21	Z	1.7	24.0 (0)		
		eLR	09 11 45	LZ	34	71.0 (2)		
		eL	09 13 35	LZ	23	26.0 (2)		
		eL	09 13 35	LR	23	13.0 (2)		
		eL	09 13 35	LT	24	19.0 (2)		
2	WI	eP	08 45 18.0	Z	1.0	56.0 (0)	88.0	5.70
		eP	08 45 19	LZ	19	13.0 (2)		
		ePP	08 48 41	Z	2.0	64.0 (0)		
		eSKS	08 55 40	LT	22	20.0 (2)		
		e	09 11 45	LT	33	26.0 (2)		
		eLR	09 15 33	LZ	22	13.0 (2)		
		eL	09 15 33	LT	21	73.0 (1)		
		eL	09 15 33	LR	25	58.0 (1)		
2	FM	eP	08 45 34.0	Z	1.2	69.0 (0)	91.0	5.81
		eP	08 45 36	LZ	17	74.0 (1)		
		ePP	08 49 10	LZ	20	39.0 (1)		
		eSKS	08 56 02	LR	20	43.0 (1)		
		eS	08 56 45	LR	21	11.0 (2)		
		e	09 10 00	LT	32	25.0 (2)		
		eLR	09 14 10	LZ	34	56.0 (2)		
		eL	09 16 25	LZ	25	13.0 (2)		
		eL	09 16 25	LR	25	11.0 (2)		
		eL	09 16 25	LT	25	95.0 (1)		
2	LC	eP	08 45 47.7	Z	1.3	40.0 (0)	93.0	5.64
		eP	08 45 48	LZ	19	57.0 (1)		
		ePP	08 46 14	Z	1.0	12.0 (0)		
		ePP	08 49 32	Z	2.3	20.0 (1)		
		ePP	08 49 36	LZ	19	57.0 (1)		
		eS	08 56 55	LT	21	52.0 (1)		
		ePS	08 58 20	LR	23	14.0 (2)		
		e	09 02 17	LZ	18	83.0 (1)		
		ePKKP	09 02 54	Z	1.0	6.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	09 10 43	LR	25	73.0 (1)		
		eLR	09 14 40	LZ	33	44.0 (2)		
		eL	09 18 50	LZ	21	24.0 (2)		
		eL	09 18 50	LR	22	14.0 (2)		
2	SJ	eL	09 18 50	LT	23	10.0 (2)		
		eP	08 46 19	LZ	15	11.0 (2)	100.0	
		ePP	08 50 21	LZ	10	36.0 (2)		
		eS	08 57 25	LT	21	18.0 (2)		
		e	08 59 30	LT	21	18.0 (2)		
		e	09 15 00	LT	26	26.0 (2)		
		eL	09 18 25	LT	26	19.0 (2)		
		eL	09 23 00	LZ	20	14.0 (2)		
		eL	09 23 00	LR	20	31.0 (2)		
2	DH	eL	09 23 00	LT	20	27.0 (2)		
		ePD	08 47 40	LZ	15	16.0 (1)	119.0	
		eP†	08 51 18.6	Z	0.7	10.0 (0)		
		ePP	08 52 35	LZ	18	36.0 (1)		
		e	09 02 22	LR	25	11.0 (2)		
		eLR	09 27 30	LZ	40	22.0 (2)		
		eL	09 36 40	LZ	21	24.0 (2)		
		eL	09 36 40	LR	20	19.0 (2)		
2	AR	eL	09 36 40	LT	20	30.0 (1)		
		ePP	08 51 24.5	Z	2.0	12.0 (1)	109.0	
		ePKKP	09 02 23	Z	1.0	0.7 (0)		
		e	09 02 49	Z	1.5	57.0 (0)		
						AVG.		5.79
2	LC	eP	08 59 34.1	Z	1.0	2.4 (0)		
2	LC	e	09 01 13	Z	1.0	2.4 (0)		
2	MN	eP	09 06 54.3	Z	0.4	5.6 (0)	1.0	
		eS	09 07 08	R	0.4	34.0 (0)		
2	MN	eP	11 13 44.0	Z	0.4	20.0 (0)	0.9	
		eS	11 13 56	T	0.5	34.0 (0)		
2	MV	eP	11 13 59.6	Z	0.5	18.0 (0)	1.8	
		eS	11 14 24	R	0.5	18.0 (0)		
2	15 42 22.1		00.2 S 123.1 E			CELEBES REGION		
			H =136 KM					
2	LC	eP†	16 01 07.0	Z	0.8	31.0 (0)	124.0	
2	CP	eP	16 10 05.3	Z	0.4	0.9 (0)	2.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	16 10 08	Z	0.4	4.6 (0)		
		eS	16 10 42	R	0.4	10.0 (0)		
2	LC	eP	19 17 41.3	Z	0.7	4.3 (0)		
2	WI	eP	19 19 35.3	Z	0.8	4.2 (0)		
2	CP	eP	21 58 29.3	Z	0.3	10.0 (0)	1.3	
		eS	21 58 46	T	0.3	36.0 (0)		
2	CP	eP	23 15 37.8	Z	0.4	14.0 (0)	1.4	
		eS	23 15 55	T	0.4	23.0 (0)		
3	LC	eP	02 17 37.6	Z	0.4	1.6 (0)		
3	LC	e	02 17 58	Z	0.7	2.5 (0)		
3	03 16 55.6		36.7 N 070.9 E			HINDU KUSH		
			H =200 KM					
3	LC	eP	03 59 16.1	Z	0.9	5.9 (0)		
3	06 23 36.0		17.5 S 173.2 W			TONGA ISLANDS REGION		
			H =025 KM					
3	TF	eP	06 35 06.2	Z	0.8	7.8 (0)	73.0	4.82
		eL	06 56 45	LZ	20	20.0 (1)		
		eL	06 58 55	LZ	25	20.0 (1)		
		eL	06 58 55	LT	20	21.0 (1)		
3	CP	eP	06 35 13.0	Z	1.1	7.2 (0)	74.0	4.61
3	MV	eP	06 35 16.0	Z	1.0	6.3 (0)	75.0	4.55
		eL	06 58 45	LZ	25	35.0 (1)		
3	MN	eP	06 35 24.9	Z	1.0	8.1 (0)	76.0	4.73
		eL	06 58 35	LZ	30	25.0 (1)		
3	FM	eP	06 35 39.2	Z	1.0	21.0 (0)	79.0	5.07
3	LC	eP	06 35 52.2	Z	1.0	9.7 (0)	81.0	4.74
		eL	07 01 40	LZ	22	17.0 (1)		
		eL	07 02 35	LT	25	15.0 (1)		
		eL	07 02 35	LR	20	93.0 (0)		
		eL	07 02 35	LZ	22	17.0 (1)		
3	DH	eL	07 20 00	LZ	20	11.0 (1)	107.0	
		eL	07 21 10	LT	20	20.0 (1)		
		eL	07 21 10	LZ	20	11.0 (1)		
						AVG.		4.75
3	06 31 08.5		28.0 N 056.2 E			IRAN		
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	08 34 28.5		17.2 S 170.8 W H =025 KM			TONGA ISLANDS REGION		
3	MN	eP	08 46 14.0	Z	1.0	3.2 (0)	76.0	4.33
3	LC	eP	08 46 42.1	Z	1.0	4.9 (0)	81.0	4.44
						AVG.		4.39
3	CP	eP	11 43 21.3	Z	999.9	99.9 (9)		
3	WI	eP	13 26 49.2	Z	0.5	2.0 (0)		
3	MN	eP	13 27 05.9	Z	0.5	0.9 (0)		
3	WI	eP	17 44 37.3	Z	1.2	5.5 (0)		
3	DH	eL	17 52 40	LZ	25	22.0 (1)		
3	DH	eL	17 53 05	LZ	25	11.0 (1)		
3	DH	eL	17 53 05	LT	25	29.0 (1)		
3	18 13 35.6		56.3 S 142.5 W H =025 KM			WEST OF MACQUARIE IS.		
3	CP	eP	18 26 44.8	Z	1.4	29.0 (0)	92.0	5.42
		eL	18 55 55	LZ	22	37.0 (2)		
3	TF	eP	18 26 51.8	Z	1.5	27.0 (0)	94.0	5.38
		eS	18 38 02	LT	20	51.0 (1)		
		eS	18 38 02	LR	22	20.0 (1)		
		eSS	18 44 20	LT	25	51.0 (1)		
		eL	18 53 02	LR	20	40.0 (2)		
		eL	18 53 25	LZ	20	35.0 (2)		
		eL	18 53 25	LR	20	35.0 (2)		
		eL	18 53 25	LT	20	41.0 (2)		
3	LC	eP	18 26 54.5	Z	1.2	5.9 (0)	94.0	4.82
		eS	18 38 10	LR	20	56.0 (1)		
		eS	18 38 10	LT	20	20.0 (1)		
		eSS	18 44 32	LR	25	64.0 (1)		
		eL	18 57 55	LZ	25	23.0 (2)		
		eL	19 01 00	LR	25	77.0 (2)		
		eL	19 01 00	LT	17	13.0 (2)		
		eL	19 01 00	LZ	17	24.0 (2)		
3	MN	ePP	18 31 02	Z	1.5	11.0 (0)	97.0	5.24
		eS	18 38 32	LR	22	33.0 (1)		
		eS	18 38 32	LT	20	36.0 (1)		
		ePS	18 39 58	LT	24	36.0 (1)		
		eLR	18 58 50	LZ	25	38.0 (2)		
		eL	19 00 22	LT	22	28.0 (2)		
		eL	19 00 22	LZ	21	35.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	WI	eL	19 00 22	LR	20	13.0 (2)		
		ePP	18 31 25	Z	1.5	11.0 (0)	100.0	
		eL	18 59 50	LZ	28	33.0 (2)		
		eL	19 03 25	LT	22	27.0 (2)		
		eL	19 03 25	LR	18	14.0 (2)		
		eL	19 03 25	LZ	20	20.0 (2)		
3	FM	ePS	18 39 55	LT	25	48.0 (1)	98.0	
		eSS	18 45 48	LT	22	81.0 (1)		
		eL	18 55 35	LT	38	40.0 (2)		
		eL	18 57 17	LT	20	87.0 (1)		
		eL	18 57 17	LR	15	25.0 (1)		
3	DH	ePS	18 42 50	LT	22	20.0 (1)	114.0	
		eSS	18 49 25	LT	22	49.0 (1)		
		eL	18 56 25	LT	30	13.0 (2)		
		eL	18 57 45	LT	25	78.0 (1)		
3	SJ	eL	18 58 05	LT	30	40.0 (2)	90.0	
3	MV	eL	18 58 15	LZ	25	31.0 (2)	96.0	
						AVG.		5.21
3	WI	eP	18 19 45.3	Z	0.3	5.8 (0)	0.1	
		eS	18 19 49	R	999.9	99.9 (9)		
3	18 22 06.3		54.6 S 132.3 W H =025 KM			SOUTH PACIFIC OCEAN		
3	SJ	eP	18 34 51.8	Z	1.0	38.0 (0)	87.0	5.53
3	CP	eP	18 34 55.5	Z	1.2	27.0 (0)	88.0	5.80
		eL	19 03 05	LZ	22	72.0 (2)		
		eL	19 05 32	LR	18	58.0 (2)		
		eL	19 05 32	LT	18	40.0 (2)		
		eL	19 05 32	LZ	18	85.0 (2)		
3	LC	eP	18 35 02.0	Z	1.2	12.0 (0)	89.0	4.98
		eS	18 45 55	LR	22	20.0 (2)		
		eSS	18 51 55	LR	22	18.0 (2)		
		eLR	19 04 35	LZ	22	49.0 (2)		
		eL	19 05 25	LT	22	44.0 (2)		
		eL	19 05 25	LR	22	16.0 (2)		
		eL	19 05 25	LZ	25	48.0 (2)		
3	TF	eP	18 35 05.5	Z	1.0	17.0 (0)	90.0	5.21
		eS	18 46 00	LT	22	14.0 (2)		
		eS	18 46 00	LR	27	12.0 (2)		
		ePS	18 47 15	LT	25	97.0 (1)		
		eSS	18 51 37	LT	22	27.0 (2)		
		eLR	19 03 35	LZ	20	99.9 (9)		
		eL	19 05 45	LR	20	11.0 (3)		
		eL	19 05 45	LT	19	74.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
3	MN	eP	18 35 21.3	Z	1.2	8.0 (0)	94.0	4.95	
		eS	18 46 38	LR	22	14.0 (2)			
		eS	18 46 38	LT	22	11.0 (2)			
		eSS	18 52 48	LT	25	16.0 (2)			
3	MV	eL	19 05 42	LZ	23	99.9 (9)	94.0	4.63	
		eP	18 35 23.0	Z	1.0	3.2 (0)			
3	WI	eP	18 35 34.3	Z	1.2	3.6 (0)	97.0	4.85	
		ePP	18 39 35	Z	2.0	24.0 (1)			
		eSS	18 53 40	LT	20	17.0 (2)			
		eL	19 07 17	LZ	22	71.0 (2)			
		eL	19 08 15	LR	24	67.0 (2)			
		eL	19 08 15	LT	24	37.0 (2)			
		eL	19 08 15	LZ	24	71.0 (2)			
		eS	18 46 45	LT	22	18.0 (2)			95.0
		eS	18 46 45	LR	20	15.0 (2)			
		eSS	18 53 10	LT	25	12.0 (2)			
e	19 02 32	LT	40	13.0 (3)					
eL	19 07 04	LT	25	44.0 (2)					
eL	19 08 25	LT	22	44.0 (2)					
eL	19 08 25	LZ	20	50.0 (2)					
eL	19 08 25	LT	25	28.0 (2)	108.0				
eSKS	18 47 10	LT	22	39.0 (1)					
eL	19 07 25	LR	40	53.0 (2)					
3	DH	eL	19 11 12	LR	25	21.0 (2)		AVG.	
									5.14
3	LC	eP	20 22 12.8	Z	0.3	3.2 (0)	1.1		
		eS	20 22 27	R	0.5	6.6 (0)			
3	20 59 04.8	17.8 S 167.8 E	NEW HEBRIDES ISLANDS						
		H =023 KM							
3	21 16 59.3	04.3 N 031.6 W	MID-ATLANTIC OCEAN						
		H =023 KM							
3	DH	eP	21 26 26.0	Z	1.2	50.0 (0)	54.0	5.42	
		eL	21 43 30	LZ	25	27.0 (1)			
		eL	21 44 10	LT	25	24.0 (1)			
		eL	21 44 10	LZ	25	27.0 (1)			
3	SJ	eP	21 27 56.9	Z	1.0	38.0 (0)	68.0	5.49	
3	LC	eP	21 28 42.5	Z	1.5	40.0 (0)	75.0	5.18	
		eL	21 55 30	LZ	25	25.0 (1)			
		eL	21 56 20	LR	20	23.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
3	FM	eL	21 56 20	LZ	25	25.0 (1)	80.0	4.87		
		eP	21 29 11.0	Z	0.7	11.0 (0)				
3	CP	eP	21 29 28.3	Z	1.0	11.0 (0)	84.0	4.97		
3	WI	eP	21 29 31.3	Z	1.5	44.0 (0)	85.0	5.40		
		eL	21 51 35	LR	32	50.0 (1)				
3	MN	eL	22 00 50	LZ	22	32.0 (1)	85.0	5.26		
		eL	22 00 50	LR	25	97.0 (0)				
		eL	22 00 50	LT	25	40.0 (1)				
		eP	21 29 34.5	Z	1.5	32.0 (0)				
		eL	21 58 05	LZ	35	41.0 (1)				
		eL	22 02 42	LZ	22	37.0 (1)				
3	MV	eL	22 02 42	LR	22	34.0 (1)	87.0	5.28		
		eP	21 29 46.2	Z	1.5	21.0 (0)				
		eL	22 02 04	LZ	25	35.0 (1)				
							AVG.	5.23		
3	FM	eP	21 41 37.0	Z	0.3	76.0 (0)	0.1			
		eS	21 41 39	T	0.5	99.9 (9)				
3	CP	eP	22 47 13.8	Z	0.3	13.0 (0)	0.7			
		eS	22 47 23	R	0.4	46.0 (0)				
4	WI	eP	02 01 23.4	Z	0.7	2.2 (0)	2.3			
		eP	02 26 47.4	Z	0.5	4.0 (0)				
		eS	02 27 17	R	0.5	13.0 (0)				
4	WI	eP	05 57 51.7	Z	0.5	4.0 (0)	2.2			
		eS	05 58 21	T	0.5	8.9 (0)				
4	CP	eP	05 58 44.2	Z	0.3	1.8 (0)	1.4			
		eS	05 59 01	T	0.3	14.0 (0)				
4	07 07 53.7	14.3 N 093.2 W	OFF COAST OF GUATEMALA							
		H =025 KM								
4	LC	eP	07 12 45.2	Z	0.9	3.9 (0)	22.0	3.81		
		eP	07 13 26.5	Z	1.0	6.4 (0)			26.0	4.18
		eP	07 14 40.0	Z	0.7	6.7 (0)				
						AVG.	4.25			
4	07 57 45.3	54.5 N 036.7 W	SOUTH OF GREENLAND							
		H =025 KM								
4	WI	eP	08 07 00.8	Z	0.8	5.5 (0)	53.0	4.56		
		e	08 07 42	Z	1.0	20.0 (0)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP	08 07 00.8	Z	1.0	4.8 (0)	53.0	4.41
		e	08 07 42	Z	1.1	12.0 (0)		
		eLR	08 27 10	LZ	20	14.0 (2)		
		eL	08 29 20	LZ	20	12.0 (2)		
		eL	08 29 20	LR	19	20.0 (1)		
		eL	08 29 20	LT	21	92.0 (1)		
4	MN	eP	08 07 17.3	Z	1.0	4.8 (0)	55.0	4.51
		e	08 07 58	Z	1.4	29.0 (0)		
		eLR	08 29 28	LZ	19	48.0 (1)		
		eL	08 31 26	LZ	20	40.0 (1)		
		eL	08 31 26	LR	18	23.0 (1)		
		eL	08 31 26	LT	20	36.0 (1)		
4	MV	eP	08 07 24.5	Z	1.0	3.2 (0)	56.0	4.30
		e	08 08 06	Z	1.0	6.4 (0)		
4	CP	eP	08 07 40.0	Z	1.0	5.5 (0)	58.0	4.54
		e	08 08 21	Z	1.0	5.5 (0)		
4	DH	eLR	08 13 21	LZ	20	92.0 (1)	28.0	
		eL	08 14 10	LZ	19	99.0 (1)		
		eL	08 14 10	LR	20	54.0 (1)		
		eL	08 14 10	LT	20	49.0 (1)		
4	SJ	eL	08 28 36	LR	25	59.0 (1)	50.0	
		eL	08 29 50	LR	22	70.0 (1)		
		eL	08 29 50	LT	17	11.0 (2)		
				AVG.				4.46
4	MN	eP	08 52 05.7	Z	1.0	3.2 (0)		
4	WI	eP	08 52 49.8	Z	1.2	11.0 (0)		
4	LC	eP	08 52 49.9	Z	1.0	2.4 (0)		
4	MV	eP	08 53 14.5	Z	1.0	3.2 (0)		
4	DH	eLR	08 57 10	LZ	29	46.0 (1)		
4	DH	eL	08 59 20	LZ	24	51.0 (1)		
4	DH	eL	08 59 20	LR	25	46.0 (1)		
4	DH	eL	08 59 20	LT	25	39.0 (1)		
4	SJ	eP	09 09 36.4	Z	0.8	12.0 (0)		
4	LC	eP	09 11 07.9	Z	0.9	9.8 (0)		
4	MN	eP	09 11 49.6	Z	0.8	6.1 (0)		
4	WI	eP	09 12 07.8	Z	1.0	4.4 (0)		
4	CP	eP	09 12 18.5	Z	1.0	2.8 (0)		
4	WI	eP	09 13 03.3	Z	0.7	14.0 (0)		
4	SJ	eL	09 14 25	LR	27	95.0 (1)		
4	MN	eP	09 14 35.1	Z	0.8	1.0 (0)		
4	DH	eL	09 16 33	LZ	30	36.0 (1)		
4	SJ	eL	09 16 45	LR	21	10.0 (2)		
4	SJ	eL	09 16 45	LT	15	40.0 (1)		
4	DH	eL	09 19 15	LZ	18	72.0 (1)		
4	DH	eL	09 19 15	LR	17	50.0 (1)		
4	DH	eL	09 19 15	LT	17	38.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	MN	eP	09 55 10.1	Z	1.0	1.6 (0)		
4	LC	eP	09 55 53.4	Z	1.0	2.4 (0)		
4	WI	eP	09 55 53.9	Z	1.3	9.2 (0)		
4	MV	eP	09 56 18.3	Z	1.0	3.2 (0)		
4	12 55 52.9		44.0 S 079.2 W			OFF SOUTHERN CHILE		
			H = 025 KM					
4	LC	eP	13 08 13.8	Z	1.1	3.1 (0)	82.0	4.28
4	FM	eP	16 41 48.9	Z	0.4	14.0 (0)		
4	17 00 53.5		14.9 S 167.8 E			NEW HEBRIDES ISLANDS		
			H = 062 KM					
4	MV	eP	17 13 26.3	Z	1.1	8.3 (0)	86.0	4.66
4	CP	eP	17 13 33.0	Z	1.0	2.8 (0)	87.0	4.32
4	MN	eP	17 13 34.8	Z	1.4	16.0 (0)	87.0	4.94
		eLR	17 40 34	LZ	32	32.0 (1)		
		eL	17 41 48	LR	26	25.0 (1)		
		eL	17 41 48	LT	25	18.0 (1)		
		eL	17 41 48	LZ	26	25.0 (1)		
4	WI	eP	17 13 43.9	Z	2.0	31.0 (0)	89.0	5.14
						AVG.		4.77
4	LC	eP	17 10 51.7	Z	0.9	2.0 (0)		
4	SJ	eP	19 35 50.4	Z	1.0	38.0 (0)		
4	MN	eP	19 58 59.9	Z	999.9	99.9 (9)	1.2	
		eS	19 59 15	R	0.5	26.0 (0)		
4	MV	eP	20 00 03.5	Z	0.2	14.0 (0)	1.5	
		eS	20 00 22	T	0.3	35.0 (0)		
4	23 17 38.0		28.5 S 177.5 W			KERMADEC ISLANDS		
			H = 025 KM					
5	CP	iP	02 34 55.5D	Z	0.2	13.0 (0)	0.9	
		eS	02 35 07	R	0.3	19.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	CP	eP eS	04 58 58.3 04 59 09	Z T	0.3 0.3	4.1 (0) 15.0 (0)	0.8	
5	CP	iP eS	05 07 45.5D 05 07 55	Z R	0.3 999.9	6.8 (0) 99.9 (9)	0.7	
5	CP	iP eS	05 39 54.5D 05 39 59	Z T	0.2 0.3	8.8 (0) 29.0 (0)	0.2	
5	WI	eP	05 46 57.1	Z	0.8	2.8 (0)		
5	MN	eP	05 47 14.5	Z	1.0	2.3 (0)		
5	WI	eL	06 04 47	LZ	30	22.0 (1)		
5	LC	eL	06 06 26	LZ	25	18.0 (1)		
5	MN	eL	06 07 02	LZ	30	16.0 (1)		
5	WI	eL	06 08 04	LZ	23	19.0 (1)		
5	WI	eL	06 08 04	LR	20	13.0 (1)		
5	WI	eL	06 08 04	LT	20	33.0 (1)		
5	LC	eL	06 09 19	LZ	17	79.0 (1)		
5	LC	eL	06 09 19	LR	16	26.0 (1)		
5	LC	eL	06 09 19	LT	17	66.0 (1)		
5	MN	eL	06 11 08	LZ	16	26.0 (1)		
5	MN	eL	06 11 08	LR	17	37.0 (1)		
5	MN	eP	06 45 42.0	Z	0.8	1.9 (0)		
5	WI	eP	06 45 55.8	Z	0.8	4.1 (0)		
5	LC	eP	07 11 45.1	Z	1.0	2.4 (0)		
5	WI	eP	07 11 45.5	Z	0.8	2.7 (0)		
5	MN	eP	07 12 02.8	Z	1.0	3.1 (0)		
5	MN	eL	07 30 30	LZ	30	11.0 (1)		
5	07 32 33.2		11.3 S 166.5 E H =033 KM				SANTA CRUZ ISLANDS	
5	MV	eP	07 45 02.5	Z	0.7	3.3 (0)	84.0	4.57
5	MN	eP	07 45 12.9	Z	0.8	1.9 (0)	86.0	4.21
							AVG.	4.39
5	MN	eL	07 36 03	LZ	16	20.0 (1)		
5	MN	eL	07 36 03	LR	16	27.0 (1)		
5	CP	eP	07 55 55.3	Z	0.2	11.0 (0)	1.5	
		eS	07 56 15	T	0.2	20.0 (0)		
5	10 32 28.8		00.6 S 139.0 E H =025 KM				NEW GUINEA	
5	CP	eP	11 28 26.1	Z	0.3	3.7 (0)	1.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	11 28 41	R	999.9	99.9 (9)		
5	12 09 28.5		54.9 S 156.3 E H =025 KM				MACQUARIE ISLAND REGION	
5	WI	eP	13 02 28.5	Z	0.7	1.1 (0)		
5	MN	eP	13 02 30.4	Z	0.7	2.4 (0)		
5	CP	iP eS	14 24 20.4D 14 24 25	Z T	0.3 0.3	20.0 (0) 46.0 (0)	0.2	
5	FM	eP eS	14 51 42.5 14 52 05	Z R	0.6 0.6	70.0 (0) 12.0 (1)	1.7	
5	WI	eP	15 00 23.8	Z	0.3	25.0 (0)	1.4	
		eS	15 00 41	T	999.9	99.9 (9)		
5	MN	eP	15 07 08.4	Z	0.6	1.6 (0)		
5	DH	eLQ	15 09 37	LT	22	39.0 (1)		
5	DH	eLR	15 10 23	LZ	24	61.0 (1)		
5	DH	eL	15 12 00	LZ	20	49.0 (1)		
5	DH	eL	15 12 00	LR	25	43.0 (1)		
5	DH	eL	15 12 00	LT	25	49.0 (1)		
5	CP	iP eS	15 58 32.1D 15 58 36	Z T	0.2 999.9	6.6 (0) 99.9 (9)	0.1	
5	WI	eP eS	16 00 27.8 16 00 48	Z T	0.3 999.9	10.0 (0) 99.9 (9)	1.5	
5	17 40 55.3		30.9 N 141.4 E H =023 KM				SOUTH OF HONSHU, JAPAN	
5	MN	eP	17 52 56.0	Z	0.7	3.9 (0)	78.0	4.58
		eLQ	18 14 00	LR	22	76.0 (1)		
		eLR	18 17 22	LZ	33	15.0 (2)		
		eL	18 23 00	LZ	20	26.0 (2)		
		eL	18 23 00	LR	24	18.0 (2)		
		eL	18 23 00	LT	22	22.0 (2)		
5	CP	eP	17 53 18.1	Z	0.8	3.5 (0)	83.0	4.57
							AVG.	4.58
5	CP	eS	18 25 29	R	0.3	19.0 (0)	0.2	
		eP	18 25 24.4	Z	0.3	6.3 (0)		
5	MN	eP	18 34 22.0	Z	999.9	99.9 (9)		
5	MV	eP	18 34 51.8	Z	0.3	7.5 (0)	2.1	
		eS	18 35 19	T	0.3	32.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	MV	eP	19 50 38.2	Z	0.3	3.8 (0)	1.8	
		eS	19 51 02	R	0.4	3.5 (0)		
5	CP	eP	20 32 37.5	Z	0.2	4.4 (0)	0.8	
		eS	20 32 48	T	0.2	22.0 (0)		
5	20 49 23.8		23.5 N 107.8 W				OFF COAST SINALOA, MEXICO	
			H =025 KM					
5	LC	eP	20 51 43.9	Z	1.0	4.8 (0)	10.0	4.80
		eLG	20 54 28	LR	25	11.0 (2)		
		eL	20 55 08	LR	26	41.0 (2)		
		eL	20 55 34	LZ	20	97.0 (1)		
		eL	20 55 34	LR	17	57.0 (2)		
		eL	20 55 34	LT	16	23.0 (2)		
5	CP	eP	20 52 17.9	Z	1.0	2.8 (0)	12.0	4.37
		eP	20 52 18	LZ	15	63.0 (1)		
		eL	20 56 35	LZ	23	32.0 (2)		
		eL	20 57 13	LZ	23	32.0 (2)		
		eL	20 57 13	LR	22	19.0 (2)		
		eL	20 57 13	LT	19	17.0 (2)		
5	TF	eP	20 53 02	LZ	16	57.0 (1)	15.0	
		eL	20 56 58	LR	22	70.0 (1)		
		eL	20 59 45	LZ	17	13.0 (2)		
		eL	20 59 45	LR	17	65.0 (1)		
		eL	20 59 45	LT	18	97.0 (1)		
5	FM	eL	20 57 15	LR	23	13.0 (2)	16.0	
		eL	20 58 50	LR	25	12.0 (2)		
		eL	20 58 50	LT	23	84.0 (1)		
5	MV	eL	20 59 50	LZ	32	73.0 (1)	19.0	
5	DH	eL	21 07 33	LT	20	10.0 (2)	33.0	
		eL	21 08 10	LR	20	52.0 (1)		
		eL	21 08 10	LT	20	10.0 (2)		
							AVG.	4.58
5	CP	iP	21 51 18.0D	Z	0.3	9.0 (0)	0.4	
		eS	21 51 24	T	0.3	19.0 (0)		
5	CP	eP	23 15 19.3	Z	0.3	4.6 (0)	1.5	
		eS	23 15 39	T	0.4	14.0 (0)		
6	01 15 34.8		32.6 N 139.7 E				SOUTH OF HONSHU, JAPAN	
			H =062 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	02 12 19.9		13.3 N 058.0 E				ARABIAN SEA	
			H =030 KM					
6	LC	eP	05 53 46.9	Z	0.5	2.8 (0)		
6	CP	eP	06 48 45.1	Z	0.2	23.0 (0)	0.8	
		eS	06 48 57	T	0.3	22.0 (1)		
6	09 16 15.0		38.0 N 020.2 E				IONIAN SEA	
			H =030 KM				MAG 5. - PAL	
6	DH	eP	09 27 20.6	Z	0.6	13.0 (0)	69.0	5.22
		eS	09 36 30	LR	20	12.0 (2)		
		eS	09 36 30	LT	22	11.0 (2)		
		eL	09 44 12	LT	20	86.0 (1)		
		eL	09 50 05	LZ	23	73.0 (1)		
		eL	09 56 48	LR	22	19.0 (2)		
		eL	09 56 48	LZ	21	37.0 (2)		
		eL	09 56 48	LT	19	11.0 (2)		
6	AR	eP	09 27 54.1	Z	1.2	12.0 (0)	86.0	4.84
		e	09 29 04	Z	1.6	12.0 (1)		
		eL	09 53 28	LZ	29	14.0 (2)		
		eL	09 59 53	LR	20	14.0 (2)		
		eL	09 59 53	LZ	20	21.0 (2)		
		eL	09 59 53	LT	19	86.0 (1)		
6	FM	eP	09 29 23.4	Z	0.5	9.5 (0)	92.0	5.38
		eS	09 40 25	LR	19	12.0 (1)		
		eS	09 40 25	LT	22	64.0 (1)		
		eSS	09 46 29	LT	22	64.0 (1)		
		eL	09 58 00	LT	25	80.0 (1)		
		eL	10 03 05	LZ	25	52.0 (1)		
		eL	10 10 03	LR	20	15.0 (2)		
		eL	10 10 03	LT	24	25.0 (2)		
		eL	10 10 03	LZ	20	19.0 (2)		
6	WI	eP	09 29 26.5	Z	0.5	2.5 (0)	93.0	4.87
		eS	09 40 30	LR	20	65.0 (1)		
		eS	09 40 30	LT	19	55.0 (1)		
		eSS	09 46 49	LR	22	48.0 (1)		
		e	09 48 32	LT	25	88.0 (1)		
		eL	09 54 52	LR	20	55.0 (1)		
		eLR	10 00 46	LZ	19	33.0 (1)		
		eL	10 07 08	LT	24	22.0 (2)		
		eL	10 07 08	LZ	30	10.0 (2)		
		eL	10 07 08	LR	25	22.0 (2)		
6	SJ	eP	09 29 30.9	Z	0.6	9.7 (0)	93.0	5.38
		e	09 40 50	LR	25	16.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	09 29 33.0	Z	1.0	5.7 (0)	94.0	4.89
		eS	09 40 50	LT	19	57.0 (1)		
		eS	09 40 50	LR	19	80.0 (1)		
		eSS	09 47 16	LR	22	74.0 (1)		
		eL	09 56 50	LR	30	65.0 (1)		
		eL	10 03 46	LZ	25	45.0 (1)		
		eL	10 12 53	LR	18	17.0 (2)		
		eL	10 12 53	LZ	20	16.0 (2)		
		eL	10 12 53	LT	19	16.0 (2)		
6	MV	eP	09 29 40.4	Z	0.6	2.7 (0)	96.0	4.95
		eL	09 59 42	LZ	24	30.0 (1)		
		eL	10 16 24	LT	20	15.0 (2)		
		eL	10 16 24	LZ	20	19.0 (2)		
6	TF	eP	09 29 52.6	Z	1.0	8.2 (0)	98.0	5.35
		eS	09 41 23	LT	18	44.0 (1)		
6	CP	eP	09 29 56.8	Z	0.6	2.9 (0)	99.0	5.15
		eL	10 04 58	LZ	30	24.0 (1)		
		eL	10 13 20	LT	22	19.0 (2)		
		eL	10 13 20	LZ	23	12.0 (2)		
		eL	10 13 20	LR	23	18.0 (2)		
6	MN	eS	09 40 47	LR	25	43.0 (1)	95.0	
		eS	09 40 47	LT	15	23.0 (1)		
		eSS	09 47 24	LR	23	61.0 (1)		
		eL	09 59 36	LR	34	13.0 (2)		
		eL	10 02 51	LZ	40	11.0 (2)		
		eL	10 12 30	LT	20	26.0 (2)		
		eL	10 12 30	LR	20	16.0 (2)		
		eL	10 12 30	LZ	20	29.0 (2)		
							AVG.	4.52
6	12 12 01.1		16.5 S 174.1 W				TONGA ISLANDS REGION	
			H =027 KM					
6	TF	eP	12 23 27.2	Z	0.9	10.0 (0)	72.0	4.87
6	LC	eP	12 24 13.8	Z	0.9	7.8 (0)	80.0	4.61
6	MN	eLR	12 46 25	LZ	30	11.0 (1)	69.0	
		eL	12 47 20	LT	25	22.0 (1)		
		eL	12 47 20	LZ	26	19.0 (1)		
		eL	12 47 20	LR	25	48.0 (0)		
6	TF	eS	09 41 23	LR	20	15.0 (1)	98.0	
		eSS	09 48 03	LT	25	50.0 (1)		
		eL	10 01 02	LT	39	15.0 (2)		
		eL	10 08 48	LZ	20	35.0 (1)		
		eL	10 13 00	LT	20	31.0 (2)		
		eL	10 13 00	LZ	24	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	10 13 00	LR	20	11.0 (2)		
							AVG.	4.74
6	13 27 52.1		25.0 S 176.7 W				KERMADEC ISLANDS REGION	
			H =025 KM					
6	LC	eP	13 40 42.3	Z	0.7	1.9 (0)	88.0	4.46
6	WI	eP	14 30 24.0	Z	0.3	40.0 (0)	1.4	
		eS	14 30 41	T	0.3	18.0 (0)		
6	WI	eP	15 00 27.8	Z	0.2	5.4 (0)	1.5	
		eS	15 00 48	T	0.3	37.0 (0)		
6	DH	eP	15 07 11.1	Z	0.4	17.0 (0)	1.9	
		eS	15 07 36	R	0.4	44.0 (0)		
6	15 11 21.8		30.5 N 130.8 E				NORTHERN RYUKYU ISLANDS	
			H =025 KM					
6	15 54 20.5		37.2 N 019.4 E				IONIAN SEA	
			H =025 KM					
6	CP	eP	15 57 31.4	Z	0.5	2.6 (0)		
6	LC	eP	16 54 07.5	Z	0.7	1.9 (0)		
6	LC	eP	18 14 51.0	Z	1.0	3.8 (0)		
6	DH	eP	18 19 55.7	Z	0.5	7.4 (0)		
6	18 40 59.4		60.3 N 152.1 W				KENAI PENINSULA, ALASKA	
			H =067 KM					
6	TF	eP	18 47 25.6	Z	0.9	10.0 (0)	33.0	4.68
6	AR	eP	18 48 21.9	Z	0.6	7.4 (0)	39.0	4.69
6	LC	eP	18 48 34.3	Z	0.8	6.0 (0)	41.0	4.31
							AVG.	4.56
6	DH	eP	18 42 41.4	Z	0.5	7.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	19 28 00.7	Z	0.2	1.5 (0)	0.7	
		eS	19 28 10	R	0.4	4.8 (0)		
6	SJ	eP	19 34 57.5	Z	0.6	9.7 (0)		
6	LC	eP	20 01 50.3	Z	0.2	2.3 (0)	1.5	
		eS	20 02 09	T	0.3	12.0 (0)		
6	DH	eP	21 28 59.8	Z	0.4	6.7 (0)		
6	MV	eP	22 39 16.3	Z	0.5	4.6 (0)		
6	23 05 32.2		36.6 N 070.4 E H =203 KM				HINDU KUSH	
6	DH	eP	23 18 34.4	Z	1.1	11.0 (1)	95.0	6.00
		eP	23 18 36	LZ	19	40.0 (2)		
		eSP	23 19 57	LZ	23	46.0 (2)		
		ePP	23 22 28	LZ	22	63.0 (2)		
		ePP	23 22 29	Z	1.5	27.0 (1)		
		eSPP	23 23 41	LZ	21	64.0 (2)		
		eSKS	23 28 47	T	3.0	10.0 (2)		
		eSKS	23 28 50	LT	21	99.9 (9)		
		ePKKP	23 35 23.5	Z	0.7	20.0 (0)		
6	AR	eP	23 18 36.2	Z	0.6	62.0 (0)	96.0	6.11
		epP	23 19 31	Z	0.6	65.0 (0)		
		eSKS	23 28 49	R	1.3	12.0 (1)		
		eSKS	23 28 52	LT	21	10.0 (3)		
		eSKKS	23 28 56	T	1.4	31.0 (0)		
		eS	23 29 33	R	2.5	65.0 (1)		
		eS	23 29 33	T	2.0	32.0 (0)		
		e	23 30 28	LT	27	99.9 (9)		
		ePKKP	23 35 23	Z	0.8	14.0 (0)		
		eSKKKS	23 46 12	T	1.3	25.0 (0)		
		e	23 47 54	T	1.2	54.0 (0)		
6	WI	eP	23 19 07.6	Z	2.0	19.0 (1)	102.0	6.38
		eP	23 19 09	LZ	20	20.0 (2)		
		eSP	23 20 29	LZ	23	27.0 (2)		
		ePP	23 23 16	Z	1.8	29.0 (1)		
		ePP	23 23 24	LZ	20	99.9 (9)		
		eSPP	23 24 30	LZ	20	56.0 (2)		
6	MV	eP	23 19 13.1	Z	0.7	6.3 (0)	104.0	5.65
		eP	23 19 14	LZ	22	16.0 (2)		
		e	23 20 35	LZ	24	22.0 (2)		
		ePP	23 23 24	Z	1.4	15.0 (1)		
		e	23 23 34	LZ	23	46.0 (2)		
		eSPP	23 24 21	Z	1.7	15.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	23 24 54	LZ	25	51.0 (2)		
		eSKS	23 29 32	T	2.5	50.0 (2)		
		eSKS	23 29 36	LT	21	99.9 (9)		
		e	23 31 13	R	3.0	58.0 (1)		
6	MN	ePD	23 19 20	LZ	20	16.0 (2)	105.0	
		eSP	23 20 42	LZ	23	21.0 (2)		
		ePP	23 23 45	LZ	21	66.0 (2)		
		eSKS	23 29 42	LR	999.9	99.9 (9)		
6	FM	ePD	23 19 20	LZ	19	19.0 (2)	105.0	
		e	23 20 40	LZ	21	23.0 (2)		
		ePP	23 23 43	LZ	18	59.0 (2)		
		ePP	23 23 45	Z	2.2	74.0 (1)		
		ePP	23 24 28	LZ	20	45.0 (2)		
		eSKS	23 29 40	LT	20	99.9 (9)		
		e	23 31 14	LT	20	99.9 (9)		
		ePS	23 32 36	LT	25	99.9 (9)		
6	TF	ePD	23 19 35.9	Z	2.0	88.0 (0)	107.0	6.55
		eP	23 19 34	LZ	20	17.0 (2)		
		eSP	23 20 55	LZ	21	17.0 (2)		
		ePP	23 24 04	LZ	21	54.0 (2)		
		ePP	23 24 05	Z	2.0	61.0 (1)		
		eSPP	23 25 25	LZ	23	53.0 (2)		
		eSKS	23 29 57	LR	21	39.0 (2)		
		e	23 31 34	LR	22	62.0 (2)		
		ePPS	23 34 33	LR	22	99.9 (9)		
6	LC	ePD	23 19 47.6	Z	0.9	3.1 (0)	111.0	
		ePD	23 19 50	LZ	20	13.0 (2)		
		eSP	23 21 12	LZ	22	16.0 (2)		
		ePP	23 24 20	Z	2.0	40.0 (1)		
		ePP	23 24 30	LZ	18	45.0 (2)		
		eSPP	23 25 38	LZ	18	56.0 (2)		
		eSKS	23 30 02	LT	22	62.0 (2)		
		e	23 31 12	LT	25	38.0 (2)		
		eS	23 31 46	LT	20	67.0 (2)		
		eS	23 31 46	LR	23	51.0 (2)		
		e	23 33 22	LZ	20	99.9 (9)		
6	CP	ePD	23 19 48	LZ	21	12.0 (2)	110.0	
		eSP	23 21 08	LZ	24	12.0 (2)		
		ePP	23 24 22	Z	1.5	14.0 (1)		
		ePP	23 24 26	LZ	22	35.0 (2)		
		eSKS	23 30 08	LR	23	61.0 (2)		
		e	23 31 42	LR	21	82.0 (2)		
		eSP	23 33 37	LZ	28	71.0 (2)		
		eSPP	23 34 40	LZ	20	10.0 (3)		
6	SJ	eP	23 23 52.0	Z	1.0	46.0 (0)	115.0	
		e	23 25 03	LT	18	41.0 (2)		
		eSKS	23 30 32	LT	21	41.0 (2)		

AVG. 6.14

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	WI	eP	23 06 12.4	Z	0.4	23.0 (0)		
7	03 00	22.6	30.7 N 084.4 E	TIBET				
			H = 025 KM					
7	MN	eP	06 00 52.3	Z	1.3	6.7 (0)		
7	WI	eP	06 00 58.3	Z	1.3	9.4 (0)		
7	06 12	48.9	51.3 N 178.6 E	RAT IS., ALEUTIAN IS.				
			H = 060 KM					
7	MV	eP	06 20 42.6	Z	0.8	57.0 (0)	43.0	5.35
		eP	06 20 43	LZ	15	49.0 (1)		
		eSCP	06 26 21	Z	1.4	33.0 (0)		
		eS	06 27 05	LT	20	23.0 (1)		
		eS	06 27 07	R	1.5	38.0 (0)		
		eS	06 27 07	T	1.5	26.0 (0)		
		e	06 27 25	R	2.5	30.0 (1)		
		eSCS	06 30 38	LT	30	72.0 (2)		
		eSCS	06 30 39	T	3.5	25.0 (1)		
		eLR	06 33 10	LZ	25	54.0 (2)		
		eL	06 33 10	LT	20	34.0 (2)		
7	WI	eP	06 20 51.7	Z	1.1	88.0 (0)	44.0	5.50
		eS	06 27 18	LT	22	32.0 (2)		
		eS	06 27 18	LR	20	16.0 (2)		
		eS	06 27 21	T	2.5	14.0 (1)		
		eS	06 27 21	R	2.5	18.0 (1)		
		eSCS	06 30 50	T	2.5	14.0 (1)		
		eSCS	06 30 52	LT	20	37.0 (2)		
		eLR	06 32 55	LZ	25	85.0 (2)		
		eL	06 32 55	LR	24	52.0 (2)		
		eL	06 32 55	LT	23	84.0 (2)		
7	MN	eP	06 21 02.1	Z	1.0	46.0 (0)	45.0	5.24
		eP	06 21 03	LZ	15	66.0 (1)		
		eS	06 27 44	T	2.0	11.0 (1)		
		eS	06 27 44	R	2.0	68.0 (0)		
		eS	06 27 45	LT	20	23.0 (2)		
		eS	06 27 45	LR	20	11.0 (2)		
		eSCS	06 30 57	R	2.5	5.4 (0)		
		eSCS	06 31 00	LT	20	32.0 (2)		
		eLR	06 34 17	LZ	29	51.0 (2)		
		eL	06 40 00	LZ	18	25.0 (2)		
		eL	06 40 00	LR	18	23.0 (2)		
		eL	06 40 00	LT	18	21.0 (2)		
7	TF	eP	06 21 08.5	Z	1.0	42.0 (0)	46.0	5.30

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	06 21 08	LZ	17	63.0 (1)		
		eSCP	06 26 35	Z	1.8	91.0 (0)		
		eS	06 27 52	LR	19	44.0 (2)		
		eS	06 27 52	LT	20	27.0 (2)		
		eS	06 28 06	T	2.0	14.0 (1)		
		e	06 31 30	LZ	20	37.0 (2)		
		eLR	06 33 36	LZ	24	88.0 (2)		
		eL	06 33 36	LR	24	46.0 (2)		
		eL	06 33 36	LT	24	46.0 (2)		
7	FM	eP	06 21 26.7	Z	1.6	39.0 (1)	49.0	5.13
		eP	06 21 28	LZ	15	50.0 (1)		
		eS	06 28 28	T	2.2	18.0 (1)		
		eS	06 28 28	R	2.5	26.0 (1)		
		eS	06 28 30	LR	19	29.0 (2)		
		e	06 32 08	LZ	22	26.0 (2)		
		eLR	06 35 00	LZ	23	73.0 (2)		
		eL	06 35 00	LR	20	32.0 (2)		
		eL	06 35 00	LT	23	50.0 (2)		
7	CP	eP	06 21 38.5	Z	1.0	36.0 (0)	50.0	5.26
		eSCP	06 26 51	Z	1.5	37.0 (0)		
		eS	06 28 42	R	2.0	37.0 (0)		
		eS	06 28 42	T	2.0	37.0 (0)		
		eSCS	06 31 24	R	3.0	20.0 (1)		
		e	06 31 47	R	3.0	20.0 (1)		
		eSS	06 32 23	LT	20	18.0 (3)		
		eLR	06 35 55	LZ	24	54.0 (2)		
		eL	06 35 55	LR	20	20.0 (2)		
		eL	06 35 55	LT	22	42.0 (2)		
7	LC	eP	06 22 25.3	Z	1.2	12.0 (1)	57.0	4.80
		eP	06 22 25	LZ	15	72.0 (1)		
		eS	06 30 15	T	2.5	68.0 (0)		
		eS	06 30 17	LT	20	21.0 (2)		
		eS	06 30 17	LR	20	10.0 (2)		
		eSCS	06 32 15	LT	20	10.0 (2)		
		eSS	06 34 12	LR	27	30.0 (2)		
		eL	06 37 35	LT	35	74.0 (2)		
		eLR	06 40 20	LZ	28	35.0 (2)		
		eL	06 42 10	LZ	24	32.0 (2)		
		eL	06 42 10	LR	25	44.0 (2)		
		eL	06 42 10	LT	22	13.0 (2)		
7	AR	eP ¹ P ¹	06 52 21	Z	1.5	12.0 (0)		
		eP	06 22 36.2	Z	0.9	86.0 (0)	58.0	5.78
		eP	06 22 36	LZ	17	65.0 (1)		
		eS	06 30 32	LT	30	15.0 (2)		
		eS	06 30 32	LR	20	20.0 (2)		
		eSCS	06 32 23	LR	20	14.0 (2)		
		eSCS	06 32 24	R	2.0	14.0 (1)		
		e	06 32 39	R	2.5	21.0 (1)		
		eLQ	06 38 50	LR	40	50.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	06 42 35	LZ	30	37.0 (2)		
		eL	06 46 30	LZ	20	89.0 (2)		
		eL	06 46 30	LR	20	29.0 (2)		
		eL	06 46 30	LT	20	66.0 (2)		
7	SJ	eP ⁱ P ⁱ	06 52 20	Z	1.5	42.0 (0)		
		eP	06 23 24.2	Z	1.2	30.0 (1)	65.0	5.22
		eP	06 23 25	LZ	15	11.0 (2)		
		eS	06 32 05	T	2.0	15.0 (1)		
		eS	06 32 05	LT	20	38.0 (2)		
		eS	06 32 05	R	2.0	15.0 (1)		
		eS	06 32 05	LR	20	24.0 (2)		
		eSCS	06 33 25	LT	22	25.0 (2)		
		eSS	06 36 20	LT	20	20.0 (2)		
		e	06 37 04	LR	22	21.0 (2)		
		eLQ	06 40 00	LT	32	86.0 (2)		
		eLR	06 44 45	LZ	25	41.0 (2)		
		eL	06 50 30	LZ	20	41.0 (2)		
		eL	06 50 30	LR	20	92.0 (2)		
7	DH	eL	06 50 30	LT	18	66.0 (2)		
		eP	06 23 36.3	Z	1.0	50.0 (0)	67.0	5.52
		eP	06 23 38	LZ	20	61.0 (1)		
		eS	06 32 28	LR	20	12.0 (2)		
		eS	06 32 28	LT	25	96.0 (1)		
		eLQ	06 42 30	LR	40	63.0 (2)		
		eLR	06 45 57	LZ	25	17.0 (2)		
		eL	06 50 00	LZ	25	60.0 (2)		
		eL	06 50 00	LR	25	66.0 (2)		
		eL	06 50 00	LT	23	44.0 (2)		
		eP ⁱ P ⁱ	06 52 13	Z	1.5	13.0 (1)		
							AVG.	5.31
7	MN	eP	06 52 10.0	Z	1.5	13.0 (0)		
7	LC	eP	07 00 54.5	Z	0.7	1.8 (0)		
7	MN	eP	07 02 33.0	Z	1.0	3.2 (0)		
7	MV	eP	07 08 06.5	Z	0.8	2.0 (0)		
7	MN	eP	07 08 23.0	Z	0.9	2.6 (0)		
7	LC	eP	07 09 47.0	Z	1.0	3.6 (0)		
7	07 14 34.6		51.3 N 178.8 E H =060 KM				RAT=ALEUTIAN ISLANDS	
7	MV	eP	07 22 29.8	Z	0.9	6.6 (0)	43.0	4.37
7	MN	eP	07 22 48.4	Z	1.0	8.0 (0)	45.0	4.48
7	WI	eP	07 22 48.6	Z	0.9	16.0 (0)	45.0	4.83
7	TF	eP	07 23 06.3	Z	1.0	13.0 (0)	48.0	4.84

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	CP	eP	07 23 26.5	Z	1.0	2.8 (0)	50.0	4.15
7	LC	eP	07 24 12.5	Z	0.8	8.5 (0)	57.0	4.83
7	AR	eP	07 24 22.2	Z	0.7	7.6 (0)	58.0	4.84
							AVG.	4.62
7	MV	eP	08 18 32.0	Z	0.4	3.8 (0)		
7	MV	eL	08 19 43	T	0.5	12.0 (0)		
7	WI	eP	10 27 48.5	Z	0.9	7.9 (0)		
7	MN	eP	10 27 52.2	Z	0.7	3.2 (0)		
7	LC	eP	10 29 16.3	Z	0.9	6.0 (0)		
7	11 47 19.4		07.3 S 128.3 E H =030 KM				BANDA SEA	
7	LC	eP ⁱ	12 06 16.0	Z	1.0	4.8 (0)	123.0	
		ePKKP	12 16 07	Z	1.0	4.8 (0)		
7	12 46 58.7		38.6 N 018.5 E H =025 KM				IONIAN SEA	
7	19 04 16.7		11.3 S 164.8 E H =025 KM				SANTA CRUZ ISLANDS	
7	LC	eP	20 55 41.7	Z	0.3	25.0 (0)	1.4	
		eS	20 55 59	T	0.4	11.0 (1)		
7	21 20 57.7		51.9 N 158.6 E H =033 KM				SOUTH OF KAMCHATKA	
7	MV	eP	21 30 26.7	Z	0.8	4.1 (0)	55.0	4.51
7	WI	eP	21 30 34.0	Z	0.9	9.1 (0)	56.0	4.80
7	MN	eP	21 30 44.7	Z	0.9	5.2 (0)	58.0	4.56
7	TF	eP	21 30 53.0	Z	0.9	6.8 (0)	59.0	4.68
7	FM	eP	21 31 04.5	Z	0.5	7.5 (0)	61.0	5.04
7	LC	eP	21 31 57.3	Z	0.8	2.3 (0)	69.0	4.33
7	DH	eP	21 32 40.2	Z	0.7	20.0 (0)	76.0	5.26
							AVG.	4.86
7	FM	eP	23 58 22.4	Z	0.4	2.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	02 25	55.8	14.4 S 075.5 W H =088 KM				NEAR SOUTH COAST OF PERU	
8	03 22	03.8	51.5 N 178.5 E H =060 KM				RAT IS., ALEUTIAN IS.	
8	04 03	56.8	55.5 S 030.1 W H =025 KM				SANDWICH ISLANDS	
8	05 29	12.0	02.6 S 078.0 W H =021 KM				ECUADOR	
8	LC	eP	05 37 23.4	Z	0.7	1.2 (0)	45.0	4.29
8	07 30	49.7	08.1 N 038.0 W H =025 KM				MID-ATLANTIC OCEAN	
8	AR	eP	07 40 35.1	Z	0.9	22.0 (0)	57.0	5.19
		eLR	07 57 00	LZ	28	45.0 (1)		
		eL	07 59 00	LZ	27	43.0 (1)		
		eL	07 59 00	LT	27	46.0 (1)		
8	LC	eP	07 41 46.6	Z	1.0	4.9 (0)	68.0	4.59
		eLR	08 04 47	LZ	28	50.0 (1)		
		eL	08 09 00	LZ	20	73.0 (1)		
		eL	08 09 00	LR	21	74.0 (1)		
		eL	08 09 00	LT	21	20.0 (1)		
8	CP	eP	07 42 37.1	Z	1.1	11.0 (0)	76.0	4.82
8	WI	eP	07 42 41.6	Z	1.3	32.0 (0)	77.0	5.22
		eLR	08 07 50	LZ	30	95.0 (1)		
		eL	08 12 50	LZ	22	12.0 (2)		
		eL	08 12 50	LR	20	33.0 (1)		
		eL	08 12 50	LT	21	95.0 (1)		
8	MN	eP	07 42 45.1	Z	1.0	3.2 (0)	78.0	4.33
8	MV	eP	07 42 58.0	Z	1.1	8.7 (0)	80.0	4.57
		eLR	08 08 56	LZ	41	12.0 (2)		
8	DH	eS	07 46 15	LR	19	29.0 (1)	47.0	
		eS	07 46 15	LT	20	38.0 (1)		
		eL	07 52 30	LZ	25	40.0 (1)		
		eL	07 54 00	LZ	21	32.0 (1)		
		eL	07 54 00	LR	23	27.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	SJ	eL	07 54 00	LT	16	35.0 (1)		
8	FM	eL	08 00 35	LR	25	88.0 (1)	59.0	
8		eL	08 05 25	LZ	34	60.0 (1)	73.0	
		eL	08 10 50	LZ	21	73.0 (1)		
		eL	08 10 50	LR	21	44.0 (1)		
		eL	08 10 50	LT	22	63.0 (1)		
							AVG.	4.78
8	WI	eP	09 14 13.8	Z	1.2	3.6 (0)		
8	12 02	33.2	22.0 S 179.8 W H =600 KM				FIJI ISLANDS	
8	CP	eP	12 13 49.0	Z	1.0	8.6 (0)	81.0	4.13
8	MV	eP	12 13 51.7	Z	0.9	5.4 (0)	82.0	4.08
8	MN	eP	12 13 59.6	Z	0.9	5.1 (0)	83.0	4.05
		epP	12 16 05	Z	1.8	17.0 (0)		
8	LC	eP	12 14 24.2	Z	0.8	4.6 (0)	89.0	4.36
							AVG.	4.15
8	SJ	eP	13 02 39.5	Z	1.0	20.0 (0)		
8	LC	eP	13 03 52.0	Z	1.0	9.7 (0)		
8	LC	eP	13 03 57	LZ	18	21.0 (1)		
8	CP	eP	13 04 49.6	Z	0.8	3.6 (0)		
8	SJ	eLQ	13 05 08	LR	31	29.0 (2)		
8	WI	eP	13 05 56.0	Z	1.0	6.7 (0)		
8	MN	eP	13 05 38.9	Z	1.0	7.9 (0)		
8	SJ	eL	13 06 09	R	3.2			
8	SJ	eL	13 07 03	LZ	22	16.0 (2)		
8	SJ	eL	13 07 03	LR	22	41.0 (2)		
8	SJ	eL	13 07 03	LT	18	10.0 (2)		
8	SJ	eLR	13 07 23	LZ	13	13.0 (2)		
8	LC	eL	13 08 50	Z	3.5			
8	LC	eLQ	13 08 56	LR	18	24.0 (2)		
8	LC	eL	13 09 23	LR	18	24.0 (2)		
8	LC	eL	13 09 23	LT	18	19.0 (2)		
8	FM	e	13 10 02	LT	18	25.0 (1)		
8	LC	eLR	13 10 22	LZ	13	59.0 (2)		
8	WI	e	13 11 25	LR	21	26.0 (1)		
8	FM	eLQ	13 12 40	LR	22	17.0 (2)		
8	WI	eLQ	13 13 55	LT	20	95.0 (1)		
8	FM	eLR	13 14 33	LZ	13	40.0 (2)		
8	WI	eLR	13 17 21	LZ	16	18.0 (2)		
8	WI	eL	13 18 20	LZ	16	18.0 (2)		
8	WI	eL	13 18 20	LR	15	24.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	WI	eL	13 18 20	LT	16	10.0 (2)		
8	FM	eL	13 18 42	LZ	20	31.0 (1)		
8	FM	eL	13 18 42	LR	22	17.0 (2)		
8	FM	eL	13 18 42	LT	22	76.0 (1)		
8	MN	eP	14 08 36.8	Z	0.8	2.0 (0)		
8	MN	eP	15 58 52.3	Z	999.9	99.9 (9)		
8	FM	eP	15 59 02.7	Z	0.3	54.0 (0)	3.1	
8	WI	eP	15 59 15.4	Z	0.5	18.0 (0)		
8	WI	e	15 59 24	Z	0.5	35.0 (0)		
8	MV	eP	15 59 26.2	Z	0.5	2.5 (0)		
8	CP	eP	15 59 30.5	Z	0.5	2.1 (0)		
8	FM	eS	15 59 42	R	0.5	22.0 (1)	3.1	
8	MV	e	15 59 43	Z	0.6	8.5 (0)		
8	CP	e	15 59 49	Z	0.6	13.0 (0)		
8	MV	eL	16 00 48	T	0.7	10.0 (1)		
8	CP	eL	16 00 52	T	0.6	26.0 (0)		
8	LC	eP	16 00 53.8	Z	1.0	12.0 (0)		
8	LC	eL	16 02 49	R	1.0	7.5 (0)		
8	17 20 01.2		00.3 N 121.8 E H = 058 KM				CELEBES	
8	WI	eP	17 49 08.5	Z	0.5	9.0 (0)	4.8	
		e	17 49 13	Z	0.6	36.0 (0)		
		eS	17 50 06	R	0.6	68.0 (0)		
8	WI	eP	18 01 01.6	Z	1.0	6.7 (0)		
8	LC	eP	20 44 36.0	Z	0.3	12.0 (0)	1.5	
		eS	20 44 55	R	0.3	13.0 (0)		
8	22 54 44.7		28.1 S 176.5 W H = 025 KM				KERMADEC ISLANDS REGION	
8	CP	eP	23 07 17.0	Z	1.0	5.8 (0)	85.0	4.69
8	MV	eP	23 07 19.3	Z	0.8	4.2 (0)	85.0	4.64
8	WI	eP	23 07 37.0	Z	0.7	3.4 (0)	89.0	4.66
8	LC	eP	23 07 43.3	Z	1.0	2.4 (0)	90.0	4.36
							AVG.	4.58
8	LC	eP	23 06 12.0	Z	0.9	2.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	23 21 51.5		54.0 N 160.5 E H = 022 KM				NEAR KAMCHATKA COAST	
9	SJ	eP	00 06 09.4	Z	0.7	31.0 (0)		
9	LC	eP	01 43 33.6	Z	0.7	2.4 (0)		
9	LC	eP	02 48 25.2	Z	0.9	3.0 (0)		
9	WI	eP	07 03 40.7	Z	0.7	21.0 (0)		
9	MN	eP	07 04 16.7	Z	0.7	0.8 (0)		
9	MN	e	07 04 35	Z	0.7	2.8 (0)		
9	WI	eL	07 05 00	R	0.7	44.0 (0)		
9	MN	eL	07 06 25	R	1.0	5.8 (0)		
9	09 59 07.8		56.0 S 158.1 E H = 025 KM				MACQUARIE ISLANDS REGION	
9	CP	eP	11 40 05.2	Z	0.8			
9	MV	eP	11 40 05.6	Z	0.8	3.2 (0)		
9	MN	eP	11 40 13.5	Z	0.7	2.4 (0)		
9	WI	eP	11 40 24.7	Z	0.7	2.8 (0)		
9	LC	eP	11 40 41.8	Z	1.0	4.8 (0)		
9	13 53 00.0		44.0 N 147.8 E H = 066 KM				KURILE ISLANDS	
9	MN	eP	14 03 49.1	Z	1.0	3.2 (0)	67.0	4.31
9	FM	eL	15 10 15	LZ	20	31.0 (1)		
9	FM	eL	15 10 15	LR	20	11.0 (1)		
9	FM	eL	15 10 15	LT	20	11.0 (1)		
9	MV	eL	15 12 00	LZ	25	16.0 (1)		
9	MV	eL	15 12 00	LT	23	16.0 (1)		
9	MN	eLR	15 17 04	LZ	23	26.0 (1)		
9	MN	eL	15 17 04	LR	24	14.0 (1)		
9	MN	eL	15 17 04	LT	23	13.0 (1)		
10	04 21 12.0		39.1 S 075.4 W H = 025 KM				COAST OF CENTRAL CHILE	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
10	05 12	06.4	20.8 S 178.7 W H = 584 KM	FIJI ISLANDS				AVG.	4.01
10	TF	eP	05 23 11.0	Z	1.5	33.0 (0)	79.0	4.54	
10	MV	eP	05 23 18.5	Z	0.7	12.0 (0)	80.0	4.54	
10	MN	eP	05 23 26.5	Z	0.8	14.0 (0)	82.0	4.54	
		epP	05 25 39	Z	1.2	5.9 (0)			
10	WI	eP	05 23 37.0	Z	1.0	17.0 (0)	84.0	4.63	
10	LC	eP	05 23 52.0	Z	1.5	40.0 (0)	87.0	4.91	
		epP	05 26 05	Z	1.0	3.6 (0)			
							AVG.	4.63	
10	CP	eP	06 27 19.8	Z	0.4	9.2 (0)			
10	WI	eP	09 40 33.7	Z	0.7	1.1 (0)			
10	MN	eP	09 40 42.4	Z	0.7	0.8 (0)			
10	10 06	02.9	38.4 N 025.9 E H = 025 KM	AEGEAN SEA					
10	WI	eP	10 19 21.5	Z	1.0	4.4 (0)	94.0	4.77	
		eL	10 53 15	LT	30	15.0 (1)			
		eL	10 55 35	LT	24	26.0 (1)			
		eL	10 55 35	LR	25	16.0 (1)			
10	MN	eP	10 19 33.7	Z	0.7	1.3 (0)	97.0	4.64	
		eL	10 52 32	LR	30	17.0 (1)			
		eL	10 57 32	LR	20	24.0 (1)			
10	MV	eL	11 03 05	LZ	18	11.0 (1)	89.0		
10	TF	eL	11 08 00	LZ	22	15.0 (1)	101.0		
		eL	11 09 35	LZ	20	20.0 (1)			
		eL	11 09 35	LR	20	22.0 (1)			
							AVG.	4.70	
10	AR	eL	10 35 00	LZ	20				
10	12 56	03.8	22.3 S 177.2 W H = 333 KM	TONGA ISLANDS					
10	MN	eP	13 07 48.4	Z	1.0	1.8 (0)	82.0	3.82	
10	WI	eP	13 08 00.2	Z	0.7	2.2 (0)	84.0	4.06	
10	LC	eP	13 08 12.8	Z	0.8	3.0 (0)	86.0	4.17	
		e	13 09 05	Z	1.0	4.8 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
							AVG.	4.01	
10	LC	eP	16 42 51.0	Z	2.0	4.9 (0)			
10	AR	eL	16 55 05	LZ	25				
10	MN	eL	16 56 37	LZ	22	20.0 (1)			
10	MN	eL	16 57 10	LZ	25	22.0 (1)			
10	MN	eL	16 57 10	LR	25	23.0 (1)			
10	FM	eL	16 59 38	LT	25	21.0 (1)			
10	LC	eL	16 59 40	LZ	22	27.0 (1)			
10	LC	eL	17 00 50	LZ	20	27.0 (1)			
10	LC	eL	17 00 50	LR	20	14.0 (1)			
10	LC	eL	17 00 50	LT	22	21.0 (1)			
10	CP	eP	17 49 57.2	Z	0.3	2.7 (0)	3.0		
		eS	17 50 35	T	0.4	16.0 (0)			
10	19 21	36.9	06.5 S 075.2 W H = 046 KM	CENTRAL PERU					
10	LC	eP	19 30 21.0	Z	0.7	2.5 (0)	49.0	4.31	
11	01 03	59.3	31.8 N 066.9 E H = 025 KM	AFGHANISTAN					
11	MN	eP	06 07 51.9	Z	999.9	99.9 (9)			
11	WI	eP	06 07 57.1	Z	999.9	99.9 (9)			
11	LC	eP	07 01 50.8	Z	1.0	2.3 (0)			
11	07 17	27.4	53.2 N 159.6 E H = 069 KM	KAMCHATKA					
11	MV	eP	07 26 44.6	Z	0.6	1.4 (0)	54.0	4.17	
11	WI	eP	07 26 50.1	Z	1.0	13.0 (0)	55.0	4.91	
11	MN	eP	07 27 01.5	Z	0.9	5.0 (0)	56.0	4.54	
11	FM	eP	07 27 21.8	Z	0.6	4.3 (0)	59.0	4.59	
11	AR	eP	07 28 06.6	Z	0.7	12.0 (0)	66.0	5.03	
11	LC	eP	07 28 14.5	Z	0.6	2.4 (0)	67.0	4.40	
							AVG.	4.61	
11	WI	eP	11 45 45.5	Z	0.8	2.8 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	CP	eP	11 59 47.8	Z	0.3	2.4 (0)	1.6	
11	CP	eS	12 00 09	T	999.9	99.9 (9)	1.6	
11	12 40 30.7		11.9 N 122.1 E H =025 KM				PANAY, PHILIPPINE ISLANDS	
11	MV	eP	12 54 26.3	Z	1.0	3.2 (0)	102.0	4.93
		eL	13 26 08	LZ	32	63.0 (1)		
		eL	13 36 20	LZ	18	86.0 (1)		
		eL	13 36 20	LT	21	57.0 (1)		
11	WI	eP	12 54 33.4	Z	1.2	3.6 (0)	104.0	5.10
		ePKKP	13 10 47	Z	1.3	4.6 (0)		
11	LC	ePKKP	13 09 49	Z	1.0	2.3 (0)	115.0	
11	CP	eL	13 25 10	LR	27	56.0 (2)	108.0	
		eL	13 32 32	LZ	28	26.0 (2)		
		eL	13 33 31	LZ	22	47.0 (2)		
		eL	13 33 31	LR	21	27.0 (2)		
		eL	13 33 31	LT	21	24.0 (2)		
11	FM	eL	13 26 12	LR	35	24.0 (2)	108.0	
		eL	13 32 00	LZ	25	41.0 (1)		
		eL	13 36 05	LZ	23	67.0 (1)		
		eL	13 36 05	LR	25	27.0 (1)		
		eL	13 36 05	LT	22	64.0 (1)		
11	MN	eL	13 31 19	LZ	22	52.0 (1)	104.0	
		eL	13 38 19	LR	18	99.0 (1)		
		eL	13 38 19	LT	18	57.0 (1)		
		eL	13 38 19	LZ	19	12.0 (2)		
11	AR	eL	13 42 30	LZ	30	35.0 (1)	117.0	
		eL	13 45 20	LZ	29	97.0 (1)		
		eL	13 45 20	LR	20	37.0 (1)		
		eL	13 45 20	LT	28	11.0 (2)		
							AVG.	5.02
11	MN	eP	13 58 04.3	Z	1.5	14.0 (0)		
11	13 58 24.5		06.5 N 073.2 W H =115 KM				COLOMBIA	
11	LC	eP	14 05 54.4	Z	0.9	21.0 (0)	40.0	4.92
11	AR	eP	14 05 58.4	Z	0.5	15.0 (0)	41.0	5.03
11	MN	eP	14 07 21.3	Z	0.6	1.5 (0)	52.0	4.11
11	WI	eP	14 07 27.4	Z	0.5	2.9 (0)	52.0	4.49
							AVG.	4.64

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	LC	eP	13 59 19.0	Z	1.5	7.7 (0)		
11	MN	e	15 54 04	LT	23	32.0 (1)		
11	MV	eL	15 59 45	LZ	27	19.0 (1)		
11	WI	eP	16 00 23.9	Z	999.9	99.9 (9)		
11	MN	eL	16 00 34	LZ	30	49.0 (1)		
11	MV	eL	16 00 36	LZ	27	90.0 (1)		
11	MV	eL	16 00 36	LT	27	72.0 (1)		
11	WI	eL	16 01 57	LZ	32	91.0 (1)		
11	MN	eL	16 01 19	LZ	28	11.0 (2)		
11	MN	eL	16 01 19	LR	29	39.0 (1)		
11	MN	eL	16 01 19	LT	25	87.0 (1)		
11	WI	eL	16 02 57	LZ	25	54.0 (1)		
11	WI	eL	16 02 57	LR	25	23.0 (1)		
11	WI	eL	16 02 57	LT	25	47.0 (1)		
11	LC	eL	16 03 05	LZ	30	37.0 (1)		
11	FM	eL	16 03 15	LZ	40	11.0 (2)		
11	FM	eL	16 03 44	LZ	27	60.0 (1)		
11	FM	eL	16 03 44	LR	28	60.0 (1)		
11	FM	eL	16 03 44	LT	22	11.0 (1)		
11	LC	eL	16 05 00	LZ	23	11.0 (2)		
11	LC	eL	16 05 00	LR	22	46.0 (1)		
11	LC	eL	16 05 00	LT	22	53.0 (1)		
11	SJ	eL	16 07 21	LZ	25	75.0 (1)		
11	SJ	eL	16 08 58	LZ	19	93.0 (1)		
11	SJ	eL	16 08 58	LR	21	13.0 (2)		
11	SJ	eL	16 08 58	LT	20	21.0 (2)		
11	AR	eL	16 13 30	LZ	35	47.0 (1)		
11	AR	eL	16 15 40	LZ	26	72.0 (1)		
11	AR	eL	16 15 40	LR	23	27.0 (1)		
11	16 52 44.8		31.9 S 178.5 W H =037 KM				KERMADEC ISLANDS REGION	
11	CP	eP	17 05 28.2	Z	0.9	4.7 (0)	87.0	4.64
11	CP	eP	17 00 00.6	Z	999.9	99.9 (9)		
11	CP	eP	17 03 44.7	Z	999.9	99.9 (9)		
11	WI	eP	18 30 35.0	Z	999.9	99.9 (9)		
11	WI	eP	18 52 49.2	Z	0.7	1.7 (0)		
11	LC	eP	19 37 52.6	Z	0.2	12.0 (0)	1.5	
		eS	19 38 12	T	0.3	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	LC	eP	20 33 02.7	Z	0.6	2.0 (0)		
11	MV	eP	20 33 21.9	Z	0.3	11.0 (0)	1.8	
		eS	20 33 46	R	0.4	4.8 (0)		
11	MV	eP	22 30 46.2	Z	0.5	1.2 (0)		
12	01 40 37.9		19.9 S 177.5 W				TONGA ISLANDS REGION	
			H =321 KM					
12	WI	eP	07 01 01.6	Z	1.0	4.4 (0)		
12	MN	eP	07 01 14.9	Z	0.6	2.6 (0)		
12	LC	eP	07 02 45.1	Z	1.0	2.4 (0)		
12	08 16 42.0		18.9 N 121.4 E				LUZON, PHILIPPINE ISLANDS	
			H =095 KM					
12	MN	eP	09 22 12.4	Z	0.2	6.2 (0)	1.1	
		eS	09 22 26	R	999.9	99.9 (9)		
12	WI	eP	09 22 30.4	Z	0.5	4.9 (0)	2.1	
		eS	09 22 58	R	0.5	20.0 (0)		
12	09 33 21.8		17.9 S 178.7 W				FIJI ISLANDS REGION	
			H =545 KM					
12	MV	eP	09 44 25.5	Z	1.0	14.0 (0)	78.0	4.35
12	CP	eP	09 44 26.0	Z	1.0	12.0 (0)	78.0	4.91
12	MN	eP	09 44 34.0	Z	0.9	14.0 (0)	80.0	4.39
		epP	09 46 35	Z	2.3	33.0 (0)		
12	WI	eP	09 44 45.0	Z	1.0	20.0 (0)	82.0	4.60
12	LC	eP	09 45 02.9	Z	1.0	9.7 (0)	85.0	4.39
							AVG.	4.53
12	CP	eP	11 30 59.9	Z	0.2	7.0 (0)	0.7	
		eS	11 31 10	T	0.2	28.0 (0)		
12	WI	eP	16 00 14.9	Z	0.3	4.3 (0)	2.3	
		eS	16 00 45	T	0.5	18.0 (0)		
12	LC	eP	17 38 03.8	Z	0.2	1.9 (0)	1.5	
		eS	17 38 23	R	0.3	5.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	CP	eP	20 33 04.8	Z	999.9	99.9 (9)		
12	LC	eP	20 34 34.3	Z	0.5	1.8 (0)		
12	WI	eP	20 35 40.6	Z	0.6	3.7 (0)		
12	LC	eL	20 36 33	R	0.6	3.6 (0)		
12	WI	eL	20 37 31	T	0.9	9.1 (0)		
12	22 50 58.8		03.9 S 104.1 W				SOUTH PACIFIC OCEAN	
			H =025 KM					
12	SJ	eP	22 57 25.6	Z	1.0	20.0 (0)	32.0	4.95
		eS	23 02 43	LR	24	30.0 (2)		
		eS	23 02 43	LT	18	10.0 (2)		
		e	23 04 41	LR	35	11.0 (3)		
12	LC	eP	22 58 01.9	Z	1.4	19.0 (0)	36.0	4.76
		eS	23 03 50	LR	23	10.0 (2)		
		eS	23 03 50	LT	21	12.0 (2)		
		e	23 06 30	LR	25	72.0 (2)		
12	TF	eP	22 58 49.4	Z	1.0	17.0 (0)	42.0	4.76
		eS	23 05 14	LR	22	15.0 (2)		
		eS	23 05 14	LT	21	23.0 (2)		
		e	23 08 28	LR	22	99.9 (9)		
		eLR	23 10 43	LZ	999.9	99.9 (9)		
12	MN	eP	22 59 07.6	Z	1.2	7.7 (0)	44.0	4.31
		eP	22 59 09	LZ	18	19.0 (1)		
		eS	23 05 49	LR	23	11.0 (2)		
		eS	23 05 49	LT	24	23.0 (2)		
		e	23 09 04	LT	23	25.0 (2)		
		e	23 10 14	LT	34	46.0 (2)		
		eLR	23 12 15	LZ	20	99.9 (9)		
12	MV	eP	22 59 20.9	Z	1.0	6.9 (0)	46.0	4.59
		eS	23 06 14	LR	17	52.0 (1)		
		eS	23 06 14	LT	20	20.0 (2)		
		e	23 08 50	LT	29	64.0 (1)		
		eLQ	23 10 30	LR	25	42.0 (2)		
		eLR	23 12 41	LZ	25	42.0 (2)		
		eL	23 14 00	LZ	20	99.9 (9)		
		eL	23 14 00	LR	20	11.0 (2)		
		eL	23 14 00	LT	20	54.0 (2)		
12	WI	eP	22 59 27.3	Z	1.0	13.0 (0)	47.0	4.94
		eS	23 06 08	LR	20	20.0 (2)		
		eS	23 06 08	LT	20	11.0 (2)		
		e	23 09 29	LT	23	15.0 (2)		
		eLQ	23 11 22	LT	32	43.0 (2)		
		eLR	23 13 45	LZ	21	10.0 (2)		
		eL	23 15 33	LZ	21	10.0 (2)		
		eL	23 15 33	LR	22	99.0 (2)		
		eL	23 15 33	LT	17	18.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	AR	eP	23 00 03.3	Z	0.9	7.7 (0)	51.0	4.66
		eS	23 07 28	LR	22	60.0 (1)		
		eS	23 07 28	LT	26	12.0 (2)		
		eSS	23 11 16	LT	23	65.0 (1)		
		eLQ	23 13 46	LT	43	41.0 (2)		
		eL	23 19 20	LZ	26	27.0 (2)		
		eL	23 19 20	LR	27	40.0 (2)		
		eL	23 19 20	LT	25	22.0 (1)		
12	CP	eS	23 04 30	LR	28	50.0 (2)	39.0	
		e	23 07 24	LT	26	93.0 (2)		
		eLR	23 09 18	LZ	23	34.0 (2)		
		eL	23 09 53	LZ	23	34.0 (2)		
		eL	23 09 53	LR	22	88.0 (2)		
12	FM	eS	23 05 42	LR	21	15.0 (2)	44.0	
		eS	23 05 42	LT	23	86.0 (1)		
		e	23 09 00	LR	23	24.0 (2)		
		e	23 10 10	LR	28	30.0 (2)		
		eLR	23 13 30	LZ	19	33.0 (2)		
		eL	23 14 35	LZ	17	28.0 (2)		
		eL	23 14 35	LR	18	78.0 (1)		
		eL	23 14 35	LT	16	46.0 (2)		
AVG.							4.71	

13 03 32 00.5 10.4 N 122.6 E PANAY, PHILIPPINE ISLANDS
H =066 KM

13 03 32 12.6 10.2 N 121.7 E PANAY, PHILIPPINE ISLANDS
H =157 KM

13 04 10 49.9 32.4 S 179.7 W KERMADEC ISLANDS REGION
H =087 KM

13 05 01 08.6 30.5 N 079.6 E TIBET INDIA BORDER
H =025 KM

13 WI eP 10 14 01.0 Z 0.3 15.0 (1) 0.5
eS 10 14 09 R 0.4 18.0 (1)

13 SJ eP 13 42 57.9 Z 0.7 15.0 (0)
13 LC eP 13 44 27.0 Z 0.9 9.8 (0)
13 WI eP 13 46 23.5 Z 1.0 19.0 (0)
13 SJ eL 13 49 10 LZ 16 59.0 (1)
13 SJ eL 13 49 10 LR 18 13.0 (2)

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	SJ	eL	13 49 10	LT	15	16.0 (2)		
13	LC	eL	13 51 20	LZ	16	89.0 (1)		
13	LC	eL	13 51 20	LR	17	59.0 (1)		
13	LC	eL	13 51 20	LT	18	83.0 (1)		
13	TF	eL	13 54 36	LR	31	26.0 (1)		
13	FM	eL	13 55 41	LZ	17	13.0 (1)		
13	FM	eL	13 55 41	LR	20	42.0 (1)		
13	FM	eL	13 55 41	LT	17	42.0 (1)		
13	MN	eLQ	13 55 59	LT	30	42.0 (1)		
13	TF	eL	13 56 30	LZ	20	96.0 (0)		
13	TF	eL	13 56 30	LR	22	63.0 (1)		
13	TF	eL	13 56 30	LT	20	48.0 (1)		
13	MV	eL	13 57 15	LT	31	40.0 (1)		
13	MN	eL	13 57 20	LZ	20	24.0 (1)		
13	MN	eL	13 57 20	LR	20	24.0 (1)		
13	MN	eL	13 57 20	LT	20	19.0 (2)		
13	WI	eL	13 58 00	LZ	16	17.0 (1)		
13	WI	eL	13 58 00	LR	16	14.0 (2)		
13	WI	eL	13 58 00	LT	16	28.0 (1)		
13	MV	eL	13 59 00	LZ	20	21.0 (1)		
13	MV	eL	13 59 00	LR	20	76.0 (1)		
13	MV	eL	13 59 00	LT	20	98.0 (1)		
13	MN	eP	17 56 41.8	Z	0.7	16.0 (1)		
13	TF	eP	17 57 10.9	Z	0.9	42.0 (0)		
13	FM	eP	17 57 11.0	Z	1.0	41.0 (0)		
13	MN	e	17 57 17	Z	1.5	14.0 (2)		
13	CP	eP	17 57 20.5	Z	0.9	8.1 (0)		
13	WI	eP	17 57 24.5	Z	0.7	48.0 (0)	5.0	
13	MV	eP	17 57 27.3	Z	1.0	16.0 (0)		
13	FM	e	17 58 00	Z	1.0	83.0 (0)		
13	WI	eS	17 58 24	T	1.0	25.0 (1)	5.0	
13	LC	eP	17 58 50.6	Z	1.0	3.6 (0)		
13	LC	e	17 58 59	Z	1.0	14.0 (0)		
13	LC	eL	18 00 56	Z	1.4	25.0 (0)		
13	WI	eP	18 23 24.8	Z	0.3	20.0 (1)	0.3	
		eS	18 23 30	R	0.4	25.0 (1)		
13	WI	eP	19 36 48.9	Z	0.3	80.0 (0)	0.6	
		eS	19 36 57	R	0.4	12.0 (1)		
13	22	19 23.3	56.2 N 164.0 E	KOMANDORSKIE IS. REGION				
			H =059 KM					
13	MV	eP	22 28 17.5	Z	0.8	6.9 (0)	51.0	4.70
		eL	22 41 00	LR	25	25.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
13	WI	eL	22 41 00	LT	23	23.0 (1)	51.0	4.89	
		eL	22 41 00	LZ	25	26.0 (1)			
13	FM	eP	22 28 22.4	Z	0.7	9.5 (0)	55.0	5.39	
		eL	22 42 00	LZ	25	36.0 (1)			
		eL	22 46 00	LZ	25	90.0 (1)			
		eL	22 46 00	LR	24	73.0 (1)			
		eL	22 46 00	LT	21	47.0 (1)			
	13	AR	eP	22 28 54.5	Z	0.9	34.0 (0)	62.0	4.58
			eL	22 45 00	LZ	35	96.0 (1)		
			eL	22 48 00	LZ	24	51.0 (1)		
			eL	22 48 00	LR	24	37.0 (1)		
			eL	22 48 00	LT	24	71.0 (1)		
13	LC	eP	22 29 50.2	Z	0.8	3.8 (0)	64.0	3.50	
		eL	22 46 10	LT	35	62.0 (1)			
		eL	22 52 10	LZ	25	81.0 (1)			
		eL	22 52 10	LR	25	74.0 (1)			
		eL	22 52 10	LT	25	80.0 (1)			
13	DH	eP	22 30 29.4	Z	0.8	12.0 (0)	70.0	4.90	
		eL	23 00 10	LZ	23	39.0 (1)			
		eL	23 02 30	LZ	21	77.0 (1)			
		eL	23 02 30	LR	20	80.0 (1)			
		eL	23 02 30	LT	22	16.0 (1)			
13	MN	eLQ	22 42 25	LT	35	12.0 (2)	54.0		
		eLR	22 44 12	LZ	30	11.0 (2)			
		eL	22 48 10	LZ	21	91.0 (1)			
		eL	22 48 10	LR	19	74.0 (1)			
		eL	22 48 10	LT	21	24.0 (1)			
13	TF	eL	22 42 30	LR	27	89.0 (1)	58.0		
		eL	22 48 20	LZ	20	77.0 (1)			
		eL	22 48 20	LR	20	42.0 (1)			
		eL	22 48 20	LT	20	60.0 (1)			
		eL	22 48 20	LZ	23	28.0 (1)			
13	SJ	eL	22 58 00	LZ	23	28.0 (1)	71.0		
		eL	23 04 20	LZ	20	84.0 (1)			
		eL	23 04 20	LT	19	11.0 (2)			
AVG.								4.82	
13	22 55 48.4	11.9 S 075.1 W	PERU						
			H = 091 KM						
13	SJ	eP	23 03 59.3	Z	1.0	40.0 (0)	45.0	5.12	
13	DH	eP	23 05 05.2	Z	1.0	96.0 (0)	54.0	5.78	
13	LC	eP	23 05 07.3	Z	1.0	12.0 (0)	54.0	4.88	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	AR	eP	23 05 35.6	Z	1.0	45.0 (0)	58.0	5.45
		eP	23 05 43.5	Z	0.7	1.4 (0)	60.0	4.19
		eP	23 05 57.5	Z	0.9	34.0 (0)	61.0	5.39
		eP	23 06 25.9	Z	0.8	36.0 (0)	65.0	5.38
		eP	23 06 30.3	Z	1.0	11.0 (0)	66.0	4.77
AVG.								5.12
13	AR	eP	23 33 36.1	Z	0.3	8.1 (0)	0.7	
		eS	23 33 46	R	0.5	60.0 (0)		
14	01 02 51.5	51.5 N 179.0 E	RAT IS., ALEUTIAN IS.					
			H = 025 KM					
14	06 44 26.5	27.3 N 057.3 E	IRAN					
			H = 030 KM					
14	15 58 53.7	30.4 N 079.5 E	TIBET INDIA BORDER					
			H = 040 KM					
14	19 43 52.6	40.3 N 124.4 W	NORTHERN CALIFORNIA					
			H = 025 KM					
14	20 23 14.6	16.9 N 099.1 W	SOUTHERN MEXICO					
			H = 025 KM					
14	20 38 01.3	50.2 N 155.8 E	KURILE ISLANDS					
			H = 060 KM					
14	23 34 33.7	18.7 N 145.5 E	MARIANA ISLANDS					
			H = 198 KM					
15	MN	eP	03 38 08.1	Z	0.8	2.6 (0)		
15	CP	eP	04 09 35.9	Z	0.3	28.0 (0)	0.7	
		eS	04 09 46	T	0.4	17.0 (0)		
15	WI	eP	04 36 50.0	Z	0.5	2.0 (0)		
15	WI	eL	04 38 08	R	0.7	16.0 (0)		
15	WI	eP	05 45 23.0	Z	0.5	2.5 (0)		
15	WI	eL	05 46 43	R	0.8	20.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eP	06 06 10.1	Z	1.0	4.9 (0)		
15	06 47 22.5		39.8 N 140.9 E H =103 KM				HONSHU, JAPAN	
15	MV	eP	06 58 32.5	Z	1.0	13.0 (0)	73.0	4.94
		epP	06 58 58	Z	1.2	69.0 (0)		
		eS	07 07 44	R	3.0	7.8 (0)		
		eS	07 07 44	T	2.5	5.0 (0)		
		e	07 07 45	LR	15	59.0 (1)		
15	WI	eP	06 58 39.4	Z	1.0	8.9 (0)	73.0	4.55
		epP	06 59 05	Z	1.2	58.0 (0)		
		e	06 59 36	Z	1.6	50.0 (0)		
		e	07 08 38	R	2.5	61.0 (0)		
15	MN	eP	06 58 47.4	Z	1.0	59.0 (0)	74.0	5.37
		epP	06 59 02	Z	1.3	16.0 (1)		
		e	06 59 49	Z	1.3	39.0 (0)		
		eS	07 08 13	R	2.5	4.7 (0)		
		eS	07 08 13	LT	18	55.0 (1)		
		eS	07 08 13	LR	15	20.0 (1)		
		e	07 08 52	LT	20	56.0 (1)		
		eL	07 17 30	LT	28	31.0 (1)		
		eL	07 19 25	LT	20	28.0 (1)		
		eL	07 19 25	LZ	22	17.0 (1)		
15	TF	eP	06 58 52.4	Z	1.0	13.0 (0)	75.0	4.71
		epP	06 59 12	Z	1.2	11.0 (1)		
		eS	07 08 22	LR	20	52.0 (1)		
		e	07 09 02	LR	20	62.0 (1)		
		e	07 10 00	LR	25	62.0 (1)		
15	FM	eP	06 59 05.5	Z	1.0	20.0 (0)	77.0	4.90
		epP	06 59 31	Z	1.2	13.0 (1)		
15	CP	eP	06 59 13.6	Z	1.2	16.0 (0)	79.0	4.72
		epP	06 59 39	Z	1.2	83.0 (0)		
15	LC	eP	06 59 47.1	Z	1.0	9.7 (0)	85.0	4.68
		epP	07 00 13	Z	1.2	10.0 (1)		
		e	07 01 01	Z	1.5	24.0 (0)		
15	DH	eP	07 00 22.5	Z	1.0	29.0 (0)	93.0	5.66
		epP	07 00 48	Z	1.0	49.0 (0)		
		eS	07 11 12	LR	20	31.0 (1)		
		eS	07 11 12	LT	15	24.0 (1)		
		e	07 12 02	LR	20	24.0 (1)		
15	SJ	epP	07 00 54	Z	1.2	48.0 (0)	93.0	
							AVG.	4.90

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	CP	eP eS	08 09 36.0 08 09 45	Z T	0.3 0.4	9.2 (0) 11.0 (0)		0.6
15	09 33 39.3		14.7 N 146.3 E H =025 KM				MARIANA ISLANDS REGION	
15	MV	eP	09 46 01.5	Z	1.0	6.5 (0)	82.0	4.64
15	TF	eP	09 46 12.4	Z	0.8	11.0 (0)	84.0	5.06
15	MN	eP	09 46 13.9	Z	1.0	4.9 (0)	85.0	4.62
15	WI	eP	09 46 14.7	Z	1.0	5.6 (0)	85.0	4.67
15	CP	eP	09 46 28.0	Z	1.2	14.0 (0)	88.0	5.09
		e	09 47 07	Z	1.0	5.6 (0)		
15	LC	eP	09 47 06.9	Z	1.0	3.6 (0)	96.0	4.86
							AVG.	4.82
15	11 59 21.9		45.0 N 110.2 W H =025 KM				WYOMING-MONTANA BORDER	
15	FM	eP	12 00 52.2	Z	0.5	5.5 (0)	6.0	4.49
15	WI	eL	12 02 40	LT	15	53.0 (1)	7.0	
		eL	12 02 40	LR	17	11.0 (2)		
		eL	12 02 20	LR	17	11.0 (2)		
		eL	12 02 19	R	0.7	67.0 (0)		
		eP	12 01 01.5	Z	0.5	8.2 (0)		4.89
15	MN	eP	12 01 44.1	Z	0.7	0.8 (0)	10.0	4.18
		eL	12 03 50	LR	17	61.0 (1)		
		eL	12 04 00	LR	17	61.0 (1)		
							AVG.	4.52
15	MN	eP	12 49 37.8	Z	0.7	2.5 (0)		
15	LC	eP	12 50 02.6	Z	0.7	3.7 (0)		
15	MN	eL	13 16 22	LZ	20	12.0 (1)		
15	14 43 50.1		09.3 S 078.9 W H =080 KM				NEAR COAST OF PERU	
15	LC	eP	14 52 32.8	Z	1.2	6.0 (0)	49.0	4.42
15	DH	eP	14 52 48.0	Z	0.6	14.0 (0)	51.0	5.15
15	MN	eP	14 53 51.1	Z	0.8	3.1 (0)	60.0	4.47
15	WI	eP	14 54 01.5	Z	0.8	4.2 (0)	61.0	4.54
							AVG.	4.65

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	15 12 44.1		40.2 N 142.4 E H =055 KM				HONSHU, JAPAN	
15	MN	eP	15 24 07.1	Z	1.0	2.4 (0)	73.0	4.12
15	LC	eP	15 25 08.1	Z	1.0	4.9 (0)	84.0	4.53
15	DH	eP	15 25 44.8	Z	0.9	16.0 (0)	91.0	5.30
						AVG.		4.65
15	17 03 13.9		51.3 N 178.4 W H =025 KM				ANDREANOF IS. ALEUTIAN IS.	
15	MN	eP	17 11 16.8	Z	0.5	0.6 (0)	44.0	3.58
		eL	17 24 10	LZ	20	17.0 (1)		
15	CP	eP	17 12 02.2	Z	0.9	2.3 (0)	49.0	4.18
15	LC	eP	17 12 42.0	Z	0.7	2.5 (0)	55.0	4.35
						AVG.		3.97
15	19 34 09.4		20.3 S 169.2 E H =024 KM				LOYALTY ISLANDS	
15	TF	eP	19 46 52.6	Z	0.8	5.4 (0)	87.0	4.78
15	MV	eP	19 46 56.2	Z	1.0	9.8 (0)	87.0	4.94
15	WI	eP	19 47 14.0	Z	0.7	5.0 (0)	91.0	4.93
						AVG.		4.88
15	21 52 16.7		13.4 N 053.1 E H =025 KM				GULF OF ADEN	
15	MN	eP	22 11 15.9	Z	0.4	1.6 (0)		
15	MN	eL	22 58 55	LZ	30	19.0 (1)		
16	LC	eP	00 11 26.1	Z	0.7	2.5 (0)		
16	02 04 52.6		52.1 S 138.9 E H =014 KM				SOUTH OF TASMANIA	
16	MV	eP†	02 23 54.5	Z	0.6	21.0 (0)	126.0	
		e	02 33 45	LZ	18	51.0 (1)		
		eSS	02 42 50	LT	24	94.0 (1)		
		eLQ	02 57 30	LR	25	25.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	03 02 30	LZ	27	56.0 (1)		
		eL	03 04 32	LZ	28	22.0 (2)		
		eL	03 04 32	LR	29	64.0 (1)		
		eL	03 04 32	LT	27	13.0 (2)		
16	MN	eP†	02 23 57.6	Z	0.9	2.6 (0)	128.0	
		eSS	02 43 00	LR	27	78.0 (1)		
		ePSPS	02 43 55	LT	26	12.0 (2)		
		eL	03 03 17	LZ	30	13.0 (2)		
		eL	03 06 20	LZ	25	18.0 (2)		
		eL	03 06 20	LR	27	59.0 (1)		
		eL	03 06 20	LT	23	14.0 (2)		
16	WI	eP†	02 24 01.4	Z	1.0	2.2 (0)	130.0	
		ePS	02 36 08	LR	20	49.0 (1)		
		ePSPS	02 44 10	LT	28	53.0 (1)		
		e	02 58 55	LR	40	15.0 (2)		
		eL	03 04 35	LZ	30	90.0 (1)		
		eL	03 09 59	LZ	21	15.0 (2)		
		eL	03 09 59	LR	21	56.0 (1)		
		eL	03 09 59	LT	21	10.0 (2)		
16	LC	eP†	02 24 03.2	Z	0.9	2.0 (0)	130.0	
		eSS	02 43 52	LR	25	50.0 (1)		
		eL	03 03 35	LZ	29	21.0 (1)		
		eL	03 11 05	LZ	20	10.0 (2)		
		eL	03 11 05	LR	21	55.0 (1)		
		eL	03 11 05	LT	20	57.0 (1)		
16	TF	ePS	02 35 51	LR	21	31.0 (1)	123.0	
		eSS	02 42 33	LR	23	10.0 (2)		
		eL	02 56 00	LT	35	93.0 (1)		
		eL	03 01 54	LZ	30	53.0 (1)		
		eL	03 08 30	LZ	20	26.0 (2)		
		eL	03 08 30	LR	20	18.0 (2)		
		eL	03 08 30	LT	20	36.0 (1)		
16	FM	eSS	02 43 50	LT	25	71.0 (1)	130.0	
		eL	02 59 18	LT	45	20.0 (2)		
		eL	03 07 05	LZ	25	41.0 (1)		
		eL	03 13 20	LZ	19	15.0 (2)		
		eL	03 13 20	LR	20	11.0 (2)		
		eL	03 13 20	LT	19	34.0 (1)		
16	CP	eL	03 02 28	LZ	33	44.0 (1)	124.0	
		eL	03 06 45	LZ	21	16.0 (2)		
		eL	03 06 45	LR	22	23.0 (1)		
		eL	03 06 45	LT	21	11.0 (2)		
16	FM	eP	02 08 25.0	Z	0.5	7.5 (0)		
16	MV	eP	02 33 49.5	Z	0.4	3.9 (0)		
16	MN	eP	02 34 29.5	Z	0.6	2.1 (0)	4.9	
		e	02 34 39	Z	0.6	5.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
16	WI	eP	02 34 39.7	Z	0.4	1.1 (0)	1.3		
16	MN	eS	02 35 29	R	0.7	16.0 (0)	4.9		
16	WI	eS	02 35 56	R	0.6	19.0 (0)	1.3		
16	SJ	eLR	03 07 40	LZ	20	40.0 (1)			
16	SJ	eL	03 13 25	LZ	20	40.0 (1)			
16	SJ	eL	03 13 25	LR	20	35.0 (2)			
16	SJ	eL	03 13 25	LT	18	19.0 (2)			
16	AR	eL	03 16 50	LZ	25	55.0 (1)			
16	AR	eL	03 21 00	LZ	22	21.0 (2)			
16	AR	eL	03 21 00	LR	22	78.0 (1)			
16	AR	eL	03 21 00	LT	20	32.0 (1)			
16	DH	eL	03 21 15	LZ	30	13.0 (2)			
16	DH	eL	03 27 30	LZ	21	11.0 (2)			
16	DH	eL	03 27 30	LR	22	87.0 (1)			
16	TF	eL	04 07 40	LT	30	70.0 (1)			
16	TF	eL	04 18 28	LZ	25	50.0 (1)			
16	TF	eL	04 18 28	LT	24	95.0 (1)			
16	TF	eL	04 18 28	LR	25	51.0 (1)			
16	04 49 21.5	11.2 S 079.8 W	NEAR COAST OF PERU						
		H = 075 KM							
16	SJ	eP	04 57 13.5	Z	0.8	67.0 (0)	43.0	5.42	
16	LC	eP	04 58 13.5	Z	0.7	2.5 (0)	50.0	4.25	
		eS	05 05 32	LR	22	46.0 (1)			
		eS	05 05 32	LT	23	41.0 (1)			
		eL	05 14 35	LZ	40	12.0 (2)			
		eL	05 17 04	LZ	18	20.0 (2)			
		eL	05 17 04	LR	19	17.0 (2)			
		eL	05 17 04	LT	18	79.0 (1)			
16	DH	eP	04 58 35.7	Z	0.7	39.0 (0)	53.0	4.52	
		eS	05 06 10	LR	20	31.0 (1)			
		eS	05 06 10	LT	11	56.0 (1)			
		eL	05 09 58	LR	20	43.0 (1)			
		eLR	05 14 00	LZ	22	41.0 (1)			
		eL	05 16 00	LZ	25	41.0 (1)			
		eL	05 16 00	LR	23	99.0 (1)			
		eL	05 16 00	LT	21	21.0 (1)			
16	CP	eP	04 58 55.2	Z	0.6	6.6 (0)	56.0	4.84	
16	AR	eP	04 59 00.7	Z	0.6	49.0 (0)	57.0	5.71	
16	FM	eP	04 59 12.8	Z	1.4	52.0 (0)	59.0	5.37	
		eL	05 19 00	LT	31	66.0 (1)			
		eLR	05 21 08	LZ	20	37.0 (1)			
		eL	05 23 03	LZ	16	20.0 (2)			
		eL	05 23 03	LR	17	41.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
16	TF	eL	05 23 03	LT	16	18.0 (2)			
16	TF	eP	04 59 24.6	Z	1.4	43.0 (0)	60.0	5.36	
16	MN	eP	04 59 29.1	Z	0.9	19.0 (0)	61.0	5.15	
		eL	05 15 14	LT	26	73.0 (1)			
		eL	05 18 56	LZ	35	40.0 (1)			
		eL	05 21 40	LZ	19	12.0 (2)			
		eL	05 21 40	LR	19	84.0 (1)			
		eL	05 21 40	LT	20	74.0 (1)			
16	WI	eP	04 59 40.6	Z	0.8	6.2 (0)	63.0	4.64	
16	MV	eP	04 59 44.2	Z	1.8	45.0 (0)	64.0	5.17	
						AVG.		5.04	
16	06 17 04.0	28.2 N 142.5 E	BONIN ISLAND REGION						
		H = 038 KM							
16	WI	eP	06 29 08.0	Z	0.8	1.4 (0)	79.0	3.97	
16	MN	eP	06 29 09.8	Z	1.0	1.6 (0)	80.0	3.87	
16	CP	eP	06 29 35.7	Z	0.8	2.2 (0)	85.0	4.33	
16	LC	eP	06 30 10.4	Z	1.0	1.2 (0)	92.0	4.18	
						AVG.		4.09	
16	DH	eP	07 44 32.6	Z	0.7	15.0 (0)			
16	07 50 09.8	17.8 S 178.4 W	FIJI ISLANDS REGION						
		H = 519 KM							
16	TF	eP	08 01 07.3	Z	1.0	8.4 (0)	77.0	4.12	
16	CP	eP	08 01 13.8	Z	0.6	3.0 (0)	78.0	3.90	
16	MV	eP	08 01 14.5	Z	1.0	8.4 (0)	78.0	4.12	
16	MN	eP	08 01 23.0	Z	0.7	4.1 (0)	79.0	3.97	
16	WI	eP	08 01 33.5	Z	0.9	8.0 (0)	81.0	4.23	
16	LC	eP	08 01 51.2	Z	1.0	6.1 (0)	85.0	4.19	
						AVG.		4.09	
16	08 28 10.8	11.8 S 166.4 E	SANTA CRUZ ISLANDS						
		H = 057 KM							
16	MN	eP	08 40 47.1	Z	1.2	2.7 (0)	86.0	4.14	
		eL	09 07 46	LZ	32	39.0 (1)			
		eL	09 08 20	LZ	26	38.0 (1)			
		eL	09 08 20	LR	28	21.0 (1)			
		eL	09 08 20	LT	28	28.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	TF	eLR	09 06 12	LZ	30	18.0 (1)	86.0	
		eL	09 06 47	LZ	32	26.0 (1)		
		eL	09 06 47	LR	30	24.0 (1)		
		eL	09 06 47	LT	30	70.0 (0)		
							AVG.	4.14
16	09 25 55.4		13.0 S 167.2 E	SANTA CRUZ IS. REGION				
			H =180 KM					
16	MV	eP	09 38 09.7	Z	1.2	16.0 (0)	85.0	4.67
		epP	09 38 57	Z	1.1	61.0 (0)		
16	MN	eP	09 38 19.2	Z	1.4	12.0 (0)	87.0	4.57
		epP	09 39 06	Z	1.0	38.0 (0)		
		eL	10 07 55	LZ	23	43.0 (1)		
		eL	10 11 52	LZ	19	40.0 (1)		
		eL	10 11 52	LR	20	26.0 (1)		
		eL	10 11 52	LT	18	16.0 (1)		
16	WI	eP	09 38 27.4	Z	1.2	9.0 (0)	88.0	4.51
		epP	09 39 14	Z	1.5	10.0 (1)		
16	TF	epP	09 38 58	Z	1.3	44.0 (0)	84.0	
		eL	10 05 22	LZ	24	20.0 (1)		
		eL	10 12 30	LZ	17	45.0 (1)		
		eL	10 12 30	LR	15	41.0 (1)		
16	CP	epP	09 39 04	Z	1.1	23.0 (0)	86.0	
16	FM	epP	09 39 29	Z	1.0	10.0 (0)	91.0	
16	LC	epP	09 39 42	Z	1.3	13.0 (0)	94.0	
							AVG.	4.58
16	DH	eL	10 30 20	LZ	22	10.0 (1)		
16	DH	eL	10 32 20	LZ	20	20.0 (1)		
16	DH	eL	10 32 20	LR	20	12.0 (1)		
16	DH	eL	10 32 20	LT	20	21.0 (1)		
16	WI	eP	11 34 14.1	Z	0.3	7.2 (0)	0.5	
		eS	11 34 22	R	0.3	21.0 (0)		
		eP	11 38 55.5	Z	0.3	7.2 (0)		
		eS	11 39 03	Z	0.3	18.0 (0)		
16	MN	eP	12 47 01.1	Z	1.2	2.7 (0)		
16	12 54 40.6		62.3 N 153.1 W	ALASKA				
			H =039 KM					
16	WI	eP	13 00 45.3	Z	1.2	16.0 (1)	30.0	5.69

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	13 00 50	LZ	20	57.0 (1)		
		ePCP	13 03 50	Z	1.2	25.0 (0)		
		eS	13 05 45	LR	22	54.0 (2)		
		eS	13 05 45	LT	23	12.0 (2)		
		eL	13 08 04	LZ	20	19.0 (2)		
		eL	13 11 00	T	4.0	48.0 (1)		
		eL	13 13 18	LZ	14	66.0 (2)		
		eL	13 13 18	LR	14	82.0 (2)		
		eL	13 13 18	LT	13	61.0 (2)		
16	MV	eP	13 00 47.0	Z	1.0	16.0 (1)	30.0	5.77
		epP	13 00 49	LZ	15	90.0 (1)		
		eS	13 05 45	R	2.5	26.0 (1)		
		eS	13 05 45	T	3.0	28.0 (1)		
		eS	13 05 52	LR	30	10.0 (2)		
		eS	13 05 52	LT	34	17.0 (2)		
		eL	13 07 32	LR	15	46.0 (1)		
16	MN	eP	13 01 04.4	Z	0.4	35.0 (0)	32.0	5.56
		epP	13 01 10	LZ	21	37.0 (1)		
		ePP	13 02 21	LZ	16	34.0 (1)		
		eS	13 06 13	LR	30	26.0 (2)		
		eS	13 06 13	LT	28	13.0 (2)		
		eS	13 06 16	R	3.0	21.0 (1)		
		eSCP	13 07 32	Z	3.0	14.0 (1)		
		eL	13 08 22	LT	31	33.0 (2)		
		eLR	13 11 21	LZ	25	22.0 (2)		
		eL	13 13 20	LZ	17	38.0 (2)		
		eL	13 13 20	LR	17	51.0 (2)		
		eL	13 13 20	LT	18	23.0 (2)		
16	FM	eP	13 01 20.0	Z	1.0	72.0 (0)	34.0	5.52
		epP	13 01 22	LZ	15	33.0 (1)		
		ePP	13 02 38	LZ	17	27.0 (1)		
		eS	13 06 42	LT	26	31.0 (2)		
		eL	13 10 08	LR	35	16.0 (2)		
		eL	13 13 32	LZ	20	17.0 (2)		
		eL	13 13 32	LR	18	38.0 (2)		
		eL	13 13 32	LT	32	17.0 (2)		
16	TF	eP	13 01 23.4	Z	1.0	21.0 (1)	34.0	5.98
		epP	13 01 26	LZ	12	14.0 (2)		
		eS	13 06 41	LT	37	31.0 (2)		
		eL	13 09 40	LR	35	41.0 (2)		
		eL	13 11 22	LZ	20	51.0 (1)		
		eL	13 13 40	LZ	17	60.0 (2)		
		eL	13 13 40	LR	17	37.0 (2)		
		eL	13 13 40	LT	17	48.0 (2)		
16	CP	epP	13 01 53.6C	Z	0.6	92.0 (0)	38.0	5.76
		eP	13 01 56	LZ	12	57.0 (1)		
		eS	13 07 47	LR	26	11.0 (2)		
		eS	13 07 47	LT	25	11.0 (2)		
		e	13 10 37	LZ	17	16.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	AR	eL	13 11 37	LR	28	13.0 (2)		
		eLR	13 13 53	LZ	22	32.0 (2)		
		eL	13 19 14	LZ	17	38.0 (2)		
		eL	13 19 14	LR	17	27.0 (2)		
		eL	13 19 14	LT	16	42.0 (2)		
16	AR	eP	13 02 10.2	Z	0.7	21.0 (1)	40.0	5.96
		eP	13 02 12	LZ	13	72.0 (1)		
		ePP	13 03 46	LZ	15	61.0 (1)		
		e	13 08 11	T	2.8	53.0 (1)		
		eL	13 13 50	LR	35	26.0 (2)		
		eL	13 15 17	R	3.5	18.0 (2)		
		eLR	13 17 43	LZ	15	24.0 (2)		
		eL	13 20 40	LZ	16	96.0 (2)		
		eL	13 20 40	LR	15	37.0 (2)		
		eL	13 20 40	LT	16	58.0 (2)		
16	LC	eP	13 02 29.4	Z	0.8	38.0 (0)	42.0	5.22
		eP	13 02 34	LZ	13	71.0 (1)		
		ePP	13 04 17	LZ	16	40.0 (1)		
		eS	13 08 25	LR	15	94.0 (1)		
		eS	13 08 25	LT	15	10.0 (2)		
		e	13 11 57	LR	16	17.0 (2)		
		eL	13 13 00	LZ	25	22.0 (2)		
		eL	13 14 24	LZ	20	29.0 (2)		
		eL	13 14 24	LR	18	41.0 (2)		
		eL	13 14 24	LT	15	18.0 (2)		
16	DH	eP	13 03 19.2	Z	0.7	39.0 (0)	48.0	5.53
		eP	13 03 21	LZ	14	84.0 (1)		
		ePP	13 05 10	LZ	12	11.0 (2)		
		eS	13 10 21	LR	15	63.0 (1)		
		eS	13 10 21	LT	14	12.0 (2)		
		e	13 13 57	LZ	25	21.0 (2)		
		eL	13 17 10	LR	35	19.0 (2)		
		eL	13 19 39	R	3.5	37.0 (2)		
		eLR	13 20 20	LZ	28	29.0 (2)		
		eL	13 23 35	LZ	12	23.0 (3)		
		eL	13 23 35	LR	13	39.0 (2)		
		eL	13 23 35	LT	12	10.0 (3)		
16	SJ	eP	13 03 31.2	Z	0.6	19.0 (1)	50.0	6.20
		eP	13 03 33	LZ	17	15.0 (2)		
		ePP	13 05 31	LZ	12	11.0 (0)		
		eS	13 10 44	LT	17	13.0 (2)		
		e	13 14 42	LZ	19	12.0 (2)		
		eLR	13 20 05	LZ	14	13.0 (2)		
		eL	13 25 42	LZ	15	21.0 (3)		
		eL	13 25 42	LR	16	99.9 (9)		
		eL	13 25 42	LT	16	99.9 (9)		
							AVG.	5.72

16 16 16 40.9 34.8 S 108.6 W SOUTH OF EASTER ISLAND
H = 025 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	SJ	eP	16 27 07.1	Z	1.0	29.0 (0)	63.0	5.31
16	LC	eP	16 27 33.0	Z	1.2	26.0 (0)	67.0	5.26
16	CP	eP	16 27 36.6	Z	1.2	37.0 (0)	67.0	5.41
16	TF	eP	16 27 55.5	Z	1.0	13.0 (0)	71.0	4.94
16	MN	eP	16 28 13.6	Z	1.0	42.0 (0)	74.0	4.37
16	FM	eP	16 28 15.5	Z	1.0	10.0 (0)	74.0	4.75
16	MV	eP	16 28 19.2	Z	1.0	8.4 (0)	75.0	4.67
16	WI	eP	16 28 29.2	Z	1.2	36.0 (0)	76.0	5.30
16	AR	eP	16 29 11.0	Z	0.7	8.8 (0)	84.0	5.03
							AVG.	5.00
16	DH	eP	16 39 28.5	Z	0.5	21.0 (0)	1.8	
		eS	16 39 53	R	0.4	37.0 (0)		
16	CP	eP	17 04 09.3	Z	0.2	24.0 (0)	0.2	
		eS	17 04 14	T	0.3	39.0 (0)		
16	DH	eP	17 11 37.5	Z	0.3	6.3 (0)	1.7	
		eS	17 12 01	T	0.3	41.0 (0)		
16	DH	eP	18 45 31.0	Z	0.2	15.0 (0)	2.0	
		eS	18 45 57	R	0.3	39.0 (0)		
16	LC	eP	19 52 12.5	Z	0.2	3.4 (0)	2.9	
		eS	19 52 49	R	999.9	99.9 (9)		
16	20 07 13.4		19.9 S 175.7 W				TONGA ISLANDS REGION	
			H = 114 KM					
16	MN	eP	20 19 08.4	Z	0.9	4.0 (0)	79.0	4.23
16	LC	eP	20 19 34.7	Z	1.0	11.0 (0)	84.0	4.71
		e	20 20 24	Z	1.0	4.9 (0)		
							AVG.	4.47
16	LC	eP	20 17 44.9	Z	0.3	3.6 (0)	1.5	
		eS	20 18 03.5	R	0.3	1.7 (0)		
16	WI	eP	21 18 12.4	Z	0.2	5.7 (0)	5.7	
		eS	21 19 20	R	999.9	99.9 (9)		
16	LC	eP	21 31 15.3	Z	1.0	6.1 (0)		
16	WI	eP	22 54 52.0	Z	999.9	99.9 (9)		
16	DH	eP	23 17 28.9	Z	0.3	6.3 (0)	0.6	
		eS	23 17 37	T	0.3	31.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	00 18 14.5		17.3 S 178.8 W H =538 KM				FIJI ISLANDS	
17	04 12 45.4		11.6 M 087.1 W H =025 KM				NICARAGUA	
17	05 32 08.8		43.0 S 074.9 W H =026 KM				NEAR COAST OF CHILE	
17	SJ	eP	05 43 41.1	Z	1.3	12.0 (1)	73.0	5.79
		eP	05 43 43	LZ	20	15.0 (2)		
		eP AS	05 43 50.0	Z	1.2	79.0 (0)		5.64
		ePCP	05 43 58	Z	2.0	78.0 (0)		
		eS	05 53 05	LT	18	29.0 (2)		
		eSS	05 58 00	LT	22	30.0 (2)		
		eL	06 01 15	LR	28	17.0 (3)		
		eL	06 03 15	LR	18	48.0 (3)		
		eL	06 03 15	LZ	18	81.0 (1)		
17	LC	eP	05 44 19.3	Z	1.5	11.0 (1)	81.0	5.61
		eP	05 44 20	LZ	18	11.0 (2)		
		eP AS	05 44 29.8	Z	1.5	13.0 (1)		5.69
		ePP	05 47 32	Z	1.8	65.0 (0)		
		eS	05 54 40	LR	18	76.0 (1)		
		eS	05 54 40	LT	20	13.0 (2)		
		ePS	05 55 18	LR	20	11.0 (2)		
		eSS	05 59 50	LR	20	10.0 (2)		
		eSSS	06 03 20	LR	17	83.0 (1)		
		e	06 05 50	LT	28	16.0 (2)		
		eL	06 06 55	LT	35	28.0 (2)		
		eL	06 08 17	LR	25	21.0 (2)		
		eL	06 08 17	LT	25	22.0 (2)		
17	DH	eP	05 44 42.2	Z	1.0	57.0 (0)	85.0	5.68
		eP	05 44 43	LZ	18	80.0 (1)		
		ePP	05 48 10	LZ	18	46.0 (1)		
		eS	05 55 10	LR	17	16.0 (2)		
		eS	05 55 10	LT	20	51.0 (1)		
		e	05 56 00	LZ	18	11.0 (2)		
		eSS	06 01 05	LR	25	73.0 (1)		
		eL	06 08 10	LZ	22	20.0 (2)		
		eL	06 32 25	LZ	20	20.0 (2)		
		eL	06 32 25	LT	20	10.0 (2)		
		eL	06 32 25	LR	20	13.0 (2)		
17	TF	eP	05 44 58.0	Z	1.0	52.0 (0)	88.0	5.74
		eP	05 45 00	LZ	17	90.0 (1)		
		ePP	05 48 24	LZ	18	59.0 (1)		
		eS	05 55 50	LR	23	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	05 55 50	LT	23	11.0 (2)		
		ePS	05 56 50	LT	20	22.0 (2)		
		eSS	06 01 40	LR	28	10.0 (2)		
		eSSS	06 05 08	LT	18	16.0 (2)		
		e	06 08 25	LR	28	15.0 (2)		
		eLQ	06 09 35	LR	22	18.0 (2)		
		eLR	06 13 13	LR	20	23.0 (2)		
		eL	06 10 30	LZ	22	55.0 (1)		
		eL	06 10 30	LR	20	18.0 (2)		
17	FM	eP	05 45 00.0	Z	1.5	13.0 (1)	88.0	5.96
		eP	05 45 00	LZ	18	51.0 (1)		
		eP AS	05 45 13.5	Z	1.5	13.0 (1)		5.96
		ePP	05 48 35	LZ	22	33.0 (1)		
		eS	05 55 57	LT	20	67.0 (1)		
		eS	05 55 57	LR	20	72.0 (1)		
		ePS	05 56 58	LT	25	16.0 (2)		
		eSS	06 01 38	LT	18	14.0 (2)		
		eSSS	06 05 30	LT	28	11.0 (2)		
17	AR	eP	05 45 02.5	Z	1.0	10.0 (1)	89.0	5.97
		eP	05 45 03	LZ	17	63.0 (1)		
		eP AS	05 45 11.5	Z	1.0	83.0 (0)		5.89
		eS	05 55 55	LR	15	54.0 (2)		
		eS	05 55 55	LT	20	92.0 (1)		
		ePS	05 56 59	LT	28	13.0 (2)		
		eSS	06 01 32	LT	20	86.0 (1)		
17	MN	eP	05 45 07.6	Z	1.6	15.0 (1)	90.0	5.87
		eP	05 45 08	LZ	15	89.0 (1)		
		eP AS	05 45 17.6	Z	1.2	68.0 (0)		5.65
		ePP	05 48 40	LZ	15	78.0 (1)		
		eS	05 56 07	LT	22	72.0 (1)		
		ePS	05 57 17	LR	25	12.0 (2)		
		eSS	06 02 10	LR	22	17.0 (2)		
		eSSS	06 05 52	LR	25	92.0 (1)		
		e	06 09 04	LT	30	11.0 (2)		
		eL	06 10 40	LT	35	38.0 (2)		
		eL	06 10 50	LR	25	17.0 (2)		
		eL	06 10 50	LT	23	12.0 (2)		
		eL	06 14 32	LZ	30	99.9 (9)		
17	WI	eP	05 45 17.5	Z	1.0	15.0 (0)	92.0	5.28
		eP	05 45 18	LZ	20	41.0 (1)		
		eP AS	05 45 29.1	Z	1.0	20.0 (0)		5.40
		ePP	05 49 03	LZ	20	35.0 (1)		
		eSKS	05 55 58	LR	20	33.0 (1)		
		ePS	05 57 33	LR	25	12.0 (2)		
		eSS	06 02 37	LT	23	94.0 (1)		
		eSSS	06 06 22	LR	27	12.0 (2)		
		eSKKS	06 10 08	LT	34	24.0 (2)		
		eLR	06 16 24	LZ	30	24.0 (2)		
		eL	06 18 25	LZ	22	18.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	MV	eL	06 18 25	LR	22	18.0 (2)	93.0	5.37
		eL	06 18 25	LT	22	70.0 (1)		
		eP	05 45 20.0	Z	1.2	19.0 (0)		
		eP	05 45 22	LZ	18	69.0 (1)		
		ePP	05 48 58	LZ	20	45.0 (1)		
		eS	05 56 32	LT	22	74.0 (1)		
		eS	05 56 32	LR	18	36.0 (1)		
		ePS	05 57 35	LT	25	89.0 (1)		
		eSS	06 02 48	LR	23	96.0 (1)		
		eSSS	06 06 18	LT	30	81.0 (1)		
		eL	06 11 18	LT	38	25.0 (2)		
		eL	06 16 25	LT	23	13.0 (2)		
		eL	06 16 25	LZ	22	16.0 (2)		
		eS	05 55 01	LR	25	11.0 (2)		
eSS	06 01 06	LR	25	14.0 (2)				
eSSS	06 04 21	LR	20	92.0 (1)				
				AS		5.67		
				AVG		5.67		
17	LC	eP	07 17 16.9	Z	1.0	2.4 (0)		
17	LC	eL	07 27 50	LZ	20	92.0 (1)		
17	LC	eL	07 28 04	LZ	18	10.0 (2)		
17	LC	eL	07 28 04	LR	18	38.0 (1)		
17	LC	eL	07 28 04	LT	18	60.0 (1)		
17	TF	eP	07 54 08.1	Z	999.9	99.9 (9)		
17	MV	eP	07 54 16.5	Z	0.4	19.0 (0)	3.3	
17	WI	eP	07 54 31.1	Z	0.5	1.6 (0)	5.0	
		e	07 54 41	Z	0.5	14.0 (0)		
17	MV	eS	07 54 57	T	0.5	31.0 (0)	3.3	
17	LC	eP	07 55 17.2	Z	1.0	7.1 (0)		
17	WI	eS	07 55 32	R	0.6	34.0 (0)	5.0	
17	LC	e	08 00 22	LT	20	82.0 (1)		
17	SJ	eL	08 01 15	LR	25	37.0 (3)		
17	CP	e	08 01 20	LT	20	78.0 (1)		
17	TF	e	08 02 08	LT	20	13.0 (2)		
17	FM	e	08 02 25	LT	27	13.0 (2)		
17	LC	eL	08 02 45	LR	27	19.0 (2)		
17	SJ	eL	08 03 00	LZ	20	32.0 (2)		
17	SJ	eL	08 03 00	LR	20	42.0 (3)		
17	SJ	eL	08 03 00	LT	20	45.0 (2)		
17	WI	e	08 03 15	LR	20	12.0 (2)		
17	LC	eL	08 04 30	LZ	25	84.0 (2)		
17	TF	e	08 05 02	LR	28	81.0 (1)		
17	LC	eL	08 06 03	LZ	25	84.0 (2)		
17	LC	eL	08 06 03	LR	19	48.0 (2)		
17	LC	eL	08 06 03	LT	18	89.0 (2)		
17	CP	eL	08 06 40	LZ	20	21.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	TF	eLR	08 06 52	LZ	22	15.0 (2)	84.0	5.67
		eL	08 07 00	LZ	20	21.0 (2)		
		eL	08 07 00	LR	20	69.0 (1)		
		eL	08 07 00	LT	20	20.0 (2)		
		eL	08 07 42	LZ	18	21.0 (2)		
		eL	08 07 42	LR	22	17.0 (2)		
		eL	08 07 42	LT	18	23.0 (2)		
		eL	08 08 25	LZ	30	33.0 (2)		
		eL	08 08 35	LZ	28	33.0 (2)		
		eL	08 09 15	LZ	25	30.0 (2)		
		eL	08 09 15	LR	25	21.0 (2)		
		eL	08 09 15	LT	25	16.0 (2)		
		eLR	08 09 50	LZ	32	34.0 (2)		
		eL	08 10 00	LZ	18	36.0 (2)		
		eL	08 10 00	LR	15	11.0 (2)		
		eL	08 10 00	LT	18	34.0 (2)		
		eL	08 11 05	LZ	25	29.0 (2)		
		eL	08 11 05	LR	25	29.0 (2)		
eL	08 11 05	LT	23	10.0 (2)				
17	09 41 01.4		14.8 N 092.9 W	SOUTH OF MEXICO BORDER				
				H = 120 KM				
17	SJ	eP	09 44 11.6	Z	1.0	48.0 (0)	14.0	4.64
		eL	09 52 45	LT	30	19.0 (2)		
		eL	09 55 05	LT	22	26.0 (2)		
		eL	09 55 05	LR	20	32.0 (0)		
		eP	09 45 41.1	Z	0.8	31.0 (0)	22.0	4.73
		eP	09 45 42	LZ	15	34.0 (1)		
		eP	09 45 46.2	Z	0.8	30.0 (0)		4.71
		eS	09 49 50	LT	20	31.0 (1)		
		eS	09 49 50	LR	15	43.0 (1)		
		eL	09 53 05	LR	18	13.0 (2)		
17	CP	eL	09 54 40	LR	15	22.0 (2)		
		eL	09 54 40	LZ	20	62.0 (1)		
		eP	09 46 41.1	Z	1.0	5.5 (0)	28.0	4.26
		e	09 49 54	Z	0.7	1.4 (0)		
		eL	09 55 25	LR	30	11.0 (2)		
		eL	09 57 30	LZ	20	92.0 (1)		
		eL	09 57 30	LR	20	14.0 (2)		
		eL	09 57 30	LT	19	85.0 (1)		
		eP	09 46 58.8	Z	0.8	12.0 (0)	30.0	4.68
		e	09 52 28	LT	20	34.0 (1)		
17	FM	eL	09 57 20	LR	20	11.0 (2)		
		eL	09 57 40	LZ	20	22.0 (1)		
		eL	09 57 40	LR	20	11.0 (2)		
		eL	09 57 40	LT	20	56.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
17	AR	eP	09 47 08.2	Z	1.0	6.0 (0)	31.0	4.28	
		ePP	09 48 17	Z	1.0	15.0 (0)			
		eL	09 56 12	LZ	30	51.0 (1)			
		eL	09 57 20	LZ	30	51.0 (1)			
		eL	09 57 20	LR	37	11.0 (2)			
17	DH	eL	09 57 20	LT	47	36.0 (2)	32.0	4.91	
		eP	09 47 12.7	Z	0.7	19.0 (0)			
		eL	09 57 02	LZ	30	80.0 (1)			
		eL	10 01 25	LZ	17	36.0 (2)			
		eL	10 01 25	LR	15	21.0 (2)			
17	MN	eL	10 01 25	LT	17	21.0 (2)	33.0	4.80	
		eP	09 47 22.8	Z	0.8	14.0 (0)			
		eP AS	09 47 31.1	Z	0.8	4.3 (0)			4.29
		e	09 48 01	Z	1.4	22.0 (0)			
		ePCP	09 50 06	Z	0.9	2.8 (0)			
		eL	09 57 12	LT	25	25.0 (2)			
		eL	09 59 07	LZ	23	38.0 (1)			
		eL	09 59 07	LR	24	18.0 (1)			
		eL	09 59 07	LT	20	36.0 (2)			
17	TF	eP	09 47 23.1	Z	1.0	8.6 (0)	33.0	4.50	
		eLQ	09 56 05	LR	30	20.0 (2)			
		eL	09 58 40	LR	22	19.0 (2)			
		eL	09 58 40	LT	22	44.0 (1)			
		eL	09 58 40	LZ	25	50.0 (1)			
17	WI	eP	09 47 35.6	Z	0.9	48.0 (0)	34.0	5.29	
		eP AS	09 47 43.6	Z	0.9	46.0 (0)			5.27
		ePP	09 48 59	Z	1.8	47.0 (0)			
		eLQ	09 59 25	LT	17	33.0 (2)			
		eL	09 59 25	LR	17	19.0 (2)			
		eL	09 59 25	LZ	15	55.0 (1)			
		eLR	10 03 00	LZ	15	26.0 (2)			
		AS							4.76
AVG					4.63				
17	AR	eP	09 47 42.9	Z	0.7	2.5 (0)	35.0	4.19	
		eL	09 58 18	LT	30	20.0 (2)			
		eL	10 00 42	LR	20	18.0 (2)			
17	MV	eL	10 00 42	LT	18	22.0 (2)			
		eL	10 02 27	LZ	17	14.0 (2)			
		eP	10 04 34.3	Z	0.6	1.0 (0)			
17	LC	eP	10 06 29.2	Z	0.8	1.4 (0)			
		eP	10 57 25.3	Z	0.7	1.2 (0)			
17	WI	eP	11 06 38.0	Z	0.5	4.0 (0)	2.7		
		eS	11 07 12	R	0.5	9.0 (0)			
17	LC	eP	13 18 08.7	Z	0.9	4.8 (0)			
17	LC	eP	13 52 53.3	Z	0.6	2.0 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG					
17	WI	eP	13 54 47.8	Z	0.7	2.2 (0)							
17	15 53 37.4		15.7 S 168.2 E				NEW HEBRIDES						
			H = 164 KM										
17	17 20 22.9		43.1 N 144.5 E				HOKKAIDO, JAPAN						
			H = 030 KM										
17	MV	eP	17 31 15.6	Z	0.8	6.3 (0)	67.0	4.81					
		eP AS	17 31 27.6	Z	0.8	40.0 (0)			5.61				
		eS	17 40 08	LR	17	56.0 (1)							
		eS	17 40 08	LT	17	70.0 (1)							
		eSS	17 44 38	LT	30	64.0 (1)							
		eSSS	17 47 50	LT	42	47.0 (2)							
		eL	17 51 52	LR	30	14.0 (2)							
		eL	17 52 40	LZ	25	16.0 (2)							
		eL	17 52 40	LR	25	10.0 (2)							
		eL	17 52 40	LT	25	74.0 (1)							
		17	WI	eP	17 31 22.8	Z			0.6	3.7 (0)	68.0	4.67	
				eP	17 31 24	LZ			999.9	99.9 (9)			
				eP AS	17 31 34.7	Z			0.6	12.0 (0)			5.18
				eP AS	17 31 37	LZ			17	60.0 (1)			
				eS	17 40 21	LR			20	72.0 (1)			
eS	17 40 21			LT	20	80.0 (1)							
e	17 49 50			LR	30	16.0 (2)							
eLR	17 51 52			LZ	32	23.0 (2)							
eL	17 55 00			LZ	24	25.0 (2)							
eL	17 55 00			LR	24	13.0 (2)							
17	MN	eL	17 55 00	LT	24	22.0 (1)	69.0	5.06					
		eP	17 31 30.6	Z	0.8	12.0 (0)							
		eP	17 31 35	LZ	17	60.0 (1)							
		eP AS	17 31 43.4	Z	0.8	42.0 (0)			5.60				
		ePCP	17 31 59	Z	0.8	19.0 (0)							
		eS	17 40 36	R	4.0	27.0 (1)							
		eS	17 40 36	T	3.5	22.0 (1)							
		eS	17 40 38	LT	25	81.0 (1)							
		eS	17 40 38	LR	22	60.0 (1)							
		ePS	17 41 00	R	3.5	25.0 (1)							
		e	17 45 20	LR	30	65.0 (1)							
		e	17 48 30	LT	25	90.0 (1)							
		eLQ	17 50 30	LT	30	23.0 (2)							
		eLR	17 53 00	LZ	30	25.0 (2)							
		eL	17 55 02	LR	24	19.0 (2)							
eL	17 55 02	LT	25	97.0 (1)									
eL	17 55 02	LZ	22	22.0 (2)									
17	TF	eP	17 31 36.9	Z	0.8	11.0 (0)	71.0	4.95					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
17	FM	eP	17 31 38	LZ	18	71.0 (1)	73.0	4.96				
		eP AS	17 31 48.2	Z	0.8	33.0 (0)						
		eS	17 40 48	LR	25	11.0 (2)						
		eL	17 52 48	LZ	30	52.0 (2)						
		eP	17 31 50.0	Z	0.7	9.8 (0)						
		eP	17 31 50	LZ	17	42.0 (1)						
		eP AS	17 32 01.8	Z	0.8	31.0 (0)						
		eS	17 41 12	LR	25	82.0 (1)						
		eS	17 41 12	LT	25	89.0 (1)						
		ePS	17 42 10	LR	20	72.0 (1)						
		eSS	17 45 50	LR	20	52.0 (1)						
		e	17 52 10	LR	30	12.0 (2)						
		eL	17 54 50	LZ	35	20.0 (2)						
		eL	17 57 55	LZ	22	16.0 (2)						
		eL	17 57 55	LR	25	62.0 (1)						
		eL	17 57 55	LT	24	14.0 (2)						
		17	CP	eP	17 32 00.0	Z			1.0	11.0 (0)	74.0	4.78
				eP AS	17 32 13.0	Z			1.0	28.0 (0)		
17	AR	eL	17 54 54	LZ	28	38.0 (2)	80.0	4.92				
		eP	17 32 29.6	Z	0.5	8.8 (0)						
		eP AS	17 32 42.6	Z	0.8	47.0 (0)						
		eS	17 42 27	R	3.0	19.0 (0)						
		eS	17 42 27	T	3.0	12.0 (1)						
		eS	17 42 27	LT	18	54.0 (1)						
		eS	17 42 27	LR	18	13.0 (2)						
		e	17 42 49	R	2.0	70.0 (0)						
		eS	17 47 55	LT	19	75.0 (1)						
		e	17 58 46	LT	23	63.0 (1)						
		eL	18 02 16	LZ	30	13.0 (2)						
		eL	18 04 33	LZ	27	21.0 (2)						
		eL	18 04 33	LT	25	24.0 (2)						
		eL	18 04 33	LR	23	98.0 (1)						
		17	LC	eP	17 32 34.2	Z			0.8	17.0 (0)	81.0	5.07
				eP AS	17 32 48.2	Z			0.8	34.0 (0)		
				eS	17 42 40	LR			25	11.0 (2)		
				eS	17 42 40	LT			20	41.0 (1)		
eSS	17 48 12			LR	30	65.0 (1)						
eSSS	17 51 55			LR	25	64.0 (1)						
e	17 54 07			LR	27	46.0 (1)						
eL	17 58 55			LZ	30	22.0 (2)						
eL	18 01 00			LR	25	16.0 (2)						
eL	18 01 00			LZ	25	17.0 (2)						
17	DH			eP	17 33 11.0	Z	0.8	11.0 (0)	88.0	5.15		
				eP	17 33 13	LZ	20	39.0 (1)				
				eP AS	17 33 24.0	Z	1.0	38.0 (0)				
				e	17 40 20	LR	25	37.0 (1)				
				eS	17 43 50	LR	20	62.0 (2)				
				eS	17 43 50	LT	22	69.0 (1)				
				eL	18 00 25	LR	38	17.0 (2)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG					
17	SJ	eL	18 11 40	LZ	25	16.0 (2)	89.0	5.32					
		eL	18 11 40	LR	22	20.0 (2)							
		eL	18 11 40	LT	25	75.0 (1)							
		eP	17 33 17.8	Z	0.8	18.0 (0)							
		eP	17 33 19	LZ	15	11.0 (2)							
		eL	18 03 14	LZ	30	13.0 (2)							
		eL	18 11 47	LT	20	41.0 (2)							
		eL	18 11 47	LZ	20	11.0 (2)							
										AS .	5.32		
										AVG.	4.94		
		17	DH	eP	18 07 03.5	Z			0.4	6.3 (0)	2.9		
				eS	18 07 41	T			0.5	13.0 (1)			
17	AR	eP	18 29 08.6	Z	1.0	6.0 (0)							
17	AR	e	18 29 43	Z	0.7	3.0 (0)							
17	AR	eP	20 03 08.2	Z	1.0	6.0 (0)							
17	LC	eP	20 49 15.6	Z	0.4	1.6 (0)	2.3						
		eS	20 49 46	T	0.5	4.4 (0)							
17	DH	eP	21 20 30.2	Z	0.8	11.0 (0)							
17	AR	eP	22 08 11.3	Z	0.5	2.2 (0)	0.1						
		eS	22 08 13	T	0.7	6.6 (0)							
17	CP	eP	23 10 42.2	Z	0.3	3.6 (0)	0.3						
		eS	23 10 48	T	0.5	9.1 (0)							
17	23 12 09.0	07.8 S 148.1 E NEW BRITAIN REGION H = 042 KM											
17	WI	eP	23 57 32.5	Z	999.9	99.9 (9)	2.5						
		eS	23 58 05	R	999.9	99.9 (9)							
17	FM	eP	23 58 36.2	Z	0.5	7.2 (0)	3.9						
		eS	23 59 25	R	0.6	63.0 (0)							
18	00 13 22.6	11.2 N 121.9 E PANAY, PHILIPPINE ISLANDS H = 164 KM											
18	01 21 02.8	04.3 S 152.9 E NEW BRITAIN REGION H = 051 KM											
18	05 53 48.1	09.6 S 119.8 E SUMBA REGION H = 068 KM											

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	WI	eP†	06 12 34.6	Z	0.7	1.1 (0)	121.0	
18	MN	eP†	06 12 34.7	Z	0.7	0.9 (0)	121.0	
18	TF	eP†	06 12 35.0	Z	0.7	4.2 (0)	120.0	
18	CP	eP†	06 12 40.0	Z	0.7	2.8 (0)	124.0	
18	LC	eP†	06 12 58.6	Z	0.8	1.5 (0)	132.0	
		eSKP	06 16 14	Z	1.2	31.0 (0)		
		e	06 16 46	Z	0.9	6.8 (0)		
18	DH	eP†	06 13 17.3	Z	0.7	10.0 (0)	145.0	
		e	06 13 36	Z	1.1	77.0 (0)		
18	09 23 37.5		07.2 S 119.9 E				FLORES SEA	
			H =588 KM					
18	DH	eP	09 42 05.6	Z	1.0	40.0 (0)		
18	LC	eP	09 44 20.5	Z	1.0	31.0 (0)		
18	10 10 12.7		15.3 N 148.1 E				MARIANA ISLANDS REGION	
			H =016 KM					
18	MV	eP	10 22 28.8	Z	1.0	13.0 (0)	81.0	4.88
18	TF	eP	10 22 39.8	Z	0.9	27.0 (0)	83.0	5.43
18	WI	eP	10 22 42.0	Z	1.0	33.0 (0)	84.0	5.47
18	MN	eP	10 22 42.9	Z	1.0	15.0 (0)	84.0	5.13
18	CP	eP	10 22 56.3	Z	1.0	17.0 (0)	87.0	5.20
18	FM	eP	10 23 03.7	Z	0.8	13.0 (0)	88.0	5.16
18	LC	eP	10 23 26.6	Z	0.8	15.0 (0)	93.0	5.46
						AVG.		5.25
18	WI	eP	10 13 54.0	Z	0.7	1.1 (0)		
18	MN	eP	10 13 55.2	Z	0.8	1.1 (0)		
18	SJ	eP	10 22 08.1	Z	0.7	19.0 (0)		
18	DH	eP	10 22 21.5	Z	0.7	10.0 (0)		
18	AR	eP	10 23 07.5	Z	0.8	12.0 (0)		
18	MN	eP	10 25 00.2	Z	1.0	20.0 (0)		
18	WI	eP	10 25 02.2	Z	0.7	13.0 (0)		
18	MV	eP	10 25 10.0	Z	1.0	20.0 (0)		
18	TF	eP	10 25 11.3	Z	1.0	17.0 (0)		
18	DH	eP	10 26 20.2	Z	0.8	12.0 (0)		
18	DH	e	10 26 25	LR	15	53.0 (1)		
18	DH	eL	10 27 30	LR	25	48.0 (1)		
18	LC	e	10 28 25	LR	20	19.0 (1)		
18	SJ	eL	10 28 46	LZ	25	41.0 (1)		
18	SJ	eL	10 28 46	LT	25	80.0 (1)		
18	DH	eL	10 29 10	LZ	22	28.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	DH	eL	10 29 10	LR	20	49.0 (1)		
18	DH	eL	10 29 10	LT	23	31.0 (1)		
18	AR	eL	10 31 38	R	1.4	40.0 (0)		
18	FM	eL	10 35 10	LT	35	33.0 (1)		
18	LC	eL	10 35 50	LZ	25	19.0 (1)		
18	LC	eL	10 35 50	LR	20	32.0 (1)		
18	LC	eL	10 35 50	LT	20	36.0 (1)		
18	WI	eLQ	10 35 55	LR	42	31.0 (1)		
18	FM	eL	10 38 00	LZ	20	22.0 (1)		
18	FM	eL	10 38 00	LR	20	72.0 (1)		
18	FM	eL	10 38 00	LT	20	87.0 (1)		
18	WI	eL	10 40 35	LT	18	48.0 (1)		
18	WI	eL	10 40 35	LZ	20	23.0 (1)		
18	WI	eL	10 40 35	LR	19	15.0 (2)		
18	MN	eLQ	10 40 35	LT	18	12.0 (2)		
18	MN	eL	10 40 35	LR	18	80.0 (1)		
18	MN	eLR	10 41 30	LZ	17	68.0 (1)		
18	TF	eL	10 41 55	LZ	17	40.0 (1)		
18	MV	eL	10 42 53	LR	18	24.0 (1)		
18	CP	eP	12 11 09.9	Z	0.3	20.0 (0)	0.1	
		eS	12 11 14	T	0.3	28.0 (0)		
18	14 41 45.0		21.5 S 175.8 W				TONGA ISLANDS REGION	
			H =218 KM					
18	TF	eP	14 53 20.0	Z	0.9	6.8 (0)	78.0	4.38
18	CP	eP	14 53 21.8	Z	0.9	2.3 (0)	78.0	3.91
18	MN	eP	14 53 33.3	Z	0.8	1.6 (0)	80.0	3.82
		e	14 53 54	Z	0.7	4.3 (0)		
18	LC	eP	14 53 58.0	Z	0.8	3.0 (0)	85.0	4.09
						AVG.		4.05
18	LC	eP	16 27 50.3	Z	0.9	5.8 (0)		
18	LC	e	16 28 23	Z	0.9	5.9 (0)		
18	LC	eP	17 04 22.5	Z	0.7	2.4 (0)		
18	MV	eP	18 31 11.0	Z	0.5	2.4 (0)		
18	WI	eP	18 31 57.0	Z	0.7	1.1 (0)		
18	MN	eP	18 32 26.0	Z	0.8	1.1 (0)		
18	AR	eP	19 18 18.5	Z	0.3	5.0 (0)	3.5	
		eS	19 19 02	R	0.4	28.0 (0)		
18	LC	eP	20 44 17.6	Z	0.7	9.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	eP	20 45 58.6	Z	1.0	6.0 (0)		
18	WI	eP	20 46 12.3	Z	0.8	8.3 (0)		
18	LC	eL	20 51 42	LR	19	30.0 (1)		
18	LC	eL	20 51 42	LT	18	36.0 (1)		
18	MN	eL	20 56 00	LT	37	81.0 (1)		
18	WI	eL	20 58 00	LR	19	35.0 (1)		
18	WI	eL	20 58 00	LT	19	66.0 (1)		
18	MN	eL	20 58 00	LZ	20	53.0 (0)		
18	MN	eL	20 58 00	LR	20	54.0 (0)		
18	MN	eL	20 58 00	LT	19	76.0 (1)		
18	MV	eL	20 59 06	LR	21	41.0 (1)		
18	LC	eP	21 53 12.5	Z	0.3	23.0 (0)	1.4	
		eS	21 53 30	T	0.4	33.0 (0)		
18	MN	eP	23 07 53.3	Z	0.4	20.0 (0)		
18	WI	eP	23 08 07.0	Z	0.3	2.2 (0)	2.0	
		e	23 08 12	Z	0.3	31.0 (0)		
18	FM	eP	23 08 23.0	Z	0.4	6.7 (0)	3.2	
18	MV	eP	23 08 26.1	Z	0.5	1.2 (0)	3.8	
18	WI	eS	23 08 33	R	999.9	99.9 (9)	2.0	
18	FM	eS	23 09 03	R	0.5	14.0 (0)	3.2	
18	MV	eS	23 09 13	R	0.6	18.0 (0)	3.8	
19	00 52 13.9		05.1 S 153.6 E				NEW BRITAIN REGION	
			H = 049 KM					
19	MN	eP	01 05 14.6	Z	1.0	8.5 (0)	91.0	4.98
		eL	01 33 15	LZ	34	34.0 (1)		
		eL	01 38 33	LZ	23	59.0 (1)		
		eL	01 38 33	LR	25	53.0 (1)		
		eL	01 38 33	LT	22	14.0 (1)		
19	MV	eL	01 33 15	LR	29	57.0 (1)	90.0	
		eL	01 36 45	LZ	22	62.0 (1)		
		eL	01 36 45	LR	24	50.0 (1)		
		eL	01 36 45	LT	25			
19	TF	eL	01 33 40	LZ	30	23.0 (1)	90.0	
		eL	01 39 45	LZ	19	32.0 (1)		
		eL	01 39 45	LR	21	33.0 (1)		
		eL	01 39 45	LT	18	56.0 (0)		
19	DH	eL	01 51 12	LZ	32	25.0 (1)	123.0	
		eL	01 56 00	LZ	25	47.0 (1)		
		eL	01 56 00	LR	26	38.0 (1)		
							AVG.	4.98
19	WI	eP	01 05 44.0	Z	1.0	4.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	CP	eP	01 28 08.0	Z	0.2	3.4 (0)	0.6	
		eS	01 28 17	T	0.7	18.0 (0)		
19	03 39 45.3		17.3 S 173.3 W				TONGA ISLANDS REGION	
			H = 015 KM					
19	TF	eP	03 50 59.7	Z	0.6	6.9 (0)	70.0	4.92
19	MN	eP	03 51 35.8	Z	1.3	11.0 (0)	76.0	4.78
19	WI	eP	03 51 47.2	Z	1.2	8.2 (0)	78.0	4.69
19	LC	eP	03 52 03.0	Z	1.0	4.9 (0)	81.0	4.46
							AVG.	4.71
19	CP	eP	04 29 57.3	Z	0.3	7.4 (0)	0.8	
		eS	04 30 08	T	0.4	28.0 (0)		
19	CP	eP	06 41 19.2	Z	0.4	21.0 (0)	0.6	
		eS	06 41 28	T	0.5	82.0 (0)		
19	CP	eP	06 48 43.7	Z	0.2	3.4 (0)	0.7	
		eS	06 48 54	T	0.2	29.0 (0)		
19	WI	eP	07 02 29.9	Z	0.3	1.4 (0)	0.5	
		eS	07 02 37	R	0.5	12.0 (0)		
19	WI	eP	10 17 29.0	Z	1.0	2.2 (0)		
19	CP	eP	11 27 17.1	Z	0.8	3.5 (0)		
19	MN	eP	11 27 26.9	Z	0.6	0.7 (0)		
19	12 02 31.3		20.6 S 068.7 W				BOLIVIA AND CHILEAN BORDER	
			H = 160 KM					
19	DH	eP	12 12 43.4	Z	0.7	30.0 (0)	63.0	5.21
		e	12 13 09	Z	0.8	25.0 (0)		
19	LC	eP	12 12 49.2	Z	1.2	8.0 (0)	64.0	4.40
		e	12 13 14	Z	1.0	4.9 (0)		
19	AR	eP	12 13 16.7	Z	0.6	2.6 (0)	68.0	4.23
19	CP	eP	12 13 26.4	Z	0.8	7.1 (0)	70.0	4.49
19	FM	eP	12 13 40.3	Z	1.0	20.0 (0)	72.0	4.84
19	TF	eP	12 13 48.9	Z	0.9	6.7 (0)	74.0	4.41
19	MN	eP	12 13 55.1	Z	1.2	8.4 (0)	75.0	4.39
		e	12 14 21	Z	1.2	5.6 (0)		
19	WI	eP	12 14 04.2	Z	0.8	15.0 (0)	76.0	4.81
		e	12 14 31	Z	0.9	12.0 (0)		
							AVG.	4.60

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	LC	eP	20 50 07.1	Z	0.3	6.3 (0)	1.4	
		eS	20 50 25	T	0.5	23.0 (0)		
19	CP	eP	21 28 11.4	Z	0.2	11.0 (0)	0.3	
		eS	21 28 16	T	0.3	33.0 (0)		
19	22 05 45.0		39.8 N 140.7 E			HONSHU, JAPAN		
			H = 093 KM					
19	LC	eP	22 18 10.7	Z	1.0	2.4 (0)	84.0	4.10
19	CP	eP	23 01 41.1	Z	0.2	6.8 (0)	0.7	
		eS	23 01 51	T	0.2	28.0 (0)		
19	MN	eP	23 39 11.5	Z	999.9	99.9 (9)		
20	MN	eP	01 31 36.3	Z	0.8	1.1 (0)		
20	CP	eP	01 31 47.0	Z	0.2	20.0 (0)	0.5	
		eS	01 31 54	T	0.3	29.0 (0)		
20	04 36 41.0		51.5 N 173.6 W			FOX IS., ALEUTIAN IS.		
			H = 025 KM					
20	MV	eP	04 43 50.0	Z	0.7	1.7 (0)	37.0	3.94
20	WI	eP	04 44 09.9	Z	0.8	2.8 (0)	39.0	4.02
		eL	04 56 31	LZ	20	23.0 (1)		
		eL	05 01 25	LZ	17	45.0 (1)		
		eL	05 01 25	LR	17	42.0 (2)		
		eL	05 01 25	LT	17	43.0 (1)		
20	MN	eP	04 44 19.0	Z	1.0	3.4 (0)	40.0	3.98
20	TF	eP	04 44 26.8	Z	0.8	5.2 (0)	41.0	4.34
20	CP	eP	04 44 57.3	Z	0.8	3.5 (0)	45.0	4.29
20	LC	eP	04 45 52.5	Z	0.9	4.0 (0)	52.0	4.32
20	AR	eP	04 46 03.1	Z	0.7	8.8 (0)	54.0	4.90
20	DH	eP	04 47 08.2	Z	0.8	13.0 (0)	63.0	5.06
						AVG.		4.36
20	CP	eP	06 28 51.4	Z	0.2	5.6 (0)	1.0	
		eS	06 29 05	T	0.3	28.0 (0)		
20	WI	eP	07 26 57.5	Z	0.4	12.0 (0)	1.5	
		eS	07 27 17	T	999.9	99.9 (9)		
20	FM	eP	07 28 47.6	Z	0.3	13.0 (0)	2.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MN	eP	07 29 16.6	Z	0.5	2.5 (0)	5.8	
20	FM	eS	07 29 21	R	0.4	72.0 (0)	2.6	
20	MN	e	07 29 30	Z	0.5	23.0 (0)	5.8	
20	WI	eP	07 29 39.4	Z	0.5	2.4 (0)	7.0	
		e	07 29 53	Z	0.4	10.0 (0)		
20	LC	eP	07 30 05.6	Z	0.6	5.1 (0)		
20	MN	eS	07 30 26	Z	0.5	26.0 (0)	5.8	
20	WI	eS	07 31 04	T	0.7	34.0 (0)	7.0	
20	LC	eL	07 31 46	R	0.6	9.9 (0)		
20	MV	eP	07 31 49.0	Z	0.9	2.7 (0)		
20	09 02 08.3		39.5 N 118.3 W			NEVADA		
			H = 025 KM			MAG 5.25-		PAS
20	MN	iP	09 02 28.1C	Z	999.9	99.9 (9)	1.0	
		eP	09 02 28	LZ				
20	WI	eP	09 02 36.7	Z	999.9	99.9 (9)	1.5	
		eP	09 02 37	LZ	13	51.0 (1)		
		eL	09 03 02	LT	999.9	99.9 (9)		
20	MV	iP	09 02 46.2D	Z	999.9	99.9 (9)	2.5	
		eL	09 03 35	LT	12	49.0 (2)		
20	FM	eP	09 03 17.1	Z	0.3	3.3 (0)	4.5	4.69
		e	09 03 33	Z	0.4	81.0 (0)		
		eL	09 04 15	LT	18	65.0 (2)		
		eL	09 04 29	R	0.4	46.0 (1)		
20	TF	eP	09 03 18.4	Z	0.5	12.0 (0)	4.5	5.03
		e	09 03 28	Z	0.5	18.0 (0)		
		eL	09 04 38	LZ	14	39.0 (2)		
		eL	09 04 38	LR	17	48.0 (2)		
		eL	09 04 38	LT	21	35.0 (2)		
20	LC	eP	09 04 59.2	Z	1.0	7.3 (0)	12.0	4.69
		e	09 05 48	Z	1.0	15.0 (0)		
		eL	09 08 06	LT	17	22.0 (2)		
		eL	09 08 13	T	1.3	41.0 (0)		
20	CP	eP	09 05 04.2	Z	0.4	5.5 (0)	12.0	4.96
		e	09 05 33	Z	0.8	35.0 (0)		
		eL	09 06 10	LT	17	54.0 (2)		
		eL	09 07 01	T	0.9	16.0 (1)		
20	SJ	eP	09 06 48.0	Z	1.0	9.6 (0)	21.0	4.08
		eL	09 11 04	LZ	12	19.0 (2)		
		eL	09 12 41	LT	18	43.0 (2)		
		eL	09 13 54	LZ	16	75.0 (1)		
		eL	09 13 54	LT	18	43.0 (2)		
20	DH	eL	09 15 45	LT	19	44.0 (1)	32.0	
20	AR	eL	09 15 48	LZ	16	60.0 (1)	23.0	
		eL	09 16 03	LZ	16	60.0 (1)		
		eL	09 16 03	LR	17	71.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
								AVG. 4.69
20	MN	eP	09 23 40.5	Z	0.3	5.0 (0)	1.1	
20	WI	eP	09 23 48.9	Z	0.5	2.4 (0)	2.0	
20	MN	eS	09 23 56	T	0.4	13.0 (0)	1.1	
20	WI	eS	09 24 16	R	0.6	22.0 (0)	2.0	
20	MN	eP	14 33 34.1	Z	0.3	6.6 (0)	1.3	
		eS	14 33 50	R	999.9	99.9 (9)		
20	MN	eP	15 05 32.0C	Z	0.3	7.2 (0)	1.3	
20	WI	eP	15 05 47.3	Z	0.3	3.6 (0)	3.1	
20	MN	eS	15 05 48	R	0.4	9.5 (0)	1.3	
20	WI	eS	15 06 08	R	0.5	8.5 (0)	3.1	
20	16 27 20.9		21.0 S 174.8 W	TONGA ISLANDS REGION				
			H = 028 KM					
20	TF	eP	16 39 10.5	Z	1.1	21.0 (0)	77.0	5.10
		eL	17 02 51	LZ	20	29.0 (1)		
		eL	17 09 45	LZ	18	46.0 (1)		
		eL	17 09 45	LR	18	50.0 (1)		
20	MV	eP	16 39 20.0	Z	1.1	8.7 (0)	78.0	4.72
20	MN	eP	16 39 27.4	Z	1.0	19.0 (0)	80.0	4.95
		eL	17 04 18	LZ	20	26.0 (1)		
		eL	17 12 00	LZ	17	42.0 (1)		
		eL	17 12 00	LR	18	18.0 (1)		
		eL	17 12 00	LT	18	57.0 (1)		
20	CP	eP	16 39 30.6	Z	1.0	8.4 (0)	80.0	4.60
20	WI	eP	16 39 39.0	Z	1.0	6.6 (0)	82.0	4.64
		eL	17 08 50	LZ	19	19.0 (1)		
		eL	17 08 55	LZ	18	21.0 (1)		
		eL	17 08 55	LR	16	37.0 (1)		
		eL	17 08 55	LT	17	87.0 (0)		
20	FM	eP	16 39 51.0	Z	1.0	10.0 (0)	84.0	4.93
20	LC	eP	16 39 52.4	Z	1.0	9.7 (0)	84.0	4.58
		eL	17 06 27	LZ	22	22.0 (1)		
		eL	17 12 00	LZ	19	35.0 (1)		
		eL	17 12 00	LR	18	22.0 (1)		
		eL	17 12 00	LT	18	24.0 (1)		
								AVG. 4.79
20	MV	eP	17 16 04.7	Z	0.5	90.0 (0)		
20	MN	eP	17 16 42.6	Z	0.5	11.0 (0)	4.8	
20	WI	eP	17 16 43.5	Z	0.4	18.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	TF	eP	17 16 54.4	Z	0.5	12.0 (0)		
20	MV	eL	17 17 00	LT	20	12.0 (2)		
20	WI	e	17 17 07	Z	0.4	33.0 (0)		
20	MN	eS	17 17 41	T	0.7	30.0 (0)	4.8	
		e	17 17 55	LT	22	19.0 (2)		
		e	17 18 02	LR	20	18.0 (2)		
20	WI	e	17 18 05	R	0.8	41.0 (0)		
20	WI	eL	17 18 05	T	0.6	13.0 (0)		
20	TF	eL	17 18 05	T	0.6	13.0 (0)		
20	CP	eP	17 19 03.8	Z	0.5	5.2 (0)		
20	LC	eP	17 19 17.9	Z	1.0	2.4 (0)		
20	MN	eP	17 52 27.5	Z	1.2	5.6 (0)		
20	AR	eP	20 17 35.9	Z	0.3	5.7 (0)	0.6	
		eS	20 17 45	T	0.4	21.0 (0)		
20	LC	eP	21 35 35.9	Z	0.3	6.3 (0)	3.1	
		eS	21 36 15	R	0.4	8.6 (0)		
20	23 31 37.8		05.6 S 128.7 E	BANDA SEA				
			H = 297 KM					
20	SJ	eP	23 51 29.3	Z	1.1	50.0 (0)		
21	03 07 03.0		36.6 N 054.6 E	NORTHERN IRAN				
			H = 041 KM					
21	WI	eP	03 53 20.7	Z	0.4	4.0 (0)	2.1	
		eS	03 53 49	R	0.5	10.0 (0)		
21	LC	eP	07 01 46.3	Z	0.6	3.0 (0)		
21	LC	eP	07 42 29.5	Z	0.9	3.0 (0)		
21	WI	eP	07 43 55.6	Z	0.8	3.0 (0)		
21	MN	eP	09 08 27.0	Z	0.3	3.0 (0)	1.2	
21	WI	eP	09 08 35.8	Z	0.4	9.5 (0)	2.2	
21	MN	eS	09 08 43	R	0.4	15.3 (0)	1.2	
21	WI	eS	09 09 04	R	0.5	22.0 (0)	2.2	
21	TF	eL	11 08 15	LZ	22	39.7 (1)		
21	TF	eL	11 08 15	LR	22	32.3 (1)		
21	TF	eL	11 08 15	LT	21	34.4 (1)		
21	MN	eL	11 09 50	LZ	27	43.5 (1)		
21	MN	eL	11 10 50	LZ	23	34.0 (1)		
21	MN	eL	11 10 50	LR	22	26.0 (1)		
21	MN	eL	11 10 50	LT	24	32.5 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eL	11 11 00	LZ	25	28.8 (1)		
21	WI	eL	11 11 00	LR	25	25.8 (1)		
21	WI	eL	11 11 00	LT	25	13.4 (1)		
21	FM	eL	11 11 20	LZ	25	27.5 (1)		
21	FM	eL	11 11 20	LR	25	25.0 (1)		
21	FM	eL	11 11 20	LT	25	22.3 (1)		
21	WI	e	11 16 57	LT	26	26.8 (1)		
21	FM	eP	12 42 03.5	Z	0.4	6.6 (0)	1.6	
		eS	12 42 26	R	0.5	12.2 (0)		
21	TF	eP	13 19 57.2	Z	0.3	80.0 (0)		
21	MV	eP	13 20 34.8	Z	0.5	2.0 (0)	4.2	
21	MN	eP	13 20 35.4	Z	0.3	5.5 (0)	3.6	
21	CP	eP	13 20 54.0	Z	0.3	1.3 (0)		
21	MV	eS	13 21 25	R	0.5	6.0 (0)	4.2	
21	MN	eS	13 21 20	R	0.4	5.1 (0)	3.6	
21	WI	eP	13 21 38.5	Z	0.7	1.0 (0)		
21	WI	eL	13 22 53	R	0.7	4.5 (0)		
21	MN	eP	13 23 49.1	Z	0.7	2.5 (0)		
21	SJ	eP	14 25 16.2	Z	0.8	17.9 (0)		
21	DH	eP	14 25 17.7	Z	0.6	8.2 (0)		
21	17 28 34.7		37.0 N 071.9 E			HINDU KUSH REGION		
			H = 038 KM					
21	MN	eP	19 35 40.8	Z	0.8	3.0 (0)		
21	LC	eP	20 08 08.1	Z	1.0	3.6 (0)		
21	LC	eP	20 50 53.0	Z	0.4	9.7 (0)	1.5	
		eS	20 51 11	R	0.5	21.0 (0)		
21	SJ	eP	21 06 55.6	Z	1.0	38.0 (0)		
21	MN	eP	21 09 39.3	Z	0.9	9.6 (0)		
21	WI	eP	21 09 48.7	Z	0.8	34.8 (0)		
21	MN	eL	21 26 20	LZ	25	20.4 (1)		
21	MN	eL	21 26 20	LR	25	20.8 (1)		
21	MV	eP	22 15 14.5	Z	0.3	6.5 (0)	1.7	
21	WI	eP	22 15 18.6	Z	0.4	21.3 (0)	1.3	
21	MN	eP	22 15 23.3	Z	0.3	3.0 (0)	1.5	
21	WI	eS	22 15 35	R	0.5	31.0 (0)	1.3	
21	MV	eS	22 15 37	R	0.3	45.0 (0)	1.7	
21	MN	eS	22 15 53	T	0.6	26.0 (0)	1.5	
21	LC	eP	22 50 56.3	Z	1.7	23.0 (0)		
21	MN	eP	22 52 39.2	Z	1.2	11.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eP	22 52 53.6	Z	1.0	11.0 (0)		
21	LC	eL	22 57 30	LZ	15	57.5 (1)		
21	LC	eL	22 57 30	LR	15	88.5 (1)		
21	LC	eL	22 57 30	LT	15	14.3 (2)		
21	MN	eL	23 01 50	LZ	21	20.6 (1)		
21	MN	eL	23 01 50	LR	20	15.8 (1)		
21	MN	eL	23 01 50	LT	20	94.0 (1)		
21	WI	eL	23 04 15	LZ	15	27.2 (1)		
21	WI	eL	23 04 15	LR	15	10.2 (2)		
21	WI	eL	23 04 15	LT	15	12.8 (2)		
22	00 16 07.2		03.2 S 137.5 E			WESTERN NEW GUINEA		
			H = 104 KM					
22	00 21 00.8		86.9 N 050.8 E			N. OF FRANZ JOSEF LAND		
			H = 033 KM					
22	WI	eP	00 30 11.5	Z	1.0	4.4 (0)	52.0	4.38
22	MN	eP	00 30 30.7	Z	1.0	3.4 (0)	55.0	4.33
22	SJ	eP	00 31 31.4	Z	1.0	19.0 (0)	63.0	5.12
						AVG.		4.61
22	00 21 30.9		05.9 S 151.7 E			NEW BRITAIN REGION		
			H = 081 KM					
22	MV	eP	00 34 34.9	Z	1.0	3.4 (0)	93.0	4.65
22	MN	eP	00 34 45.3	Z	1.0	8.4 (0)	95.0	5.12
22	WI	eP	00 34 48.4	Z	1.0	3.3 (0)	96.0	4.82
22	LC	ePKKP	00 51 46	Z	1.0	3.6 (0)	104.0	
						AVG.		4.86
22	MN	e	00 45 30	LR	20	32.0 (1)		
22	CP	eP	00 53 53.0	Z	0.4	37.0 (0)	0.6	
		eS	00 54 02	R	0.5	42.0 (0)		
22	TF	eL	01 05 00	LZ	20	15.0 (2)		
22	TF	eL	01 05 00	LR	20	84.0 (1)		
22	TF	eL	01 05 00	LT	20	59.0 (1)		
22	MV	eL	01 06 30	LZ	20	32.0 (2)		
22	MV	eL	01 06 30	LR	20	28.0 (2)		
22	MV	eL	01 06 30	LT	20	16.0 (2)		
22	MN	eL	01 08 04	LZ	20	29.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	MN	eL	01 08 04	LR	20	16.0 (2)		
22	MN	eL	01 08 04	LT	20	12.0 (2)		
22	WI	eL	01 08 30	LZ	20	22.0 (2)		
22	WI	eL	01 08 30	LR	20	46.0 (1)		
22	WI	eL	01 08 30	LT	20	24.0 (1)		
22	FM	eL	01 10 40	LZ	20	16.0 (2)		
22	FM	eL	01 10 40	LR	20	10.0 (2)		
22	FM	eL	01 10 40	LT	20	90.0 (1)		
22	CP	eL	01 11 20	LZ	19	22.0 (1)		
22	CP	eL	01 11 20	LR	19	26.0 (1)		
22	CP	eL	01 11 20	LT	20	12.0 (2)		
22	LC	eL	01 15 52	LZ	21	15.0 (2)		
22	LC	eL	01 15 52	LR	18	87.0 (1)		
22	LC	eL	01 15 52	LT	21	43.0 (1)		
22	SJ	eL	01 19 31	LZ	20	59.0 (1)		
22	DH	eL	01 20 24	LZ	24	38.0 (1)		
22	DH	eL	01 23 40	LZ	25	66.0 (1)		
22	DH	eL	01 23 40	LR	25	38.0 (1)		
22	DH	eL	01 23 40	LT	20	20.0 (1)		
22	SJ	eL	01 24 00	LZ	17	20.0 (2)		
22	SJ	eL	01 24 00	LR	17	43.0 (2)		
22	SJ	eL	01 24 00	LT	17	33.0 (2)		
22	MN	eP	01 33 12.3	Z	1.0	3.4 (0)		
22	LC	eP	01 52 15.0	Z	1.0	2.4 (0)		
22	MN	e	01 53 00	Z	1.1	4.4 (0)		
22	MN	eP	04 34 11.9	Z	1.0	2.5 (0)		
22	WI	eP	04 34 15.9	Z	1.0	3.3 (0)		
22	LC	eP	08 03 30.3	Z	0.6	2.0 (0)		
22	WI	eP	08 05 24.9	Z	0.8	2.8 (0)		
22	WI	eP	08 10 12.6	Z	0.6	0.9 (0)		
22	LC	eP	09 44 40.0	Z	0.8	2.3 (0)		
22	CP	eP	10 11 53.7	Z	1.0	8.4 (0)		
22	MV	eP	10 11 55.0	Z	0.7	1.7 (0)		
22	MN	eP	10 12 03.2	Z	0.9	4.8 (0)		
22	WI	eP	10 12 13.9	Z	0.9	4.5 (0)		
22	LC	eP	10 12 28.0	Z	1.0	6.0 (0)		
22	LC	e	10 14 15	Z	1.0	4.8 (0)		
22	13 36 49.7	08.4 S 158.8 E	SOLOMON ISLANDS					
		H = 107 KM						
22	MV	eP	13 49 30.4	Z	1.3	42.0 (0)	89.0	5.40
		epP	13 50 05	Z	1.4	34.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	TF	eP	13 49 31.4	Z	1.5	83.0 (0)	89.0	5.64
22	MN	eP	13 49 41.6	Z	1.2	76.0 (0)	91.0	5.81
22		epP	13 50 16	Z	1.4	26.0 (0)		
		e	13 54 43	Z	1.0	3.4 (0)		
22	CP	eP	13 49 44.4	Z	1.3	70.0 (0)	92.0	5.81
22	WI	eP	13 49 46.5	Z	1.3	82.0 (0)	92.0	5.88
		epP	13 50 21	Z	1.4	34.0 (0)		
22	FM	eP	13 50 03.5	Z	1.5	66.0 (0)	96.0	5.93
22	LC	eP	13 50 21.0	Z	1.5	16.0 (0)	100.0	5.31
						AVG.		5.68
22	LC	eP	13 52 58.3	Z	0.8	4.6 (0)		
22	SJ	e	13 55 18	R	2.0	27.0 (0)		
22	AR	eP	15 40 58.5	Z	1.0	23.0 (0)		
22	MN	eP	16 58 10.8	Z	1.0	3.4 (0)		
22	CP	eP	17 07 53.3	Z	0.8	2.6 (0)		
22	MN	eP	18 09 52.6	Z	1.0	2.5 (0)		
22	18 09 57.7	24.0 S 180.0	SOUTH OF FIJI ISLANDS					
		H = 634 KM						
22	LC	eP	18 21 56.7	Z	1.0	2.4 (0)	91.0	4.11
22	CP	eP	18 28 18.8	Z	0.5	2.1 (0)	4.1	
		eS	18 29 10	R	0.8	5.0 (0)		
22	CP	eP	19 35 28.3	Z	0.5	10.0 (0)	2.5	
		eS	19 36 09	R	0.6	8.9 (0)		
22	DH	eP	20 59 41.5	Z	0.6	8.2 (0)		
22	23 49 27.0	03.5 S 145.6 E	BISMARCK SEA					
		H = 028 KM						
23	WI	eL	00 34 00	LT	30	24.0 (1)	99.0	
		eL	00 36 00	LZ	25	40.0 (1)		
		eL	00 36 00	LR	23	20.0 (1)		
		eL	00 36 00	LT	25	27.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	MN	eL	00 34 10	LZ	25	27.0 (1)	98.0	
		eL	00 34 10	LR	25	26.0 (1)		
		eL	00 34 10	LT	25	20.0 (1)		
23	01 12 52.6		10.7 N 086.5 W				OFF COAST OF COSTA RICA	
			H = 044 KM					
23	SJ	eP	01 17 27.7	Z	0.8	23.0 (1)	20.0	4.50
		eP	01 17 29	LZ	15	75.0 (0)		
		e	01 21 40	LT	18	11.0 (2)		
		eL	01 27 00	LZ	21	18.0 (2)		
		eL	01 27 00	LR	21	49.0 (2)		
		eL	01 27 00	LT	24	60.0 (2)		
23	LC	eP	01 18 47.2	Z	0.7	12.0 (0)	29.0	4.75
		eP	01 18 48	LZ	18	24.0 (1)		
		eS	01 23 42	LR	22	23.0 (1)		
		eS	01 23 42	LT	19	52.0 (1)		
		eL	01 31 05	LZ	22	50.0 (1)		
		eL	01 31 05	LR	20	19.0 (1)		
		eL	01 31 05	LT	22	53.0 (1)		
23	DH	eP	01 19 27.0	Z	0.9	63.0 (0)	33.0	5.50
		e	01 25 12	LT	22	69.0 (1)		
		eL	01 30 42	LR	20	15.0 (2)		
		eL	01 33 40	LZ	19	16.0 (2)		
		eL	01 33 40	LR	20	56.0 (1)		
		eL	01 33 40	LT	19	12.0 (2)		
23	AR	eP	01 19 41.2	Z	0.9	24.0 (0)	35.0	5.13
		e	01 25 45	LT	25	62.0 (1)		
		eL	01 33 55	LZ	20	49.0 (1)		
		eL	01 33 55	LR	15			
		eL	01 33 55	LT	19	54.0 (1)		
23	CP	eP	01 19 41.6	Z	0.9	6.9 (0)	35.0	4.58
		ePCP	01 22 12	Z	0.9	8.0 (0)		
23	FM	eP	01 19 59.5	Z	0.7	20.0 (0)	37.0	5.04
		ePCP	01 22 24	Z	0.7	20.0 (0)		
		eL	01 35 27	LZ	21	53.0 (1)		
		eL	01 35 27	LR	25	10.0 (2)		
		eL	01 35 27	LT	25	78.0 (1)		
23	TF	eP	01 20 21.2	Z	1.5	57.0 (0)	40.0	5.07
		eP	01 20 22	LZ	15	30.0 (1)		
		ePCP	01 22 29	Z	0.8	11.0 (0)		
		eS	01 26 30	LR	17	29.0 (1)		
		eLQ	01 30 37	LR	35	70.0 (1)		
		eL	01 35 40	LZ	20	58.0 (1)		
		eL	01 35 40	LR	22	14.0 (2)		
23	MN	eP	01 20 25.6	Z	0.8	26.0 (0)	40.0	5.39
		ePCP	01 22 34	Z	0.7	13.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	01 26 37	LR	22	27.0 (1)		
		eS	01 26 37	LT	20	40.0 (1)		
		eLQ	01 33 00	LT	27	12.0 (2)		
		eL	01 38 00	LZ	22	11.0 (2)		
		eL	01 38 00	LR	22	12.0 (2)		
		eL	01 38 00	LT	23	17.0 (2)		
23	WI	eP	01 20 36.3	Z	0.7	7.7 (0)	41.0	4.59
		ePCP	01 22 38	Z	0.7	4.4 (0)		
		eL	01 34 15	LT	21	82.0 (1)		
		eL	01 40 00	LZ	20	58.0 (1)		
		eL	01 40 00	LR	20	52.0 (1)		
		eL	01 40 00	LT	20	75.0 (1)		
23	MV	eP	01 20 45.9	Z	0.8	5.2 (0)	43.0	4.32
		ePCP	01 22 41	Z	1.0	8.2 (0)		
		e	01 30 30	LT	25			
		eL	01 36 05	LZ	24	30.0 (1)		
		eL	01 40 00	LZ	23	36.0 (1)		
		eL	01 40 00	LR	20	43.0 (1)		
		eL	01 40 00	LT	20			
							AVG.	4.89
23	MN	eP	03 02 59.5	Z	0.8	1.6 (0)		
23	LC	eP	06 08 42.0	Z	0.6	10.0 (0)		
23	LC	eL	06 12 54	R	0.6	6.6 (0)		
23	LC	eP	06 20 03.2	Z	0.9	3.9 (0)		
23	FM	eP	06 21 23.7	Z	0.8	12.0 (0)		
23	MN	eP	06 21 43.3	Z	1.0	3.4 (0)		
23	WI	eP	06 21 59.3	Z	0.8	2.0 (0)		
23	SJ	eP	06 22 37.5	Z	1.0	19.0 (0)		
23	SJ	eL	06 22 48	LR	23	16.0 (2)		
23	SJ	eL	06 22 48	LT	20	80.0 (1)		
23	LC	e	06 25 47	T	2.0	17.0 (0)		
23	LC	eL	06 25 47	LZ	17	52.0 (1)		
23	LC	eL	06 25 47	LT	17	41.0 (1)		
23	LC	eL	06 25 47	LR	17	48.0 (1)		
23	FM	eL	06 30 23	LR	19	76.0 (1)		
23	WI	eL	06 31 45	LR	20	46.0 (1)		
23	WI	eL	06 31 45	LT	20	89.0 (1)		
23	07 19 35.0		22.9 S 067.8 W				NORTHERN CHILE	
			H = 193 KM					
23	MN	eP	07 31 13.0	Z	1.0	2.5 (0)	78.0	4.27
23	WI	eP	07 31 22.2	Z	1.0	11.0 (0)	80.0	4.55
							AVG.	4.41

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	MN	eP	08 10 42.0	Z	0.7	1.7 (0)		
23	WI	eP	11 11 51.0	Z	0.9	3.5 (0)		
23	MN	eP	11 12 08.5	Z	0.8	2.1 (0)		
23	FM	eP	11 12 16.9	Z	0.7	10.0 (0)		
23	CP	eP	11 12 37.0	Z	1.0	4.2 (0)		
23	LC	eP	11 13 08.6	Z	0.7	1.8 (0)		
23	WI	eP	11 14 21.3	Z	0.7	8.8 (0)	1.7	
		eS	11 15 44	R	0.7	7.9 (0)		
23	MN	eP	12 20 46.0	Z	0.9	2.7 (0)		
23	LC	eP	13 15 20.5	Z	0.5	0.8 (0)		
23	LC	eL	13 16 47	R	0.6	5.5 (0)		
23	LC	eP	14 29 29.3	Z	1.0	3.6 (0)		
23	MN	eP	14 31 11.3	Z	0.9	2.7 (0)		
23	SJ	eP	14 31 25.3	Z	1.0	29.0 (0)		
23	WI	eP	14 31 33.3	Z	1.2	5.4 (0)		
23	WI	eP	14 41 52.1	Z	0.7	3.3 (0)		
23	TF	eP	15 09 30.3	Z	0.9	10.0 (0)		
23	CP	eP	15 09 34.0	Z	1.0	7.0 (0)		
23	MV	eP	15 09 41.2	Z	0.9	4.0 (0)		
23	MN	eP	15 09 49.3	Z	1.0	8.4 (0)		
23	WI	eP	15 10 00.5	Z	0.9	7.1 (0)		
23	LC	eP	15 10 12.2	Z	1.0	12.0 (2)		
23	DH	eP	16 57 50.9	Z	1.0	19.0 (0)		
23	DH	e	16 59 45	Z	1.2	64.0 (0)		
23	CP	eP	17 39 24.6	Z	0.5	21.0 (0)	1.2	
		eS	17 39 40	R	0.5	37.0 (0)		
23	WI	eP	20 30 27.3	Z	0.4	11.0 (0)	1.5	
		eS	20 30 47	R	0.5	21.0 (0)		
23	22 11 54.6		19.0 N 065.1 W				VIRGIN ISLANDS REGION	
			H =025 KM					
23	DH	eP	22 17 14.2	Z	0.8	12.0 (0)	25.0	4.60
		e	22 17 41	Z	0.4	77.0 (0)		
		eL	22 21 41	Z	0.5	36.0 (1)		
23	AR	eP	22 18 07.3	Z	0.7	4.4 (0)	30.0	4.38
		e	22 19 28	Z	0.5	77.0 (0)		
		eL	22 25 10	Z	0.6	9.9 (0)		
23	SJ	eP	22 18 19.4	Z	1.0	29.0 (0)	32.0	5.11

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	LC	eP	22 19 22.7	Z	0.7	7.3 (0)	40.0	4.49
23	FM	eP	22 20 12.4	Z	0.7	10.0 (0)	45.0	4.80
23	CP	eP	22 20 31.6	Z	0.9	3.4 (0)	48.0	4.40
23	WI	eP	22 20 45.6	Z	0.7	8.8 (0)	50.0	4.80
23	MN	eP	22 20 46.2	Z	0.7	5.1 (0)	50.0	4.56
23	TF	eP	22 20 53.3	Z	0.8	11.0 (0)	51.0	4.86
23	MV	eP	22 21 04.0	Z	0.7	3.3 (0)	52.0	4.42
							AVG.	4.64
23	23 09 12.4		14.1 S 166.8 E				NEW HEBRIDES ISLANDS	
			H =099 KM					
23	FM	eL	23 47 05	LZ	24	42.0 (1)	92.0	
		eL	23 47 05	LR	25	30.0 (1)		
		eL	23 47 05	LT	25	22.0 (1)		
23	MV	eL	23 47 37	LZ	23	51.0 (1)	85.0	
		eL	23 47 37	LR	24	25.0 (1)		
		eL	23 47 37	LT	24			
23	TF	eL	23 48 08	LZ	25	48.0 (1)	85.0	
		eL	23 48 08	LR	25	26.0 (2)		
23	MN	eL	23 48 55	LZ	22	81.0 (2)	91.0	
		eL	23 48 55	LR	24	80.0 (1)		
		eL	23 48 55	LT	23	55.0 (1)		
23	LC	eL	23 53 17	LZ	24	30.0 (1)	95.0	
		eL	23 53 17	LR	24	18.0 (1)		
		eL	23 53 17	LT	23	16.0 (2)		
24	CP	eP	03 21 52.2	Z	0.4	24.0 (0)		
24	03 59 14.4		10.4 N 085.8 W				COSTA RICA	
			H =025 KM					
24	SJ	eP	04 03 58.7	Z	0.7	80.0 (0)	21.0	5.16
24	LC	eP	04 05 16.0	Z	0.7	3.7 (0)	29.0	4.27
		e	04 05 56	Z	0.7	4.9 (0)		
24	DH	eP	04 05 50.5	Z	0.8	74.0 (0)	33.0	5.64
		e	04 06 27	Z	1.0	39.0 (0)		
24	AR	eP	04 06 06.2	Z	0.8	30.0 (0)	35.0	5.28
24	CP	eP	04 06 18.0	Z	0.8	11.0 (0)	36.0	4.79
24	FM	eP	04 06 26.8	Z	0.6	8.4 (0)	37.0	4.70
24	TF	eP	04 06 49.9	Z	0.8	10.0 (0)	40.0	4.54
		ePCP	04 08 56	Z	0.8	5.2 (0)		
24	MN	eP	04 06 53.5	Z	0.7	12.0 (0)	41.0	4.78

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
24	WI	ePCP	04 08 57	Z	0.7	3.4 (0)	42.0	4.22				
		eP	04 07 02.9	Z	0.7	3.3 (0)						
								AVG. 4.82				
24	CP	eP	12 51 19.2	Z	0.5	2.1 (0)	4.8					
		eS	12 52 17	T	0.6	12.0 (0)						
24	WI	eP	14 40 27.7	Z	0.4	26.0 (0)	1.1					
		eS	14 40 47	R	0.5	99.9 (9)						
24	16 23 10.8		10.3 N 121.5 E	SULU SEA								
								H = 021 KM				
24	TF	eL	17 12 56	LZ	25	38.0 (1)	105.0					
		eL	17 14 26	LR	25	32.0 (1)						
		eL	17 14 26	LT	25	31.0 (1)						
		eL	17 14 26	LZ	25	38.0 (1)						
24	LC	eP	20 25 28.9	Z	0.4	1.2 (0)	3.0					
		eS	20 26 07	R	0.5	23.0 (0)						
24	21 08 22.6		15.5 N 092.5 W	MEXICO-GUATEMALA BORDER								
								H = 129 KM MAG 56- BRK				
24	LC	eP	21 12 59	LZ	18	64.0 (1)	21.0					
		e	21 13 57	LZ	18	17.0 (2)						
		eS	21 16 58	LR	18	55.0 (2)						
		eS	21 16 58	LT	25	47.0 (2)						
		eL	21 18 55	LZ	32	52.0 (2)						
		eL	21 22 03	LZ	18	41.0 (2)						
		eL	21 22 03	LR	17	59.0 (2)						
		eL	21 22 03	LT	22	41.0 (2)						
		24	CP	eP	21 14 00.6	Z			0.7	15.0 (0)	28.0	4.76
				e	21 14 23	Z			1.7	12.0 (1)		
e	21 14 26			Z	1.0	51.0 (0)						
ePCP	21 17 13			Z	1.2	42.0 (0)						
24	FM	e	21 17 41	Z	0.7	8.5 (0)	29.0	5.59				
		e	21 19 36	LZ	15	12.0 (2)						
		eL	21 23 09	LZ	28	85.0 (0)						
		eP	21 14 16.1	Z	0.9	13.0 (1)						
		eP	21 14 18	LZ	18	66.0 (1)						
		e	21 14 50	Z	0.7	61.0 (0)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
24	AR	e	21 16 02	LZ	15	56.0 (1)	30.0	4.83				
		eS	21 19 15	LT	20	32.0 (2)						
		eS	21 19 15	LR	22	18.0 (2)						
		eLQ	21 20 01	LR	32	28.0 (2)						
		eL	21 28 07	LZ	15	43.0 (1)						
		eL	21 28 07	LT	17	44.0 (1)						
		eP	21 14 22.2	Z	0.8	17.0 (0)						
		eP	21 14 23	LZ	20	70.0 (1)						
		epP	21 14 45	Z	1.0	12.0 (1)						
		eS	21 19 18	LT	22	26.0 (1)						
		eS	21 19 18	LR	19	12.0 (2)						
		e	21 20 25	LT	22	28.0 (1)						
		eLQ	21 20 43	LR	25	50.0 (2)						
		24	DH	eL	21 21 10	LR			25	50.0 (2)	31.0	4.89
eL	21 21 10			LT	22	29.0 (2)						
eL	21 21 10			LZ	22	28.0 (2)						
eLR	21 23 00			LZ	35	99.9 (9)						
eP	21 14 27.2			Z	0.7	17.0 (1)						
e	21 14 51			Z	0.9	24.0 (1)						
epP	21 14 59			Z	0.8	26.0 (1)						
24	TF			eP	21 14 37.1	Z	1.0	20.0 (0)	32.0	4.78		
				eP	21 14 38	LZ	10	74.0 (1)				
				e	21 14 56	Z	1.2	40.0 (0)				
				e	21 16 21	LZ	12	86.0 (1)				
				eS	21 19 38	LR	22	21.0 (2)				
				eS	21 19 38	LT	15	13.0 (2)				
				esS	21 20 33	LT	22	27.0 (2)				
		eL	21 23 04	LR	35	12.0 (3)						
		eL	21 25 36	LR	25	34.0 (2)						
		24	MN	eP	21 14 41.3	Z	1.0	75.0 (0)			32.0	5.35
				eP	21 14 42	LZ	10	76.0 (1)				
				epP	21 15 06	Z	0.8	46.0 (0)				
				epP	21 15 08	LZ	15	51.0 (1)				
				eS	21 19 53	R	3.5	42.0 (1)				
eS	21 19 53			T	2.5	11.0 (1)						
eS	21 19 55			LT	22	22.0 (2)						
eS	21 19 55			LR	20	20.0 (2)						
eL	21 20 37			T	3.0	33.0 (1)						
eL	21 22 20			LT	40	11.0 (3)						
eL	21 29 07			LZ	999.9	99.9 (9)						
eL	21 29 07			LR	15	79.0 (2)						
eL	21 29 07			LT	20	24.0 (2)						
24	WI			eP	21 14 54.1	Z	999.9	99.9 (9)	34.0			
		eP	21 14 55	LZ	12	44.0 (1)						
		epP	21 15 20	LZ	17	49.0 (1)						
		eS	21 20 15	LR	17	21.0 (2)						
		eS	21 20 15	LT	22	27.0 (2)						
		esS	21 20 54	R	3.5	94.0 (1)						
		esS	21 20 55	LR	24	26.0 (2)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	21 25 15	LZ	35	39.0 (2)		
		eL	21 27 45	LZ	25	16.0 (2)		
		eL	21 27 45	LR	17	35.0 (2)		
		eL	21 27 45	LT	15	99.9 (9)		
							AVG.	5.03
25	FM	eP	00 05 15.1	Z	0.5	55.0 (0)		
25	00 11 52.2		14.4 S 076.1 W				NEAR SOUTHERN PERU COAST	
			H = 046 KM					
25	LC	eP	00 21 22.1	Z	1.0	11.0 (0)	54.0	4.84
25	DH	eP	00 21 31.0	Z	1.2	49.0 (0)	56.0	5.41
25	TF	eP	00 22 29.7	Z	0.7	6.4 (0)	65.0	4.82
25	MN	eP	00 22 37.0	Z	1.3	15.4 (0)	66.0	4.94
25	WI	eP	00 22 45.5	Z	1.1	29.0 (0)	68.0	5.24
25	MV	eP	00 23 51.9	Z	1.3	66.0 (0)	79.0	5.46
							AVG.	5.11
25	CP	eP	00 32 06.4	Z	999.9	99.9 (9)	1.6	
		eS	00 32 28	T	999.9	99.9 (9)		
25	CP	eP	01 00 02.5	Z	0.3	4.1 (0)	1.5	
		eS	01 00 23	T	0.3	9.2 (0)		
25	WI	eP	03 55 47.8	Z	1.0	6.7 (0)		
25	04 37 50.7		18.9 N 081.1 W				WEST OF JAMAICA	
			H = 064 KM				MAG 6.00-	PAS
25	SJ	eP	04 41 48.3	Z	0.4	72.0 (0)	17.0	5.22
		eP	04 41 50	LZ	999.9	99.9 (9)		
25	DH	eP	04 43 01.5	Z	1.8	97.0 (1)	24.0	4.97
		eP	04 43 02	LZ	999.9	99.9 (9)		
		e	04 47 20	LR	999.9	99.9 (9)		
		eL	04 51 29	R	15.2	99.9 (9)		
25	LC	eP	04 43 16.6	Z	0.7	3.6 (0)	26.0	4.04
		eP	04 43 17	LZ	20	64.0 (2)		
		ePP	04 45 00	LZ	21	50.0 (2)		
		eS	04 48 10	LR	999.9	99.9 (9)		
		eS	04 48 10	LT	18	51.0 (2)		
		eL	04 59 25	R	9.0	99.9 (9)		
25	AR	eP	04 43 31.8	Z	1.2	54.0 (0)	28.0	5.12

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	04 43 35	LZ	16	89.0 (1)		
		eS	04 48 05	LR	999.9	99.9 (9)		
		eL	04 52 00	R	16.0	99.9 (9)		
25	FM	eP	04 44 24.2	Z	1.0	43.0 (0)	33.0	5.27
		eP	04 44 30	LZ	17	20.0 (2)		
		ePP	04 45 48	LZ	20	26.0 (2)		
		eS	04 49 56	LT	24	99.9 (9)		
		eS	04 49 56	LR	25	74.0 (2)		
		eL	04 53 52	LZ	999.9	99.9 (9)		
25	CP	eP	04 44 34.3	Z	1.0	7.0 (0)	35.0	4.54
		eP	04 44 46	LZ	17	23.0 (2)		
		ePP	04 46 09	LZ	18	34.0 (2)		
		eS	04 50 25	LT	22	16.0 (3)		
		eS	04 50 25	LR	22	72.0 (2)		
		e	04 54 56	LZ	40	45.0 (3)		
		eL	05 01 24	LZ	20	16.0 (3)		
		eL	05 01 24	LR	15	19.0 (3)		
		eL	05 01 24	LT	21	97.0 (2)		
25	MN	eP	04 44 56.5	Z	0.6	4.2 (0)	37.0	4.47
		eP	04 45 02	LZ	16	29.0 (2)		
		ePP	04 46 25	LZ	999.9	99.9 (9)		
		eS	04 50 08	LR	999.9	99.9 (9)		
25	WI	eP	04 45 01.3	Z	0.8	17.0 (0)	38.0	4.96
		eP	04 45 07	LZ	15	28.0 (2)		
		ePP	04 46 43	LZ	21	99.9 (9)		
		eS	04 50 40	LR	24	99.9 (9)		
25	TF	eP	04 45 04.5	Z	1.0	29.0 (0)	38.0	5.09
		eP	04 45 06	LZ	15	23.0 (2)		
		ePP	04 46 35	LZ	19	42.0 (2)		
		eS	04 50 55	LR	999.9	99.9 (9)		
25	MV	eP	04 45 17.0	Z	1.0	22.0 (0)	40.0	4.83
		eP	04 45 23	LZ	15	29.0 (2)		
		ePP	04 47 07	LZ	22	99.9 (9)		
		e	04 51 40	LZ	17	99.9 (9)		
							AVG.	4.85
25	MN	eP	04 57 35.6	Z	0.3	1.9 (0)	1.4	
		eS	04 57 52	R	0.3	7.2 (0)		
25	06 05 15.9		14.3 S 075.5 W				COAST OF SOUTHERN PERU	
			H = 100 KM					
25	LC	eP	06 14 39.6	Z	1.0	7.2 (0)	55.0	4.66
25	DH	eP	06 14 49.1	Z	1.0	30.0 (0)	56.0	5.28
25	FM	eP	06 15 36.7	Z	1.2	14.0 (0)	63.0	4.77
25	MN	eP	06 15 53.2	Z	1.2	9.5 (0)	66.0	4.60

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	WI	eP	06 16 03.1	Z	1.0	14.0 (0)	68.0 AVG.	4.55 4.77
25	06 55 56.7		16.3 S 075.0 W				NEAR COAST OF PERU	
			H =033 KM					
25	TF	eP	09 41 01.5	Z	0.5	4.6 (0)		
25	LC	eP	11 17 09.0	Z	0.7	4.8 (0)		
25	MN	eP	11 18 45.5	Z	0.8	7.2 (0)		
25	WI	eP	11 18 58.4	Z	0.6	8.3 (0)		
25	TF	eP	13 11 46.2	Z	0.3	19.0 (0)	0.8	
		eS	13 11 57	T	0.3	28.0 (0)		
25	DH	eP	13 57 09.0	Z	0.4	6.6 (0)	1.9	
		eS	13 57 34	R	0.5	85.0 (0)		
25	LC	eP	14 45 59.0	Z	0.5	0.8 (0)		
25	MN	eP	14 47 43.7	Z	1.0	1.6 (0)		
25	LC	eL	14 48 08	T	0.6	9.2 (0)		
25	LC	eL	14 48 14	LR	16	12.0 (2)		
25	SJ	eL	14 50 10	LZ	15	31.0 (1)		
25	SJ	eL	14 50 10	LR	21	96.0 (1)		
25	SJ	eL	14 50 10	LT	16	16.0 (2)		
25	LC	eP	18 10 35.5	Z	0.2	5.7 (0)	1.5	
		eS	18 10 55	R	0.3	7.2 (0)		
25	DH	eP	18 40 09.1	Z	0.4	6.6 (0)	1.4	
		eS	18 40 28	T	0.5	92.0 (0)		
25	SJ	eP	19 16 44.5	Z	0.5	17.0 (0)		
25	SJ	e	19 17 13	Z	0.6	48.0 (0)		
25	LC	eP	20 22 58.1	Z	0.4	1.2 (0)	2.2	
		eS	20 23 37	T	0.4	3.0 (0)		
25	CP	eP	22 51 22.7	Z	0.2	7.2 (0)	1.5	
		eS	22 51 44	T	0.2	19.0 (0)		
26	MN	eP	00 37 39.9	Z	999.9	99.9 (9)		
26	MV	eP	00 37 54.9	Z	0.4	15.0 (1)	1.8	
26	TF	eP	00 38 11.8	Z	0.3	11.0 (0)	3.3	
26	WI	eP	00 38 16.0	Z	0.5	8.1 (0)	4.3	
26	MV	eS	00 38 20	T	999.9	99.9 (9)	1.8	
26	CP	eP	00 38 38.0	Z	0.5	2.1 (0)	7.0	
26	TF	eS	00 38 53	R	0.5		3.3	
26	WI	eS	00 39 08	R	0.8	12.0 (1)	4.3	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	CP	eS	00 40 09	R	0.9	15.0 (0)	7.0	
26	02 33 15.3		04.9 S 081.3 W				COAST OF NORTHERN PERU	
			H =025 KM					
26	LC	eP	02 41 26.8	Z	1.0	2.5 (0)	45.0	4.05
26	DH	eP	02 41 48.0	Z	0.8	24.0 (0)	47.0	5.30
26	AR	eP	02 42 14.5	Z	0.7	13.0 (0)	51.0	4.99
26	MN	eP	02 42 49.3	Z	0.8	6.1 (0)	56.0	4.68
26	WI	eP	02 43 00.5	Z	0.7	8.9 (0)	57.0	4.94
							AVG.	4.79
26	MN	eP	03 01 46.6	Z	0.8	3.1 (0)		
26	04 23 11.9		47.1 N 153.9 E				KURILE ISLANDS	
			H =035 KM					
26	WI	eP	04 33 22.2	Z	1.2	7.2 (0)	61.0	4.64
26	MN	eP	04 33 32.6	Z	1.0	3.3 (0)	62.0	4.45
26	AR	eP	04 34 40.4	Z	0.9	32.0 (0)	73.0	5.34
26	LC	eP	04 34 41.7	Z	0.9	2.0 (0)	73.0	4.14
26	DH	eP	04 35 27.4	Z	0.8	24.0 (0)	82.0	5.27
							AVG.	4.76
26	05 02 14.0		05.5 S 151.1 E				NEW BRITAIN	
			H =093 KM					
26	MN	eP	05 15 27.4	Z	1.0	3.3 (0)	95.0	4.72
26	07 01 01.8		05.3 S 150.8 E				NEW BRITAIN	
			H =071 KM					
26	MN	eP	07 14 16.6	Z	1.1	2.1 (0)	95.0	4.48
26	WI	eP	07 14 21.6	Z	1.3	4.6 (0)	96.0	4.85
							AVG.	4.66
26	MN	eP	07 45 12.0	Z	1.0	3.3 (0)		
26	08 14 41.8		07.5 N 082.7 W				SOUTH OF PANAMA	
			H =021 KM				MAG 6.75-	PAS

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
26	SJ	eP	08 20 07.4	Z	1.0	18.0 (2)	25.0	6.72	
		eP	08 20 11	LZ	999.9	99.9 (9)			
26	LC	eP	08 29 38.1	Z	1.0	39.0 (0)	34.0	6.18	
		eP	08 21 21.3	Z	1.0	32.0 (1)			
		eP	08 21 24	LZ	999.9	99.9 (9)			
		eS	08 26 52	R	4.0	31.0 (2)			
26	DH	eL	08 31 53	Z	8.0	78.0 (3)	35.0	6.29	
		eP	08 21 37	LZ	14	99.9 (9)			
		eP	08 21 38.5	Z	1.1	43.0 (1)			
26	CP	eL	08 32 29	R	21.5		38.0	6.18	
		eP	08 22 02.0	Z	1.6	70.0 (1)			
		eP	08 22 04	LZ	18	99.9 (9)			
		ePP	08 23 50	LZ	27	99.9 (9)			
		eS	08 28 06	R	12.0				
		eS	08 28 06	T	13.0				
26	AR	eS	08 28 15	LR	999.9	99.9 (9)	38.0	6.55	
		eP	08 22 03.5	Z					
		eP	08 22 04	LZ	13	32.0 (3)			
		ePP	08 23 33	LZ	999.9	99.9 (9)			
		eS	08 27 40	LR	999.9	99.9 (9)			
		eS	08 27 48	R	3.0	20.0 (2)			
		eS	08 27 48	T	3.0	93.0 (1)			
		ePCS	08 28 10	T	5.5	10.0 (3)			
26	FM	eP	08 22 29.3	Z	1.4	15.0 (1)	42.0	4.67	
		eP	08 22 32	LZ	999.9	99.9 (9)			
		eS	08 29 00	R	6.0	15.0 (3)			
26	TF	eP	08 32 00.0	Z	1.0	14.0 (0)	44.0	6.18	
		eL	08 38 43	Z	9.3	60.0 (3)			
26	MN	eP	08 22 51.9	Z	1.5	72.0 (1)	45.0	5.07	
		eP	08 22 52	LZ	999.9	99.9 (9)			
		eS	08 29 35	T	7.0	18.0 (3)			
		eP	08 22 54.3	Z	999.9	99.9 (9)			
26	WI	eP	08 22 57	LZ	999.9	99.9 (9)	46.0	4.69	
		eS	08 29 43	R	6.2	13.0 (3)			
		eS	08 29 43	T	6.2	75.0 (2)			
		eP	08 32 25.9	Z	1.0	26.0 (0)			
		eP	08 23 04.1	Z	999.9	99.9 (9)			
		eP	08 23 10	LZ	999.9	99.9 (9)			
		e	08 27 35	Z	5.5	64.0 (2)			
		eS	08 29 52	T	5.8	13.0 (3)			
26	MV	eS	08 29 52	R	4.6	41.0 (2)	47.0	4.87	
		eP	08 32 35.2	Z	0.8	6.9 (0)			
		eL	08 38 28	Z	8.5	65.0 (3)			
		eP	08 23 15.1	Z					
26	MV	eP	08 23 17	LZ	999.9	99.9 (9)	47.0	6.35	
		eS	08 30 09	R	7.0	30.0 (3)			
								AS .	4.87
								AVG.	6.35

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
26	MN	eP	13 20 17.7	Z	999.9	99.9 (9)			
26	WI	eP	15 25 35.8C	Z	0.3	15.0 (0)	0.6		
		eS	15 25 44	T	0.4	27.0 (0)			
26	CP	eP	16 43 41.6	Z	0.4	4.7 (0)	1.5		
		eS	16 44 02	T	0.5	31.0 (0)			
26	TF	eP	17 12 13.4	Z	999.9	99.9 (9)	1.2		
		eS	17 12 29	R	0.4				
26	MN	eP	17 12 47.2	Z	0.5	5.4 (0)	3.3		
		eS	17 13 29	R	0.6	14.0 (0)			
26	CP	eP	17 14 24.0	Z	0.5	5.2 (0)	3.5		
		eS	17 15 07	T	0.6	24.0 (0)			
26	WI	eP	19 07 14.5	Z	1.0	66.0 (0)			
26	MN	eP	20 07 05.5	Z	1.3	17.0 (0)			
26	LC	eP	20 43 34.8	Z	0.3	4.8 (0)	1.5		
		eS	20 43 54	T	0.5	11.0 (0)			
26	21 32	17.9	56.4 S 025.7 W	SANDWICH ISLANDS REGION					
								H = 025 KM	
27	01 16	50.8	21.7 N 144.4 E	N. OF MARIANA ISLANDS					
								H = 100 KM	
27	06 11	55.3	14.8 S 167.6 E	NEW HEBRIDES ISLANDS					
								H = 205 KM	
27	MV	eP	06 24 14.5	Z	0.8	3.4 (0)	86.0	4.23	
27	CP	eP	06 24 23.5	Z	0.7	5.0 (0)	88.0	4.46	
								AVG.	4.34
27	LC	eP	08 19 25.7	Z	0.9	4.0 (0)			
27	LC	eP	08 46 51.9	Z	1.0	1.7 (0)			
27	CP	eL	09 00 14	LZ	21	68.0 (1)			
27	MN	eL	09 00 16	LR	20	15.0 (1)			
27	MN	eL	09 02 05	LZ	24	33.0 (1)			
27	MN	eL	09 02 05	LR	25	25.0 (1)			
27	MN	eL	09 02 05	LT	24	27.0 (1)			
27	FM	eL	09 02 41	LZ	21	32.0 (1)			
27	FM	eL	09 03 35	LZ	25	27.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	FM	eL	09 03 35	LR	20	96.0 (0)		
27	FM	eL	09 03 35	LT	25	34.0 (0)		
27	WI	eL	09 03 47	LZ	25	17.0 (1)		
27	WI	eL	09 04 35	LZ	25	17.0 (1)		
27	WI	eL	09 04 35	LR	24	25.0 (1)		
27	WI	eL	09 04 35	LT	21	10.0 (1)		
27	TF	eP	10 06 47.5	Z	0.3	2.7 (0)		
27	WI	eL	11 46 50	LZ	23	17.0 (1)		
27	WI	eL	11 49 00	LZ	23	17.0 (1)		
27	WI	eL	11 49 00	LT	24	20.0 (1)		
27	11 51 41.0		15.5 S 167.2 E				NEW HEBRIDES ISLANDS	
			H =139 KM					
27	12 38 35.1		51.6 N 174.1 W				ANDREANOF, ALEUTIAN IS.	
			H =060 KM					
27	MV	eP	12 45 54.1	Z	0.8	8.6 (0)	39.0	4.61
		ePCP	12 48 07	Z	0.9	5.6 (0)		
		eS	12 51 50	LR	20	14.0 (1)		
		eS	12 51 50	LT	21	14.0 (1)		
		e	12 54 37	LT	21	41.0 (1)		
		eL	12 57 18	LZ	20	32.0 (1)		
		eL	12 57 18	LR	19	20.0 (1)		
		eL	12 57 18	LT	15	22.0 (1)		
27	WI	eP	12 46 03.9	Z	1.0	9.2 (0)	40.0	4.38
		eS	12 52 05	LR	19	10.0 (1)		
		eS	12 52 05	LT	21	20.0 (1)		
		e	12 55 10	LR	19	27.0 (1)		
		eL	13 01 15	LZ	18	47.0 (1)		
		eL	13 01 15	LR	18	45.0 (1)		
		eL	13 01 15	LT	18	32.0 (1)		
27	MN	eP	12 46 14.8	Z	0.7	13.0 (0)	41.0	4.86
		eL	12 52 30	LZ	20	55.0 (0)		
		eL	12 52 30	LR	25	25.0 (1)		
		eL	12 52 30	LT	23	14.0 (1)		
27	TF	eP	12 46 20.0	Z	0.8	7.9 (0)	42.0	4.55
27	FM	eP	12 46 40.8	Z	0.7	8.9 (0)	44.0	4.60
		eS	12 53 18	LR	23	19.0 (1)		
		eS	12 53 18	LT	22	17.0 (1)		
		e	12 56 44	LR	21	38.0 (1)		
		eL	13 04 00	LZ	18	13.0 (1)		
		eL	13 04 00	LR	18	17.0 (1)		
		eL	13 04 00	LT	18	54.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	CP	eP	12 46 52.7	Z	0.8	5.4 (0)	46.0	4.62
27	LC	eP	12 47 41.2	Z	1.0	7.3 (0)	52.0	4.62
27	AR	eP	12 47 56.4	Z	0.8	24.0 (0)	54.0	5.28
27	DH	eP	12 49 02.5	Z	0.8	11.0 (1)	64.0	4.96
							AVG.	4.72
27	LC	eP	12 45 07.2	Z	1.0	3.4 (0)		
27	DH	eP	13 22 20.9	Z	0.7	15.0 (0)		
27	MV	eP	14 30 38.0	Z	0.3	6.7 (0)	2.0	
27	TF	eP	14 30 50.3	Z	0.7	4.2 (0)		
27	MV	eS	14 31 05	T	0.3	3.0 (0)	2.0	
		e	14 31 10	T	1.0	16.0 (0)		
27	TF	eP	15 27 21.5	Z	0.3	2.7 (0)		
27	CP	eP	15 27 53.9	Z	0.3	0.9 (0)	2.8	
		e	15 27 61	Z	0.4	5.6 (0)		
		eS	15 28 30	R	0.4	11.0 (0)		
27	MN	eP	15 29 18.0	Z	0.8	16.0 (0)		
27	LC	eP	16 02 10.8	Z	1.0	4.9 (0)		
27	LC	e	16 03 33	Z	0.8	2.3 (0)		
27	SJ	eP	17 30 43.8	Z	1.0	20.0 (0)		
27	AR	eP	18 01 53.4	Z	0.7	6.4 (0)		
27	AR	eL	18 03 01	T	0.7	38.0 (0)		
27	LC	eP	18 13 13.4	Z	1.0	1.7 (0)		
27	19 26 34.6		13.2 S 167.1 E				SANTA CRUZ ISLANDS REG.	
			H =286 KM					
27	MV	eP	19 38 39.7	Z	0.7	5.2 (0)	85.0	4.46
		epP	19 39 35	Z	1.0	6.8 (0)		
27	CP	eP	19 38 47.8	Z	0.8	4.5 (0)	87.0	4.44
		epP	19 39 41	Z	1.3	12.0 (0)		
							AVG.	4.45
27	LC	eP	20 23 02.7	Z	0.3	7.1 (0)	1.4	
		eS	20 23 20	T	0.4	9.7 (0)		
27	DH	eP	21 48 47.3	Z	0.9	57.0 (0)		
27	DH	eP	21 57 06.6	Z	0.9	24.0 (0)		
27	DH	e	21 57 58	Z	0.9	32.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	00 05 10.8		16.2 S H = 040 KM	173.2 W	SAMOA ISLANDS REGION			
28	MV	eP	00 16 44	LZ	25	57.0 (1)	74.0	
		eS	00 25 56	LR	27			
		eS	00 25 56	LT	27	37.0 (2)		
		eSS	00 31 02	LT	26	93.0 (1)		
		eLR	00 38 20	LZ	25	44.0 (2)		
28	MN	eP	00 16 51	LZ	21	67.0 (1)	75.0	
		eS	00 26 35	LT				
		e	00 27 20	LT	30	48.0 (1)		
		eSSS	00 34 40	LT	22	70.0 (1)		
		e	00 37 25	LR	23	12.0 (1)		
		eLR	00 38 55	LZ	21	99.9 (9)		
		eL	00 41 30	LZ	22	99.9 (9)		
		eL	00 41 30	LR	23	14.0 (1)		
		eL	00 41 30	LT	23	60.0 (2)		
28	WI	eP	00 17 09.0	Z	1.1	11.0 (1)	78.0	5.78
		eP	00 17 09	LZ	20	63.0 (1)		
		e	00 37 34	LR	30	97.0 (1)		
		eLR	00 40 17	LZ	23	42.0 (2)		
28	FM	eP	00 17 16	LZ	20	63.0 (1)	80.0	
		eS	00 27 20	LR	19	54.0 (1)		
		eS	00 27 20	LT	20	92.0 (1)		
		eSS	00 32 42	LR	30	11.0 (2)		
		eSSS	00 36 00	LR	25	90.0 (1)		
		eLR	00 40 40	LZ	25	29.0 (2)		
		eL	00 45 20	LZ	20	48.0 (2)		
		eL	00 45 20	LR	21	36.0 (2)		
		eL	00 45 20	LT	21	46.0 (1)		
28	LC	eP	00 17 20.2	Z	0.9	69.0 (0)	81.0	4.60
		eP	00 17 22	LZ	21	73.0 (1)		
		eS	00 27 26	LR	25	92.0 (1)		
		eS	00 27 26	LT	23	54.0 (1)		
		eSS	00 32 43	LT	28	87.0 (1)		
		eLR	00 41 46	LZ	21	45.0 (2)		
		eL	00 46 50	LZ	18	65.0 (2)		
		eL	00 46 50	LR	18	34.0 (2)		
		eL	00 46 50	LT	18	35.0 (2)		
28	SJ	eP	00 17 45.0	Z	1.1	49.0 (0)	85.0	5.53
		eP	00 17 45	LZ	17	10.0 (2)		
		eS	00 28 00	LT	19	14.0 (2)		
		eS	00 28 00	LR	16	89.0 (1)		
		eSSS	00 37 12	LT	35	22.0 (2)		
		eLR	00 44 10	LZ	23	93.0 (1)		
		eL	00 47 15	LZ	20	11.0 (2)		
		eL	00 47 15	LR	18	92.0 (1)		
		eL	00 47 15	LT	22	56.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	AR	eP	00 18 46.4	Z	1.0	27.0 (0)	99.0	5.89
		eP	00 18 48	LZ	21			
		ePP	00 23 00	LZ	21			
		e	00 29 43	LR	18	52.0 (1)		
		ePS	00 31 50	LR	28	65.0 (1)		
		e	00 36 50	LZ	28			
		e	00 40 35	LZ	22			
		eLR	00 51 46	LZ	28			
28	CP	e	00 26 40	LT	27	27.0 (2)	73.0	
		eLR	00 38 01	LZ	22	49.0 (2)		
		eL	00 40 04	LZ	23	49.0 (2)		
		eL	00 40 04	LR	24	97.0 (1)		
		eL	00 40 04	LT	23	31.0 (2)		
28	TF	e	00 26 47	LR	24	40.0 (2)	71.0	
		eLR	00 37 10	LZ	20	93.0 (2)		
28	DH	e	00 39 13	LR	27	18.0 (2)	106.0	
		eLR	00 56 15	LZ	27	16.0 (2)		
		eL	01 03 35	LZ	19	54.0 (2)		
		eL	01 03 55	LR	19	45.0 (2)		
		eL	01 03 55	LT	17	47.0 (1)		
							AVG.	5.42
28	02 32 26.0		04.1 S H = 110 KM	079.7 W	ECUADOR			
28	SJ	eP	02 39 20.0	Z	0.7	9.6 (0)	37.0	4.81
28	LC	eP	02 40 34.8D	Z	0.8	26.0 (0)	45.0	4.98
28	AR	eP	02 41 01.4	Z	0.7	10.0 (0)	49.0	4.80
28	CP	eP	02 41 25.1	Z	0.7	4.3 (0)	52.0	4.54
		e	02 42 34	Z	0.9	4.6 (0)		
28	FM	eP	02 41 35.4	Z	0.8	11.0 (0)	53.0	4.90
28	TF	eP	02 41 41.6	Z	0.8	2.6 (0)	54.0	4.27
28	MN	eP	02 41 57.4	Z	0.7	6.5 (0)	56.0	4.74
28	WI	eP	02 42 05.8	Z	0.6	5.5 (0)	57.0	4.73
							AVG.	4.72
28	06 02 24.1		31.0 S H = 217 KM	067.8 W	SAN JUAN PROV., ARGENTINA			
28	LC	eP	06 13 31.3	Z	0.9	7.9 (0)	73.0	4.44
		eP AS	06 13 42.3	Z	1.0	9.7 (0)		4.49
28	DH	eP	06 13 41.6	Z	1.0	20.0 (0)	75.0	4.80
28	CP	eP	06 14 00.8	Z	1.0	5.7 (0)	78.0	4.26
		eP AS	06 14 11.4	Z	1.0	5.7 (0)		4.26
28	AR	eP	06 14 08.2	Z	0.7	14.0 (0)	80.0	4.82

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	FM	eP AS	06 14 19.2	Z	0.8	30.0 (0)		5.09
		eP	06 14 18.3	Z	0.9	7.2 (0)	81.0	4.42
28	TF	eP AS	06 14 29.2	Z	1.0	8.9 (0)		4.47
		eP	06 14 21.7	Z	1.0	4.2 (0)	82.0	4.14
28	MN	eP AS	06 14 33.2	Z	0.9	6.8 (0)		4.40
		eP	06 14 29.1	Z	0.8	3.0 (0)	83.0	4.09
28	WI	eP AS	06 14 40.0	Z	0.9	3.9 (0)		4.15
		eP	06 14 38.8	Z	0.8	2.7 (0)	85.0	4.18
28	MV	eP AS	06 14 49.6	Z	1.0	6.5 (0)		4.05
		eP	06 14 46.5	Z	0.9	1.4 (0)	87.0	3.81
						AS .	4.42	
						AVG.	4.33	
28	CP	eP	06 54 31.1	Z	1.0	5.7 (0)		
28	MV	eP	06 54 33.5	Z	1.0	3.3 (0)		
28	MN	eP	06 54 42.6	Z	0.8	4.0 (0)		
28	WI	eP	06 54 53.8	Z	0.8	2.7 (0)		
28	LC	eP	06 55 10.1	Z	0.8	4.6 (0)		
28	MN	eP	10 14 57.3	Z	0.7	1.6 (0)		
28	13 58 41.2		14.8 N 093.0 W			COAST OF CHIPAS, MEXICO		
			H =071 KM			MAG 4.25-		PAL
28	SJ	eP	14 01 57.0	Z	0.9	12.0 (1)	14.0	5.30
		eP	14 02 00	LZ	13	12.0 (2)		
		eLQ	14 06 25	LR	28	38.0 (2)		
		eL	14 09 30	LZ	17	15.0 (2)		
		eL	14 09 30	LR	18	78.0 (2)		
		eL	14 09 30	LT	17	16.0 (2)		
28	LC	iP	14 03 28.3C	Z	1.0	12.0 (1)	22.0	5.21
		eP	14 03 32	LZ	16	38.0 (1)		
		eS	14 07 33	LR	15	44.0 (1)		
		eS	14 07 33	LT	20	40.0 (1)		
		eLQ	14 10 41	LT	17	23.0 (2)		
		eL	14 11 13	LR	17	15.0 (2)		
		eL	14 11 13	LT	17	23.0 (2)		
28	CP	eP	14 04 27.3	Z	1.0	8.5 (0)	28.0	4.31
		ePCP	14 07 41	Z	0.7	2.9 (0)		
		eLQ	14 12 00	LR	23	16.0 (2)		
		eL	14 15 18	LZ	15	13.0 (2)		
		eL	14 15 18	LR	16	27.0 (2)		
28	FM	eL	14 15 18	LT	15	57.0 (1)		
		eP	14 04 45.7	Z	0.7	9.0 (0)	30.0	4.68
		eS	14 09 50	LR	17	26.0 (1)		
		eS	14 09 50	LT	19	37.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	AR	eLQ	14 14 47	LR	20	16.0 (2)		
		eL	14 15 35	LZ	20	31.0 (1)		
		eL	14 15 35	LR	20	16.0 (2)		
		eL	14 15 35	LT	20	69.0 (1)		
28	DH	eP	14 04 55.8	Z	0.9	16.0 (0)	31.0	4.81
		ePCP	14 07 51	Z	0.8	17.0 (0)		
28	DH	eLQ	14 15 28	LZ	28			
		eL	14 19 12	LR	14	19.0 (0)		
		eL	14 19 12	LT	14	54.0 (1)		
		eP	14 05 00.0	Z	0.8	25.0 (0)	32.0	5.05
		eL	14 14 08	LZ	30	72.0 (1)		
		eL	14 19 30	LZ	18	31.0 (2)		
28	TF	eL	14 19 30	LR	17	12.0 (2)		
		eL	14 19 30	LT	17	25.0 (2)		
		eP	14 05 02.4	Z	1.2	14.0 (0)	32.0	4.63
		eLQ	14 14 41	LR	30	97.0 (1)		
		eP	14 05 09.6	Z	1.0	29.0 (0)	33.0	5.09
		ePCP	14 07 53	Z	0.9	5.2 (0)		
28	MN	eS	14 10 30	LR	19	16.0 (1)		
		eS	14 10 30	LT	15	37.0 (1)		
		eLQ	14 14 42	LT	24	28.0 (1)		
		eL	14 17 20	LZ	20	36.0 (1)		
		eL	14 17 20	LR	19	49.0 (1)		
		eL	14 17 20	LT	18	59.0 (1)		
		eP	14 05 22.9	Z	1.0	10.0 (1)	34.0	5.63
		ePP	14 06 50	Z	1.6	33.0 (0)		
		ePP	14 06 50	LZ	15	26.0 (1)		
		eS	14 10 56	LR	15	30.0 (1)		
28	MV	eS	14 10 56	LT	16	29.0 (1)		
		eLQ	14 16 47	LT	17	26.0 (1)		
		eL	14 18 13	LZ	15	18.0 (1)		
		eL	14 18 13	LR	17	27.0 (2)		
		eL	14 18 13	LT	17	47.0 (2)		
		eP	14 05 29.5	Z	0.9	1.4 (0)	35.0	3.89
		ePCP	14 08 00	Z	1.0	3.4 (0)		
		eS	14 11 05	LR	16			
		eS	14 11 05	LT	16	31.0 (1)		
		eLQ	14 15 24	LT	17	27.0 (2)		
						AVG.	4.86	
28	MN	eP	14 39 29.8	Z	0.8	1.0 (0)		
28	WI	eP	14 39 32.8	Z	0.8	1.4 (0)		
28	WI	eP	17 11 56.0	Z	0.3	5.0 (0)	1.1	
		eS	17 12 15	T	0.4	7.5 (0)		
28	SJ	eP	17 33 00.6	Z	0.7	9.6 (0)		
28	19 43 00.3		36.9 N 141.9 E			EAST OF HONSHU, JAPAN		
			H =039 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MV	eP	19 54 23.5	Z	1.1	13.0 (0)	72.0	4.86
28	WI	eP	19 54 31.2	Z	1.3	27.0 (0)	74.0	5.04
28	MN	eP	19 54 38.1	Z	1.2	24.0 (0)	75.0	5.02
28	TF	eP	19 54 51.7	Z	1.0	17.0 (0)	77.0	5.01
28	FM	eP	19 54 57.3	Z	1.0	36.0 (0)	78.0	5.34
28	CP	eP	19 55 03.4	Z	1.0	14.0 (0)	79.0	4.87
28	LC	eP	19 55 37.7	Z	1.0	15.0 (0)	86.0	5.00
28	AR	eP	19 55 38.6	Z	1.0	20.0 (0)	86.0	5.12
						AVG.		5.03
28	LC	eP	20 17 21.4	Z	0.3	3.9 (0)	1.1	
		eS	20 17 40	T	0.6	13.0 (0)		
28	20 46 26.0		44.6 N 148.6 E			KURILE ISLANDS		
			H =032 KM					
28	MV	eP	20 56 58.3	Z	1.3	21.0 (0)	64.0	5.11
28	WI	eP	20 57 07.2	Z	1.1	11.0 (0)	65.0	4.93
28	MN	eP	20 57 15.9	Z	1.1	17.0 (0)	67.0	5.09
28	TF	eP	20 57 23.3	Z	1.0	8.4 (0)	68.0	4.80
28	CP	eP	20 57 51.9	Z	1.3	18.0 (0)	73.0	4.95
28	AR	eP	20 58 19.5	Z	0.8	13.0 (0)	78.0	5.02
28	LC	eP	20 58 21.3	Z	0.9	5.9 (0)	78.0	4.62
28	DH	eP	20 59 03.0	Z	0.6	8.3 (0)	86.0	4.98
						AVG.		4.94
28	21 54 42.4		42.5 N 142.8 E			HOKKAIDO, JAPAN		
			H =048 KM					
28	MN	eP	22 05 59.4	Z	0.7	1.6 (0)	72.0	4.11
28	LC	eP	22 07 01.7	Z	0.7	1.2 (0)	83.0	4.09
						AVG.		4.10
28	LC	eP	22 58 48.8	Z	1.0	2.4 (0)		
29	MN	eL	00 28 35	LZ	33	22.0 (1)		
29	MN	eL	00 31 00	LZ	22	16.0 (1)		
29	MN	eL	00 31 00	LT	22	17.0 (1)		
29	LC	eP	02 39 50.3	Z	0.3	10.0 (0)	1.5	
		eS	02 40 10	R	0.3	11.0 (0)		
29	03 37 24.4		25.5 N 125.4 E			RYUKYU ISLANDS		
			H =184 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	WI	eP	04 44 19.0	Z	1.0	4.3 (0)		
29	LC	eP	04 50 26.8	Z	1.0	2.4 (0)		
29	AR	eP	06 15 50.9	Z	0.7	8.1 (0)		
29	LC	eP	06 55 26.6	Z	0.7	12.0 (0)		
29	LC	eL	06 57 20	Z	0.7	5.0 (0)		
29	TF	eP	07 10 21.0	Z	0.3	8.3 (0)	0.9	
		eS	07 10 33	T	0.3	26.0 (0)		
29	08 57 46.1		23.6 N 114.3 E			KWANGTUNG PROV. CHINA		
			H =065 KM					
29	WI	eP	09 23 07.8	Z	0.7	2.2 (0)		
29	MV	eP	09 47 50.3	Z	0.5	25.0 (0)		
29	LC	eL	12 06 45	LZ	22	28.0 (1)		
29	LC	eL	12 06 45	LR	23	92.0 (1)		
29	LC	eL	12 06 45	LT	22	30.0 (1)		
29	LC	eP	13 11 06.7	Z	0.8	11.0 (0)		
29	MN	eP	13 12 47.4	Z	1.0	4.1 (0)		
29	WI	eP	13 13 01.5	Z	1.0	6.4 (0)		
29	LC	e	13 14 53	Z	0.8	3.0 (0)		
29	MN	e	13 16 34	Z	1.0	3.3 (0)		
29	WI	e	13 16 47	Z	0.8	3.4 (0)		
29	MN	eLQ	13 23 20	LT	30	28.0 (1)		
29	WI	eL	13 25 00	LZ	15	17.0 (1)		
29	WI	eL	13 25 00	LR	17	24.0 (1)		
29	WI	eL	13 25 00	LT	20	24.0 (1)		
29	MN	eL	13 28 55	LZ	15	26.0 (1)		
29	MN	eL	13 28 55	LR	20	20.0 (1)		
29	MN	eL	13 28 55	LT	20	43.0 (1)		
29	MV	eP	14 21 32.5	Z	0.5	25.0 (0)	1.2	
		eS	14 21 48	R	0.5	25.0 (1)		
29	CP	eP	14 46 07.5	Z	0.3	4.6 (0)	0.8	
		eS	14 46 18	R	0.3	16.0 (0)		
29	AR	eP	14 58 33.8	Z	1.0	23.0 (0)		
29	MN	eP	15 24 10.2	Z	0.6	3.4 (0)	3.2	
		eS	15 24 42	R	0.6	3.9 (0)		
29	18 19 49.9		41.4 S 173.2 E			SOUTH ISLAND NEW ZEALAND		
			H =075 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	LC	eP eS	21 05 34.9 21 05 54	Z R	0.3 0.4	16.0 (0) 23.0 (0)	1.5	
29	FM	eP	23 55 46.1	Z	0.5	26.0 (0)		
30	00 46 31.7		37.1 S 072.4 W H =030 KM				COAST OF SOUTHERN CHILE	
30	LC	eP	00 58 16.5	Z	0.6	1.0 (0)	76.0	4.03
30	LC	eP	01 03 48.0	Z	0.3	0.8 (0)		
30	LC	eP	02 52 13.7	Z	0.6	1.0 (0)		
30	CP	eP eS	05 34 29.9 05 34 40	Z T	0.2 0.3	16.0 (0) 27.0 (0)	0.7	
30	06 58 35.6		02.5 S 077.0 W H =146 KM				ECUADOR-PERU BORDER	
30	LC	eP	07 06 36.4	Z	0.7	4.3 (0)	45.0	4.15
		epP	07 07 09	Z	0.7	3.7 (0)		
30	MN	eP	07 08 00.0	Z	0.5	1.2 (0)	56.0	4.04
		epP	07 08 32	Z	1.0	4.1 (0)		
30	WI	eP	07 08 18.8	Z	0.6	2.3 (0)	58.0	4.25
							AVG.	4.14
30	CP	eP	08 24 53.4	Z	0.5	3.3 (0)		
30	SJ	eL	10 22 51	LZ	12	28.0 (2)		
30	SJ	eP	10 22 53.2	Z	0.7	9.7 (0)		
30	SJ	e	10 23 55	Z	0.8	21.0 (0)		
30	LC	eP	10 24 25.2	Z	0.9	14.0 (0)		
30	LC	e	10 24 32	LZ	15	52.0 (1)		
30	MN	eP	10 26 06.6	Z	1.0	6.5 (0)		
30	WI	eP	10 26 19.8	Z	0.9	13.0 (0)		
30	SJ	eL	10 27 07	LR	28	47.0 (2)		
30	WI	e	10 27 45	Z	3.3			
30	LC	e	10 28 38	LZ	15	52.0 (1)		
30	MN	e	10 28 52	Z	1.0	1.6 (0)		
30	WI	e	10 28 55	Z	0.8	1.4 (0)		
30	SJ	eL	10 30 15	LZ	16	18.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MN	e	10 31 30	LT	15	30.0 (1)		
30	LC	eL	10 31 54	LR	18	13.0 (2)		
30	LC	eL	10 32 05	LZ	21	51.0 (1)		
30	LC	eL	10 33 20	LZ	15	16.0 (2)		
30	LC	eL	10 33 20	LR	14	35.0 (2)		
30	LC	eL	10 33 20	LT	15	15.0 (2)		
30	MN	eLQ	10 35 07	LT	39	56.0 (1)		
30	DH	eLR	10 35 40	LZ	37	64.0 (1)		
30	FM	eL	10 36 16	LR	20	15.0 (2)		
30	SJ	eL	10 37 50	LT	25	39.0 (2)		
30	LC	eP	10 38 03.8	Z	0.6	1.0 (0)		
30	WI	eL	10 38 12	LT	16	32.0 (2)		
30	FM	eLR	10 38 22	LZ	13	12.0 (2)		
30	FM	eL	10 39 22	LZ	16	13.0 (2)		
30	FM	eL	10 39 22	LT	16	18.0 (2)		
30	FM	eL	10 39 22	LR	15	74.0 (1)		
30	WI	eP	10 39 58.8	Z	0.6	0.9 (0)		
30	DH	eL	10 40 10	LZ	17	36.0 (2)		
30	DH	eL	10 40 10	LT	17	27.0 (2)		
30	DH	eL	10 40 10	LR	17	22.0 (2)		
30	WI	eLR	10 40 38	LZ	14	70.0 (1)		
30	WI	eL	10 42 50	LZ	15	35.0 (2)		
30	WI	eL	10 42 50	LR	15	40.0 (2)		
30	WI	eL	10 42 50	LT	16	68.0 (1)		
30	MN	eLR	10 47 03	LZ	25	35.0 (1)		
30	10 51 03.2		39.7 N 141.8 E H =037 KM				HONSHU, JAPAN	
30	MN	eP	11 02 32.5	Z	0.7	0.8 (0)	73.0	4.85
30	WI	eP	11 02 37.7	Z	1.1	42.0 (0)	74.0	5.31
30	LC	eP	11 03 32.5	Z	0.9	1.2 (0)	84.0	4.01
							AVG.	4.72
30	MN	eL	10 51 50	LZ	14	42.0 (2)		
30	MN	eL	10 51 50	LR	14	38.0 (2)		
30	MN	eL	10 51 50	LT	13	22.0 (2)		
30	LC	eP	10 52 24.3	Z	0.6	1.0 (0)		
30	WI	eP	10 54 18.8	Z	0.8	1.4 (0)		
30	LC	eP	11 13 36.9	Z	0.5	2.2 (0)		
30	MN	eP	11 15 18.2	Z	0.9	1.3 (0)		
30	WI	eP	11 15 31.5	Z	0.6	1.8 (0)		
30	LC	e	11 21 26	Z	1.0	2.4 (0)		
30	WI	e	11 22 21	Z	1.0	3.3 (0)		
30	CP	eP	11 25 32.1	Z	1.0	2.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	FM	eP	11 25 43.2	Z	0.9	7.4 (0)		
30	LC	eP	13 19 23.8	Z	0.8	0.4 (0)		
30	WI	eP	13 20 57.0	Z	0.5	0.8 (0)		
30	14 04 38.2		19.9 S 176.9 W				TONGA ISLANDS	
			H = 033 KM					
30	CP	eP	14 16 38.1	Z	0.9	5.7 (0)	79.0	4.55
30	MV	eP	14 16 41.0	Z	1.0	5.1 (0)	79.0	4.44
30	MN	eP	14 16 48.7	Z	0.9	3.9 (0)	81.0	4.37
30	WI	eP	14 16 59.9	Z	0.6	2.8 (0)	83.0	4.57
30	LC	eP	14 17 14.5	Z	1.0	6.0 (0)	86.0	4.61
							AVG.	4.50
30	MN	eP	15 13 50.5	Z	0.6	1.0 (0)		
30	LC	eP	16 37 46.5	Z	0.3	1.2 (0)	3.0	
		eS	16 38 24	R	0.4	5.0 (0)		
30	LC	eLR	16 41 02	LZ	25	93.0 (0)		
30	WI	eP	16 54 12.9	Z	1.0	3.3 (0)		
30	LC	eL	16 43 20	LZ	24	7.3 (0)		
30	LC	eL	16 43 20	LR	22	92.0 (0)		
30	LC	eL	16 43 20	LT	22	15.0 (1)		
30	DH	eL	16 55 48	LZ	30	34.0 (1)		
30	DH	eL	16 59 48	LZ	23	33.0 (1)		
30	DH	eL	16 59 48	LR	22	22.0 (1)		
30	17 16 44.4		03.3 S 143.9 E				N. COAST OF NEW GUINEA	
			H = 025 KM				MAG 6.75-7. PAS	
30	MV	eP	17 30 12.2	Z	2.0	10.0 (1)	96.0	5.00
		eP	17 30 14	LZ	17	19.0 (2)		
		ePP	17 34 09	Z	1.5	85.0 (0)		
		ePP	17 34 10	LZ	20	22.0 (2)		
30	TF	eP	17 30 17.5	Z	1.0	17.0 (0)	97.0	4.61
		eP	17 30 18	LZ	17	71.0 (2)		
		ePP	17 34 16	T	2.0	11.0 (1)		
		ePP	17 34 18	LZ	17	92.0 (2)		
30	WI	eP	17 30 25.7	Z	0.7	7.7 (0)	100.0	5.44
		eP	17 30 28	LZ	20	12.0 (2)		
		ePP	17 34 34	Z	2.0	17.0 (1)		
		ePP	17 34 35	LZ	16	46.0 (2)		
		eSKS	17 41 12	LT	19	67.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePS	17 43 32	LT	999.9	99.9 (9)		
		eP ¹ P ¹	17 55 16	Z	2.0	47.0 (0)		
		eL	18 01 00	LR	999.9	99.9 (9)		
30	CP	eP	17 30 31.1	Z	1.0	7.1 (0)	100.0	5.25
		eP	17 30 35	LZ	19	10.0 (2)		
		e	17 33 41	Z	1.2	16.0 (0)		
		ePP	17 34 44	Z	2.2	19.0 (1)		
		ePP	17 34 49	LZ	19	35.0 (2)		
		ePS	17 43 44	LT	22	99.9 (9)		
		eSS	17 48 49	LT	999.9	99.9 (9)		
30	FM	eP	17 30 45.7	Z	0.8	5.7 (0)	102.0	5.28
		eP	17 30 50	LZ	20	67.0 (1)		
		ePP	17 34 57	LZ	22	21.0 (2)		
		eSKS	17 41 31	LT	18	42.0 (2)		
30	LC	ePD	17 31 10.4	Z	1.0	2.4 (0)	109.0	5.38
		ePD	17 31 16	LZ	21	66.0 (1)		
		ePP	17 35 42	LZ	19	28.0 (2)		
		ePP	17 35 44	Z	2.0	14.0 (1)		
		eSKS	17 42 00	LR	17	37.0 (2)		
		ePS	17 45 02	LR	999.9	99.9 (9)		
		ePKKP	17 46 40	Z	0.8	17.0 (0)		
		eSS	17 51 10	LR	999.9	99.9 (9)		
		eL	18 06 02	LZ	999.9	99.9 (9)		
30	SJ	ePD	17 31 40	LZ	20	83.0 (1)	116.0	
		eP ¹	17 35 25.0	Z	0.8	12.0 (0)		
		ePP	17 36 21	Z	1.6	22.0 (1)		
		ePP	17 36 29	LZ	17	42.0 (2)		
		ePKKP	17 45 57	Z	1.0	19.0 (0)		
30	AR	eP ¹	17 35 32.3	Z	0.8	24.0 (0)	117.0	
		e	17 37 46	Z	2.0	45.0 (1)		
30	DH	eP ¹	17 35 52.1	Z	1.0	58.0 (0)	128.0	
		ePP	17 37 52	Z	2.0	55.0 (1)		
		ePP	17 37 52	LZ	18	29.0 (2)		
		eSKP	17 39 10	LZ	17	23.0 (2)		
		eSKKS	17 44 47	LR	20	23.0 (2)		
		eSS	17 55 26	LT	22	99.9 (9)		
		eL	18 15 50	LZ	999.9	99.9 (9)		
							AVG.	5.30
30	MV	eP	17 47 34.5	Z	0.9	3.3 (0)		
30	DH	eP	18 12 27.0	Z	0.4	6.4 (0)	1.7	
		eS	18 12 51	T	0.5	21.0 (0)		
30	LC	eP	18 44 58.9	Z	0.2	14.0 (0)	1.5	
		eS	18 45 18	R	0.3	9.8 (0)		
30	AR	eP	18 53 53.4	Z	0.3	4.1 (0)	0.2	
		eS	18 53 58	R	0.4	48.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	18 57 50.7		06.6 N 073.0 W H = 204 KM			CENTRAL COLUMBIA		
30	SJ	eP	19 04 00.9	Z	0.6	32.0 (0)	32.0	5.22
30	DH	eP	19 04 33.4	Z	0.7	34.0 (0)	35.0	5.08
30	LC	tP	19 05 14.3D	Z	0.7	88.0 (0)	41.0	5.39
		eSCP	19 10 50	Z	0.6	1.5 (0)		
		ePCS	19 11 08	R	2.0	18.0 (0)		
30	AR	eP	19 05 18.8	Z	0.6	17.0 (0)	41.0	4.74
30	CP	eP	19 06 13.8	Z	0.5	1.5 (0)	48.0	3.67
30	FM	eP	19 06 14.5	Z	0.5	6.6 (0)	48.0	4.32
30	TF	eP	19 06 42.2	Z	0.7	5.1 (0)	52.0	4.16
30	WI	eP	19 06 47.2	Z	0.7	10.0 (0)	53.0	5.55
30	MV	eP	19 07 00.2	Z	0.5	3.1 (0)	54.0	4.58
						AVG.		4.74
30	MV	eP	19 43 50.6	Z	0.9	2.8 (0)		
30	WI	eP	19 43 59.2	Z	1.0	2.2 (0)		
30	LC	eP	19 45 37.8	Z	1.0	2.4 (0)		
30	AR	eP	19 45 55.2	Z	0.6	3.9 (0)		
30	DH	eP	19 47 03.2	Z	0.6	8.2 (0)		
30	20 18 49.3		05.0 N 076.3 W H = 045 KM			WESTERN COLUMBIA MAG 6.75- PAS		
30	SJ	eP	20 24 52.6	Z	0.7	30.0 (1)	30.0	6.19
		eP	20 24 53	LZ	999.9	99.9 (9)		
		e	20 25 27	Z	0.7	34.0 (1)		
		e	20 28 41	Z	1.6	89.0 (1)		
30	DH	eP	20 26 00.0	Z	0.6	32.0 (1)	37.0	6.14
		eP	20 26 00	LZ	999.9	99.9 (9)		
30	LC	eP	20 26 14.8	Z	0.9	53.0 (0)	39.0	5.31
		eSCP	20 32 04	Z	1.8	48.0 (1)		
		eP	20 26 20	LZ	999.9	99.9 (9)		
30	AR	eP	20 26 37.2	Z	0.5	67.0 (0)	42.0	5.67
		e	20 33 40	T	2.2	14.0 (1)		
30	CP	eP	20 27 13.3	Z	1.2	18.0 (0)	46.0	4.89
		eP	20 27 14	LZ	19	99.9 (9)		
		eP+P	20 58 34.3	Z	1.2	6.9 (0)		
30	FM	eP	20 27 17.9	Z	1.3	60.0 (1)	48.0	6.43
		eP	20 27 22	LZ	21	99.9 (9)		
30	TF	eP	20 27 42.2	Z	1.2	48.0 (0)	50.0	5.32
		eP	20 27 42	LZ	999.9	99.9 (9)		
30	WI	eP	20 27 51.3	Z	0.6	44.0 (0)	51.0	5.61
		eP	20 27 55	LZ	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MV	eSCP eP e	20 32 55 20 28 06.5 20 33 01.0	Z Z Z	1.5 1.3 1.5	22.0 (1) 20.0 (1) 10.0 (1)	53.0	5.93
							AVG.	5.72
30	WI	eP	20 58 14.0	Z	1.5	11.0 (0)		
30	MV	eP	20 58 41.0	Z	1.0	3.4 (0)		
30	WI	eP	21 05 19.1	Z	1.0	2.2 (0)		
30	LC	eP	21 07 10.1	Z	0.3	2.0 (0)	1.4	
		eS	21 07 17	R	0.3	8.5 (0)		
30	SJ	eP	21 46 43.3	Z	1.1	50.0 (0)		
30	LC	eP	21 46 44.1	Z	0.2	12.0 (0)	1.5	
		eS	21 47 04	R	0.2	6.5 (0)		
30	SJ	e	21 52 30	Z	1.1	37.0 (0)		
30	SJ	e	21 58 43	Z	1.0	29.0 (0)		
30	CP	eP	22 24 30.4	Z	0.2	12.0 (0)	4.5	
		eS	22 24 36	T	0.2	9.7 (0)		
31	01 25 32.7		36.5 N 022.7 E H = 109 KM			NEAR S. COAST OF GREECE		
31	MV	eP	01 29 32.0	Z	0.7	3.5 (0)		
31	WI	eP	01 29 37.3	Z	1.3	9.1 (0)		
31	MN	eP	01 29 49.2	Z	0.7	3.0 (0)		
31	LC	eP	01 31 03.5	Z	0.8	2.2 (0)		
31	DH	eP	01 31 43.8	Z	0.8	12.0 (0)		
31	WI	eP	02 06 37.1	Z	0.5	61.0 (0)	4.3	
		eS	02 07 30	T	999.9	99.9 (9)		
31	02 19 05.2		03.2 S 144.1 E H = 020 KM			N. COAST OF NEW GUINEA		
31	MN	eP	02 32 44.5	Z	1.0	3.3 (0)	99.0	4.80
		eSS	02 51 20	LT	25	29.0 (1)		
		eLQ	02 59 47	LR	35	53.0 (1)		
		eLR	03 03 50	LZ	35	13.0 (2)		
		eL	03 05 50	LZ	25	14.0 (2)		
		eL	03 05 50	LR	25	98.0 (1)		
		eL	03 05 50	LT	25	78.0 (1)		
31	TF	eLR	03 03 05	LZ	22	20.0 (2)	96.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	AR	eL	03 03 05	LR	22	10.0 (2)		
		eSS	02 55 45	LT	25	34.0 (1)	118.0	
		eLR	03 03 25	LZ	40	13.0 (2)		
		eL	03 17 00	LZ	25	15.0 (2)		
		eL	03 17 00	LR	25	46.0 (1)		
		eL	03 17 00	LT	25	97.0 (0)		
31	MV	eLR	03 02 35	LZ	35	13.0 (2)	96.0	
		eL	03 04 00	LZ	25	11.0 (2)		
		eL	03 04 00	LR	25	51.0 (1)		
		eL	03 04 00	LT	25	57.0 (1)		
31	WI	eL	03 03 48	LT	30	13.0 (2)	98.0	
31	FM	eLR	03 07 00	LZ	25	62.0 (1)	102.0	
		eL	03 07 00	LR	25	40.0 (1)		
		eL	03 07 00	LT	25	45.0 (1)		
31	SJ	eL	03 08 10	LT	35	17.0 (2)	112.0	
		eL	03 15 00	LZ	25	46.0 (1)		
		eL	03 15 00	LR	25	15.0 (2)		
		eL	03 15 00	LT	25	62.0 (1)		
31	LC	eL	03 08 53	LZ	30	64.0 (1)	108.0	
		eL	03 10 30	LZ	25	32.0 (1)		
		eL	03 10 30	LR	25	46.0 (1)		
		eL	03 10 30	LT	25	98.0 (0)		
31	DH	eL	03 19 25	LZ	33	10.0 (2)	127.0	
		eL	03 26 30	LZ	22	17.0 (2)		
		eL	03 26 30	LR	22	86.0 (1)		
		eL	03 26 30	LT	22	74.0 (1)		
							AVG.	4.80
31	LC	eP	02 49 04.5	Z	0.8	2.3 (0)		
31			05 09 17.5				32.5 N 132.1 E	COAST OF SHIKOKU, JAPAN
							H = 033 KM	
31	MV	eP	05 21 32.3	Z	1.3	11.0 (0)	81.0	4.66
31	WI	eP	05 21 39.5	Z	1.0	3.3 (0)	83.0	4.32
31	MN	eP	05 21 45.5	Z	1.2	6.8 (0)	84.0	4.55
31	TF	eP	05 21 47.5	Z	1.0	8.2 (0)	84.0	4.82
31	FM	eP	05 22 02.3	Z	0.8	14.0 (0)	87.0	5.18
							AVG.	4.70
31			05 13 04.1				18.8 N 120.8 E	NEAR NORTH COAST OF LUZON
							H = 039 KM	
31	MV	eP	05 26 41.0	Z	0.9	8.4 (0)	99.0	5.52

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	05 30 31	Z	1.5	17.0 (0)		
		eLQ	05 54 00	LT	35	82.0 (1)		
		eLR	05 58 30	LZ	30	10.0 (2)		
		eL	06 00 40	LZ	25	12.0 (2)		
		eL	06 00 40	LR	25	63.0 (1)		
		eL	06 00 40	LT	25	39.0 (1)		
31	WI	eP	05 26 47.6	Z	1.4	28.0 (0)	100.0	5.71
31	MN	eP	05 26 52.3	Z	1.6	19.0 (0)	101.0	5.41
		eP	05 26 55	LZ	20	17.0 (1)		
		ePP	05 31 00	LZ	20	17.0 (1)		
		eSKS	05 37 48	LR	21	32.0 (1)		
		e	05 40 53	LR	23	49.0 (1)		
		eLQ	05 55 38	LT	32	96.0 (1)		
		eLR	06 00 10	LZ	30	13.0 (2)		
		eL	06 03 30	LZ	22	11.0 (2)		
		eL	06 03 30	LR	22	74.0 (1)		
		eL	06 03 30	LT	22	54.0 (1)		
31	SJ	eP†	05 31 56.8	Z	0.7	14.0 (0)	120.0	
		eL	06 14 48	LT	25	74.0 (1)		
		eL	06 21 40	LZ	25	53.0 (1)		
		eL	06 21 40	LR	25	19.0 (2)		
		eL	06 21 40	LT	25	98.0 (1)		
31	LC	eP†	05 31 40.0	Z	0.8	2.3 (0)	110.0	
		ePP	05 32 15	Z	1.7	17.0 (0)		
		ePKKP	05 42 42	Z	1.3	10.0 (0)		
		eL	06 05 38	LZ	30	85.0 (1)		
		eL	06 11 50	LZ	20	32.0 (1)		
		eL	06 11 50	LR	22	18.0 (1)		
31	TF	eLR	05 59 45	LZ	25	14.0 (1)	101.0	
		eL	05 59 45	LR	25	62.0 (1)		
31	AR	eL	06 12 00	LZ	25	94.0 (1)	111.0	
		eL	06 12 00	LR	25	80.0 (1)		
		eL	06 12 00	LT	25	78.0 (1)		
31	DH	eL	06 15 00	LZ	28	11.0 (2)	116.0	
		eL	06 19 00	LZ	25	96.0 (1)		
		eL	06 19 00	LR	25	38.0 (1)		
		eL	06 19 00	LT	25	32.0 (1)		
							AVG.	5.54
31	AR	eP	05 42 44.6	Z	1.3	40.0 (0)		
31			07 22 46.1				40.1 N 143.0 E	EAST OF HONSHU, JAPAN
							H = 066 KM	
31	MN	eP	09 00 14.8	Z	0.7	1.7 (0)		

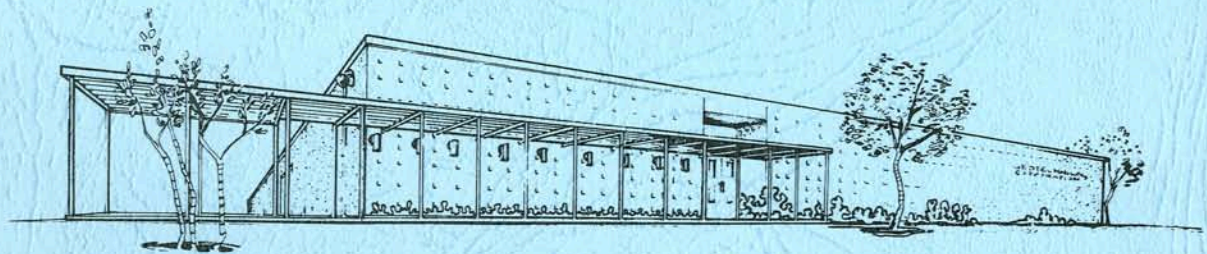
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	11 25	05.5	19.7 S H = 270 KM	067.7 W	SOUTHERN BOLIVIA			
31	DH	eP	11 35 02.6	Z	0.6	8.3 (0)	63.0	3.54
31	LC	eP	11 35 11.0	Z	1.0	3.6 (0)	64.0	4.07
31	CP	eP	11 35 48.0	Z	0.8	7.1 (0)	69.0	4.45
31	FM	eP	11 36 02.5	Z	0.8	14.0 (0)	72.0	4.74
31	TF	eP	11 36 12.5	Z	1.0	16.0 (0)	74.0	4.70
31	MN	eP	11 36 17.5	Z	0.9	6.8 (0)	75.0	4.38
31	WI	eP	11 36 27.0	Z	0.9	14.0 (0)	77.0	4.69
31	MV	eP	11 36 30.8	Z	0.7	2.6 (0)	77.0	4.07
							AVG.	4.33
31	MN	eP	11 45 17.0	Z	1.0	4.2 (0)		
31	WI	eP	11 45 30.0	Z	1.3	6.9 (0)		
31	LC	eP	11 45 45.2	Z	1.0	6.1 (0)		
31	LC	eP	13 05 34.6	Z	0.7	1.2 (0)		
31	DH	eP	13 16 30.5	Z	0.3	19.0 (0)	1.8	
		eS	13 16 55	R	0.4	37.0 (0)		
31	MV	eP	14 00 29.8	Z	0.3	6.7 (0)	1.8	
		eS	14 00 54	T	0.4	7.4 (0)		
31	MN	eP	14 30 17.2	Z	0.3	6.5 (0)	0.9	
		eS	14 30 29	R	0.4	7.0 (0)		
31	LC	eP	17 07 24.1	Z	0.3	36.0 (0)	3.0	
		eS	17 08 02	R	0.3	4.9 (0)		

W. L. R. L.

Bulletin No. 8
August 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM FOR AUGUST 1962



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, the Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except the unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

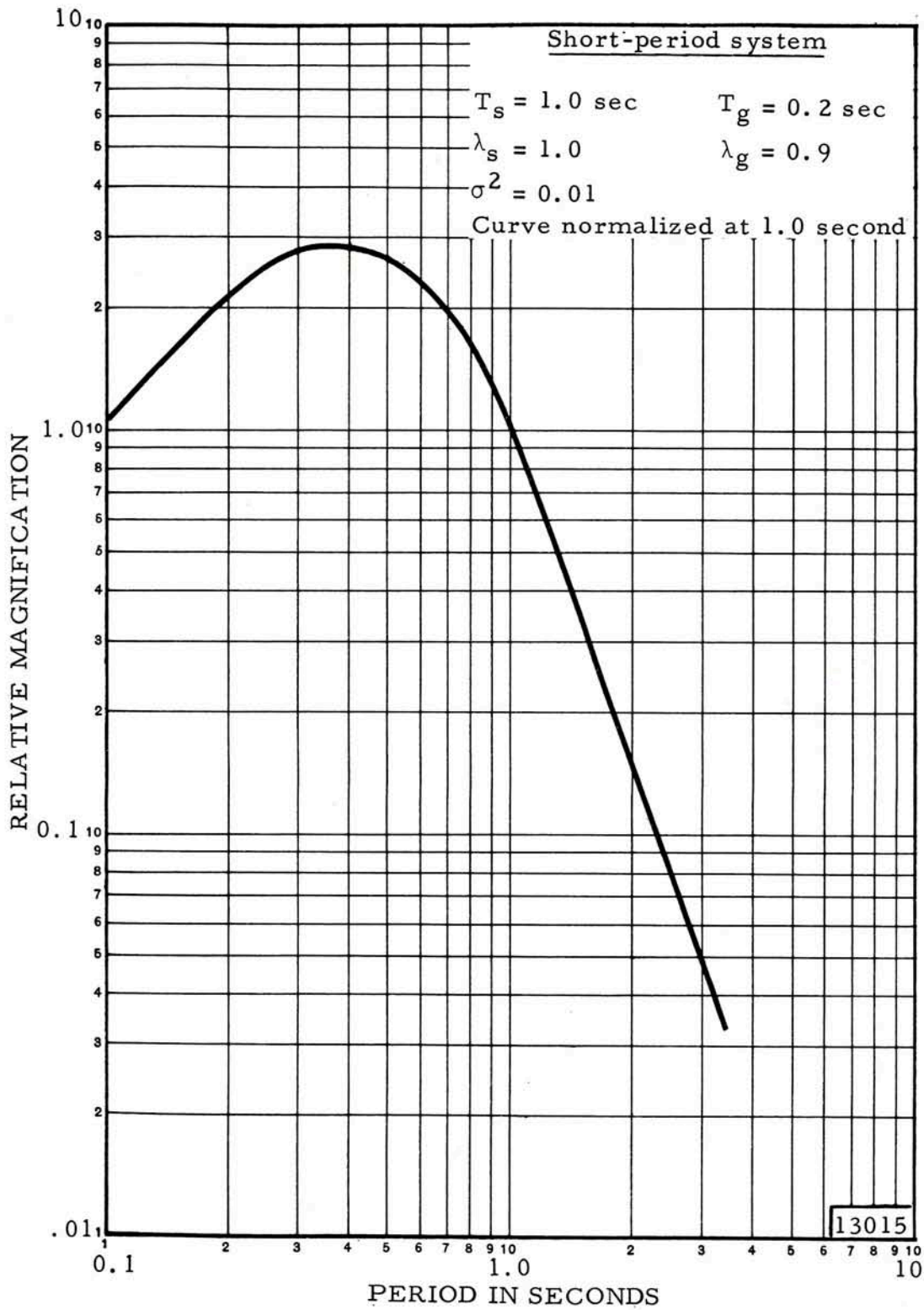


Figure 1. Frequency response of the short-period seismograph system

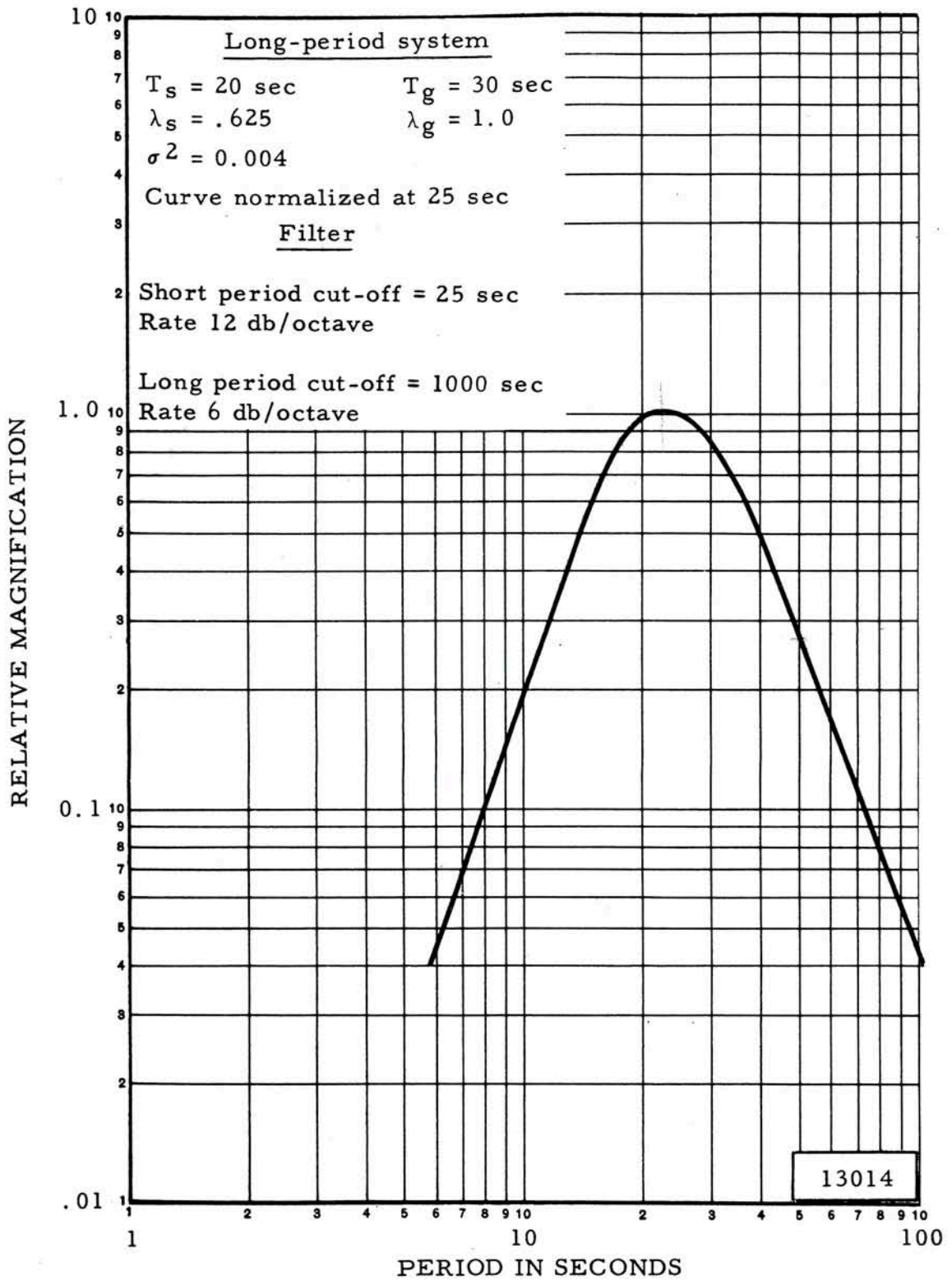


Figure 2. Frequency response of the long-period seismograph system

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
AR	Aurora, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.

b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.

c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

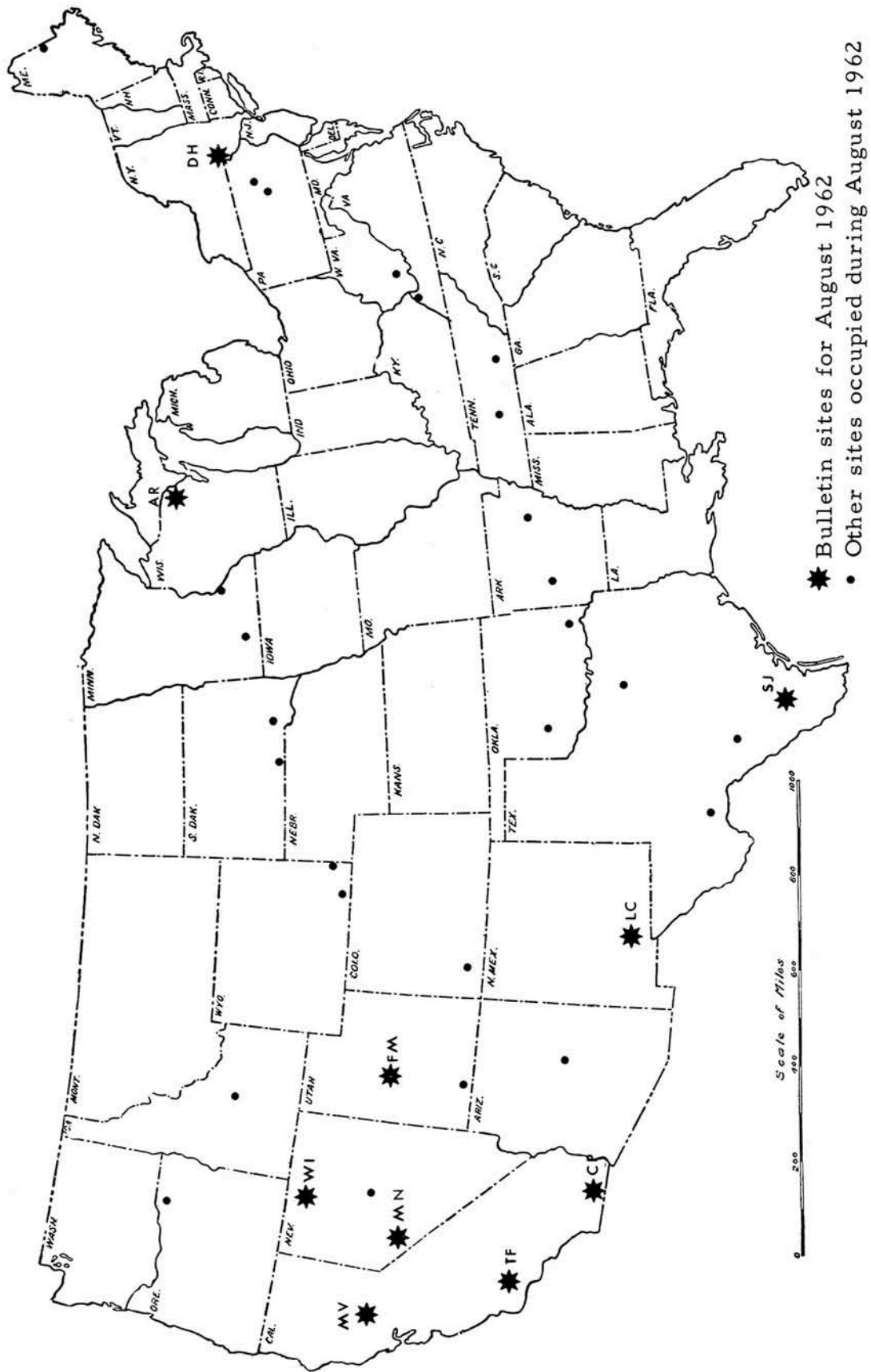


Figure 3. LRS M Program Sites

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

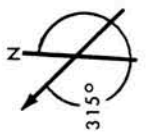
All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables.

TABLE 1

LRSM SITE INFORMATION

Site Designation	Site Location	Horizontal seismometer orientation		Site Coordinates	Elevation	Rock Type
		Azimuth from True North in Degrees*				
		Radial	Trans - verse			
SJ TX	San Jose, Texas	127	217	N 27 36 43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98 18 46	1.585	Limestone
CP CL	Campo, California	182	272	N 32 43 44	1.189	Granite
MV CL	Marysville, California	295	025	W 116 22 16	0.183	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 39 12 47	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 121 17 35	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 41 21 02	1.890	Limestone
AR WS	Aurora, Wisconsin	063	153	W 117 27 30	0.366	Gneiss
DH NY	Delhi, New York	095	185	N 38 26 10	0.652	Sandstone
TF CL	Taft, California	235	325	W 118 08 53	0.792	Sandstone
				N 39 13 06		
				W 112 12 25		
				N 45 42 48		
				W 88 08 32		
				N 42 14 39		
				W 74 53 18		
				N 35 09 49		
				W 119 58 03		



*When earth moves in direction shown, trace moves up.

P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log 10 A + B$$

where: m = Unified Magnitude

A = 1/2 P-P amplitude in millimicrons/second of the
"P" phase (initial arrival)

B = Log function of distance and depth.

The average magnitude ($\frac{\text{sum of station magnitudes}}{\text{number of stations}}$) is listed on the last line

of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (h) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS),
Berkeley (BRK), or Palisades (PAL)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1

DCS/Operations

Headquarters United States Air Force

Washington 25, D.C.

ATTENTION: Captain N. G. Maddox, Project Officer

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	eP	00 27 20.0	Z	999.9	99.9 (9)		
1	LC	eP	01 18 41.6	Z	0.4	6.5 (0)	1.5	
		eS	01 19 00	T	0.5	31.0 (0)		
1	MN	eP	02 02 18.7	Z	0.3	13.0 (0)		
1	WI	eP	02 02 50.0	Z	0.5	2.4 (0)	2.1	
		eS	02 03 18	T	0.5	11.0 (0)		
1	MN	eP	02 08 41.6	Z	999.9	99.9 (9)		
1	WI	eP	02 09 37.0	Z	0.5	4.0 (0)	4.9	
		eS	02 10 36	T	0.5	11.0 (0)		
1	MV	eP	02 57 31.0	Z	0.5	3.8 (0)	2.8	
1	WI	eP	02 57 44.2	Z	0.4	0.4 (0)	4.7	
		e	02 57 53	Z	0.5	8.1 (0)		
1	MV	eS	02 58 06	Z	0.5	1.3 (0)	2.8	
1	WI	eS	02 58 41	T	0.5	37.0 (0)	4.7	
1	03 49 11.9		27.0 S 176.4 W H =033 KM				KERMADEC ISLANDS REGION	
1	TF	eP	04 01 31.6	Z	1.0	13.0 (0)	82.0	4.92
		eL	04 26 55	LZ	23	49.0 (1)		
		eL	04 38 35	LZ	17	76.0 (1)		
		eL	04 38 35	LR	17	66.0 (1)		
		eL	04 38 35	LT	17	14.0 (1)		
1	MV	eP	04 01 40.0	Z	1.0	6.9 (0)	84.0	4.74
1	MN	eP	04 01 46.0	Z	1.0	10.0 (0)	85.0	4.90
		e	04 12 23	LT	20	28.0 (1)		
		eL	04 28 23	LZ	25	19.0 (1)		
		eL	04 32 20	LZ	20	54.0 (1)		
		eL	04 32 20	LR	20	20.0 (1)		
		eL	04 32 20	LT	20	46.0 (1)		
1	WI	eP	04 01 58.1	Z	1.0	6.6 (0)	88.0	4.82
		eL	04 29 05	LZ	30	38.0 (1)		
		eL	04 35 30	LZ	20	27.0 (1)		
		eL	04 35 30	LR	20	27.0 (1)		
		eL	04 35 30	LT	20	43.0 (1)		
1	LC	eP	04 02 06.2	Z	1.2	8.0 (0)	89.0	4.79
1	FM	eP	04 02 07.3	Z	0.9	9.6 (0)	89.0	5.00
							AVG.	4.86
1	04 28 26.7		05.5 N 125.3 E H =033 KM				MINDANO, PHILIPPINE IS.	
1	LC	eP	04 47 12.0	Z	1.0	2.4 (0)	118.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSKKS	05 05 00	LR	23	14.0 (2)		
		eSP	05 08 23	LZ	20	19.0 (2)		
		eSS	05 15 08	LR	28	99.9 (9)		
		e	05 20 22	LR	22	99.9 (9)		
		e	05 23 34	LR	28	57.0 (2)		
		e	05 29 05	LR	33	74.0 (2)		
		eLR	05 36 00	LZ	38	99.9 (9)		
							AVG.	5.74
1	05 21 25.5		27.1 S 176.3 W	KERMADEC ISLANDS REGION				
			H =034 KM					
1	MN	eP	05 33 59.9	Z	0.9	2.7 (0)	85.0	4.38
1	LC	eP	05 34 19.5	Z	1.1	1.6 (0)	89.0	4.13
							AVG.	4.26
1	MN	eLR	06 47 19	LZ	28	54.0 (2)		
1	MN	eL	06 59 35	LZ	22	38.0 (2)		
1	MN	eL	06 59 35	LR	22	15.0 (2)		
1	MN	eL	06 59 35	LT	22	35.0 (2)		
1	10 32 42.7		03.8 S 153.1 E	NEW IRELAND REGION				
			H =051 KM					
1	MN	eL	12 18 08	LZ	20	24.0 (1)		
1	MN	eL	12 31 00	LZ	19	63.0 (1)		
1	MN	eL	12 31 00	LR	19	16.0 (1)		
1	MN	eL	12 31 00	LT	19	65.0 (1)		
1	LC	eP	12 31 24.5	Z	1.0	2.4 (0)		
1	MN	eP	12 32 28.0	Z	1.0	1.7 (0)		
1	12 47 46.6		27.1 S 176.3 W	KERMADEC ISLANDS REGION				
			H =033 KM					
1	CP	eP	13 00 09.9	Z	1.0	5.7 (0)	83.0	4.66
1	MV	eP	13 00 14.1	Z	1.1	6.7 (0)	84.0	4.68
1	MN	eP	13 00 21.0	Z	1.0	6.7 (0)	85.0	4.73
1	WI	eP	13 00 33.5	Z	1.0	5.5 (0)	88.0	4.74
1	LC	eP	13 00 41.6	Z	1.2	6.0 (0)	89.0	4.67
1	TF	eL	13 25 25	LZ	20	50.0 (1)	82.0	
		eL	13 35 40	LZ	17	11.0 (2)		
		eL	13 35 40	LR	17	93.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	13 35 40	LT	18	26.0 (1)	AVG.	4.70
1	CP	eP	12 50 50.1	Z	1.1	11.0 (0)		
1	MV	eP	12 50 52.7	Z	1.0	10.0 (0)		
1	MN	eP	12 50 59.5	Z	1.0	5.0 (0)		
1	WI	eP	12 51 11.2	Z	1.0	8.8 (0)		
1	LC	eP	12 51 23.5	Z	1.0	7.3 (0)		
1	MN	e	12 51 28	Z	1.0	6.7 (0)		
1	WI	e	12 51 42	Z	1.0	4.4 (0)		
1	MV	eP	14 00 29.8	Z	0.3	9.0 (0)	1.6	
		eS	14 00 52	T	0.5	9.4 (0)		
1	DH	eP	14 12 21.0	Z	0.4	16.0 (0)	1.9	
		eS	14 12 46	R	0.5	96.0 (0)		
1	MV	eP	14 30 38.2	Z	0.3	6.7 (0)	2.0	
		eS	14 31 05	T	0.3	4.2 (0)		
		eL	14 31 11	T	1.0	13.0 (0)		
1	15 47 45.5		39.1 N 098.6 E	KANSU PROVINCE, JAPAN				
			H =025 KM					
1	WI	eP	16 01 02.0	Z	1.0	5.5 (0)	94.0	4.87
1	MV	eP	16 01 03.0	Z	0.7	6.9 (0)	94.0	5.12
1	MN	eP	16 01 11.5	Z	1.0	6.7 (0)	96.0	5.13
							AVG.	5.04
1	16 38 56.4		36.3 N 041.6 E	IRAQ				
			H =033 KM					
1	WI	eP	18 14 40.0	Z	0.5	4.9 (0)	4.9	
		eS	18 15 39	R	0.9	74.0 (0)		
1	CP	eP	18 23 32.5	Z	0.3	14.0 (0)	0.1	
		eS	18 23 37	T	0.3	38.0 (0)		
1	DH	eP	19 50 32.0	Z	0.5	14.0 (0)	1.3	
		eS	19 50 48	R	0.5	16.0 (1)		
1	MN	eP	20 21 15.5	Z	999.9	99.9 (9)		
1	MN	eP	21 37 04.4	Z	1.0	3.3 (0)		
1	MN	eP	22 38 55.0	Z	1.3	10.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	CP	eP	23 43 08.8	Z	999.9	99.9 (9)		
2	MV	eP	00 39 24.0	Z	0.5	5.0 (0)	0.1	
		eS	00 39 26	T	0.2	62.0 (0)		
2	TF	eP	04 07 17.3	Z	999.9	99.9 (9)		
2	MN	eP	04 08 03.2	Z	0.5	1.2 (0)	2.8	
		eS	04 08 37	T	0.5	2.8 (0)		
2	WI	eP	04 31 23.8	Z	0.4	0.7 (0)		
2	04 41 46.7		19.3 N 081.0 W				SOUTH OF CUBA	
			H =047 KM					
2	SJ	eP	04 45 54.4	Z	0.4	50.0 (0)	18.0	5.04
		eP	04 45 58	LZ	15	85.0 (1)		
		eL	04 50 28	LZ	30	99.0 (1)		
		eL	04 53 22	LR	21	67.0 (2)		
		eL	04 53 22	LT	22	16.0 (2)		
		eL	04 53 22	LZ	21	11.0 (2)		
2	DH	eP	04 47 00.6	Z	1.0	15.0 (0)	24.0	4.43
		eS	04 51 20	LR	25	74.0 (1)		
		eS	04 51 20	LT	15	86.0 (1)		
		eL	04 52 35	LR	42	21.0 (2)		
		eL	04 54 58	LR	23	35.0 (2)		
		eL	04 54 58	LZ	28	15.0 (2)		
		eL	04 54 58	LT	30	10.0 (2)		
2	LC	eP	04 47 22.0	Z	0.6	2.0 (0)	27.0	3.93
		eS	04 52 05	LR	16	71.0 (1)		
		eL	04 54 26	LR	35	57.0 (1)		
		eL	04 56 27	LR	27	63.0 (1)		
		eL	04 56 27	LT	25	20.0 (1)		
		eL	04 56 27	LZ	27	77.0 (1)		
2	AR	eP	04 47 28.6	Z	0.6	4.0 (0)	27.0	4.07
		eL	04 54 42	LR	30	21.0 (2)		
		eL	04 56 43	LR	17	16.0 (3)		
		eL	04 56 43	LZ	18	44.0 (1)		
		eL	04 56 43	LT	19	22.0 (2)		
2	FM	eP	04 48 26.9	Z	0.8	7.4 (0)	34.0	4.62
		eL	04 58 39	LZ	40	68.0 (1)		
		eL	05 01 24	LR	28	98.0 (1)		
		eL	05 01 24	LZ	27	68.0 (1)		
		eL	05 01 24	LT	23	69.0 (1)		
2	MN	eP	04 48 59.0	Z	0.5	2.7 (0)	38.0	4.33
		eL	04 59 59	LZ	45	89.0 (1)		
		eL	05 02 50	LR	25	67.0 (1)		
		eL	05 02 50	LT	22	14.0 (1)		
		eL	05 02 50	LZ	30	63.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	WI	eP	04 49 04.5	Z	0.7	3.0 (0)	38.0	4.23
		eS	04 55 05	LR	21	30.0 (1)		
		eS	04 55 05	LT	20	27.0 (1)		
		eL	05 01 18	LZ	40	80.0 (1)		
		eL	05 03 28	LR	27	10.0 (1)		
		eL	05 03 28	LZ	20	69.0 (1)		
		eL	05 03 28	LT	30	32.0 (1)		
2	MV	eP	04 49 20.8	Z	0.6	0.7 (0)	40.0	3.34
		eS	04 55 43	LR	20	18.0 (1)		
		eL	05 02 05	LZ	35	48.0 (1)		
		eL	05 05 30	LR	27	25.0 (1)		
		eL	05 05 30	LT	25	37.0 (1)		
		eL	05 05 30	LZ	25	13.0 (1)		
2	TF	eL	05 00 40	LT	22	30.0 (1)	38.0	
		eL	05 04 15	LR	22	53.0 (1)		
		eL	05 04 15	LZ	20	15.0 (1)		
		eL	05 04 15	LT	21	33.0 (1)		
							AVG.	4.25
2	LC	eP	06 11 53.1	Z	1.0	2.4 (0)		
2	CP	eP	10 40 21.5	Z	0.3	72.0 (0)	1.3	
		eS	10 40 39	R	999.9	99.9 (9)		
2	MN	eP	10 41 19.0	Z	0.7	0.8 (0)		
2	TF	eP	11 15 30.3	Z	0.3	4.1 (0)	1.5	
2	MV	eP	11 15 38.0	Z	0.3	2.2 (0)	2.3	
2	MN	eP	11 15 46.9	Z	0.2	0.6 (0)	3.3	
2	TF	eS	11 15 50	T	0.3	20.0 (0)	1.5	
2	MV	eS	11 16 07	R	0.4	7.7 (0)	2.3	
2	MN	eS	11 16 28	R	0.3	7.8 (0)	3.3	
2	WI	eP	11 17 45.5	Z	0.4	0.7 (0)		
2	13 26 42.4		04.8 S 152.1 E				NEW BRITAIN REGION	
			H =079 KM					
2	MN	eP	13 39 46.9	Z	0.8	9.3 (0)	92.0	5.17
		eL	14 09 25	LZ	30	10.0 (1)		
2	WI	eP	13 39 51.2	Z	0.6	2.0 (0)	93.0	4.64
							AVG.	4.90
2	MN	eP	14 30 16.8	Z	999.9	99.9 (9)		
2	MV	eP	14 30 37.8	Z	0.3	11.0 (0)	2.1	
2	TF	eP	14 30 57.7	Z	0.8	5.3 (0)		
2	MV	eS	14 31 05	T	0.3	6.1 (0)	2.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	WI	eP	14 31 07.0	Z	0.4	0.7 (0)		
2	MV	eL	14 31 13	T	1.0	16.0 (0)	2.1	
2	15 32 20.9		33.4 N 073.5 E				WEST PAKISTAN	
			H =033 KM					
2	DH	eP	15 39 24.2	Z	0.3	6.4 (0)	0.4	
		eS	15 39 30	R	0.5	55.0 (0)		
2	DH	eP	16 21 43.3	Z	0.3	16.0 (0)	1.8	
		eS	16 22 07	R	0.4	34.0 (0)		
2	WI	eP	18 36 56.4	Z	0.6	2.0 (0)		
2	18 51 21.6		04.5 S 125.0 E				BANDA SEA	
			H =563 KM					
2	LC	eP	19 07 01.5	Z	0.3	0.4 (0)	2.4	
		eS	19 07 33	R	0.3	4.9 (0)		
2	MV	eP	19 07 57.8	Z	0.4	3.4 (0)		
2	MN	eP	19 08 08.0	Z	0.6	2.1 (0)	2.0	
		eS	19 08 34	R	0.5	3.0 (0)		
2	DH	eP	19 55 43.5	Z	0.3	19.0 (0)	0.1	
		eS	19 55 48	R	0.4	21.0 (1)		
2	MN	eP	22 28 00.0	Z	999.9	99.9 (9)		
2	CP	eP	22 34 10.8	Z	0.2	6.2 (0)		
2	MN	eP	23 10 22.4	Z	0.8	2.6 (0)		
2	WI	eP	23 10 32.4	Z	0.6	6.4 (0)		
2	WI	e	23 11 01	Z	0.6	3.5 (0)		
3	04 06 08.4		05.2 N 076.4 W				WESTERN COLOMBIA	
			H =079 KM					
3	07 37 55.2		45.1 S 038.3 E				PRINCE EDWARDS IS. REGION	
			H =033 KM					
3	LC	eP'1	07 57 47.3	Z	0.9	3.0 (0)	151.0	
3	08 00 09.8		51.2 N 176.4 E				RAT IS., ALEUTIAN ISLAND	
			H =040 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MV	eP	08 08 17.0	Z	0.8	22.0 (0)	44.0	4.94
3	TF	eP	08 08 44.3	Z	0.5	9.9 (0)	48.0	4.08
3	CP	eP	08 09 12.0	Z	0.7	7.2 (0)	52.0	3.75
3	LC	eP	08 10 00.0	Z	0.7	10.0 (0)	58.0	4.75
3	AR	eP	08 10 08.8	Z	0.8	19.0 (0)	60.0	5.22
3	SJ	eP	08 10 58.0	Z	1.0	29.0 (0)	67.0	5.34
3	DH	eP	08 11 09.4	Z	0.7	15.0 (0)	69.0	5.09
							AVG.	4.74
3	08 56 12.1		23.2 S 067.5 W				NORTHERN CHILE	
			H =071 KM				MAG 7.00-7.25 PAS	
3	SJ	eP	09 06 03.2	Z	1.3	24.0 (2)	58.0	6.07
		eP	09 06 04	LZ	13	25.0 (3)		
		eS	09 13 57	T	3.6	55.0 (2)		
		eS	09 13 57	R	4.2	56.0 (2)		
		e	09 14 41	R	2.0	10.0 (1)		
		eP'P'	09 35 33	Z	3.6	25.0 (2)		
3	DH	eP	09 06 50.5	Z	1.2	18.0 (2)	65.0	5.95
		eP	09 06 51	LZ	17	14.0 (2)		
		eS	09 15 14	LR	999.9	99.9 (9)		
		eS	09 15 25	R	4.0	79.0 (2)		
		eS	09 15 25	T	4.0	15.0 (3)		
		e	09 16 25	R	4.0	26.0 (2)		
		eL	09 28 10	LZ	20	34.0 (2)		
		eL	09 28 10	LR	20	28.0 (2)		
		eL	09 28 10	LT	23	27.0 (2)		
		eP'P'	09 35 20	Z	3.0	29.0 (2)		
3	LC	eP	09 06 56.7	Z	1.2	65.0 (1)	67.0	6.34
		eP	09 06 57	LZ	18	43.0 (3)		
		ePP	09 09 27	LZ	20	12.0 (3)		
		eS	09 15 38	R	3.5	12.0 (2)		
		eS	09 15 38	T	3.0	48.0 (1)		
		eS	09 15 38	LT	23	43.0 (3)		
		ePPS	09 16 40	R	4.2	25.0 (2)		
		eL	09 31 10	LZ	24	44.0 (3)		
		eL	09 31 10	LR	24	52.0 (3)		
		eL	09 31 10	LT	25	56.0 (3)		
		eP'P'	09 35 27	Z	2.5	62.0 (1)		
		e	09 43 48	Z	2.0	88.0 (0)		
		e	09 54 40	Z	1.9	31.0 (0)		
3	AR	eP	09 07 23.5	Z	1.2	12.0 (2)	71.0	6.69
		eP	09 07 24	LZ	18	67.0 (2)		
		eS	09 16 23	R	3.5	28.0 (2)		
		eS	09 16 23	T	3.5	30.0 (2)		
		e	09 16 25	LT	999.9	99.9 (9)		
		ePS	09 17 15	R	3.3	33.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	09 29 10	LZ	21	80.0 (2)		
		eL	09 29 10	LR	21	34.0 (2)		
		eL	09 29 10	LT	21	81.0 (2)		
		eP'P'	09 35 04	Z	2.7	52.0 (1)		
		e	09 54 36	Z	2.0	13.0 (1)		
3	CP	eP	09 07 33.3	Z	1.5	12.0 (2)	73.0	6.59
		eP	09 07 35	LZ	18	12.0 (3)		
		ePP	09 10 17	Z	2.5	83.0 (1)		
		eS	09 16 48	T	4.0	42.0 (2)		
		eS	09 16 48	R	3.8	20.0 (2)		
		eS	09 16 49	LT	21	13.0 (3)		
		eS	09 16 49	LR	20	45.0 (2)		
		ePPS	09 17 42	LR	20	30.0 (3)		
		e	09 22 04	LT	28	72.0 (2)		
		e	09 27 32	LT	30	16.0 (3)		
		eL	09 29 52	LZ	25	12.0 (3)		
		eL	09 29 52	LR	23	88.0 (2)		
		eL	09 29 52	LT	24	62.0 (2)		
		eP'P'	09 35 07	Z	3.5	69.0 (2)		
		e	09 38 42	Z	3.0	34.0 (1)		
		e	09 54 35	Z	3.0	20.0 (1)		
3	FM	eP	09 07 48	LZ	17	90.0 (2)	75.0	
		eS	09 17 15	R	3.0	37.0 (2)		
		eS	09 17 15	T	3.0	18.0 (2)		
		eS	09 17 15	LR	22	99.9 (9)		
		eL	09 27 42	LZ	25	81.0 (2)		
		eL	09 27 42	LR	25	71.0 (2)		
		eL	09 27 42	LT	25	65.0 (2)		
3	TF	eP	09 07 55.5	Z	1.3	12.0 (2)	77.0	6.65
		eP	09 07 56	LZ	20	92.0 (1)		
		ePP	09 10 46	Z	2.7	16.0 (2)		
		eS	09 17 31	R	4.0	30.0 (2)		
		eS	09 17 31	T	3.0	99.0 (1)		
		eS	09 17 32	LR	21	11.0 (3)		
		eS	09 17 32	LT	21	12.0 (3)		
		eL	09 30 10	LZ	25	79.0 (2)		
		eL	09 30 10	LR	25	14.0 (3)		
		eL	09 30 10	LT	25	51.0 (2)		
3	MN	eP'P'	09 35 12	Z	2.3	38.0 (1)		
		eP	09 08 02.3	Z	1.7	15.0 (1)	78.0	5.63
		eP	09 08 03	LZ	17	79.0 (2)		
		ePP	09 10 53	Z	2.0	59.0 (1)		
		ePP	09 11 00	LZ	22	26.0 (2)		
		e	09 17 40	LR	23	48.0 (2)		
		eLR	09 34 00	LZ	25	39.0 (2)		
		eL	09 34 00	LT	23	45.0 (2)		
		eL	09 34 00	LR	23	40.0 (2)		
		eP'P'	09 35 14	Z	2.0	18.0 (1)		
3	WI	eP	09 08 10.3	Z	0.8	19.0 (1)	79.0	6.03

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	09 08 11	LZ	18	93.0 (2)		
		ePP	09 11 11	Z	2.0	96.0 (1)		
		ePP	09 11 15	LZ	20	99.9 (9)		
		eS	09 17 59	T	2.5	68.0 (1)		
		eS	09 17 59	R	2.5	60.0 (1)		
		eS	09 18 00	LT	20	99.9 (9)		
		eP'P'	09 35 12	Z	2.6	36.0 (1)		
		eLR	09 35 50	LZ	24	11.0 (3)		
		eL	09 35 50	LR	25	88.0 (2)		
		eL	09 35 50	LT	25	65.0 (2)		
		e	09 54 59	Z	3.4	11.0 (2)		
3	MV	eP	09 08 13.8	Z	1.3	80.0 (1)	80.0	6.42
		eP	09 08 14	LZ	17	98.0 (2)		
		ePP	09 11 20	LZ	17	35.0 (2)		
		eS	09 18 05	T	3.0	46.0 (1)		
		eS	09 18 05	R	3.0	32.0 (1)		
		eS	09 18 05	LR	22	55.0 (2)		
		e	09 27 02	Z	1.0	8.7 (0)		
		eP'P'	09 35 04	Z	2.3	22.0 (1)		
		eL	09 36 00	LZ	23	58.0 (2)		
		eL	09 36 00	LR	22	28.0 (2)		
		eL	09 36 00	LT	23	45.0 (2)		
		e	09 38 12	Z	2.2	10.0 (0)		
		e	09 38 37	R	3.0	28.0 (1)		
		e	09 44 46	Z	3.0	16.0 (1)		
		e	09 54 52	Z	2.0	62.0 (1)		
							AVG.	6.26
3	10 04 44.6		10.1 S 161.2 E			SOLOMON ISLANDS		
			H =040 KM					
3	MV	eP	10 17 26.5	Z	1.0	12.0 (0)	87.0	5.00
3	TF	eP	10 17 27.3	Z	1.0	18.0 (0)	87.0	6.17
3	MN	eP	10 17 38.0	Z	1.0	1.6 (0)	90.0	4.16
3	CP	eP	10 17 38.3	Z	0.9	16.0 (0)	90.0	5.21
3	WI	eP	10 17 43.3	Z	0.7	15.0 (0)	91.0	5.39
3	LC	eP	10 18 16.7	Z	0.8	2.3 (0)	98.0	4.88
3	DH	eP'	10 23 33.8	Z	0.7	9.8 (0)	121.0	
							AVG.	5.14
3	10 16 26.7		23.3 S 171.2 E			LOYALTY ISLANDS REGION		
			H =039 KM					
3	TF	eP	10 29 13.0	Z	0.7	14.0 (0)	88.0	5.28
3	MV	eP	10 29 18.3	Z	0.8	7.6 (0)	90.0	4.94

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MN	eP	10 29 26.0	Z	1.0	1.6 (0)	91.0	4.26
3	WI	eP	10 29 35.5	Z	0.9	5.5 (0)	92.0	4.89
3	LC	eP	10 29 55.5	Z	0.8	2.3 (0)	97.0	4.10
						AVG.		4.69
3	CP	eP	10 55 30.4	Z	0.3	21.0 (0)	1.0	
		eS	10 55 43	R	0.3	79.0 (0)		
3	11 04	03.6	40.9 N 073.3 E	KIRGHIZ, S. S. R.				
			H =025 KM					
3	AR	eP	11 17 12.5	Z	1.3	38.0 (0)	93.0	5.64
3	DH	eP	11 17 13.5	Z	0.9	16.0 (0)	93.0	5.42
3	WI	eP	11 17 38.2	Z	1.0	8.8 (0)	98.0	5.39
						AVG.		5.48
3	12 04	59.8	55.8 S 027.3 W	SANDWICH ISLANDS				
			H =033 KM					
3	DH	eP	15 27 01.4	Z	0.6	7.1 (0)		
3	SJ	eP	16 06 34.0	Z	0.8	31.0 (0)		
3	MV	eP	16 46 52.8	Z	1.0	8.7 (0)		
3	CP	eP	17 30 30.6	Z	0.3	54.0 (0)	6.0	
		eS	17 31 46	T	0.3	42.0 (0)		
3	CP	eP	17 48 14.7	Z	0.3	44.0 (0)	0.6	
		eS	17 48 23	T	0.3	73.0 (0)		
3	18 02	45.8	36.6 N 071.1 E	HINDU KUSH				
			H =209 KM					
3	LC	eP	19 59 18.0	Z	1.0	2.5 (0)		
3	WI	eP	22 07 28.4	Z	0.7	8.9 (0)		
3	WI	e	22 08 01	Z	0.8	15.0 (0)		
4	MN	eP	00 33 15.8	Z	999.9	99.9 (9)		
4	WI	eP	00 35 31.4	Z	0.2	4.7 (0)	0.5	
		eS	00 35 39	R	0.2	12.0 (0)		
4	02 49	44.7	14.1 N 093.0 W	NEAR COAST OF GUATEMALA				
			H =030 KM	MAG	4.50-	BRK		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	SJ	eP	02 53 16.7	Z	0.7	12.0 (1)	15.0	5.44
		eL	02 57 20	LR	16	23.0 (2)		
		eL	03 03 50	LR	16	12.0 (3)		
		eL	03 03 50	LZ	16	14.0 (2)		
		eL	03 03 50	LT	17	18.0 (2)		
4	LC	eP	02 54 38.6	Z	0.6	22.0 (0)	22.0	4.74
		eP	02 54 40	LZ	15	28.0 (1)		
		ePCP	02 58 58	LZ	18	64.0 (1)		
		eLQ	03 01 04	LT	17	29.0 (2)		
		eLR	03 03 05	LZ	16	13.0 (2)		
		eL	03 06 35	LT	14	18.0 (2)		
		eL	03 06 35	LZ	14	15.0 (2)		
		eL	03 06 35	LR	13	17.0 (2)		
4	CP	eP	02 55 37.1	Z	1.5	47.0 (0)	28.0	5.04
		eS	03 00 57	LR	20	11.0 (2)		
		eS	03 00 57	LT	20	48.0 (2)		
		e	03 03 11	LZ	30	11.0 (2)		
		eL	03 05 11	LZ	19	98.0 (1)		
		eL	03 10 34	LT	15	21.0 (2)		
		eL	03 10 34	LZ	14	43.0 (2)		
		eL	03 10 34	LR	13	11.0 (2)		
4	FM	eP	02 55 56.3	Z	0.6	3.8 (0)	30.0	4.37
		eS	03 01 14	LT	20	74.0 (1)		
		eL	03 04 18	LR	35	11.0 (2)		
		eL	03 05 30	LR	22	28.0 (2)		
		eL	03 05 30	LZ	20	55.0 (1)		
		eL	03 05 30	LT	20	11.0 (2)		
4	AR	eP	02 56 09.4	Z	0.6	5.1 (0)	32.0	4.57
		ePCP	02 58 59	Z	0.6	12.0 (0)		
		eL	03 06 03	LZ	39	11.0 (2)		
		eL	03 08 55	LT	27	97.0 (1)		
		eL	03 08 55	LZ	27	10.0 (2)		
		eL	03 08 55	LR	24	79.0 (1)		
4	DH	eP	02 56 10.2	Z	0.6	21.0 (0)	32.0	5.18
		eL	03 05 10	LR	40	16.0 (2)		
		eL	03 08 10	LR	20	25.0 (2)		
		eL	03 08 10	LZ	24	13.0 (2)		
		eL	03 08 10	LT	20	13.0 (2)		
4	TF	eP	02 56 12.0	Z	1.2	14.0 (0)	32.0	4.71
		e	03 04 53	LR	35			
		eL	03 06 26	LR	25			
		eL	03 07 00	LR	23			
		eL	03 07 00	LZ	25	14.0 (2)		
		eL	03 07 00	LT	25	16.0 (2)		
4	MN	eP	02 56 19.1	Z	0.6	10.0 (0)	33.0	4.89
		ePCP	02 59 01	Z	0.6	2.8 (0)		
		e	03 00 05	LR	32	28.0 (2)		
		eLR	03 02 52	LZ	24	37.0 (1)		
		eLQ	03 05 15	LT	24	28.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	03 12 50	LT	13	36.0 (2)		
		eL	03 12 50	LZ	15	50.0 (1)		
		eL	03 12 50	LR	14	20.0 (2)		
4	WI	eP	02 56 32.2	Z	0.5	37.0 (0)	34.0	5.54
		ePCP	02 59 06	Z	0.5	2.2 (0)		
		eL	03 07 50	LT	18	39.0 (1)		
		eL	03 09 00	LT	16	55.0 (2)		
		eL	03 09 00	LZ	19	73.0 (1)		
		eL	03 09 00	LR	17	28.0 (2)		
4	MV	eP	02 56 39.5	Z	1.0	6.8 (0)	35.0	4.53
		ePCP	02 59 18	Z	1.0	5.1 (0)		
							AVG.	4.90
4	05 39 20.7		17.4 S 174.7 W				TONGA ISLANDS REGION	
			H = 135 KM					
4	MN	eP	05 50 59.0	Z	0.6	1.4 (0)	77.0	3.93
4	WI	eP	05 51 11.7	Z	1.0	2.9 (0)	79.0	4.03
4	LC	eP	05 51 28.1	Z	0.7	1.8 (0)	82.0	3.99
		epP	05 52 03	Z	1.0	2.4 (0)		
							AVG.	3.98
4	LC	eP	06 35 01.2	Z	0.5	3.6 (0)		
4	MN	eP	06 36 40.8	Z	0.6	1.0 (0)		
4	WI	eP	06 36 54.2	Z	0.6	2.5 (0)		
4	CP	tP	06 37 41.0C	Z	0.3	99.9 (9)		
4	TF	eP	06 38 35.8	Z	0.6	3.5 (0)		
4	DH	eP	08 04 05.2	Z	1.0	20.0 (0)		
4	CP	eP	08 44 42.0	Z	0.4	8.1 (0)	1.2	
		eS	08 44 58	T	0.4	15.0 (0)		
4	LC	eP	10 51 42.8	Z	0.9	2.0 (0)		
4	CP	eP	13 40 20.0	Z	0.3	11.0 (0)	1.6	
		eS	13 40 41	T	999.9	99.9 (9)		
4	TF	eP	14 00 34.9	Z	0.3	11.0 (0)		
4	MN	eP	14 30 07.6	Z	999.9	99.9 (9)		
4	MV	eP	14 30 37.9	Z	0.4	1.1 (0)		
4	TF	eP	14 31 29.6	Z	0.6	1.8 (0)		
4	CP	eP	14 44 48.4	Z	0.3	1.9 (0)	0.8	
		eS	14 44 59	T	0.4	7.6 (0)		
4	LC	eP	20 51 06.2	Z	0.3	18.0 (0)	1.4	
		eS	20 51 24	R	0.4	29.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	MV	eP	22 07 57.8	Z	0.3	1.7 (0)	0.7	
		eS	22 08 08	T	0.4	8.7 (0)		
5	LC	eP	01 54 17.3	Z	0.7	1.2 (0)		
5	09 08 45.8		74.2 N 052.5 E				NOVAYA ZEMLYA	
5	AR	eP	09 18 39.3	Z	1.0	12.0 (0)	58.0	4.88
		eP	09 18 41	LZ	20	30.0 (1)		
		e	09 31 15	LZ	27	37.0 (1)		
		eL	09 35 45	LZ	37	25.0 (2)		
		e	14 45 40	LZ	170			
5	DH	eP	09 18 45	LZ	20	41.0 (1)	59.0	
		e	09 32 03	LZ	29	59.0 (1)		
		eL	09 36 20	LZ	37	19.0 (2)		
		eL	09 46 15	LZ	20	42.0 (2)		
		eL	09 46 15	LR	16	79.0 (2)		
		eL	09 46 15	LT	20	38.0 (2)		
		e	14 56 35	LZ	113.9			
5	WI	eP	09 19 27	LZ	20	24.0 (1)	65.0	
		eS	09 28 16	LR	21	25.0 (1)		
		eS	09 28 16	LT	18	77.0 (0)		
		eSS	09 32 25	LR	39	86.0 (1)		
		e	09 35 37	LZ	31	50.0 (1)		
		eL	09 39 58	LZ	36	17.0 (2)		
		eL	09 46 25	LR	25	22.0 (2)		
		eL	09 46 25	LZ	25	27.0 (2)		
		eL	09 46 25	LT	21	40.0 (1)		
		e	15 31 45	LZ	100	8.0 (3)		
5	MV	eP	09 19 39.9	Z	1.0	3.4 (0)	67.0	4.53
		eL	09 41 16	LZ	36	16.0 (2)		
		eL	09 45 48	LZ	29	16.0 (2)		
		eL	09 45 48	LR	26	71.0 (1)		
		eL	09 45 48	LT	27			
5	FM	eP	09 19 40	LZ	21	24.0 (1)	67.0	
		e	09 28 47	LZ	25	23.0 (1)		
		e	09 33 30	LZ	35	26.0 (1)		
		e	09 36 10	LZ	34	44.0 (1)		
		eL	09 40 25	LZ	43	26.0 (2)		
		eL	09 44 55	LZ	30	13.0 (2)		
		eL	09 44 55	LT	30	15.0 (2)		
5	MN	eP	09 19 44.6	Z	1.2	3.6 (0)	68.0	4.48
		eP	09 19 48	LZ	23	26.0 (1)		
		eS	09 28 46	LR	25	18.0 (1)		
		eS	09 28 46	LT	30	29.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	09 33 00	LT	28	38.0 (1)		
		e	09 36 31	LZ	25	46.0 (1)		
		eL	09 41 06	LZ	39	16.0 (2)		
		eL	09 48 10	LZ	25	25.0 (2)		
		eL	09 48 10	LR	27	91.0 (1)		
5	TF	eL	09 48 10	LT	25	18.0 (2)		
		eP	09 20 07	LZ	22	25.0 (1)	71.0	
		e	09 37 43	LZ	36	83.0 (1)		
		eL	09 42 50	LZ	31	12.0 (2)		
5	LC	e	16 09 03	LZ	110			
		eP	09 20 18.3	Z	0.9	3.0 (0)	73.0	4.42
		eP	09 20 20	LZ	20	23.0 (1)		
		eS	09 30 00	LR	27	99.0 (0)		
		eS	09 30 00	LT	27	16.0 (1)		
		eSS	09 34 24	LT	35	54.0 (1)		
		e	09 38 55	LZ	25	55.0 (1)		
		eL	09 42 48	LZ	35	17.0 (2)		
		eL	09 51 25	LT	25	24.0 (2)		
		eL	09 51 25	LR	27	79.0 (1)		
		eL	09 51 25	LZ	25	26.0 (2)		
5	SJ	e	16 19 44	LZ	120			
		eP	09 20 39	LZ	18	76.0 (1)	77.0	
		e	09 40 23	LZ	24	80.0 (1)		
		eL	09 45 31	LT	35	19.0 (2)		
		eL	09 54 40	LT	23	44.0 (2)		
		eL	09 54 40	LR	20	91.0 (1)		
		eL	09 54 40	LZ	25	13.0 (2)		
		e	16 36 40	LT	110			
							AVG.	4.58
5	MN	eP	13 30 17.8	Z	999.9	99.9 (9)	0.7	
		eS	13 30 28	T	0.5	16.0 (0)		
5	MN	eP	14 15 10.7	Z	0.3	2.7 (0)	1.1	
		eS	14 15 25	T	0.5	12.0 (0)		
5	15 08 34.1		13.7 S 166.6 E H =060 KM				NEW HEBRIDES ISLANDS	
5	MV	eP	15 21 05.8	Z	1.0	6.9 (0)	85.0	4.66
5	MN	eP	15 21 15.0	Z	1.0	3.3 (0)	87.0	4.40
		e	15 21 40	Z	1.1	6.5 (0)		
		eL	15 48 05	LZ	23	15.0 (2)		
		eL	15 50 45	LZ	23	15.0 (2)		
		eL	15 50 45	LR	23	61.0 (1)		
		eL	15 50 45	LT	25	10.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	TF	eL	15 47 10	LZ	25	91.0 (1)	86.0	
5	WI	eL	15 49 49	LT	27	77.0 (1)	88.0	
		eL	15 53 10	LZ	22	11.0 (2)		
		eL	15 53 10	LR	20	25.0 (1)		
		eL	15 53 10	LT	21	86.0 (1)		
5	LC	eL	15 52 02	LZ	25	55.0 (1)	95.0	
		eL	15 54 03	LZ	25	55.0 (1)		
		eL	15 54 03	LR	23	28.0 (1)		
		eL	15 54 03	LT	25	30.0 (1)		
5	AR	eL	16 01 04	LZ	29	27.0 (1)	110.0	
		eL	16 05 15	LZ	22	59.0 (1)		
		eL	16 05 15	LR	22	45.0 (1)		
5	DH	eL	16 05 15	LT	21	20.0 (1)		
		eL	16 05 46	LZ	31	46.0 (1)	119.0	
		eL	16 11 27	LZ	21	78.0 (1)		
		eL	16 11 27	LR	22	65.0 (1)		
		eL	16 11 27	LT	20	14.0 (1)		
							AVG.	4.53
5	MN	eP	18 29 37.0	Z	0.9	3.4 (0)		
5	LC	eP	21 30 03.7	Z	0.3	6.3 (0)	1.5	
		eS	21 30 22	T	0.4	13.0 (0)		
5	MN	eP	23 12 37.1	Z	0.6	1.1 (0)		
6	01 35 30.5		32.0 N 040.8 W H =048 KM				NORTH ATLANTIC OCEAN PAS	
6	DH	eP	01 41 28.0	Z	0.9	16.0 (1)	29.0	5.80
		eP	01 41 28	LZ	15	25.0 (2)		
		ePCP	01 44 37	Z	1.0	49.0 (0)		
		eS	01 46 22	LT	18	21.0 (2)		
		eL	01 47 25	LT	25	99.9 (9)		
6	AR	eP	01 42 53.5	Z	0.9	50.0 (0)	39.0	5.29
		eP	01 42 55	LZ	20	11.0 (2)		
		ePP	01 44 20	LZ	15	11.0 (2)		
		ePP	01 44 28	Z	1.5	99.0 (0)		
		ePCP	01 45 06	Z	1.0	25.0 (0)		
		eS	01 48 50	LR	20			
		eS	01 48 50	LT	25	11.0 (2)		
		eLQ	01 51 50	LR	25			
		eLR	01 53 45	LZ	25	87.0 (2)		
6	SJ	eP	01 44 20.8	Z	1.5	32.0 (1)	50.0	6.03
		eP	01 44 20	LZ	12	49.0 (2)		
		eS	01 51 35	LR	15	44.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eS	01 51 35	LT	15	21.0 (2)	55.0	5.62
		eL	01 58 55	LT	35	11.0 (3)		
		eP	01 44 59.8	Z	1.0	66.0 (0)		
		eP	01 45 00	LZ	15	15.0 (2)		
		ePP	01 47 04	Z	2.5	16.0 (1)		
		ePP	01 47 10	LZ	15	85.0 (1)		
		eS	01 52 50	LT	22	14.0 (2)		
		eS	01 52 50	LR	17	14.0 (2)		
		eLQ	01 59 20	LR	35	31.0 (2)		
		eLR	02 02 00	LZ	30	70.0 (2)		
		eL	02 03 15	LR	23	70.0 (2)		
		eL	02 03 15	LT	24	54.0 (2)		
		eP	01 45 17.4	Z	1.0	60.0 (0)		
		eP	01 45 18	LZ	15	11.0 (2)		
6	FM	ePP	01 47 42	LZ	18	43.0 (1)	58.0	5.58
		eS	01 53 20	LR	22	13.0 (2)		
		eS	01 53 20	LT	22	14.0 (2)		
		eL	02 01 12	LT	35	99.9 (9)		
		eP	01 45 38.0	Z	0.9	51.0 (0)		
		eP	01 45 40	LZ	15	15.0 (2)		
		e	01 46 59	Z	1.2	15.0 (0)		
		ePP	01 47 50	LZ	14	89.0 (1)		
		ePP	01 47 53	Z	1.0	6.9 (0)		
		eS	01 53 57	LR	22	13.0 (2)		
		eS	01 53 57	LT	25	20.0 (2)		
		eSS	01 58 00	LR	22	70.0 (1)		
		eLQ	01 59 52	LR	30	60.0 (2)		
		eLR	02 04 10	LZ	30	53.0 (2)		
6	WI	eP [†]	02 15 12	Z	2.0	41.0 (0)	61.0	5.60
		eP	01 45 47.8	Z	0.8	3.6 (0)		
		eP	01 45 48	LZ	15	10.0 (2)		
		ePP	01 48 01	Z	1.0	12.0 (0)		
		ePP	01 48 05	LZ	10	18.0 (2)		
		ePPP	01 49 32	Z	2.0	30.0 (0)		
		ePPP	01 49 35	LZ	20	33.0 (1)		
		eS	01 54 20	LT	28	88.0 (1)		
		eS	01 54 20	LR	20	81.0 (1)		
		eSS	01 58 15	LR	22	60.0 (1)		
		eSSS	02 00 55	LT	22	43.0 (2)		
		eL	02 03 40	LT	38	99.9 (9)		
		eL	02 05 05	LZ	32	99.9 (9)		
		eL	02 10 10	Z	20.0			
6	CP	eP [†]	02 15 06	Z	3.4	19.0 (1)	63.0	5.80
		eP	01 45 53.6	Z	1.8	18.0 (1)		
		eP	01 45 54	LZ	20	24.0 (2)		
		ePP	01 48 09	Z	1.8	45.0 (0)		
		ePP	01 48 13	LZ	18	16.0 (2)		
		eG	02 01 32	LR	24	53.0 (2)		
		eLQ	02 02 32	LR	35	51.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	MV	eLR	02 06 32	LZ	30	13.0 (2)	64.0	5.62
		eL	02 10 13	LR	25	25.0 (2)		
		eL	02 10 13	LT	22	10.0 (3)		
		eP	01 46 01.2	Z	1.0	58.0 (0)		
		eP	01 46 02	LZ	18	66.0 (1)		
		ePP	01 48 20	LZ	18	33.0 (1)		
		ePPP	01 49 57	LZ	20	32.0 (1)		
		ePPP	01 50 02	Z	2.5	92.0 (0)		
		e	02 01 42	LT	25	12.0 (2)		
		eL	02 04 20	LT	30	48.0 (2)		
		eP	01 46 05.8	Z	1.0	50.0 (0)		
		eP	01 46 07	LZ	12	27.0 (2)		
		eS	01 54 47	LR	18	81.0 (1)		
		e	02 01 55	LZ	22	17.0 (2)		
eL	02 04 25	LR	40	34.0 (2)				
AVG.								5.65
6	MN	eP	02 19 11.2	Z	0.6	0.6 (0)	4.7	
		eS	02 20 08	T	0.8	5.2 (0)		
6	MN	eP	04 20 54.1	Z	0.8	2.1 (0)		
6	LC	eP	04 21 22.8	Z	1.0	2.4 (0)		
6	LC	eP	07 20 33.7	Z	1.0	2.4 (0)		
6	08 41 17.8		58.4 S 025.5 W			SANDWICH ISLANDS		
			H =054 KM					
6	LC	eP [†]	08 59 50.4	Z	0.7	0.6 (0)	113.0	
		eL	09 37 25	LZ	30	43.0 (1)		
		eL	09 38 10	LR	25	37.0 (1)		
		eL	09 38 10	LT	25	30.0 (1)		
6	DH	eP [†]	09 00 06.0	Z	1.5	12.0 (1)	116.0	
6	MN	eP [†]	09 00 09.2	Z	0.8	8.3 (0)	124.0	
		e	09 00 38	Z	1.0	6.6 (0)		
6	WI	ePP	09 01 47	Z	1.5	14.0 (0)	125.0	
		eSKP	09 03 37	Z	1.2	5.4 (0)		
		eP [†]	09 00 13.0	Z	0.7	11.0 (0)		
6	MV	ePP	09 01 59	Z	1.2	7.6 (0)	125.0	
		eSKP	09 03 52	Z	1.2	11.0 (0)		
6	AR	eP [†]	09 00 13.8	Z	1.1	20.0 (0)	125.0	
		eSKP	09 03 42	Z	1.2	8.4 (0)		
6	AR	eL	09 37 20	LT	35	60.0 (1)	116.0	
6	09 23 30.9		39.7 N 140.6 E			NORTHERN HONSHU, JAPAN		
			H =060 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	WI	eP	09 34 54.5	Z	1.0	4.6 (0)	73.0	4.38
6	MN	eP	09 35 02.0	Z	0.7	2.5 (0)	74.0	3.23
6	LC	eP	09 36 01.9	Z	1.0	4.9 (0)	85.0	4.51
		e	09 36 22	Z	1.0	2.4 (0)		
						AVG.		4.04
6	WI	eL	09 43 18	LR	30	30.0 (1)		
6	WI	eL	09 47 27	LZ	25	28.0 (1)		
6	WI	eL	09 47 27	LR	25	25.0 (1)		
6	FM	eL	09 47 38	LZ	25	33.0 (1)		
6	FM	eL	09 47 38	LT	22	38.0 (1)		
6	MN	eL	09 55 30	LZ	20	20.0 (1)		
6	MN	eL	09 56 05	LZ	20	20.0 (1)		
6	MN	eL	09 56 05	LR	25	25.0 (1)		
6	MN	eP	14 01 13.0	Z	0.4	1.1 (0)		
6	CP	eP	14 07 43.7	Z	0.4	5.6 (0)	2.2	
		eS	14 08 13	T	0.5	19.0 (0)		
6	15 27 20.0		15.3 S 167.5 E			NEW HEBRIDES ISLANDS		
			H =120 KM					
6	MN	eP	15 39 53.6	Z	1.0	0.8 (0)	87.0	3.88
		epP	15 40 27	Z	1.0	3.3 (0)		
6	DH	eP	16 20 28.6	Z	0.4	6.5 (0)	1.7	
		eS	16 20 51	T	0.5	41.0 (0)		
		eP	16 35 42.5	Z	0.3	9.5 (0)		
		eS	16 36 05	R	0.5	34.0 (0)		
6	MN	eP	18 33 04.5	Z	0.5	1.2 (0)		
6	19 23 04.3		06.3 S 151.4 E			NEW BRITAIN REGION		
			H =027 KM					
6	20 51 56.8		26.9 S 177.1 W			KERMADEC ISLANDS REGION		
			H =050 KM MAG 5.50-			PAL		
6	TF	eP	21 04 14.1	Z	1.0	63.0 (0)	82.0	5.55
		eP	21 04 15	LZ	18	22.0 (2)		
		e	21 04 31	Z	0.9	72.0 (0)		
		e	21 14 30	LR	25	32.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	21 16 23	LR	25	30.0 (2)		
		e	21 23 15	LZ	27	21.0 (2)		
		eL	21 25 30	LT	30			
		eLR	21 28 50	LZ	30	99.9 (9)		
6	CP	eP	21 04 16.8	Z	1.0	36.0 (0)	83.0	5.41
		e	21 04 33	Z	1.0	61.0 (0)		
6	MV	eP	21 04 23.2	Z	1.0	58.0 (0)	84.0	5.61
		eP	21 04 25	LZ	20	55.0 (1)		
		e	21 04 40	Z	1.0	41.0 (0)		
		e	21 05 01	Z	1.5	46.0 (0)		
		e	21 14 49	R	3.5	27.0 (1)		
		e	21 14 50	LR	23	15.0 (2)		
		e	21 16 30	LT	22	20.0 (2)		
		eSS	21 20 18	LT	22	16.0 (2)		
		eLR	21 30 15	LZ	25	99.9 (9)		
		eL	21 30 15	LR	25	26.0 (2)		
		eL	21 30 15	LT	25	48.0 (2)		
6	MN	eP	21 04 30.0	Z	1.0	53.0 (0)	85.0	5.57
		eP	21 04 30	LZ	18	13.0 (2)		
		e	21 04 46	Z	1.0	78.0 (0)		
		e	21 15 00	LT	22	99.9 (9)		
		e	21 15 04	T	4.0	74.0 (1)		
		e	21 15 34	T	4.0	28.0 (1)		
		eSS	21 20 40	LT	20	25.0 (2)		
		ePKKP	21 22 36	Z	0.7	2.5 (0)		
		eSSS	21 24 12	LT	25	23.0 (2)		
		eG	21 26 47	LR	40	27.0 (2)		
		eLR	21 30 30	LZ	26	99.9 (9)		
		eP ¹ P ¹	21 30 39	Z	1.0	5.0 (0)		
6	WI	eP	21 04 41.0	Z	1.0	51.0 (0)	88.0	5.66
		eP	21 04 43	LZ	20	12.0 (2)		
		e	21 04 57	Z	1.0	51.0 (0)		
		ePP	21 08 15	LZ	30	25.0 (2)		
		eS	21 15 20	LR	25	26.0 (2)		
		eS	21 15 20	LT	25	34.0 (2)		
		eS	21 15 26	R	4.0			
		eS	21 15 26	T	4.0	39.0 (1)		
		ePS	21 16 27	LT	20	26.0 (2)		
		eSS	21 20 57	LT	20	19.0 (2)		
		eSSS	21 24 50	LT	25	14.0 (2)		
		eG	21 27 50	LR	40	69.0 (2)		
		eLR	21 31 46	LZ	34	10.0 (3)		
		eL	21 33 33	LZ	25	47.0 (2)		
		eL	21 33 33	LR	25	21.0 (2)		
		eL	21 33 33	LT	25	36.0 (2)		
6	LC	eP	21 04 50.4	Z	1.0	51.0 (0)	90.0	5.66
		eP	21 04 52	LZ	20	11.0 (2)		
		e	21 05 06	Z	1.0	42.0 (0)		
		e	21 15 25	LT	22	29.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePS	21 16 50	LT	23	48.0 (2)		
		eSS	21 21 40	LT	30	24.0 (2)		
		eSSS	21 25 30	LT	28	27.0 (2)		
		eLQ	21 29 00	LR	34	30.0 (2)		
		eLR	21 32 40	LZ	29	75.0 (2)		
		eL	21 34 52	LZ	25	55.0 (2)		
		eL	21 34 52	LR	24	19.0 (2)		
		eL	21 34 52	LT	24	53.0 (2)		
6	FM	eP	21 04 51.0	Z	1.0	60.0 (0)	90.0	5.73
		eP	21 04 52	LZ	18	11.0 (2)		
		e	21 05 07	Z	0.8	38.0 (0)		
		eSKS	21 15 22	LR	20	12.0 (2)		
		eS	21 15 47	R	4.0	11.0 (2)		
		eSS	21 21 35	LR	25	23.0 (2)		
		eSSS	21 25 25	LR	27	22.0 (2)		
		eG	21 28 45	LT	43	11.0 (3)		
		eLR	21 32 45	LZ	27	99.9 (9)		
		eL	21 36 40	LR	22	52.0 (2)		
		eL	21 36 40	LT	20	86.0 (1)		
6	SJ	eP	21 05 12	LZ	18	16.0 (2)	94.0	
		eS	21 15 57	LR	15	24.0 (2)		
		eS	21 15 57	LT	20	31.0 (2)		
		ePS	21 17 35	LT	22	35.0 (2)		
		eSS	21 22 45	LT	25	26.0 (2)		
		e	21 26 15	LT	25	32.0 (2)		
		e	21 30 05	LT	22	32.0 (2)		
		eL	21 35 00	LT	24	99.9 (9)		
6	AR	ePS	21 20 15	LZ	22	18.0 (2)	107.0	
		eLQ	21 36 55	LT	35	27.0 (2)		
		eLR	21 42 10	LZ	35	81.0 (2)		
6	DH	ePS	21 21 30	LR	30	21.0 (2)	116.0	
		e	21 28 05	LR	35	31.0 (2)		
		e	21 39 50	LR	28	24.0 (2)		
		eL	21 41 50	LT	35	37.0 (2)		
		eL	21 51 05	LR	22	59.0 (2)		
		eL	21 51 05	LT	22	21.0 (2)		
							AVG.	5.60
7	00	25 37.8	05.3 S 152.4 E				NEW BRITAIN REGION	
			H =063 KM					
7	03	01 52.4	12.2 N 092.5 E				ANDAMEN ISLANDS	
			H =033 KM					
7	WI	eP	04 21 37.6	Z	0.5	0.9 (0)	2.8	
		eS	04 22 13	R	0.6	5.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	05	15 45.9	36.1 N 030.4 E				NEAR COAST OF TURKEY	
			H =033 KM					
7	06	19 27.9	21.1 S 179.1 W				FIJI ISLANDS REGION	
			H =600 KM					
7	08	44 43.7	04.8 N 127.8 E				MOLUCCA PASSAGE	
			H =033 KM					
7	WI	eP	09 04 30.0	Z	1.0	2.3 (0)		
7	MV	eP	09 04 33.0	Z	0.9	4.1 (0)		
7	MN	eP	09 04 33.5	Z	0.5	0.6 (0)		
7	MN	e	09 04 38	Z	1.1	6.5 (0)		
7	DH	eP	17 33 06.0	Z	0.3	13.0 (0)	1.9	
		eS	17 33 31	R	0.5	84.0 (0)		
7	WI	eP	18 30 54.2	Z	0.8	2.9 (0)		
7	19	22 46.2	09.6 N 082.5 W				N. COAST OF PANAMA	
			H =033 KM					
7	MN	eP	19 31 44.5	Z	1.0	5.0 (0)		
7	LC	eP	21 04 03.3	Z	0.3	2.4 (0)	1.5	
		eS	21 04 23	R	0.5	14.0 (0)		
7	22	32 35.1	31.5 N 116.1 W				BAJA CALIFORNIA	
			H =033 KM					
7	CP	eP	22 32 56.9	Z	999.9	99.9 (9)	0.1	
7	TF	eP	22 33 54.0	Z	999.9	99.9 (9)	5.0	
7	MN	eP	22 34 22.6	Z	0.4	0.6 (0)	8.0	3.98
		e	22 34 46	Z	0.8	4.2 (0)		
		eLQ	22 36 13	R	1.2	19.0 (0)		
7	WI	eP	22 35 03.5	Z	0.7	1.8 (0)	10.0	4.48
7	LC	eLQ	22 37 01	R	1.0	31.0 (0)	8.0	
							AVG.	4.23
8	DH	eP	02 15 03.2	Z	0.5	7.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	eP	05 41 38.0	Z	0.4	2.9 (0)	1.9	
		eS	05 42 04	T	0.4	14.0 (0)		
8	CP	eP	07 20 01.0	Z	0.4	1.0 (0)	4.0	
		eS	07 20 49	T	0.4	16.0 (0)		
8	MN	eP	08 59 38.1	Z	0.3	2.2 (0)	1.1	
		eS	08 59 53	R	0.5	10.0 (0)		
8	09 19 22.4		16.4 S 179.5 W			FIJI ISLANDS		
			H =493 KM					
8	MN	eP	09 30 37.1	Z	0.5	3.0 (0)	80.0	4.00
8	WI	eP	09 30 47.9	Z	0.7	3.3 (0)	82.0	3.99
						AVG.		4.00
8	FM	eP	09 50 05.5	Z	0.5	8.7 (0)		
8	MN	eP	10 32 18.2	Z	1.1	6.4 (0)		
8	WI	eP	10 32 27.1	Z	0.6	0.9 (0)		
8	10 54 56.3		52.1 N 170.5 W			FIX IS., ALEUTIAN ISLANDS		
			H =040 KM					
8	MV	eP	11 02 06.6	Z	0.6	1.4 (0)	38.0	3.78
		ePCP	11 04 20	Z	0.7	3.4 (0)		
8	WI	eP	11 02 07.9	Z	1.2	7.2 (0)	38.0	4.36
		ePCP	11 04 25	Z	0.9	2.7 (0)		
8	MN	eP	11 02 16.2	Z	0.6	1.0 (0)	39.0	3.74
		ePCP	11 04 28	Z	0.7	1.7 (0)		
8	CP	eP	11 03 07.0	Z	0.7	4.4 (0)	43.0	4.51
		eL	11 15 27	LZ	20	17.0 (1)		
		eL	11 20 07	LT	15	31.0 (1)		
		eL	11 20 07	LZ	17	22.0 (1)		
8	LC	eP	11 03 44.8	Z	0.8	5.3 (0)	50.0	4.52
		eL	11 24 38	LZ	17	29.0 (1)		
		eL	11 25 00	LT	16	21.0 (1)		
		eL	11 25 00	LR	15	16.0 (1)		
		eL	11 25 00	LZ	16	32.0 (1)		
8	AR	eP	11 04 01.2	Z	1.0	12.0 (0)	52.0	4.82
8	SJ	eP	11 04 46.4	Z	0.6	8.4 (0)	58.0	4.97
8	DH	eP	11 05 08.2	Z	0.6	8.2 (0)	61.0	5.00
		eL	11 23 05	LZ	21	18.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	11 31 40	LT	18	23.0 (1)		
		eL	11 31 40	LR	19	17.0 (1)		
		eL	11 31 40	LZ	21	22.0 (1)		
8	TF	eL	11 12 59	LZ	22	16.0 (1)	39.0	
		eL	11 21 11	LT	15	49.0 (1)		
		eL	11 21 11	LZ	15	41.0 (1)		
		eL	11 21 11	LR	15	25.0 (1)		
8	FM	eL	11 16 20	LZ	22	16.0 (1)	42.0	
						AVG.		4.46
8	12 00 15.1		17.8 S 168.0 E			NEW HEBRIDES ISLANDS		
			H =030 KM					
8	TF	eL	12 40 42	LZ	22	21.0 (1)	87.0	
		eL	12 41 57	LR	20	16.0 (1)		
		eL	12 41 57	LZ	22	26.0 (1)		
8	MN	eL	12 41 30	LZ	25	54.0 (0)	89.0	
		eL	12 42 25	LT	25	96.0 (0)		
		eL	12 42 25	LZ	24	11.0 (1)		
8	WI	eL	12 42 52	LZ	25	12.0 (1)	90.0	
		eL	12 45 00	LT	23	17.0 (1)		
		eL	12 45 00	LZ	23	20.0 (1)		
8	12 12 22.5		17.9 S 168.0 E			NEW HEBRIDES ISLANDS		
			H =033 KM					
8	MV	eP	12 25 06.9	Z	0.5	1.3 (0)	87.0	4.35
8	MN	eP	12 25 15.0	Z	1.0	1.7 (0)	89.0	4.20
8	TF	eL	12 52 59	LZ	20	26.0 (1)	86.0	
		eL	12 55 39	LR	20	16.0 (1)		
		eL	12 55 39	LZ	20	21.0 (1)		
						AVG.		4.28
8	MN	eP	13 03 06.1	Z	1.0	1.7 (0)		
8	WI	eP	13 13 16.6	Z	1.0	2.2 (0)		
8	WI	eP	13 25 24.5	Z	0.5	0.8 (0)		
8	13 35 11.2		18.0 S 168.1 E			NEW HEBRIDES ISLANDS		
			H =033 KM					
8	MV	eP	13 47 55.2	Z	1.5	11.0 (0)	87.0	4.80
8	MN	eP	13 48 04.0	Z	1.3	6.9 (0)	89.0	4.69

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	14 16 35	LZ	26	11.0 (1)		
		eL	14 17 30	LT	25	19.0 (1)		
		eL	14 17 30	LZ	24	16.0 (1)		
		eL	14 17 30	LR	24	74.0 (0)		
8	WI	eP	13 48 12.2	Z	1.2	3.6 (0)	90.0	4.45
		eL	14 17 20	LZ	27	12.0 (1)		
8	TF	eL	14 15 09	LZ	25	15.0 (1)	87.0	
		eL	14 17 14	LR	23	32.0 (1)		
		eL	14 17 14	LZ	22	47.0 (1)		
8	FM	eL	14 18 50	LZ	20	70.0 (0)	94.0	
		eL	14 22 30	LR	20	11.0 (1)		
		eL	14 22 30	LT	18	12.0 (1)		
		eL	14 22 30	LZ	20	11.0 (1)		
							AVG.	4.65
8	TF	eP	14 14 17.9	Z	0.3	5.5 (0)		
8	MV	eP	14 15 06.0	Z	0.5	1.9 (0)		
8	FM	eP	16 57 34.4	Z	0.5	17.0 (0)		
8	17 16 31.5		18.8 N 144.8 E				MARIANA ISLANDS	
			H = 385 KM					
8	MV	eP	17 28 06.5	Z	0.6	4.3 (0)	81.0	4.27
8	WI	eP	17 28 18.1	Z	0.5	5.2 (0)	84.0	4.73
		e	17 29 41	Z	1.0	3.3 (0)		
8	TF	eP	17 28 18.9	Z	0.9	15.0 (0)	84.0	4.74
8	MN	eP	17 28 20.0	Z	0.8	5.7 (0)	85.0	4.45
							AVG.	4.55
8	17 55 37.9		37.0 N 141.5 E				E. COAST OF HONSHU, JAPAN	
			H = 053 KM					
8	MN	eP	18 07 27.4	Z	0.5	0.6 (0)	77.0	4.04
8	CP	eP	21 34 24.0	Z	0.5	5.3 (0)	1.6	
		eS	21 34 46	T	0.5	4.3 (0)		
8	WI	eP	22 56 35.2	Z	999.9	99.9 (9)		
8	WI	eP	23 05 55.2	Z	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	00 21 10.7		22.4 S 070.0 W				NORTHERN CHILE	
			H = 160 KM					
9	CP	eP	00 32 08.6	Z	1.0	8.6 (0)	70.0	4.47
9	MN	eP	00 32 41.8	Z	1.0	4.9 (0)	76.0	4.23
9	WI	eP	00 32 50.8	Z	0.8	16.0 (0)	77.0	4.84
		e	00 33 18	Z	0.8	5.1 (0)		
							AVG.	4.51
9	DH	e	00 28 35	LZ	13	27.0 (1)		
9	DH	e	00 29 32	LZ	17	19.0 (1)		
9	DH	e	00 36 37	LZ	25	62.0 (1)		
9	DH	eL	00 38 55	LZ	23	33.0 (1)		
9	MV	eP	01 07 56.5	Z	0.8	20.0 (0)		
9	MN	eP	01 08 06.3	Z	0.8	1.5 (0)		
9	WI	eP	02 07 53.9	Z	0.8	2.2 (0)		
9	04 21 55.4		06.7 N 073.1 W				COLUMBIA	
			H = 180 KM					
9	SJ	eP	04 28 03.7	Z	0.6	82.0 (0)	32.0	5.56
		epP	04 28 54	Z	1.0	58.0 (0)		
9	DH	eP	04 28 36.3	Z	0.6	11.0 (1)	36.0	5.72
		eSCP	04 34 34	Z	0.6	16.0 (0)		
9	LC	eP	04 29 17.5	Z	0.9	10.0 (1)	41.0	5.41
		eSCP	04 34 53	Z	1.0	14.0 (0)		
		eS	04 35 15	T	2.5	11.0 (1)		
		eS	04 35 15	R	2.0	71.0 (0)		
9	AR	eP	04 29 21.6	Z	0.7	13.0 (1)	40.0	5.63
9	FM	eP	04 30 17.5	Z	0.6	45.0 (0)	48.0	5.16
9	CP	eP	04 30 19.0	Z	1.0	20.0 (0)	48.0	4.58
		ePCP	04 31 45	Z	1.0	17.0 (0)		
9	MN	eP	04 30 44.8	Z	1.0	46.0 (0)	52.0	5.06
9	TF	eP	04 30 45.6	Z	0.6	18.0 (0)	52.0	4.87
9	WI	eP	04 30 50.6	Z	0.5	42.0 (0)	52.0	5.32
9	MV	eP	04 31 03.0	Z	0.5	79.0 (0)	54.0	5.87
		epP	04 32 06	Z	0.6	41.0 (0)		
							AVG.	5.32
9	WI	eP	05 07 59.5	Z	0.9	2.8 (0)		
9	06 19 51.4		24.1 S 066.5 W				SALTA PROVINCE, ARGENTINA	
			H = 128 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	SJ	eP	06 29 45.0	Z	0.5	22.0 (0)	60.0	5.43
9	DH	eP	06 30 30.6	Z	0.6	33.0 (0)	67.0	5.38
		epP	06 31 15	Z	1.0	39.0 (0)		
		epP	06 31 15	LZ	15	26.0 (1)		
		eS	06 39 10	LR	20	55.0 (1)		
		eS	06 39 10	LT	20	31.0 (1)		
		eL	06 51 20	LZ	23	25.0 (1)		
		eL	06 51 20	LR	20	18.0 (1)		
		eL	06 51 20	LT	20	16.0 (1)		
9	LC	eP	06 30 37.0	Z	0.8	14.0 (0)	68.0	4.81
9	AR	eP	06 31 04.2	Z	0.6	16.0 (0)	72.0	5.00
9	CP	eP	06 31 17.0	Z	1.0	17.0 (0)	74.0	4.80
		e	06 32 29	Z	1.0	8.6 (0)		
9	FM	eP	06 31 27.9	Z	0.6	15.0 (0)	77.0	4.97
9	TF	eP	06 31 37.2	Z	1.0	21.0 (0)	78.0	4.89
9	MN	eP	06 31 42.2	Z	1.2	19.0 (0)	79.0	4.77
		eP	06 31 45	LZ	15	87.0 (0)		
		esP	06 32 30	Z	1.1	14.0 (0)		
		ePS	06 41 30	LR	20	21.0 (1)		
		e	06 42 45	LT	21	34.0 (1)		
		e	06 47 55	LT	22	34.0 (1)		
9	WI	eP	06 31 50.6	Z	0.9	21.0 (0)	80.0	4.94
		e	06 32 49	Z	1.0	23.0 (0)		
9	MV	eP	06 31 53.9	Z	1.3	13.0 (1)	81.0	4.57
						AVG.		4.96
9	WI	eP	08 12 45.1	Z	0.3	3.8 (0)	6.0	
9	MN	eP	08 13 32.4	Z	0.9	2.0 (0)		
9	WI	eS	08 13 58	R	0.7	21.0 (0)	6.0	
9	MN	e	08 15 28	R	1.0	4.2 (0)		
9	10 44 00.5		30.1 N 129.0 E			RYUKYU ISLANDS		
			H = 198 KM					
9	MV	eP	10 56 14.5	Z	1.0	21.0 (0)	85.0	4.92
9	WI	eP	10 56 20.0	Z	1.0	4.6 (0)	86.0	4.27
9	MN	epP	10 57 09	Z	1.0	3.3 (0)	87.0	
						AVG.		4.60
9	LC	eP	12 59 31.4	Z	0.7	3.7 (0)		
9	MN	eP	13 00 54.5	Z	0.7	3.3 (0)		
9	WI	eP	13 01 04.0	Z	0.5	2.9 (0)		
9	17 24 48.5		44.5 S 073.4 W			COAST OF SOUTHERN CHILE		
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	LC	eP	17 37 08.2	Z	1.3	4.6 (0)	82.0	4.81
9	MN	eP	17 37 55.2	Z	1.4	8.4 (0)	92.0	4.88
						AVG.		4.84
9	DH	eP	19 50 52.4	Z	0.4	23.0 (0)	1.4	
		eS	19 51 09	R	0.4	15.0 (1)		
9	WI	eP	22 24 08.3	Z	0.4	3.1 (0)	3.0	
		eS	22 24 44	R	0.6	26.0 (0)		
9	22 31 45.5		52.1 N 158.9 E			NEAR E. COAST OF KAMCHATKA		
			H = 033 KM					
9	CP	eP	23 58 18.2	Z	0.3	12.0 (0)	0.6	
		eS	23 58 27	R	0.3	20.0 (0)		
10	FM	eP	04 05 15.5	Z	0.5	81.0 (0)	0.6	
		eS	04 05 24	R	0.5	38.0 (1)		
10	WI	eP	04 06 26.0	Z	0.5	0.8 (0)	6.1	
10	MN	eP	04 06 42.0	Z	0.5	1.8 (0)	6.0	
10	WI	e	04 06 42	Z	0.5	8.4 (0)	6.1	
		eS	04 07 41	R	0.7	14.0 (0)		
10	MN	eS	04 07 55	R	0.8	4.8 (0)	6.0	
10	MN	eP	09 43 24.0	Z	0.7	1.2 (0)		
10	WI	eP	09 43 33.5	Z	0.8	2.4 (0)		
10	LC	eP	10 04 02.5	Z	1.0	3.6 (0)		
10	WI	eP	14 35 46.3	Z	0.7	2.9 (0)		
10	MN	eP	19 19 37.5	Z	0.4	1.4 (0)	3.9	
		e	19 19 42	Z	0.4	12.0 (0)		
10	MV	eP	19 19 51.5	Z	0.3	2.2 (0)	6.0	
		e	19 19 56	Z	0.3	5.6 (0)		
10	MN	eS	19 20 25	R	0.5	21.0 (0)	3.9	
10	MV	eS	19 21 03	R	0.5	12.0 (0)	6.0	
10	MN	eP	20 16 33.0	Z	0.3	6.9 (0)	0.9	
		eS	20 16 45	R	0.3	6.4 (0)		
10	WI	eP	20 16 54.2	Z	0.4	4.5 (0)	1.6	
10	MV	eP	20 16 58.0	Z	0.5	1.3 (0)	2.9	
		e	20 17 02	Z	0.5	3.2 (0)		
10	WI	eS	20 17 15	R	0.4	13.0 (0)	1.6	
10	MV	eS	20 17 34	R	0.5	7.1 (0)	2.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	WI	eP	21 02 21.8	Z	0.5	47.0 (1)		
10	MN	eP	21 02 22.2	Z	1.0	4.1 (0)		
10	21 03 59.2		49.4 N 027.9 W H =033 KM			NORTH ATLANTIC OCEAN MAG 4.25- PAL		
10	DH	eP	21 10 33.5	Z	1.0	58.0 (0)	34.0	5.43
		eP	21 10 34	LZ	17	27.0 (1)		
		eS	21 15 47	LR	20	64.0 (1)		
		eS	21 15 47	LT	20	66.0 (1)		
		eLR	21 19 30	LZ	35	23.0 (2)		
		eL	21 22 00	LZ	25	37.0 (2)		
		eL	21 22 00	LR	24	50.0 (2)		
		eL	21 22 00	LT	23	15.0 (2)		
10	SJ	eP	21 13 44.3	Z	1.0	68.0 (0)	57.0	5.63
		eL	21 32 18	LT	37	66.0 (2)		
		eL	21 38 00	LZ	20	11.0 (2)		
		eL	21 38 00	LR	20	30.0 (2)		
		eL	21 38 00	LT	21	58.0 (2)		
10	FM	eP	21 13 51.9	Z	0.8	31.0 (0)	58.0	5.39
		eS	21 21 59	LR	20	79.0 (1)		
		eS	21 21 59	LT	15	44.0 (1)		
		eL	21 32 59	LZ	24	43.0 (1)		
		eL	21 36 09	LZ	22	12.0 (2)		
		eL	21 36 09	LR	22	99.0 (1)		
		eL	21 36 09	LT	21	84.0 (1)		
10	LC	eP	21 13 59.0	Z	1.0	41.0 (0)	59.0	5.41
		ePCP	21 14 45	Z	1.0	19.0 (0)		
		eS	21 22 15	LR	23	46.0 (1)		
		eS	21 22 15	LT	24	60.0 (1)		
		eL	21 33 18	LR	25	12.0 (2)		
		eL	21 36 00	LZ	28	11.0 (2)		
		eL	21 38 40	LZ	20	28.0 (2)		
		eL	21 38 40	LR	20	28.0 (2)		
		eL	21 38 40	LT	22	15.0 (2)		
10	WI	eP	21 14 04.5	Z	1.0	71.0 (0)	60.0	5.68
		eS	21 22 25	LR	20	32.0 (1)		
		eS	21 22 25	LT	25	49.0 (1)		
		eL	21 28 57	LR	19	76.0 (1)		
		eLQ	21 30 42	LR	40	13.0 (2)		
		eL	21 34 40	LZ	25	82.0 (1)		
		eL	21 34 40	LR	20	18.0 (2)		
		eL	21 34 40	LT	22	14.0 (2)		
		eP'P'	21 43 34	Z	2.1	57.0 (0)		
10	MN	eP	21 14 18.7	Z	1.0	33.0 (0)	62.0	5.45
		eG	21 29 22	LR	23	96.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	21 31 48	LR	50	13.0 (2)		
		eL	21 35 00	LZ	20	29.0 (1)		
		eL	21 35 00	LR	20	18.0 (2)		
		eL	21 35 00	LT	20	10.0 (1)		
10	MV	eP	21 14 27.0	Z	1.0	21.0 (0)	63.0	5.16
		eP	21 14 27	LZ	17	93.0 (0)		
		ePPP	21 18 32	LZ	20	17.0 (1)		
		eS	21 22 50	LR	28	18.0 (1)		
		eS	21 22 50	LT	30	53.0 (1)		
		eG	21 30 00	LR	23	44.0 (1)		
		eL	21 34 00	LZ	40	83.0 (1)		
		eL	21 38 00	LZ	25	62.0 (1)		
		eL	21 38 00	LR	25	27.0 (1)		
		eL	21 38 00	LT	25	51.0 (1)		
10	CP	eP	21 14 38.6	Z	1.0	37.0 (0)	65.0	5.47
10	TF	eP	21 14 47.0	Z	0.9	20.0 (0)	66.0	5.25
		ePCP	21 15 18	Z	1.0	25.0 (0)		
		eL	21 33 30	LT	35			
		eL	21 45 15	LZ	18	15.0 (2)		
		eL	21 45 15	LR	19	11.0 (2)		
		eL	21 45 15	LT	22			
10	AR	eS	21 17 40	LR	15		41.0	
		eS	21 17 40	LT	20	31.0 (1)		
		eLQ	21 20 25	LT	24	61.0 (1)		
		eLR	21 23 00	LZ	40	18.0 (2)		
		eL	21 26 00	LZ	22	30.0 (2)		
		eL	21 26 00	LR	22			
		eL	21 26 00	LT	20	12.0 (2)		
							AVG.	5.43
11	01 47 39.6		20.0 S 178.8 W H =638 KM			FIJI ISLANDS		
11	TF	eP	01 58 37.4	Z	1.1	44.0 (0)	78.0	4.84
		epP	02 00 47	Z	1.4	43.0 (0)		
		ePP	02 01 50	LZ	16	58.0 (1)		
		eS	02 07 50	LT	22	20.0 (2)		
		eS	02 07 50	LR	20	21.0 (1)		
		esS	02 11 35	LT	21	16.0 (2)		
		e	02 19 17	LT	32	84.0 (1)		
		e	02 25 10	LT	26	57.0 (1)		
11	CP	eP	01 58 38.5	Z	1.1	37.0 (0)	79.0	4.69
		epP	02 00 48	Z	1.4	37.0 (0)		
		esP	02 01 47	LZ	17	36.0 (1)		
		eS	02 07 55	R	2.5	17.0 (1)		
		eS	02 07 55	T	2.5	11.0 (1)		
		eS	02 07 57	LR	20	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
11	MV	eS	02 07 57	LT	19	69.0 (1)	80.0	5.01				
		eP	01 58 43.8	Z	0.9	53.0 (0)						
		eP	01 58 46	LZ	16	15.0 (1)						
		epP	02 00 51	LZ	18	17.0 (1)						
		epP	02 00 53	Z	1.9	86.0 (0)						
		esP	02 01 51	LZ	18	42.0 (1)						
		eS	02 08 02	T	2.0	24.0 (0)						
		eS	02 08 02	R	1.5	33.0 (0)						
		eS	02 08 07	LT	20	10.0 (2)						
		eS	02 08 07	LR	20	43.0 (1)						
		eSP	02 08 56	LZ	18	25.0 (1)						
		e	02 10 52	LT	33	69.0 (1)						
		esS	02 11 50	LR	20	69.0 (1)						
		ePKKP	02 16 58	Z	0.8	6.5 (0)						
		11	MN	eP	01 58 52.1	Z			1.4	14.0 (1)	81.0	5.24
				eP	01 58 53	LZ			19	12.0 (1)		
				epP	02 01 02	Z			1.4	80.0 (0)		
				epP	02 01 04	LZ			18	13.0 (1)		
esP	02 02 03			LZ	18	39.0 (1)						
e	02 08 18			R	2.3	96.0 (0)						
e	02 08 20			LR	18	16.0 (2)						
esS	02 12 09			LR	23	13.0 (2)						
eP'P'	02 25 28			Z	1.5	81.0 (0)						
eSKPP'	02 27 55			Z	1.2	3.2 (0)						
11	WI			eP	01 59 02.8	Z	0.8	38.0 (0)	83.0	4.98		
				epP	02 01 13	Z	1.7	78.0 (0)				
				epP	02 01 13	LZ	16	23.0 (1)				
				esP	02 02 10	LZ	18	38.0 (1)				
				eS	02 08 38	T	1.7	32.0 (0)				
				eS	02 08 40	LR	18	17.0 (2)				
				eS	02 08 40	LT	18	90.0 (1)				
				esS	02 12 30	LR	23	12.0 (2)				
		ePKKP	02 17 17	Z	0.7	4.7 (0)						
		e	02 21 28	LR	27	54.0 (1)						
		e	02 25 26	LR	23	76.0 (1)						
		11	LC	eP	01 59 19.0	Z	0.7	14.0 (0)			87.0	4.76
				epP	02 01 36	Z	1.0	19.0 (0)				
				eS	02 09 13	LR	22	18.0 (2)				
				eS	02 09 13	LT	16	29.0 (2)				
				esS	02 12 40	LR	22	16.0 (2)				
				11	SJ	eP	01 59 39.1	Z				
		epP	02 01 56			Z	1.5	63.0 (0)				
eSKS	02 09 18	T	2.9			37.0 (1)						
eS	02 09 55	LR	20			28.0 (2)						
eS	02 09 55	LT	22			34.0 (2)						
esS	02 13 30	LT	23			17.0 (2)						
11	DH	eS	02 13 03			LT	23	10.0 (2)	115.0			
		esS	02 17 00			LT	19	77.0 (1)				
		e	02 20 50			LT	18	70.0 (1)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
		esSS	02 24 43	LT	22	60.0 (1)						
			02 29 02	LT	18	91.0 (1)						
							AVG.	4.99				
11	MN	eP	02 17 06.6	Z	0.9	8.0 (0)						
11	MN	eP	05 20 04.8	Z	0.4	2.7 (0)	1.3					
		eS	05 20 21	R	0.5	11.0 (0)						
11	06 47 41.7	15.7 S 172.9 W		TONGA ISLANDS REGION		H = 157 KM						
11	TF	eP	06 58 45.8	Z	1.0	13.0 (0)	71.0	4.66				
		eSCS	07 08 12	LR	23	14.0 (2)						
		e	07 16 59	LT	23	12.0 (2)						
		eLR	07 19 45	LZ	25	16.0 (2)						
		eL	07 21 54	LZ	21	17.0 (2)						
11	CP	eP	06 58 51.0	Z	1.7	55.0 (0)	72.0	5.05				
		e	07 09 00	LZ	23	42.0 (1)						
		e	07 20 00	LZ	27	12.0 (2)						
		eL	07 21 54	LR	22	14.0 (2)						
		eL	07 21 54	LR	22	14.0 (2)						
11	MV	eP	06 58 54.2	Z	1.9	65.0 (0)	73.0	5.08				
		eS	07 08 32	LT	25	10.0 (2)						
		eLR	07 20 30	LZ	28	95.0 (1)						
		eL	07 22 00	LZ	24	88.0 (1)						
		eL	07 22 00	LR	25	26.0 (1)						
		eL	07 22 00	LT	24	78.0 (1)						
		11	MN	eP	06 59 03.2	Z			1.4	84.0 (0)	74.0	5.32
				eP	06 59 14	LZ			14	20.0 (1)		
				e	07 02 42	Z			1.4	7.5 (0)		
				e	07 08 43	LT			31	99.0 (1)		
eLQ	07 18 44			LR	23	73.0 (1)						
11	WI	eLR	07 21 02	LZ	28	16.0 (2)	76.0	4.96				
		eL	07 23 00	LZ	25	14.0 (2)						
		eL	07 23 00	LR	25	36.0 (1)						
		eL	07 23 00	LT	25	13.0 (2)						
		eP	06 59 15.6	Z	1.5	39.0 (0)						
		eSCS	07 09 05	LR	17	57.0 (1)						
		e	07 19 42	LR	25	82.0 (1)						
		eLR	07 22 20	LZ	32	15.0 (2)						
		eL	07 24 05	LZ	25	11.0 (2)						
		eL	07 24 05	LR	25	38.0 (1)						
11	LC	eP	06 59 32.3	Z	1.0	9.7 (0)	80.0					
		e	07 03 11	Z	1.1	3.8 (0)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	07 09 40	LT	20	36.0 (1)		
		eS	07 09 40	LR	21	28.0 (1)		
		eLR	07 23 54	LZ	26	12.0 (2)		
		eL	07 33 00	LZ	17	19.0 (2)		
		eL	07 33 00	LR	17	83.0 (1)		
		eL	07 33 00	LT	17	12.0 (2)		
11	SJ	eP	07 00 01.6	Z	1.6	73.0 (0)	85.0	5.25
		eS	07 10 33	LR	20	67.0 (1)		
		eS	07 10 33	LT	13	48.0 (1)		
		eL	07 26 08	LT	31	96.0 (1)		
		eL	07 28 47	LZ	21	30.0 (1)		
		eL	07 28 47	LT	23	12.0 (2)		
11	DH	ePS	07 15 23	LZ	14	13.0 (1)	106.0	
		eSS	07 21 19	LR	25	56.0 (1)		
		eLR	07 37 34	LZ	29	71.0 (1)		
		eL	07 50 52	LZ	16	19.0 (2)		
		eL	07 50 52	LR	16	12.0 (2)		
		eL	07 50 52	LT	15	54.0 (1)		
11	AR	eLR	07 33 44	LZ	27	93.0 (1)	97.0	
		eL	07 37 00	LZ	24	12.0 (2)		
		eL	07 37 00	LR	23			
		eL	07 37 00	LT	23	22.0 (1)		
							AVG.	4.98
11	CP	eP	08 03 02.4	Z	0.5	12.0 (0)	3.0	
		eS	08 03 41	T	0.4	15.0 (0)		
11	08 15 43.7		25.2 N 123.3 E H =140 KM	OFF N. E. COAST OF FORMOSA MAG 6.00- PAS				
11	MV	eP	08 28 38.9	Z	1.1	76.0 (0)	92.0	5.82
		eP	08 28 39	LZ	23	27.0 (1)		
		epP	08 29 12	Z	1.8	15.0 (1)		
		eSKS	08 38 58	R	2.8	84.0 (1)		
		eSKS	08 39 00	LR	18	27.0 (2)		
		eS	08 39 30	LR	18	46.0 (2)		
		eS	08 39 30	LT	22	19.0 (2)		
		eS	08 39 31	R	2.5	76.0 (1)		
		eS	08 39 31	T	1.4	15.0 (1)		
		e	08 40 02	Z	2.5	23.0 (1)		
		ePS	08 40 35	LT	28	36.0 (2)		
		e	08 41 55	LZ	18	18.0 (2)		
		eSS	08 46 00	LZ	27	17.0 (2)		
		e	08 52 38	LZ	25	11.0 (2)		
		e	08 55 17	LT	26	51.0 (2)		
		eL	08 58 51	LZ	37	50.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	09 01 40	LZ	22	11.0 (2)		
		eL	09 01 40	LR	22	16.0 (2)		
		eL	09 01 40	LT	22	90.0 (1)		
11	WI	eP	08 28 44.6	Z	1.0	12.0 (1)	93.0	6.10
		eP	08 28 45	LZ	17	21.0 (1)		
		epP	08 29 20	Z	1.5	20.0 (1)		
		epP	08 29 22	LZ	20	81.0 (1)		
		e	08 31 59	Z	1.8	76.0 (0)		
		ePP	08 32 30	LZ	30	67.0 (1)		
		eSKS	08 39 06	R	1.9	39.0 (1)		
		eSKS	08 39 10	LR	20	35.0 (2)		
		eS	08 39 40	LT	19	48.0 (2)		
		eS	08 39 40	LR	17	24.0 (2)		
		esS	08 40 35	LT	20	45.0 (2)		
		e	08 45 52	Z	0.8	2.9 (0)		
		eSS	08 46 10	LR	31	24.0 (2)		
		e	08 53 10	LT	22	22.0 (2)		
		e	08 53 50	Z	3.5	19.0 (1)		
		e	08 55 13	LR	27	36.0 (2)		
		eL	09 00 10	LZ	32	26.0 (2)		
		eL	09 07 42	LZ	21	98.0 (1)		
		eL	09 07 42	LR	22	11.0 (2)		
		eL	09 07 42	LT	21	23.0 (2)		
11	MN	eP	08 28 49.9	Z	1.1	55.0 (0)	94.0	5.78
		epP	08 29 22	Z	1.6	10.0 (1)		
		epP	08 29 22	LZ	21	89.0 (1)		
		ePP	08 32 34	Z	2.0	21.0 (1)		
		ePP	08 32 34	LZ	20	45.0 (1)		
		epPP	08 33 03	Z	2.2	12.0 (1)		
		eSKKS	08 39 14	R	3.5	18.0 (2)		
		eSKKS	08 39 14	LR	21	37.0 (2)		
		ePS	08 41 00	LR	22	44.0 (2)		
		eSS	08 46 10	LR	30	34.0 (2)		
		eP'P'	08 53 59	Z	2.2	47.0 (0)		
		e	08 54 15	LT	27	21.0 (2)		
		e	08 56 30	LT	20	99.9 (9)		
		eL	08 58 30	LZ	38	73.0 (2)		
		eL	09 03 20	LZ	23	34.0 (2)		
		eL	09 03 20	LR	23	22.0 (2)		
		eL	09 03 20	LT	16	85.0 (1)		
11	TF	eP	08 28 54.1	Z	1.0	59.0 (0)	96.0	5.99
		epP	08 29 31	Z	1.5	14.0 (1)		
		epP	08 29 31	LZ	23	92.0 (1)		
		ePP	08 32 34	LZ	22	61.0 (1)		
		ePP	08 32 40	Z	1.2	41.0 (0)		
		eSKS	08 39 17	T	2.5	57.0 (1)		
		eSKS	08 39 23	LT	20	49.0 (2)		
		eSP	08 41 15	Z	4.7	22.0 (2)		
		eSP	08 41 09	LZ	28	49.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	CP	eSS	08 46 27	LT	24	28.0 (2)		
		eSSS	08 50 58	LT	22	18.0 (2)		
		e	08 54 07	LR	26	48.0 (2)		
		eL	09 00 11	LZ	34	48.0 (2)		
		eL	09 02 50	LZ	22	20.0 (2)		
		eL	09 02 50	LR	21	13.0 (2)		
		eL	09 02 50	LT	25	11.0 (2)		
		eP	08 29 07.0	Z	1.1	26.0 (0)	98.0	5.63
		eP	08 29 07	LZ	14	32.0 (1)		
		epP	08 29 42	Z	1.6	66.0 (0)		
		epP	08 29 43	LZ	22	56.0 (1)		
		ePP	08 33 07	Z	2.0	18.0 (1)		
		ePP	08 33 10	LZ	18	49.0 (1)		
		eSKS	08 39 36	T	3.5	13.0 (2)		
		eSKS	08 39 38	LT	20	32.0 (2)		
		eS	08 40 18	R	4.2	31.0 (2)		
		eS	08 40 18	T	3.4	43.0 (1)		
		e	08 41 52	Z	3.0	20.0 (1)		
		e	08 41 54	LZ	21	32.0 (2)		
		e	08 57 45	LZ	30	21.0 (2)		
		eL	09 01 39	LZ	32	35.0 (2)		
		eL	09 04 56	LZ	21	12.0 (2)		
		eL	09 04 56	LR	21	46.0 (1)		
		eL	09 04 56	LT	21	13.0 (2)		
11	AR	ePP	08 33 40	Z	2.0	12.0 (1)	104.0	
		e	08 33 53	LZ	20	50.0 (1)		
		eSKS	08 39 58	T	2.1	13.0 (2)		
		eSKS	08 40 01	LT	18	38.0 (2)		
		eSKKS	08 40 39	T	2.6	71.0 (1)		
		eS	08 41 04	T	3.3	13.0 (2)		
		eS	08 41 04	R	2.4	14.0 (1)		
		eSP	08 42 43	LZ	25	16.0 (2)		
		e	08 44 04	LT	23	30.0 (2)		
		ePKKP	08 45 20	Z	0.7	8.4 (0)		
		e	08 45 39	Z	0.7	14.0 (0)		
		eSS	08 48 20	LT	31	32.0 (2)		
		eL	08 58 20	LZ	24	14.0 (2)		
		eL	09 13 55	LZ	24	30.0 (2)		
		eL	09 13 55	LR	24			
		eL	09 13 55	LT	24	30.0 (2)		
11	LC	ePP	08 33 53	Z	1.2	40.0 (0)	105.0	
		ePP	08 34 00	LZ	30	66.0 (1)		
		eSKS	08 40 11	R	3.0	95.0 (1)		
		eSKS	08 40 14	LR	20	26.0 (2)		
		ePS	08 43 00	LZ	25	27.0 (2)		
		ePKKP	08 45 34	Z	1.0	17.0 (0)		
		eSS	08 48 20	LR	30	25.0 (2)		
		e	08 53 45	LR	31	28.0 (2)		
		e	08 59 00	LT	35	28.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	M.G
		eL	09 05 18	LZ	35	48.0 (2)		
		eL	09 14 40	LR	23	19.0 (2)		
		eL	09 14 40	LT	20	93.0 (1)		
		eL	09 14 40	LZ	27	11.0 (2)		
11	DH	eP†	08 34 01.8	Z	0.9	8.0 (0)	110.0	
		ePP	08 34 53	LZ	13	83.0 (1)		
		eSKS	08 40 31	LT	20	17.0 (2)		
		eSKKS	08 41 28	LT	21	10.0 (2)		
		ePS	08 43 48	LT	18	17.0 (2)		
		e	08 44 54	Z	0.7	10.0 (0)		
		ePPS	08 45 00	LT	17	20.0 (2)		
		e	08 50 04	LR	25	34.0 (2)		
		e	08 50 57	LT	22	65.0 (2)		
		e	09 01 59	LZ	31	20.0 (2)		
		e	09 04 50	LR	42	44.0 (2)		
		eL	09 11 32	LZ	38	64.0 (2)		
		eL	09 14 40	LZ	25	27.0 (2)		
		eL	09 14 40	LR	26	38.0 (2)		
		eL	09 14 40	LT	25	20.0 (2)		
11	SJ	eP†	08 34 09.1	Z	1.0	19.0 (0)	113.0	
		ePP	08 35 02	Z	2.0	58.0 (0)		
		ePP	08 35 04	LZ	22	70.0 (1)		
		eSKS	08 40 42	LR	22	25.0 (2)		
		eSKS	08 40 47	R	2.6	83.0 (1)		
		eSP	08 44 30	Z	3.3	65.0 (1)		
		eSP	08 44 30	LZ	20	86.0 (2)		
		e	08 48 44	Z	1.9	12.0 (1)		
		eSS	08 50 30	LR	20	48.0 (2)		
		e	08 55 50	LR	21	28.0 (2)		
		e	09 04 13	LT	25	49.0 (2)		
		eL	09 09 37	LZ	34	28.0 (2)		
		eL	09 16 47	LZ	19	87.0 (1)		
		eL	09 16 47	LR	25	39.0 (2)		
		eL	09 16 47	LT	23	65.0 (2)		
							AVG.	5.86
11	MN	eP	11 17 56.2	Z	0.5	3.6 (0)	2.2	
11	WI	eP	11 18 03.4	Z	0.5	13.0 (0)	3.0	
11	MN	eS	11 18 25	R	0.5	13.0 (0)	2.2	
11	WI	eS	11 18 42	R	0.5	14.0 (0)	3.0	
11	WI	eP	13 51 29.8	Z	0.5	4.3 (0)	2.4	
		eS	13 52 01	R	0.5	27.0 (0)		
11	WI	eP	17 22 57.4	Z	0.3	15.0 (0)	0.6	
		eS	17 23 06	R	0.4	22.0 (0)		

11 18 12 53.7 06.6 S 130.3 E BANDA SEA
H =173 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MN	eP	18 31 30.2	Z	1.0	1.6 (0)	112.0	
11	LC	eP	20 06 22.6	Z	0.2	11.0 (0)	1.5	
		eS	20 06 42	T	0.4	9.8 (0)		
11	MN	eP	20 09 56.6	Z	0.8	1.0 (0)		
11	WI	eP	20 10 09.8	Z	0.7	2.4 (0)		
12	03 36	50.2	11.3 S 166.5 E	SANTA CRUZ ISLANDS				
			H =043 KM					
12	04 49	28.4	37.5 N 030.7 E	TURKEY				
			H =033 KM					
12	05 13	33.1	12.2 N 087.8 W	W. COAST OF NICARAGUA				
			H =033 KM					
12	SJ	eP	05 17 47.1	Z	1.0	38.0 (0)	18.0	4.54
12	MN	eP	05 20 47.3	Z	0.7	2.0 (0)	38.0	4.02
		ePCP	05 23 06	Z	0.7	2.5 (0)		
12	WI	eP	05 20 58.4	Z	0.7	4.7 (0)	39.0	4.32
12	DH	eL	05 29 02	LZ	35	89.0 (0)	32.0	
						AVG.		4.29
12	LC	eP	10 11 43.8	Z	0.6	3.1 (0)		
12	LC	eP	10 48 48.1	Z	0.7	1.9 (0)		
12	10 38	01.8	58.2 S 025.1 W	SANDWICH ISLANDS				
			H =033 KM					
12	MN	eP	11 42 29.6	Z	999.9	99.9 (9)		
12	LC	eP	11 59 33.3	Z	0.6	2.5 (0)		
12	MN	eP	14 27 18.0	Z	999.9	99.9 (9)		
12	MV	eP	14 27 57.1	Z	0.5	3.9 (0)	2.9	
		eS	14 28 34	T	0.6	9.9 (0)		
12	MN	eP	15 10 02.8	Z	0.4	20.0 (0)	1.1	
		eS	15 10 17	T	0.5	29.0 (0)		
12	DH	eP	15 15 55.2	Z	0.4	16.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	CP	eP	17 09 54.9	Z	0.2	9.2 (0)	0.6	
		eS	17 10 04	R	999.9	99.9 (9)		
12	MN	eP	18 56 13.7	Z	0.4	8.1 (0)	2.9	
		e	18 57 42	T	0.4	2.2 (0)		
		eS	18 57 50	T	0.4	13.0 (0)		
12	19 01	30.7	19.1 S 169.1 E	LOYALTY ISLANDS REGION				
			H =070 KM					
12	WI	eP	19 14 28.4	Z	0.5	1.7 (0)	91.0	4.57
12	WI	eP	19 24 37.6	Z	0.5	1.7 (0)	6.0	
		eS	19 25 52	T	0.4	15.0 (0)		
12	SJ	eP	20 18 49.0	Z	1.0	11.0 (1)		
12	20 35	17.0	36.0 S 072.4 W	CENTRAL CHILE				
			H =043 KM					
12	SJ	eP	20 46 14.2	Z	0.7	19.0 (0)	68.0	5.26
12	LC	eP	20 46 58.0	Z	0.7	19.0 (0)	76.0	5.20
12	CP	eP	20 47 24.5	Z	0.6	3.0 (0)	80.0	4.36
12	MN	eP	20 47 51.8	Z	1.0	4.1 (0)	86.0	4.43
						AVG.		4.81
12	LC	eP	20 50 45.6	Z	0.3	12.0 (0)	1.5	
		eS	20 51 05	R	0.4	17.0 (0)		
12	MN	eP	21 30 02.5	Z	0.3	2.4 (0)	1.4	
		eS	21 30 18	T	0.3	9.2 (0)		
12	SJ	eP	21 34 13.4	Z	1.0	19.0 (0)		
12	MN	eP	21 38 07.6	Z	999.9	99.9 (9)		
12	MV	eP	21 38 46.8	Z	0.6	31.0 (0)	3.0	
12	WI	eP	21 39 00.2	Z	0.3	3.0 (0)	4.0	
12	MV	eS	21 39 23	T	0.6	54.0 (0)	3.0	
12	TF	eP	21 39 48.6	Z	0.6	3.6 (0)	3.2	
12	WI	eS	21 39 49	R	999.9	99.9 (9)	4.0	
12	TF	eS	21 40 30	R	0.7	44.0 (0)	3.2	
13	SJ	eP	02 12 40.0	Z	1.0	19.0 (0)		
13	MN	eP	02 15 32.7	Z	1.0	2.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	CP	eP eS	03 53 44.0 03 53 53	Z Z	999.9 999.9	99.9 (9) 99.9 (9)	0.6	
13	06 35 56.0		02.1 N 083.5 W H =033 KM			300 MI. N. W. OF ECUADOR MAG 6.50-6.75 PAS		
13	SJ	eP eP ePP eL e	06 41 56.1 06 41 58 06 42 45 06 46 28 06 54 08	Z LZ LZ LZ Z	1.3 17 14 18 0.6	36.0 (1) 33.0 (2) 42.0 (2) 99.9 (9) 16.0 (0)	29.0	6.01
13	LC	eP eP ePP eS eS e eL eL eL eL	06 43 04.8 06 43 07 06 44 37 06 48 42 06 48 42 06 51 37 06 52 55 06 57 50 06 57 50 06 57 50	Z LZ LZ LR LT LT LZ LR LT LZ	1.5 17 17 999.9 26 27 20 999.9 19 999.9	18.0 (1) 11.0 (2) 66.0 (2) 99.9 (9) 60.0 (2) 82.0 (1) 24.0 (2) 99.9 (9) 96.0 (1) 99.9 (9)	37.0	5.11
13	DH	eP eP ePP e eS eS e eL	06 43 33.8 06 43 36 06 45 15 06 47 02 06 49 47 06 49 47 06 52 30 06 53 48	Z LZ LZ LZ LR LT LR	1.2 13 18 18 21 21 999.9	11.0 (1) 58.0 (1) 13.0 (2) 16.0 (2) 51.0 (2) 37.0 (2) 99.9 (9) 99.9 (9)	40.0	5.43
13	AR	eP eP eS eS eL eL eL	06 43 57.9 06 43 59 06 50 26 06 50 26 06 53 35 06 59 20 06 59 20	Z LZ LR LT LZ LR LZ	1.6 18 20 19 17 999.9 16	17.0 (1) 10.0 (2) 14.0 (3) 59.0 (2) 30.0 (2) 99.9 (9) 10.0 (3)	43.0	5.53
13	CP	eP eP ePP ePP eS eS e eLR eL eL	06 43 58.2 06 44 00 06 45 43 06 45 46 06 50 37 06 50 37 06 54 19 06 56 10 06 58 00 06 58 00	Z LZ Z LZ LT LR LZ LZ LT LZ	1.9 20 2.0 20 21 21 20 23 21 999.9	20.0 (1) 12.0 (2) 92.0 (0) 17.0 (2) 13.0 (3) 96.0 (2) 99.9 (9) 99.9 (9) 17.0 (3) 99.9 (9)	43.0	5.52

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	FM	eL eP eP ePP ePPP eS eS eL eL eL eL	06 58 00 06 44 19.3 06 44 17 06 46 09 06 46 53 06 51 36 06 51 36 06 58 37 07 02 17 07 02 17 07 02 17	LR Z LZ LZ LZ LR LT LZ LT LR	29 1.5 20 18 17 23 999.9 999.9 999.9 999.9 20	17.0 (3) 81.0 (0) 12.0 (3) 99.9 (9) 99.9 (9) 99.9 (9) 30.0 (2)	46.0	5.47
13	TF	eP eP ePP ePP eS eS e eLQ eLR eL eL eL	06 44 27.7 06 44 30 06 46 22 06 46 24 06 51 20 06 51 20 06 55 08 06 56 47 06 59 12 07 00 15 07 00 15 07 00 15	Z LZ Z LZ LT LR LZ LR LZ LT LR LZ	1.3 19 1.6 17 25 25 19 21 17 999.9 25 30	33.0 (0) 12.0 (2) 39.0 (0) 16.0 (2) 99.9 (9) 60.0 (2) 50.0 (1) 60.0 (2) 42.0 (2) 99.9 (9) 98.0 (2) 99.9 (9)	47.0	5.24
13	MN	eP eP ePP eS eS eSS eLQ eLR eP eP ePP e eS eS eSS eL	06 44 33.5 06 44 36 06 46 38 06 51 45 06 51 45 06 55 20 06 58 00 06 59 55 06 44 45.5 06 44 48 06 46 40 06 47 42 06 51 55 06 51 55 06 55 30 07 00 30	Z LZ LZ LR LT LR LT LZ Z LZ LZ LR LR LT LR LR	2.0 20 18 999.9 25 20 999.9 999.9 2.1 20 17 17 25 25 23 999.9	48.0 (0) 84.0 (1) 83.0 (1) 99.9 (9) 10.0 (2) 99.9 (9) 99.9 (9) 99.9 (9) 36.0 (1) 79.0 (1) 79.0 (1) 11.0 (2) 99.9 (9) 50.0 (2) 49.0 (2) 99.9 (9)	48.0	5.18
13	WI	eP eP ePP e eS eS eSS eL	06 44 45.5 06 44 48 06 46 40 06 47 42 06 51 55 06 51 55 06 55 30 07 00 30	Z LZ LZ LR LR LT LZ LR	2.1 20 17 17 25 25 23 999.9	36.0 (1) 79.0 (1) 79.0 (1) 11.0 (2) 99.9 (9) 50.0 (2) 49.0 (2) 99.9 (9)	49.0	5.00
13	MV	eP ePP ePPP eS eS eSS eL eL eL eL	06 44 53 06 46 56 06 47 56 06 52 16 06 52 16 06 56 02 07 00 30 07 01 30 07 01 30 07 01 30	LZ LZ LZ LR LR LT LR LT LR LZ	19 17 15 26 22 20 20 22 999.9 999.9	98.0 (1) 14.0 (2) 18.0 (2) 99.9 (9) 27.0 (2) 21.0 (2) 11.0 (2) 28.0 (2) 99.9 (9) 99.9 (9)	50.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	5.39
13	MV	eP	06 44 51.6	Z	1.5	74.0 (0)		
13	LC	eP	10 01 12.4	Z	0.6	3.6 (0)		
13	10 09 24.9		14.6 N 093.0 W H =118 KM					
13	SJ	eP	10 12 36.1	Z	1.0	38.0 (0)	14.0	4.52
		eL	10 11 65	LR	28	18.0 (2)		
13	LC	eP	10 14 06.2	Z	0.6	18.0 (0)	22.0	4.61
		eP	10 14 07	LZ	13	30.0 (1)		
		eL	10 21 35	LT	18	91.0 (1)		
		eL	10 23 04	LR	14	16.0 (2)		
		eL	10 23 04	LZ	14	77.0 (1)		
		eL	10 23 04	LT	13	17.0 (2)		
13	CP	eP	10 15 06.2	Z	1.2	7.0 (0)	28.0	4.18
		eLR	10 24 55	LZ	20	56.0 (1)		
		eL	10 24 55	LR	20	68.0 (1)		
		eL	10 24 55	LT	20	31.0 (1)		
13	MN	eP	10 15 47.6	Z	0.9	11.0 (0)	32.0	5.57
		ePCP	10 18 32	Z	0.7	1.7 (0)		
		eLQ	10 25 56	LT	29	70.0 (1)		
		eL	10 28 08	LT	18	28.0 (2)		
		eL	10 28 08	LZ	22	16.0 (1)		
		eL	10 28 08	LR	19	24.0 (1)		
		e	10 29 21	Z	0.8	1.6 (0)		
		eLR	10 30 10	LZ	17	80.0 (1)		
		eL	10 31 35	LR	14	18.0 (2)		
		eL	10 31 35	LT	12	83.0 (1)		
		eL	10 31 35	LZ	14	18.0 (2)		
13	WI	eP	10 16 01.0	Z	0.6	16.0 (0)	35.0	5.04
		eLQ	10 27 53	LT	20	68.0 (1)		
		eL	10 28 55	LT	17	18.0 (2)		
		eL	10 28 55	LZ	16	29.0 (1)		
		eL	10 28 55	LR	17	11.0 (2)		
		eLR	10 31 36	LZ	21	41.0 (1)		
		eL	10 32 25	LR	15	20.0 (2)		
		eL	10 32 25	LZ	15	18.0 (2)		
		eL	10 32 25	LT	16	34.0 (1)		
13	TF	eLQ	10 24 40	LR	30	55.0 (1)	32.0	
		eL	10 27 15	LR	21	48.0 (1)		
		eL	10 27 15	LZ	22	36.0 (1)		
		eLR	10 29 05	LZ	15	57.0 (1)		
		eL	10 31 40	LR	14	67.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	10 31 40	LZ	14	66.0 (1)		
		eL	10 31 40	LT	13			
13	DH	eL	10 26 55	LZ	27	51.0 (1)	32.0	
		eL	10 30 03	LT	17	98.0 (1)		
		eL	10 30 03	LR	17	68.0 (1)		
		eL	10 30 03	LZ	18	13.0 (2)		
13	MV	eLQ	10 28 10	LT	24	84.0 (1)	34.0	
		eL	10 29 00	LT	20	12.0 (2)		
		eL	10 29 00	LR	19	81.0 (1)		
		eL	10 29 00	LZ	20	18.0 (1)		
		eLR	10 32 02	LZ	15	74.0 (1)		
		eL	10 35 05	LT	21	22.0 (1)		
		eL	10 35 05	LZ	14	88.0 (1)		
		eL	10 35 05	LR	10	51.0 (0)		
							AVG.	4.78
13	WI	eP	10 29 34.6	Z	0.6	3.4 (0)		
13	LC	eP	10 47 01.6	Z	1.2	12.0 (0)		
13	CP	eP	10 47 17.8	Z	1.0	2.8 (0)		
13	LC	eP	11 00 37.7	Z	0.4	2.4 (0)		
13	LC	e	11 02 04	Z	0.6	1.6 (0)		
13	LC	eP	11 27 39.8	Z	0.7	4.3 (0)		
13	LC	eP	11 38 03.2	Z	0.5	3.2 (0)		
13	LC	eP	12 04 14.4	Z	0.6	1.0 (0)		
13	WI	eP	12 06 08.4	Z	0.6	0.9 (0)		
13	MN	eP	13 50 21.5	Z	0.8	1.6 (0)		
13	DH	eP	12 51 19.1	Z	1.0	14.0 (1)		
13	LC	eP	13 52 53.4	Z	0.6	1.6 (0)		
13	WI	eP	13 54 48.2	Z	0.6	1.4 (0)		
13	CP	eP	14 30 15.9	Z	0.2	50.0 (0)	0.6	
		eS	14 30 24	T	999.9	99.9 (9)		
13	14 44 33.3		01.9 N 127.5 E H =033 KM					
13	CP	eP	16 56 51.2	Z	0.2	17.0 (0)	0.7	
		eS	16 57 01	T	0.3	29.0 (0)		
13	LC	eP	19 59 38.2	Z	0.3	9.2 (0)	1.4	
		eS	19 59 54	R	0.4	19.0 (0)		
13	20 11 36.1		51.8 N 110.2 E H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	WI	eP	20 23 37.4	Z	0.9	19.0 (0)	79.0	4.86
13	MV	eP	20 23 37.8	Z	1.0	10.0 (0)	79.0	4.80
13	MN	eP	20 23 48.1	Z	1.0	5.8 (0)	80.0	4.43
13	CP	eP	20 24 18.5	Z	1.0	5.7 (0)	86.0	4.59
13	LC	eP	20 24 34.8	Z	1.2	6.0 (0)	90.0	4.66
							AVG.	4.66
13	WI	eP	21 31 46.0	Z	0.3	4.5 (0)	1.2	
		eS	21 32 01	T	0.4	16.0 (0)		
13	WI	eP	22 17 36.4	Z	0.7	1.7 (0)		
13	MN	eP	22 17 55.7	Z	0.6	1.4 (0)		
13	MN	e	22 19 29	Z	0.7	5.0 (0)		
13	MN	eL	22 19 50	R	0.5	2.2 (0)		
13	MV	eP	22 38 16.6	Z	0.3	2.8 (0)	0.6	
		eS	22 38 25	T	0.4	14.0 (0)		
14	01 10 50.5		49.9 S 163.0 E				N. OF MACQUARIE ISLANDS	
			H = 043 KM					
14	WI	eP	01 29 30.7	Z	1.0	2.3 (0)	115.0	
		ePP	01 30 28	LZ	20	24.0 (1)		
		ePS	01 40 12	LR	20	46.0 (1)		
		eSS	01 46 15	LR	26	88.0 (1)		
		eLQ	01 57 20	LR	28	10.0 (2)		
		eLR	02 03 00	LZ	34	23.0 (2)		
		eL	02 05 30	LZ	25	18.0 (2)		
		eL	02 05 30	LR	25	86.0 (1)		
		eL	02 05 30	LT	25	13.0 (2)		
14	TF	ePP	01 29 45	LZ	20	32.0 (1)	108.0	
		eSKS	01 36 00	LR	20	37.0 (1)		
		ePS	01 39 10	LR	22	53.0 (1)		
		eSS	01 45 00	LT	25	12.0 (2)		
		eLQ	01 55 25	LT	38	11.0 (3)		
		eLR	02 00 30	LZ	30	15.0 (2)		
		eL	02 07 40	LZ	18	32.0 (2)		
		eL	02 07 40	LR	18	20.0 (2)		
		eL	02 07 40	LT	18	86.0 (1)		
14	CP	ePP	01 29 47	LZ	20	20.0 (1)	109.0	
		ePS	01 39 20	LZ	20	25.0 (1)		
		e	01 55 45	LT	35	46.0 (2)		
		eL	01 59 25	LZ	25	35.0 (2)		
		eL	01 59 25	LR	25	14.0 (2)		
		eL	01 59 25	LT	25	16.0 (2)		
14	MN	ePP	01 30 06	LZ	20	21.0 (1)	113.0	
		eSKS	01 36 10	LT	20	31.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	01 38 00	LR	25	18.0 (1)		
		ePS	01 39 43	LT	20	41.0 (1)		
		eSS	01 45 43	LR	26	13.0 (2)		
		e	01 49 32	LR	21	30.0 (1)		
		eLQ	01 56 20	LR	30	24.0 (2)		
		eLR	02 00 45	LZ	35	22.0 (2)		
		eL	02 03 50	LZ	25	13.0 (2)		
		eL	02 03 50	LR	25	35.0 (1)		
		eL	02 03 50	LT	25	11.0 (2)		
14	LC	ePP	01 30 26	LZ	20	27.0 (1)	116.0	
		ePS	01 40 16	LT	23	89.0 (1)		
		eSS	01 46 24	LR	30	13.0 (2)		
		eSSS	01 50 38	LT	22	67.0 (1)		
		eLQ	01 57 15	LR	33	23.0 (2)		
		eLR	02 03 53	LZ	26	21.0 (2)		
		eL	02 05 30	LZ	25	22.0 (2)		
		eL	02 05 30	LR	25	73.0 (1)		
		eL	02 05 30	LT	25	18.0 (2)		
14	FM	ePP	01 30 40	LZ	21	17.0 (1)	114.0	
		e	01 40 33	LR	23	11.0 (2)		
		eLR	02 03 10	LZ	38	16.0 (2)		
		eL	02 07 50	LZ	22	12.0 (2)		
		eL	02 07 50	LR	22	15.0 (2)		
		eL	02 07 50	LT	22	18.0 (1)		
14	AR	eSKP	01 33 37	LZ	20	47.0 (1)	133.0	
		eSS	01 50 27	LT	28	16.0 (2)		
		eSSS	01 55 25	LT	25	93.0 (1)		
		eLQ	02 05 40	LT	53	80.0 (2)		
		eLR	02 15 00	LZ	25	19.0 (2)		
		eL	02 21 50	LZ	20	24.0 (2)		
		eL	02 21 50	LR	20			
		eL	02 21 50	LT	20	15.0 (2)		
14	MV	eSKS	01 36 10	LT	18	33.0 (1)	111.0	
		ePS	01 39 40	LT	18	67.0 (1)		
		e	01 45 28	LR	25	51.0 (1)		
		eLQ	01 56 05	LR	42	24.0 (2)		
		eLR	02 01 05	LZ	30	41.0 (1)		
		eL	02 03 30	LZ	25	51.0 (1)		
		eL	02 03 30	LR	25	56.0 (1)		
		eL	02 03 30	LT	25	15.0 (2)		
14	SJ	eSKS	01 36 30	LT	20	45.0 (1)	117.0	
		ePS	01 40 30	LT	25	13.0 (2)		
		eSS	01 47 10	LT	30	17.0 (2)		
		eSSS	01 51 20	LT	30	18.0 (2)		
		eL	01 54 30	LT	28	18.0 (2)		
		eL	02 05 00	LT	28	21.0 (2)		
		eL	02 13 00	LZ	18	95.0 (1)		
		eL	02 13 00	LR	20	21.0 (2)		
		eL	02 13 00	LT	21	37.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	DH	eLQ eLR eL eL eL	02 09 37 02 16 00 02 22 30 02 22 30 02 22 30	LT LZ LZ LR LT	45 40 25 25 25	38.0 (2) 31.0 (2) 26.0 (2) 93.0 (1) 33.0 (1)	139.0	
14	DH	eP	04 06 24.0	Z	0.6	8.2 (0)		
14	LC	eP	05 27 05.0	Z	0.7	5.6 (0)		
14	MN	eP	05 28 45.5	Z	0.8	1.6 (0)		
14	WI	eP	05 28 59.0	Z	0.7	2.3 (0)		
14	07 27 44.8		28.0 N 055.6 E H =043 KM				IRAN	
14	WI	eP	08 44 28.7	Z	0.9	2.8 (0)		
14	SJ	eP	11 50 28.8	Z	0.8	18.0 (0)		
14	LC	eP	11 51 56.2	Z	0.6	8.3 (0)		
14	CP	eP	11 52 54.5	Z	0.8	2.7 (0)		
14	FM	eP	11 53 12.2	Z	0.7	12.0 (0)		
14	MN	eP	11 53 35.5	Z	0.8	4.2 (0)		
14	WI	eP	11 53 48.0	Z	0.8	23.0 (0)		
14	SJ	eL	11 57 05	LR	28	66.0 (1)		
14	SJ	eL	12 01 10	LZ	18	59.0 (1)		
14	SJ	eL	12 01 10	LR	17	14.0 (2)		
14	SJ	eL	12 01 10	LT	17	46.0 (1)		
14	CP	eL	12 03 02	LZ	24	15.0 (1)		
14	MN	eL	12 04 10	LT	28	45.0 (1)		
14	CP	eL	12 06 22	LZ	16	44.0 (1)		
14	CP	eL	12 06 22	LT	15	31.0 (1)		
14	CP	eL	12 06 22	LR	15	44.0 (1)		
14	MN	eL	12 06 35	LZ	20	10.0 (1)		
14	MN	eL	12 06 35	LR	20	20.0 (1)		
14	MN	eL	12 06 35	LT	20	51.0 (1)		
14	DH	eP eS	16 06 23.5 16 06 48	Z R	0.5 0.5	14.0 (0) 28.0 (0)		1.8
14	CP	eP eS	17 40 47.0 17 40 52	Z R	0.3 0.3	3.7 (0) 28.0 (0)		0.3
14	19 54 56.6		09.3 S 110.3 E H =182 KM				OFF S. COAST OF JAVA	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	DH	eP eS	20 20 45.3 20 21 08	Z R	0.5 0.5	22.0 (0) 42.0 (0)		1.6
14	CP	eP eS	22 10 48.1 22 10 57	Z T	0.3 0.3	7.5 (0) 45.0 (0)		0.6
14	CP	eP eS	22 38 28.3 22 38 44	Z T	0.3 0.4	5.6 (0) 11.0 (0)		1.2
14	CP	eP	23 57 59.3	Z	0.3	47.0 (0)		
15	LC	eP	01 34 02.2	Z	0.8	3.0 (0)		
15	MN	eP	01 34 43.7	Z	1.0	4.1 (0)		
15	CP	eP	01 55 44.6	Z	999.9	99.9 (9)		
15	MN	eP	01 57 10.8	Z	0.6	0.7 (0)		
15	MV	eP	01 59 20.2	Z	0.8	10.0 (0)		
15	CP	eP eS	02 18 19.1 02 18 25	Z T	0.4 0.5	28.0 (0) 99.9 (9)		0.4
15	02 45 33.9		31.4 N 139.2 E H =155 KM				S. OF HONSHU, JAPAN	
15	WI	eP	02 57 22.2	Z	1.0	4.6 (0)	79.0	4.21
15	03 11 15.7		55.3 N 167.0 E H =033 KM				KOMANDORSKIE ISLANDS	
15	MV	eP	03 20 01.4	Z	0.7	2.5 (0)	49.0	4.32
15	WI	eP	03 20 06.0	Z	1.0	6.9 (0)	49.0	4.60
15	MN	eP	03 20 18.7	Z	1.0	3.3 (0)	51.0	4.25
15	LC	eP	03 21 35.6	Z	0.8	3.8 (0)	63.0	4.51
							AVG.	4.42
15	08 19 37.8		54.6 N 161.5 E H =052 KM				E. COAST OF KAMCHATKA	
15	MV	eP e eL eL eL	08 28 45.0 08 28 53 08 44 30 08 46 03 08 46 03	Z Z LZ LR LZ	0.8 1.0 23 25 23	13.0 (0) 10.0 (0) 32.0 (1) 23.0 (1) 33.0 (1)	52.0	4.98
15	WI	eP e	08 28 50.2 08 28 59	Z Z	1.0 1.0	18.0 (0) 14.0 (0)	53.0	5.01

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	08 44 42	LZ	25	50.0 (1)		
		eL	08 44 45	LR	25	30.0 (1)		
		eL	08 44 45	LT	25	20.0 (1)		
		eL	08 44 45	LZ	25	50.0 (1)		
15	MN	eP	08 29 02.7	Z	0.8	99.9 (9)	55.0	
		e	08 29 11	Z	1.2	30.0 (0)		
15	TF	eP	08 29 11.8	Z	0.9	24.0 (0)	56.0	5.23
		e	08 29 21	Z	1.0	33.0 (0)		
		eL	08 46 52	LZ	22	52.0 (1)		
		eL	08 47 45	LT	24	61.0 (1)		
		eL	08 47 45	LZ	22	73.0 (1)		
		eL	08 47 45	LR	22	41.0 (1)		
15	FM	eP	08 29 11.9	Z	1.0	7.8 (0)	56.0	4.69
		e	08 29 46	Z	1.0	16.0 (0)		
		eL	08 48 23	LZ	28	25.0 (1)		
15	CP	eP	08 29 38.1	Z	1.0	10.0 (0)	60.0	4.85
		e	08 29 48	Z	1.0	10.0 (0)		
		eL	08 48 20	LZ	24	50.0 (1)		
		eL	08 49 42	LT	25	39.0 (1)		
		eL	08 49 42	LZ	22	65.0 (1)		
15	AR	eP	08 30 06.5	Z	0.8	20.0 (0)	64.0	5.24
		e	08 30 16	Z	0.8	14.0 (0)		
15	LC	eP	08 30 16.3	Z	1.0	12.0 (0)	66.0	4.93
		e	08 30 25	Z	1.0	14.0 (0)		
		eL	08 52 40	LZ	28	41.0 (1)		
		eL	08 54 07	LZ	25	47.0 (1)		
		eL	08 54 07	LR	25	46.0 (1)		
15	DH	eP	08 30 57.1	Z	0.8	31.0 (0)	72.0	5.33
							AVG.	5.03
15	08 29 46.7		04.7 N 122.6 E				CELEBES SEA	
			H =620 KM					
15	DH	ePP	08 50 13	Z	0.7	15.0 (0)	128.0	
15	SJ	eL	08 58 00	LR	27	44.0 (1)	129.0	
		eL	09 01 30	LT	20	99.0 (1)		
		eL	09 01 30	LR	20	41.0 (1)		
15	10 06 53.6		45.2 N 132.6 E				MANCHURIA, CHINA	
			H =037 KM					
15	MV	eP	10 18 21.0	Z	1.0	6.7 (0)	74.0	4.55
15	WI	eP	10 18 25.0	Z	1.0	4.6 (0)	74.0	4.39
15	MN	eP	10 18 35.0	Z	1.0	4.2 (0)	76.0	4.41
15	TF	eP	10 18 42.4	Z	0.8	7.8 (0)	77.0	4.72

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	CP	eP	10 19 03.2	Z	1.0	7.2 (0)	81.0	4.58
15	AR	eP	10 19 17.3	Z	1.0	16.0 (0)	83.0	5.09
15	LC	eP	10 19 32.5	Z	0.8	4.6 (0)	86.0	4.59
							AVG.	4.62
15	11 20 44.5		51.8 N 177.0 W				ANDREANOF, ALEUTIAN IS.	
			H =053 KM					
15	MV	eP	11 28 16.0	Z	0.8	9.5 (0)	40.0	4.58
		ePCP	11 30 20	Z	0.8	10.0 (0)		
		eL	11 39 25	LZ	25	33.0 (1)		
		eL	11 40 12	LR	25	26.0 (1)		
		eL	11 40 12	LZ	25	32.0 (1)		
15	WI	eP	11 28 25.3	Z	0.8	13.0 (0)	41.0	4.76
		ePCP	11 30 24	Z	0.8	5.8 (0)		
		e	11 34 55	R	2.0	4.9 (0)		
		eL	11 40 40	LZ	25	50.0 (1)		
		eL	11 41 18	LT	25	40.0 (1)		
		eL	11 41 18	LR	20	14.0 (1)		
		eL	11 41 18	LZ	25	43.0 (1)		
15	MN	eP	11 28 35.9	Z	0.8	8.4 (0)	42.0	4.52
		eS	11 34 55	T	1.5	11.0 (0)		
		eS	11 34 55	R	2.0	18.0 (0)		
15	TF	eP	11 28 42.9	Z	1.0	8.3 (0)	43.0	4.42
		e	11 28 55	Z	0.8	10.0 (0)		
		eL	11 40 55	LZ	25	42.0 (1)		
		eL	11 40 55	LT	25	41.0 (1)		
15	FM	eP	11 29 01.2	Z			46.0	
		eL	11 42 59	LZ	28	41.0 (1)		
15	CP	eP	11 29 13.8	Z	0.8	7.2 (0)	47.0	4.80
		e	11 29 26	Z	0.8	7.2 (0)		
		ePCP	11 30 45	Z	0.7	4.3 (0)		
		eL	11 42 50	LZ	25	31.0 (1)		
15	LC	eP	11 30 01.3	Z	0.8	15.0 (0)	54.0	5.07
15	AR	eP	11 30 13.6	Z	0.8	31.0 (0)	55.0	5.39
15	SJ	eP	11 31 01.4	Z	0.8	24.0 (0)	62.0	5.37
		e	11 31 13	Z	0.8	24.0 (0)		
15	DH	eP	11 31 17.0	Z	1.0	49.0 (0)	65.0	5.53
		eL	11 57 20	LZ	22	21.0 (1)		
							AVG.	4.94
15	13 08 42.0		14.5 N 055.3 E				SOCOTRA ISLAND REGION	
			H =033 KM					
15	MN	eP	13 27 45.2	Z	0.8	2.1 (0)	127.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	DH	eL	16 08 30	LZ	22	14.0 (1)		
15	16 22 12.3		37.5 S 073.6 W H =033 KM				COAST OF CENTRAL CHILE	
15	CP	eP	17 36 17.8	Z	0.3	14.0 (0)	0.1	
		eS	17 36 22	T	0.4	33.0 (0)		
15	LC	eP	17 49 24.5	Z	0.4	1.6 (0)	2.4	
		eS	17 49 55	R	0.5	4.6 (0)		
15	WI	eP	18 19 34.4	Z	1.7	22.0 (0)		
15	MN	eP	18 20 02.0	Z	1.0	5.0 (0)		
15	DH	eP	18 52 02.5	Z	0.3	19.0 (0)	1.8	
		eS	18 52 26	R	0.4	54.0 (0)		
15	20 15 29.9		21.2 S 179.3 W H =600 KM				FIJI ISLANDS	
16	TF	eL	00 52 00	LZ	20	53.0 (1)		
16	TF	eL	00 52 00	LR	20	16.0 (1)		
16	SJ	eL	01 23 00	LR	25	46.0 (1)		
16	MN	eL	01 40 00	LZ	25	19.0 (1)		
16	MN	eL	01 40 00	LR	25	20.0 (1)		
16	MN	eL	01 40 00	LT	25	17.0 (1)		
16	CP	eS	06 57 07	T	0.3	28.0 (0)	0.1	
		eP	06 57 03.5	Z	0.3	18.0 (0)		
16	MV	eP	08 57 10.0	Z	0.7	4.3 (0)		
16	TF	eP	08 57 20.6	Z	1.0	13.0 (0)		
16	WI	eP	08 57 22.0	Z	0.7	5.8 (0)		
16	MN	eP	08 57 24.4	Z	0.8	7.3 (0)		
16	CP	eP	08 57 40.6	Z	1.0	5.8 (0)		
16	FM	eP	08 57 44.8	Z	0.5	14.0 (1)		
16	WI	e	08 57 49	Z	0.8	2.9 (0)		
16	MN	e	08 57 54	Z	1.0	5.0 (0)		
16	LC	eP	08 58 17.7	Z	0.7	4.4 (0)		
16	LC	e	08 58 50	Z	0.8	2.3 (0)		
16	DH	eP	13 59 41.0	Z	0.2	12.0 (0)	0.1	
16	DH	eS	14 00 04	R	0.3	12.0 (0)	0.1	
16	MN	eP	14 58 30.2	Z	1.0	2.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	MN	eP	16 00 25.8	Z	0.4	20.0 (0)	0.8	
		eS	16 00 37	T	0.4	19.0 (0)		
16	TF	eP	16 00 52.6	Z	0.3	5.6 (0)	0.5	
16	MV	eP	16 00 53.7	Z	0.5	2.5 (0)	2.9	
16	WI	eP	16 01 21.5	Z	0.3	1.5 (0)	4.0	
16	TF	eS	16 01 23	T	0.3	58.0 (0)	0.5	
16	MV	eS	16 01 30	Z	0.5	8.7 (0)	2.9	
16	WI	eS	16 02 11	R	0.5	1.1 (0)	4.0	
16	WI	eP	16 53 43.5	Z	1.0	3.4 (0)		
16	MN	eP	16 53 53.0	Z	1.0	4.2 (0)		
16	MV	eP	16 54 05.7	Z	1.0	6.7 (0)		
16	CP	eP	16 54 53.5	Z	0.3	6.5 (0)	0.1	
		eS	16 54 57	T	0.3	25.0 (0)		
16	MN	eP	18 46 51.7	Z	0.4	4.4 (0)	1.1	
		eS	18 47 06	T	0.4	3.3 (0)		
17	FM	e	00 06 20	LT	20	50.0 (1)		
17	LC	eL	00 08 55	LZ	30	45.0 (1)		
17	FM	eLR	00 09 00	LZ	30	39.0 (1)		
17	FM	eL	00 13 02	LZ	20	40.0 (1)		
17	FM	eL	00 13 02	LR	18	35.0 (1)		
17	LC	eL	00 17 02	LZ	17	74.0 (1)		
17	LC	eL	00 17 02	LR	17	31.0 (1)		
17	LC	eL	00 17 02	LT	17	59.0 (1)		
17	AR	eL	00 19 30	LZ	32	25.0 (1)		
17	AR	eL	00 21 03	LZ	26	53.0 (1)		
17	AR	eL	00 21 03	LR	25	38.0 (1)		
17	AR	eL	00 21 03	LT	25	21.0 (1)		
17	00 32 26.9		15.8 S 172.9 W H =033 KM				SAMOA ISLANDS REGION	
17	TF	eP	00 43 45.8	Z	1.0	12.0 (0)	72.0	4.88
		eS	00 53 17	LR	23	94.0 (1)		
		eS	00 53 17	LT	17	32.0 (1)		
		eLR	01 05 05	LZ	28	89.0 (1)		
		eL	01 09 00	LZ	18	12.0 (2)		
		eL	01 09 00	LR	18	92.0 (1)		
17	MV	eL	01 09 00	LT	20	17.0 (1)		
		eP	00 43 55.0	Z	1.0	5.2 (0)	73.0	4.52
		e	00 44 05	Z	1.3	11.0 (0)		
		eL	01 05 12	LZ	33	33.0 (1)		
		eL	01 07 48	LZ	23	21.0 (1)		
		eL	01 07 48	LR	21	19.0 (1)		
		eL	01 07 48	LT	22	50.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	MN	eP	00 44 03.3	Z	1.2	16.0 (0)	74.0	4.86
		e	00 44 14	Z	1.2	12.0 (0)		
		eS	00 53 46	LR	20	10.0 (1)		
		eS	00 53 46	LT	18	45.0 (1)		
		e	00 54 30	LT	29	65.0 (1)		
		e	00 55 08	LZ	23	21.0 (1)		
		eL	01 03 47	LR	22	67.0 (1)		
		eLR	01 06 15	LZ	35	98.0 (1)		
		eL	01 07 35	LZ	25	54.0 (1)		
		eL	01 07 35	LR	22	20.0 (1)		
		eL	01 07 35	LT	23	59.0 (1)		
17	WI	eP	00 44 16.2	Z	1.2	15.0 (0)	76.0	4.90
		e	00 44 27	Z	1.2	19.0 (0)		
		eL	01 07 31	LZ	30	55.0 (1)		
		eL	01 07 46	LZ	32	61.0 (1)		
		eL	01 07 46	LR	25	28.0 (1)		
		eL	01 07 46	LT	30	11.0 (2)		
17	LC	eP	00 44 33.5	Z	0.7	5.0 (0)	80.0	4.52
		e	00 44 43	Z	1.0	17.0 (0)		
17	DH	eSS	01 06 20	LR	25	42.0 (1)	107.0	
		eL	01 22 42	LZ	31	29.0 (1)		
		eL	01 31 02	LZ	19	51.0 (1)		
		eL	01 31 02	LR	19	41.0 (1)		
							AVG.	4.74
17	03 07 46.7		07.9 N 071.4 W			VENEZUELA		
			H =017 KM					
17	SJ	eP	03 14 17.0	Z	0.6	8.2 (0)	33.0	4.82
17	LC	eP	03 15 27.5	Z	0.8	7.7 (0)	40.0	4.42
17	AR	eP	03 15 29.3	Z	0.7	4.0 (0)	41.0	4.27
17	FM	eP	03 16 26.7	Z	0.5	1.6 (0)	48.0	4.35
17	MN	eP	03 16 55.0	Z	0.6	1.4 (0)	52.0	4.09
17	WI	eP	03 17 00.6	Z	0.6	1.9 (0)	53.0	4.22
17	TF	eP	03 17 02.6	Z	0.7	4.2 (0)	53.0	4.50
							AVG.	4.38
17	03 23 31.5		31.6 S 067.7 W			SAN JUAN PROV., ARGENTINA		
			H =033 KM					
17	SJ	eP	03 34 17.1	Z	0.6	94.0 (0)	66.0	6.10
17	LC	iP	03 35 04.5C	Z	0.9	10.0 (1)	74.0	5.78
		e	03 35 09	Z	1.0	64.0 (0)		
17	DH	eP	03 35 06.2	Z	0.9	47.0 (0)	74.0	5.45
		e	03 35 11	Z	0.8	36.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	CP	eP	03 35 34.6	Z	0.9	19.0 (0)	79.0	5.05
		eL	04 03 05	LZ	18	17.0 (1)		
17	AR	eP	03 35 35.4	Z	0.7	19.0 (0)	79.0	5.17
17	FM	eP	03 35 50.4	Z	0.8	33.0 (0)	82.0	5.42
		e	03 35 55	Z	0.8	27.0 (0)		
		eL	04 06 12	LZ	25	82.0 (0)		
		eL	04 08 00	LZ	19	20.0 (1)		
		eL	04 08 00	LT	18	29.0 (1)		
17	TF	eP	03 35 54.9	Z	0.9	23.0 (0)	83.0	5.31
17	MN	eP	03 36 01.8	Z	1.0	14.0 (0)	84.0	5.05
17	WI	eP	03 36 10.7	Z	1.2	40.0 (0)	86.0	5.36
17	MV	eP	03 36 12.3	Z	1.5	23.0 (0)	87.0	5.12
							AVG.	5.38
17	03 56 12.9		12.2 S 167.1 E			SANTA CRUZ ISLANDS		
			H =018 KM					
17	MN	eP	04 34 36.8	Z	999.9	99.9 (9)		
17	05 04 31.5		10.6 N 121.6 E			PANAY REG., PHILIPPINE IS.		
			H =033 KM					
17	MV	eP	05 18 31.8	Z	1.5	11.0 (0)	104.0	5.50
		ePP	05 22 48	Z	2.0	37.0 (0)		
		eL	05 47 25	LR	22	43.0 (2)		
		eL	05 52 28	LZ	25	15.0 (2)		
		eL	05 58 08	LZ	20	17.0 (2)		
		eL	05 58 08	LR	21	15.0 (2)		
		eL	05 58 08	LT	24	11.0 (2)		
17	WI	ePD	05 18 39.9	Z	1.6	22.0 (0)	105.0	5.87
		ePP	05 23 01	Z	1.2	11.0 (0)		
		eSKS	05 29 35	LR	17	45.0 (1)		
		ePS	05 32 15	LR	17	71.0 (1)		
		e	05 34 41	Z	1.5	11.0 (0)		
		eSS	05 37 48	LR	18	49.0 (1)		
		e	05 39 50	LR	18	13.0 (2)		
		eLQ	05 48 25	LR	25	71.0 (1)		
		eL	05 49 32	LZ	23	67.0 (1)		
		eL	05 49 32	LR	25	39.0 (2)		
		eL	05 49 32	LT	25	23.0 (2)		
		eLR	05 54 21	LZ	30	27.0 (2)		
		eL	05 58 45	LZ	21	47.0 (2)		
		eL	05 58 45	LR	22	17.0 (2)		
		eL	05 58 45	LT	22	34.0 (2)		
17	MN	ePD	05 18 43.7	Z	2.0	22.0 (0)	106.0	5.84

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	05 23 10	Z	1.5	10.0 (0)		
		e	05 29 40	LR	18	50.0 (1)		
		eSS	05 38 10	LT	27	71.0 (1)		
		e	05 39 47	LT	24	11.0 (2)		
		eLQ	05 48 55	LT	38	60.0 (2)		
		eL	05 50 20	LZ	22	73.0 (1)		
		eL	05 50 20	LR	24	12.0 (2)		
		eL	05 50 20	LT	28	18.0 (2)		
		eLR	05 52 35	LZ	26	18.0 (2)		
		eL	05 56 04	LZ	25	34.0 (2)		
		eL	05 56 04	LR	23	25.0 (2)		
		eL	05 56 04	LT	24	15.0 (2)		
17	CP	ePD	05 19 07	LZ	15	14.0 (1)	109.0	
		ePP	05 23 29	Z	2.0	20.0 (0)		
		ePP	05 23 32	LZ	20	21.0 (1)		
		eL	05 54 56	LZ	32	28.0 (2)		
		eL	05 59 52	LZ	22	36.0 (2)		
		eL	05 59 52	LR	25	18.0 (2)		
		eL	05 59 52	LT	22	20.0 (2)		
17	AR	eP†	05 23 16.3	Z	0.7	4.0 (0)	118.0	
		e	05 42 47	LR	22	23.0 (2)		
		eL	05 58 05	LR	35	57.0 (2)		
		eL	06 06 30	LZ	30	20.0 (2)		
		eL	06 14 50	LZ	24	44.0 (2)		
		eL	06 14 50	LR	23	18.0 (2)		
		eL	06 14 50	LT	23	51.0 (1)		
17	LC	eP†	05 23 17.1	Z	1.0	3.7 (0)	116.0	
		ePP	05 24 24	Z	2.5	11.0 (1)		
		ePKKP	05 33 46	Z	1.0	2.5 (0)		
		e	05 40 46	LT	24	92.0 (1)		
		eL	05 42 23	LT	21	13.0 (2)		
		eL	05 52 52	LT	28	18.0 (2)		
		eLR	05 59 30	LZ	28	14.0 (2)		
		eL	06 01 40	LZ	27	33.0 (2)		
		eL	06 01 40	LR	25	25.0 (2)		
		eL	06 01 40	LT	23	52.0 (1)		
17	FM	ePP	05 23 31	Z	2.0	62.0 (0)	109.0	
		eL	05 49 54	LR	32	20.0 (2)		
		eL	05 55 20	LZ	25	10.0 (2)		
		eL	06 00 20	LZ	23	19.0 (2)		
		eL	06 00 20	LR	25	25.0 (2)		
		eL	06 00 20	LT	25	20.0 (2)		
17	DH	eP†	05 23 31.5	Z	1.0	19.0 (0)	126.0	
		ePP	05 25 20	Z	1.6	74.0 (0)		
		ePP	05 25 20	LZ	12	58.0 (1)		
		e	05 37 47	LZ	19	96.0 (1)		
		eL	06 14 00	LZ	30	15.0 (2)		
		eL	06 19 15	LZ	22	27.0 (2)		
		eL	06 19 15	LR	22	26.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	SJ	eL	06 19 15	LT	21	19.0 (2)		
		eP†	05 23 34.8	Z	1.0	19.0 (0)	125.0	
		ePP	05 25 24	Z	2.0	13.0 (1)		
		eL	05 53 40	LT	22	21.0 (2)		
		eL	05 57 05	LT	25	16.0 (2)		
		eLR	06 04 08	LZ	17	13.0 (2)		
		eL	06 09 50	LZ	23	22.0 (2)		
		eL	06 09 50	LR	21	51.0 (2)		
		eL	06 09 50	LT	21	30.0 (2)		
17	TF	eL	05 52 30	LZ	27	13.0 (2)	106.0	
		eL	05 57 10	LZ	22	82.0 (2)		
		eL	05 57 10	LR	23	44.0 (2)		
		eL	05 57 10	LT	22	51.0 (2)		
							AVG.	5.74
17	LC	eP	05 11 27.2	Z	0.5	1.8 (0)		
17	LC	eP	05 59 40.3	Z	0.6	2.1 (0)		
17	07 26 33.4		04.7 S 079.4 W				PERU-ECUADOR BORDER	
							H =096 KM	
17	SJ	eP	07 33 36.5	Z	0.9	45.0 (0)	37.0	5.39
17	LC	eP	07 34 42.2	Z	1.5	57.0 (0)	45.0	5.09
17	DH	eP	07 34 55.4	Z	0.6	20.0 (0)	47.0	5.14
		epP	07 35 22	Z	1.0	48.0 (0)		
17	AR	eP	07 35 23.7	Z	0.7	36.0 (0)	50.0	5.41
17	FM	eP	07 35 44.4	Z	1.0	35.0 (0)	54.0	5.34
17	MN	eP	07 36 04.6D	Z	1.0	43.0 (0)	56.0	5.43
17	WI	eP	07 36 14.6	Z	1.0	41.0 (0)	57.0	5.41
17	MV	eP	07 36 20.0	Z	0.7	5.2 (0)	58.0	4.67
							AVG.	5.24
17	TF	eP	11 04 25.2	Z	0.3	23.0 (0)	1.8	
17	MN	eP	11 04 34.4	Z	0.5	0.6 (0)	3.4	
		e	11 04 39	Z	0.3	7.1 (0)		
17	TF	eS	11 04 49	T	999.9	99.9 (9)	1.8	
17	CP	eP	11 04 57.0	Z	0.3	2.8 (0)	3.6	
17	MV	eP	11 05 09.0	Z	0.3	2.3 (0)	4.9	
17	MN	eS	11 05 17	R	0.4	10.0 (0)	3.4	
17	WI	eP	11 05 33.4	Z	0.4	1.5 (0)	6.0	
17	CP	eS	11 05 41	T	0.3	31.0 (0)	3.6	
17	MV	eS	11 06 02	T	0.4	12.0 (0)	4.9	
17	WI	eS	11 06 47	R	0.6	4.3 (0)	6.0	
17	11 48 47.3		15.2 S 178.6 W				FIJI ISLANDS	
							H =391 KM	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	LC	eP	12 00 34.0	Z	0.6	2.1 (0)	84.0	4.05
17	MN	eP	11 58 35.4	Z	999.9	99.9 (9)		
17	WI	eP	12 09 24.3	Z	1.2	3.8 (0)		
17	MN	eP	14 20 22.8	Z	999.9	99.9 (9)		
17	DH	eP	14 20 53.6	Z	0.5	18.0 (0)	1.9	
17	WI	eP	14 20 57.8	Z	0.3	2.6 (0)	3.1	
17	MV	eP	14 21 02.8	Z	0.3	18.0 (0)	1.5	
17	WI	e	14 21 04	Z	0.4	34.0 (0)	3.1	
17	DH	eS	14 21 19	R	0.4	63.0 (0)	1.9	
17	MV	e	14 21 32	T	0.3	19.0 (0)	1.5	
17	WI	eS	14 21 37	Z	999.9	99.9 (9)	3.1	
17	MV	eS	14 21 38	T	0.5	61.0 (0)	1.5	
17	16 19 47.3		19.3 S 177.5 W				FIJI ISLANDS	
			H = 528 KM					
17	CP	eP	16 30 52.6	Z	1.0	7.2 (0)	78.0	4.06
17	MV	eP	16 30 53.8	Z	1.0	21.0 (0)	78.0	4.52
17	MN	eP	16 31 02.1	Z	0.7	9.3 (0)	80.0	4.32
17	WI	eP	16 31 13.2	Z	0.6	13.0 (0)	82.0	4.78
17	LC	eP	16 31 28.8	Z	0.9	32.0 (0)	85.0	4.95
						AVG.		4.53
17	CP	eP	17 16 36.6	Z	0.2	12.0 (0)	0.6	
		eS	17 16 46	T	0.2	25.0 (0)		
17	CP	eP	18 21 45.2	Z	0.3	8.4 (0)	0.1	
		eS	18 21 48	T	0.3	19.0 (0)		
17	LC	eP	20 09 54.7	Z	0.2	13.0 (0)	1.5	
17	DH	eP	20 09 55.5	Z	0.6	12.0 (0)		
17	LC	eS	20 10 13	R	0.3	11.0 (0)	1.5	
17	DH	eP	20 12 58.8	Z	0.3	19.0 (0)	0.7	
		eS	20 13 09	R	0.3	49.0 (0)		
17	MV	eP	22 31 35.3	Z	0.2	9.7 (0)	1.2	
		eS	22 31 52	T	0.3	25.0 (0)		
17	22 55 55.4		15.4 S 172.7 W				SAMOA ISLANDS REGION	
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	TF	eP	23 07 13.5	Z	1.0	8.3 (0)	71.0	4.72
		eL	23 28 15	LZ	25	15.0 (1)		
		eL	23 30 12	LZ	21	41.0 (1)		
		eL	23 30 12	LR	20	47.0 (1)		
17	MV	eP	23 07 21.8	Z	1.0	3.5 (0)	73.0	4.35
17	MN	eP	23 07 31.2	Z	1.0	7.5 (0)	74.0	4.61
		eLR	23 29 45	LZ	30	19.0 (1)		
		eL	23 30 27	LZ	27	27.0 (1)		
		eL	23 30 27	LR	27	16.0 (1)		
		eL	23 30 27	LT	25	24.0 (1)		
17	WI	eP	23 07 43.9	Z	1.0	4.6 (0)	77.0	4.46
		eL	23 32 17	LZ	27	43.0 (1)		
		eL	23 32 28	LZ	25	39.0 (1)		
		eL	23 32 28	LR	23	21.0 (1)		
		eL	23 32 28	LT	25	21.0 (1)		
17	FM	eP	23 07 56.7	Z	0.6	3.7 (0)	78.0	4.59
		eL	23 32 22	LZ	30	19.0 (1)		
		eL	23 34 18	LZ	22	26.0 (1)		
		eL	23 34 18	LR	20	20.0 (1)		
17	LC	eP	23 08 00.1	Z	0.7	3.1 (0)	79.0	4.38
		eL	23 33 05	LZ	25	29.0 (1)		
		eL	23 35 08	LZ	20	24.0 (1)		
		eL	23 35 08	LR	22	95.0 (0)		
		eL	23 35 08	LT	20	17.0 (2)		
17	CP	eL	23 28 57	LZ	25	18.0 (1)	72.0	
17	AR	eL	23 43 00	LZ	30	23.0 (1)	97.0	
		eL	23 44 50	LZ	25	13.0 (1)		
		eL	23 44 50	LR	25	24.0 (1)		
17	DH	eLR	23 47 00	LZ	35	27.0 (1)	105.0	
		eL	23 51 55	LZ	20	18.0 (1)		
		eL	23 51 55	LR	20	95.0 (0)		
		eL	23 51 55	LT	20	99.0 (0)		
						AVG.		4.52
17	FM	eP	23 05 29.0	Z	0.2	42.0 (0)	0.1	
17	CP	eL	23 05 30	LZ	30	63.0 (1)		
17	FM	eS	23 05 31	T	0.2	24.0 (1)	0.1	
17	CP	eL	23 09 30	LZ	19	43.0 (1)		
17	CP	eL	23 09 30	LR	22	61.0 (1)		
17	CP	eL	23 09 30	LT	22	41.0 (1)		
18	02 06 40.2		19.9 S 170.2 E				LOYALTY ISLANDS	
			H = 078 KM					
18	MN	eP	02 19 34.7	Z	0.8	2.1 (0)	90.0	4.34

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	04 01	33.5	21.9 S 179.3 W H = 516 KM	FIJI ISLANDS REGION				
18	CP	eP	04 12 56.6	Z	1.2	17.0 (0)	81.0	3.88
18	MV	eP	04 12 58.2	Z	1.2	17.0 (0)	82.0	4.39
18	MN	eP	04 13 05.0	Z	1.2	15.0 (0)	83.0	4.40
18	WI	eP	04 13 16.5	Z	1.2	11.0 (0)	85.0	4.36
18	LC	eP	04 13 30.5	Z	1.0	13.0 (0)	88.0	4.63
		e	04 15 44	Z	1.0	5.0 (0)		
							AVG.	4.33
18	04 28	56.1	37.0 N 032.5 E H = 033 KM	TURKEY				
18	DH	eP	04 40 46.8	Z	1.0	29.0 (0)	77.0	5.26
18	05 42	02.8	03.5 S 150.5 E H = 019 KM	NEW IRELAND				
18	MN	eL	06 20 15	LZ	25	22.0 (1)	93.0	
		eL	06 29 32	LR	22	28.0 (1)		
		eL	06 29 32	LT	22	17.0 (1)		
		eL	06 29 32	LZ	20	26.0 (1)		
18	FM	eL	06 22 10	LZ	25	13.0 (1)	97.0	
18	TF	eL	06 24 45	LZ	30	29.0 (1)	92.0	
		eL	06 26 10	LT	22	17.0 (1)		
		eL	06 26 10	LZ	22	30.0 (1)		
18	WI	eL	06 26 07	LZ	25	31.0 (1)	94.0	
		eL	06 30 38	LR	20	23.0 (1)		
		eL	06 30 38	LT	20	21.0 (1)		
		eL	06 30 38	LZ	20	31.0 (1)		
18	CP	eL	06 26 12	LZ	25	31.0 (1)	95.0	
		eL	06 27 15	LT	25	20.0 (1)		
		eL	06 27 15	LZ	25	34.0 (1)		
18	TF	eP	06 23 45.0	Z	999.9	99.9 (9)		
18	MN	eP	06 24 45.2	Z	0.5	1.3 (0)		
18	DH	eL	06 44 52	LZ	25	19.0 (1)		
18	DH	eL	06 49 25	LZ	22	21.0 (1)		
18	DH	eL	06 49 25	LR	22	25.0 (1)		
18	DH	eL	06 49 25	LT	20	10.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	06 59	33.2	00.8 N 082.3 W H = 033 KM	OFF COAST OF ECUADOR				
18	SJ	eP	07 05 48.8	Z	0.8	11.0 (0)	31.0	4.77
		eL	07 01 55	LR	25	73.0 (1)		
		eL	07 01 55	LR	25	73.0 (1)		
		eL	07 01 55	LT	25	54.0 (1)		
18	LC	eP	07 06 56.3	Z	1.0	5.0 (0)	39.0	4.20
18	CP	eP	07 07 48.1	Z	1.0	2.6 (0)	45.0	4.05
		eL	07 20 55	LZ	22	21.0 (1)		
18	FM	eP	07 08 04.0	Z	0.7	4.2 (0)	47.0	4.58
18	MN	eP	07 08 26.0	Z	0.9	8.0 (0)	50.0	4.65
18	WI	eP	07 08 37.6	Z	1.0	4.6 (0)	52.0	4.40
		eL	07 24 55	LR	22	23.0 (1)		
		eL	07 28 45	LR	18	82.0 (1)		
		eL	07 28 45	LT	15	22.0 (1)		
		eL	07 28 45	LZ	18	83.0 (1)		
18	DH	eL	07 19 30	LZ	27	64.0 (1)	43.0	
		eL	07 20 28	LR	22	40.0 (1)		
		eL	07 20 28	LT	22	30.0 (1)		
		eL	07 20 28	LZ	22	60.0 (1)		
							AVG.	4.44
18	FM	eL	07 00 10	LZ	25	17.0 (1)		
18	WI	eP	07 07 05.0	Z	0.7	2.3 (0)		
18	CP	eL	07 53 15	LZ	25	17.0 (1)		
18	MN	eL	07 57 15	LZ	22	26.0 (1)		
18	CP	eP	07 57 32.7	Z	0.5	9.6 (0)	1.3	
		eS	07 57 49	T	999.9	99.9 (9)		
18	WI	eL	07 59 05	LT	25	38.0 (1)		
18	WI	eL	07 59 05	LR	25	18.0 (1)		
18	WI	eL	07 59 05	LZ	20	39.0 (1)		
18	CP	eL	07 59 25	LZ	22	48.0 (1)		
18	CP	eL	07 59 25	LT	20	40.0 (2)		
18	MN	eL	08 00 15	LZ	20	22.0 (1)		
18	MN	eL	08 00 15	LR	25	30.0 (1)		
18	MN	eL	08 00 15	LT	20	15.0 (1)		
18	SJ	eL	08 02 30	LR	30	49.0 (1)		
18	SJ	eL	08 07 42	LZ	25	32.0 (1)		
18	SJ	eL	08 07 42	LR	25	52.0 (1)		
18	SJ	eL	08 07 42	LT	25	27.0 (1)		
18	DH	eL	08 15 55	LZ	25	28.0 (1)		
18	DH	eL	08 20 45	LR	20	20.0 (1)		
18	DH	eL	08 20 45	LT	20	10.0 (2)		
18	08 22	13.3	04.7 S 150.2 E H = 082 KM	NEW BRITAIN				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	eL	09 05 40	LZ	25	13.0 (1)	94.0	
		eL	09 09 22	LR	20	15.0 (1)		
		eL	09 09 22	LZ	20	18.0 (1)		
		eL	09 09 22	LT	20	97.0 (0)		
18	FM	eL	09 10 00	LZ	20	12.0 (1)	82.0	
18	09 11 23.8		10.7 N 121.6 E H =044 KM				PANAY, PHILIPPINE ISLANDS	
18	LC	eP	09 41 20.6	Z	0.3	4.1 (0)		
18	LC	eS	09 41 29	R	0.5	22.0 (0)		
18	MV	eP	10 50 23.5	Z	0.3	2.2 (0)	0.7	
		eS	10 50 33	R	0.4	16.0 (0)		
18	LC	eP	11 06 08.3	Z	0.7	4.0 (0)		
18	LC	e	11 06 16	Z	1.0	6.0 (0)		
18	WI	eP	11 07 42.4	Z	0.5	0.8 (0)		
18	DH	eP	16 24 32.7	Z	0.3	25.0 (0)	1.6	
		eS	16 24 55	R	0.5	77.0 (0)		
18	16 43 54.3		62.3 N 152.5 W H =032 KM MAG 5.25-5.50 PAL				CENTRAL ALASKA	
18	WI	eP	16 49 58.3	Z	1.0	55.0 (0)	30.0	5.31
		eP	16 50 00	LZ	15	55.0 (1)		
		eS	16 54 58	LR	25	28.0 (2)		
		eS	16 54 58	LT	25	12.0 (2)		
		e	16 56 45	Z	1.5	23.0 (0)		
		eLQ	16 57 25	LT	30	26.0 (2)		
		eL	16 59 05	LR	20	21.0 (2)		
		eL	16 59 05	LT	20	12.0 (2)		
		eL	16 59 05	LZ	18	18.0 (2)		
18	MV	eP	16 50 00.5	Z	1.0	62.0 (0)	30.0	5.36
		ePCP	16 53 02	Z	1.2	22.0 (0)		
		eS	16 54 59	T	2.2	23.0 (1)		
		eS	16 54 59	R	2.5	18.0 (1)		
18	MN	eP	16 50 17.6	Z	999.9	99.9 (9)	32.0	
		eP	16 50 20	LZ	12	53.0 (1)		
		ePP	16 51 36	LZ	17	17.0 (1)		
		ePP	16 51 44	Z	1.5	45.0 (0)		
		eS	16 55 30	T	2.0	80.0 (0)		
		eS	16 55 30	LR	30	15.0 (2)		
		eS	16 55 30	LT	28	89.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	16 58 05	LT	25	30.0 (2)		
		eL	16 59 30	LT	25	30.0 (2)		
		eL	16 59 30	LR	15	87.0 (1)		
		eL	16 59 30	LZ	15	66.0 (1)		
18	FM	eP	16 50 33.4	Z	1.0	33.0 (0)	33.0	5.19
		eP	16 50 35	LZ	12	45.0 (1)		
		ePP	16 51 55	LZ	18	63.0 (1)		
		eS	16 55 55	LT	27	18.0 (2)		
		eL	16 59 07	LZ	25	40.0 (1)		
		eL	17 03 57	LR	20	23.0 (2)		
		eL	17 03 57	LT	25	13.0 (2)		
		eL	17 03 57	LZ	20	13.0 (2)		
18	TF	eP	16 50 36.7	Z	1.0	10.0 (1)	33.0	5.67
		eP	16 50 39	LZ	10	13.0 (2)		
		e	16 56 05	LT	20	10.0 (2)		
		e	16 58 40	LR	35	31.0 (2)		
		eL	17 00 58	LT	20	21.0 (2)		
		eL	17 02 50	LT	17	35.0 (2)		
		eL	17 02 50	LR	17	19.0 (2)		
		eL	17 02 50	LZ	17	42.0 (2)		
18	CP	eP	16 51 06.7	Z	0.7	34.0 (0)	37.0	5.25
		eP	16 51 08	LZ	10	38.0 (2)		
		eSCP	16 57 22	LZ	30	37.0 (1)		
		eL	16 59 50	LZ	17	98.0 (1)		
		eLR	17 03 05	LZ	20	26.0 (2)		
		eL	17 03 15	LT	22	14.0 (2)		
		eL	17 03 15	LZ	20	23.0 (2)		
18	AR	eP	16 51 23.3	Z	1.0	10.0 (1)	40.0	5.47
		eP	16 51 25	LZ	10	17.0 (2)		
		ePP	16 52 55	LZ	12	14.0 (2)		
		eS	16 57 25	LT	12	34.0 (2)		
		eS	16 57 27	T	1.2	40.0 (0)		
		eL	17 03 22	LZ	38	31.0 (2)		
		eL	17 04 31	T	2.5	22.0 (2)		
		eL	17 04 45	LR	22	45.0 (2)		
		eL	17 04 45	LZ	20	17.0 (2)		
18	LC	eP	16 51 42.8	Z	1.2	51.0 (0)	42.0	5.16
		eP	16 51 45	LZ	10	99.0 (1)		
		ePCP	16 53 38	Z	1.2	31.0 (0)		
		eS	16 58 02	LR	13	16.0 (2)		
		eS	16 58 02	LT	25	66.0 (1)		
		eL	17 01 25	LZ	23	58.0 (1)		
		eL	17 08 22	LR	18	29.0 (2)		
		eL	17 08 22	LT	18	21.0 (2)		
		eL	17 08 22	LZ	20	12.0 (2)		
18	DH	eP	16 52 32.7	Z	0.8	24.0 (0)	48.0	5.28
		eS	16 59 38	LR	22	50.0 (1)		
		eS	16 59 38	LT	22	60.0 (1)		
		eL	17 02 47	LZ	22	12.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	SJ	eL	17 09 01	T	3.0	66.0 (0)		
		eLR	17 09 45	LZ	25	20.0 (2)		
		eL	17 09 10	LR	24	35.0 (2)		
		eL	17 09 10	LT	22	14.0 (2)		
		eL	17 09 10	LZ	17	50.0 (1)		
18	SJ	eP	16 52 44.3	Z	1.0	16.0 (1)	50.0	5.94
		eS	17 00 02	LT	17	12.0 (2)		
		eS	17 00 02	LT	25	70.0 (1)		
		e	17 04 00	LZ	18	39.0 (2)		
		eL	17 11 06	T	3.5	64.0 (1)		
		eL	17 09 25	LT	30	61.0 (3)		
		eL	17 11 45	LT	20	76.0 (2)		
		eL	17 11 45	LZ	17	97.0 (1)		
		eL	17 11 45	LR	22	24.0 (2)		
							AVG.	5.40
18	17 46 14.9		62.3 N 152.5 W			CENTRAL ALASKA		
			H =032 KM			MAG 6.00-6.25 PAS		
18	WI	eP	17 52 19.0	Z	1.0	78.0 (0)	30.0	
		eP	17 52 20	LZ	18	83.0 (1)		5.49
		eL	17 57 18	LR	23	44.0 (2)		
		eL	17 58 05	LR	23	44.0 (2)		
		eL	17 58 05	LT	25	19.0 (2)		
		eL	17 58 05	LZ	22	21.0 (2)		
18	MV	eP	17 52 20.5	Z	1.0	90.0 (0)	30.0	5.52
		e	17 53 54	Z	1.5	68.0 (0)		
		ePCP	17 55 21	Z	1.2	25.0 (0)		
		eS	17 57 18	T	2.5	26.0 (1)		
		eS	17 57 18	R	3.0	32.0 (1)		
		eSCP	17 59 03	Z	1.0	6.9 (0)		
18	MN	eP	17 52 38.2	Z	999.9	99.9 (9)	32.0	
		eP	17 52 40	LZ	20	36.0 (1)		
		eS	17 57 50	T	2.5	13.0 (1)		
		eS	17 57 50	R	2.5	96.0 (0)		
		eS	17 57 52	LR	27	22.0 (2)		
		eS	17 57 52	LT	27	13.0 (2)		
		eSCP	17 59 10	Z	1.0	5.1 (0)		
		eLQ	18 00 12	LT	35	57.0 (2)		
		eLR	18 02 35	LZ	20	50.0 (2)		
		eL	18 03 45	LR	19	55.0 (2)		
		eL	18 03 45	LT	16	19.0 (2)		
18	FM	eP	17 52 53.9	Z	1.0	50.0 (0)	33.0	5.37
		ePCP	17 55 34	Z	1.0	33.0 (0)		
		eS	17 58 15	LT	27	33.0 (2)		
		eL	18 00 30	LZ	22	87.0 (1)		
		eL	18 06 05	LR	17	54.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	18 06 05	LT	20	17.0 (2)		
		eL	18 06 05	LZ	18	26.0 (2)		
18	TF	eP	17 52 57.2	Z	1.0	15.0 (1)	33.0	5.84
		eP	17 52 58	LZ	12	13.0 (2)		
		ePCP	17 55 25	LZ	12	94.0 (1)		
		e	17 58 25	LT	20	11.0 (2)		
		eL	18 00 58	LT	25	40.0 (2)		
		eL	18 04 55	LT	15	97.0 (2)		
		eL	18 04 55	LR	17	50.0 (2)		
		eL	18 04 55	LZ	17	83.0 (2)		
18	CP	eP	17 53 27.2	Z	1.0	96.0 (0)	37.0	5.55
		eP	17 53 27	LZ	18	54.0 (1)		
		eSCP	17 55 45	LZ	18	37.0 (1)		
		e	17 59 35	LZ	35	84.0 (2)		
		eLR	18 05 05	LZ	25	35.0 (2)		
		eL	18 10 45	LT	15	53.0 (2)		
		eL	18 10 45	LR	17	33.0 (2)		
		eL	18 10 45	LZ	20	46.0 (2)		
18	AR	eP	17 53 43.8	Z	1.2	41.0 (1)	40.0	5.71
		eP	17 53 45	LZ	12	14.0 (2)		
		ePP	17 55 24	Z	1.5	18.0 (1)		
		ePP	17 55 25	LZ	15	10.0 (2)		
		eS	17 59 37	LT	12	58.0 (2)		
		eS	17 59 46	R	1.5	38.0 (0)		
		eS	17 59 46	T	2.5	38.0 (1)		
		eL	18 02 30	LZ	12	35.0 (2)		
		eL	18 06 01	T	2.0	12.0 (1)		
		eL	18 07 15	LR	20	73.0 (2)		
		eL	18 07 15	LZ	19	20.0 (2)		
18	LC	eP	17 54 02.3	Z	1.0	40.0 (0)	42.0	5.14
		eP	17 54 05	LZ	15	76.0 (1)		
		e	17 55 59	Z	1.2	37.0 (0)		
		e	17 55 55	LZ	18	4.8 (0)		
		eS	18 00 25	LT	18	13.0 (2)		
		eS	18 00 25	LR	15	10.0 (2)		
		e	18 01 05	LR	28	16.0 (2)		
		eL	18 03 35	LZ	22	11.0 (2)		
		eL	18 10 47	LR	18	58.0 (2)		
		eL	18 10 47	LT	17	29.0 (2)		
		eL	18 10 47	LZ	18	41.0 (2)		
18	DH	eP	17 54 53.0	Z	1.2	19.0 (1)	48.0	6.00
		eL	18 05 15	LZ	25	18.0 (2)		
		eL	18 11 13	T	3.0	66.0 (1)		
		eL	18 11 30	LR	24	61.0 (2)		
		eL	18 11 30	LT	22	44.0 (2)		
		eL	18 11 30	LZ	15	13.0 (2)		
18	SJ	eP	17 55 04.6	Z	1.0	26.0 (1)	50.0	6.12
		eP	17 55 10	LZ	12	26.0 (2)		
		e	17 57 05	LZ	15	20.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
	eS		18 02 10	LT	18	20.0 (2)		
	eS		18 02 10	LR	15	23.0 (2)		
	eL		18 06 20	LT	20	23.0 (2)		
	eL		18 13 19	T	3.5	13.0 (2)		
	eL		18 14 20	LT	18	10.0 (3)		
	eL		18 14 20	LZ	15	25.0 (2)		
	eL		18 14 20	LR	25	23.0 (2)		
							AVG.	5.64
18	AR	eP	19 13 47.3	Z	0.3	5.3 (0)	0.2	
		eS	19 13 52	R	0.5	35.0 (0)		
18	MN	eP	19 32 05.7	Z	1.0	3.4 (0)		
18	DH	eP	19 42 34.0	Z	0.3	19.0 (0)	1.9	
		eS	19 43 00	T	0.4	49.0 (0)		
18	20 44 27.2		22.7 S 173.1 E				LOYALTY ISLANDS REGION	
			H =082 KM					
18	WI	eP	20 57 19.3	Z	0.7	2.9 (0)	90.0	4.53
18	MN	eP	21 31 45.2	Z	1.0	3.4 (0)		
18	22 49 47.5		07.3 S 156.1 E				SOLOMON ISLANDS	
			H =060 KM					
18	MN	eP	23 02 49.4	Z	1.5	17.0 (0)	91.0	5.09
18	WI	eP	23 02 54.3	Z	1.2	9.4 (0)	92.0	4.99
18	LC	eL	23 35 45	LZ	25	19.0 (1)	100.0	
		eL	23 38 27	LR	20	19.0 (1)		
		eL	23 38 27	LT	20	12.0 (1)		
		eL	23 38 27	LZ	20	39.0 (1)		
							AVG.	5.04
18	LC	eL	22 53 30	LZ	25	13.0 (2)		
18	LC	eL	22 53 30	LR	24	11.0 (2)		
18	LC	eL	22 53 30	LT	25	17.0 (2)		
18	23 20 17.6		52.5 N 172.3 W				ANDREANOF-ALEUTIAN ISLANDS	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	WI	eP	23 27 33.8	Z	0.8	4.3 (0)	38.0	4.30
18	CP	eP	23 28 25.7	Z	0.5	2.9 (0)	44.0	4.26
18	LC	eP	23 29 13.8	Z	0.7	3.0 (0)	50.0	5.33
							AVG.	4.63
19	00 23 03.9		19.9 S 066.9 W				BOLIVIA	
			H =240 KM					
19	DH	eP	00 33 01.6	Z	0.7	9.7 (0)	62.0	4.60
19	CP	eP	00 33 55.8	Z	1.0	11.0 (0)	71.0	4.54
19	FM	eP	00 34 08.1	Z	0.8	17.0 (0)	73.0	4.83
19	TF	eP	00 34 20.2	Z	1.0	13.0 (0)	75.0	4.61
19	MN	eP	00 34 23.4	Z	1.0	8.2 (0)	76.0	4.41
19	WI	eP	00 34 31.8	Z	0.7	24.0 (0)	77.0	5.03
		epP	00 35 30	Z	1.0	13.0 (0)		
19	MV	eP	00 34 36.3	Z	1.0	3.5 (0)	78.0	4.04
							AVG.	4.58
19	WI	eP	01 45 58.9	Z	0.7	2.2 (0)		
19	WI	eP	03 06 09.8	Z	1.1	4.0 (0)		
19	MN	eP	03 05 57.1	Z	1.0	1.6 (0)		
19	04 14 10.9		10.1 S 173.4 W				TONGA ISLANDS REGION	
			H =033 KM					
19	MV	eP	04 25 42.3	Z	0.7	1.8 (0)	74.0	4.14
		e	04 25 55	Z	1.0	5.2 (0)		
19	MN	eP	04 25 50.8	Z	1.1	6.4 (0)	75.0	4.50
		e	04 26 04	Z	1.0	8.2 (0)		
19	WI	eP	04 26 02.9	Z	1.0	3.3 (0)	77.0	4.33
		e	04 26 17	Z	1.0	4.0 (0)		
							AVG.	4.32
19	06 28 39.1		50.6 N 129.5 W				VANCOUVER ISLAND REGION	
			H =033 KM					
19	WI	eP	06 31 36.2	Z	1.0	4.4 (0)	12.0	4.51
19	MV	eP	06 31 42.0	Z	0.9	4.2 (0)	13.0	4.44
19	MN	eP	06 32 05.0	Z	1.0	4.9 (0)	15.0	3.89
19	CP	eP	06 33 12.0	Z	1.2	9.4 (0)	20.0	3.93
							AVG.	4.19

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	18 40 04	LZ				
		eP AS	18 40 14	LZ	19	18.0 (1)		
		eP AS	18 40 14.3	Z	1.3	40.0 (0)		5.79
		ePP	18 44 10	LZ	25	32.0 (1)		
		eSKS	18 50 29	LT	23	62.0 (1)		
		eSP	18 52 32	LZ	25	65.0 (1)		
		e	18 59 00	LT	30	12.0 (2)		
		e	19 02 10	LT	30	12.0 (2)		
		eL	19 05 43	LT	25	79.0 (1)		
		eL	19 10 41	LT	37	15.0 (2)		
		eLR	19 18 35	LZ	25	17.0 (2)		
		eL	19 20 39	LZ	28	14.0 (2)		
		eL	19 20 39	LR	25	48.0 (2)		
		eL	19 20 39	LT	23	11.0 (2)		
19	TF	eP	18 40 14.9	Z			98.0	
		eP AS	18 40 25.9	Z	1.6	97.0 (0)		6.22
		e	18 43 42	Z	1.4	32.0 (0)		
		eSKS	18 50 51	LT	20	49.0 (1)		
		eSP	18 53 00	LZ	20	99.0 (1)		
		e	18 58 41	LT	28	85.0 (1)		
		e	19 03 26	LZ	34	10.0 (2)		
		e	19 06 36	LZ	24	13.0 (2)		
		eL	19 08 00	LR	27	15.0 (2)		
		eL	19 13 10	LZ	37	19.0 (2)		
		eL	19 31 40	LZ	18	46.0 (2)		
		eL	19 31 40	LR	18	16.0 (2)		
		eL	19 31 40	LT	18	42.0 (2)		
19	CP	eP	18 40 27.9	Z	0.6	1.7 (0)	101.0	4.78
		eP AS	18 40 39.3	Z	1.3	18.0 (0)		5.48
		e	18 43 57	Z	2.0	41.0 (0)		
		ePP	18 44 46	Z	2.0	82.0 (0)		
		e	19 07 27	LZ	27	11.0 (2)		
		eL	19 17 12	LZ	29	13.0 (2)		
		eL	19 24 55	LZ	999.9	99.9 (9)		
		eL	19 24 55	LR	25	16.0 (2)		
		eL	19 24 55	LT	25	34.0 (2)		
19	LC	eP	18 40 36.1	Z	0.6	1.0 (0)	103.0	4.76
		eP AS	18 40 47.0	Z	1.0	4.9 (0)		5.22
		eP AS	18 40 48	LZ	20	20.0 (1)		
		e	18 43 53	Z	1.0	3.7 (0)		
		ePP	18 45 03	Z	1.6	47.0 (0)		
		ePP	18 45 07	LZ	16	28.0 (1)		
		eSKS	18 51 15	LT	20	32.0 (1)		
		eSP	18 53 50	LZ	23	50.0 (1)		
		ePKKP	18 56 31	Z	1.0	3.7 (0)		
		e	18 56 52	Z	1.0	8.6 (0)		
		e	19 16 05	LR	21	28.0 (2)		
		eLQ	19 22 41	LR	22	40.0 (2)		
		eLR	19 26 42	LZ	23	47.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	19 28 15	LZ	25	34.0 (2)		
		eL	19 28 15	LR	20	43.0 (2)		
		eL	19 28 15	LT	20	22.0 (2)		
19	SJ	eSP	18 54 23	LZ	22	11.0 (2)	108.0	
		eSS	19 00 46	LT	30	12.0 (2)		
		eSSS	19 04 43	LR	28	85.0 (1)		
		eL	19 16 55	LT	25	20.0 (2)		
		eL	19 28 51	LT	23	99.9 (9)		
							AS	5.84
							AVG.	5.26
19	MN	eP	19 55 01.9	Z	0.9	1.3 (0)		
19	MV	eP	20 27 57.0	Z	0.4	2.3 (0)	2.4	
		eS	20 28 28	R	0.3	6.6 (0)		
19	WI	eP	23 09 30.9	Z	0.4	7.4 (0)	1.1	
		eS	23 09 45	T	0.4	22.0 (0)		
19	21	19 54.6	04.5 N 123.2 E			CELEBES SEA		
			H = 552 KM					
19	23	12 50.4	26.6 S 069.8 W			NEAR NORTHERN CHILE		
			H = 051 KM					
19	SJ	eP	23 22 57.1	Z	1.1	13.0 (1)	61.0	5.92
19	LC	eP	23 23 48.4	Z	999.9	99.9 (9)	69.0	
		eS	23 32 45	LR	19	52.0 (1)		
		eS	23 32 45	LT	15	34.0 (1)		
		eL	23 46 35	LZ	31	62.0 (1)		
		eL	23 48 00	LZ	24	40.0 (1)		
		eL	23 48 00	LR	25	28.0 (1)		
		eL	23 48 00	LT	19	12.0 (1)		
19	DH	eP	23 23 51.7	Z	1.0	13.0 (1)	69.0	5.19
		eP	23 23 52	LZ	16	19.0 (1)		
		eS	23 32 52	LR	20	46.0 (1)		
		eS	23 32 52	LT	17	41.0 (1)		
		eL	23 47 33	LZ	33	73.0 (1)		
		eL	23 52 35	LZ	24	66.0 (1)		
		eL	23 52 35	LR	24	37.0 (1)		
		eL	23 52 35	LT	25	74.0 (1)		
19	CP	eP	23 24 21.3	Z	1.0	77.0 (0)	74.0	5.59
19	FM	eP	23 24 37.7	Z	1.0	17.0 (1)	77.0	5.98
19	TF	eP	23 24 43.1	Z	1.1	98.0 (0)	78.0	5.70
19	MN	eP	23 24 50.3	Z	1.4	11.0 (1)	79.0	5.59

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	23 24 51	LZ	17	19.0 (1)		
		ePP	23 27 49	Z	1.8	44.0 (0)		
		e	23 34 45	LR	25	39.0 (1)		
		eS	23 46 05	LT	29	43.0 (1)		
		eS	23 46 05	LR				
		e	23 51 10	LZ	34	67.0 (1)		
19	WI	eP	23 24 59.3	Z	999.9	99.9 (9)	81.0	
		eP	23 25 00	LZ	16	21.0 (1)		
		eS	23 35 08	LT	19	37.0 (1)		
		eS	23 35 08	LR	20	93.0 (0)		
		eSS	23 40 17	LT	20	35.0 (1)		
		e	23 51 43	LR	40	88.0 (1)		
19	MV	eP	23 25 01.6	Z	1.3	43.0 (0)	81.0	5.22
		e	23 27 04	Z	2.9	12.0 (1)		
		eS	23 35 09	LR	19	22.0 (1)		
		eLQ	23 57 07	LZ	33	48.0 (1)		
							AVG.	5.60
20	MV	eL	03 16 19	LZ	30	11.0 (1)		
20	MV	eL	03 21 00	LZ	23	15.0 (1)		
20	MV	eL	03 21 00	LR	23	10.0 (1)		
20	MV	eL	03 21 00	LT	22	15.0 (1)		
20	CP	eL	03 26 50.5	Z	999.9	99.9 (9)		
20	MN	eP	06 52 59.5	Z	999.9	99.9 (9)		
20	WI	eP	06 53 13.2	Z	0.4	3.0 (0)		
20	MV	eP	06 53 20.8	Z	0.3	2.2 (0)	3.1	
		eS	06 53 59	R	0.3	8.9 (0)		
20	09 02 14.5		74.4 N 051.2 E	NOVAYA ZEMLYA				
			H =000 KM					
20	LC	eP	09 13 44.9	Z	1.0	2.5 (0)	73.0	4.30
		eP	09 13 46	LZ	18	11.0 (1)		
		e	09 32 30	LZ	26	14.0 (1)		
		eL	09 37 32	LZ	32	38.0 (1)		
		eL	09 47 00	LZ	23	87.0 (1)		
		eL	09 47 00	LR	20	29.0 (1)		
		eL	09 47 00	LT	22	81.0 (1)		
20	MN	e	09 30 22	LZ	25	12.0 (1)	66.0	
		eL	09 35 35	LZ	30	36.0 (1)		
		eL	09 41 40	LZ	25	82.0 (1)		
		eL	09 41 40	LR	27	27.0 (1)		
		eL	09 41 40	LT	25	60.0 (1)		
20	AR	eL	09 30 32	LZ	35	76.0 (1)	58.0	
		eL	09 36 10	LZ	25	49.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	09 36 10	LR	22	75.0 (1)		
		eL	09 36 10	LT	18	22.0 (1)		
20	WI	eL	09 35 00	LZ	29	57.0 (1)	64.0	
		eL	09 41 25	LZ	23	58.0 (1)		
		eL	09 41 25	LR	24	69.0 (1)		
		eL	09 41 25	LT	20	20.0 (1)		
20	MV	eL	09 35 25	LZ	30	51.0 (1)	67.0	
		e	15 45 40	LZ	115	51.0 (2)		
20	DH	eL	09 35 30	LZ	24	13.0 (2)	59.0	
		eL	09 37 55	LZ	22	12.0 (2)		
		eL	09 37 55	LR	22	28.0 (1)		
		eL	09 37 55	LT	23	85.0 (1)		
20	TF	eL	09 36 45	LZ	38	37.0 (1)	71.0	
		eL	09 43 20	LZ	25	79.0 (1)		
		eL	09 43 20	LR	26	32.0 (1)		
		eL	09 43 20	LT	24	43.0 (1)		
20	CP	eL	09 38 02	LZ	35	13.0 (1)	72.0	
		e	16 18 00	LZ	170	11.0 (3)		
20	SJ	eL	09 43 48	LT	26	59.0 (1)	77.0	
		eL	09 48 10	LZ	23	32.0 (1)		
		eL	09 48 10	LR	21	53.0 (1)		
		eL	09 48 10	LT	24	12.0 (1)		
20	FM	e	15 21 45	LZ	110	70.0 (2)	67.0	
							AVG.	4.30
20	CP	eP	10 09 23.3	Z	0.5	10.0 (0)		
20	CP	eL	10 11 18	T	0.5	8.5 (0)		
20	CP	eP	10 35 18.5	Z	0.5	0.5 (0)		
20	CP	e	10 35 31	Z	0.8	18.0 (0)		
20	10 43 23.2		31.1 N 114.1 W	GULF OF CALIFORNIA				
			H =014 KM	MAG	5.00-5.25	PAS		
20	CP	eP	10 44 00.9	Z	999.9	99.9 (9)	2.5	
		eP	10 44 03	LZ	999.9	99.9 (9)		
20	TF	eP	10 44 55.9	Z	1.0	50.0 (0)	6.0	5.67
		eP	10 44 59	LZ				
		e	10 45 15	LT	20	38.0 (2)		
		eL	10 46 20	LT	999.9	99.9 (9)		
20	LC	eL	10 46 27	T	1.0	12.0 (1)		
		eP	10 44 58.0	Z	0.7	64.0 (0)	6.0	5.48
		e	10 45 02	LZ				
		e	10 45 20	LR	22	10.0 (2)		
		e	10 45 44	Z	1.1	19.0 (1)		
		eL	10 46 23	LR	15	25.0 (3)		
		eLG	10 46 54	R	1.0	17.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MN	eL	10 47 50	LZ	21	13.0 (3)	8.0	5.20
		eL	10 47 50	LR	15	25.0 (3)		
		eL	10 47 50	LT	13	23.0 (3)		
		eP	10 45 21.6	Z	1.1	21.0 (0)		
		eP	10 45 24	LZ	18	24.0 (1)		
		e	10 45 55	LZ	22	72.0 (1)		
		e	10 46 05	Z	1.3	11.0 (1)		
		eL	10 47 02	LT	999.9	99.9 (9)		
		eLG	10 47 52	T	1.6	24.0 (1)		
		eP	10 45 28.0	Z	1.0	19.0 (0)		
20	FM	eL	10 47 15	LT	19	60.0 (2)	8.0	5.20
		eLG	10 47 52	R	1.6	47.0 (1)		
		eL	10 48 05	LR	19	41.0 (2)		
		eL	10 48 05	LT	19	60.0 (2)		
		eP	10 45 52.1	Z	1.1	8.9 (0)		
20	MV	eP	10 45 52	LZ	24	16.0 (1)	10.0	5.11
		e	10 46 19	LZ	28	24.0 (1)		
		eL	10 47 40	LR	24	52.0 (2)		
		eL	10 48 39	R	1.3	22.0 (0)		
		eL	10 49 10	LT	18	82.0 (2)		
		eL	10 49 10	LZ	999.9	99.9 (9)		
		eL	10 49 10	LR	20	60.0 (2)		
		eP	10 45 59.6	Z	1.3	33.0 (0)		
		e	10 46 49	Z	1.0	18.0 (0)		
		eL	10 48 05	LT	999.9	99.9 (9)		
20	SJ	eLG	10 48 08	T	1.2	10.0 (1)	14.0	5.06
		eP	10 46 48.7	Z	1.1	39.0 (0)		
		eP	10 46 50	LZ	11	11.0 (2)		
		e	10 49 37	LT	20	58.0 (1)		
		eL	10 50 16	LR	999.9	99.9 (9)		
20	AR	eL	10 51 08	T	2.8	12.0 (2)	25.0	4.60
		eP	10 48 47.0	Z	1.0	14.0 (0)		
		e	10 53 28	LR	18	44.0 (1)		
		eL	10 56 07	LT	15	84.0 (2)		
		eL	10 56 25	T	2.2	31.0 (1)		
		eL	10 57 08	LZ	17	63.0 (1)		
		eL	10 57 08	LR	14	69.0 (1)		
		eL	10 57 08	LT	15	84.0 (2)		
		eP	10 50 01.0	Z	1.1	25.0 (0)		
		eL	11 00 05	LT	15	95.0 (2)		
20	DH	eL	11 01 30	LZ	15	13.0 (2)	33.0	5.04
		eL	11 01 30	LR	15	16.0 (2)		
		eL	11 01 30	LT	15	95.0 (2)		
		AVG.						
20	CP	eP	11 03 50.4	Z	0.5	2.6 (0)		
20	CP	e	11 03 57	Z	0.8	45.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	11 22	39.8	20.9 S 178.8 W H = 605 KM	TONGA ISLANDS REGION				
20	MV	eP	11 33 50.6	Z	0.8	5.4 (0)	80.0	4.04
20	MN	eP	11 33 58.5	Z	0.6	5.6 (0)	81.0	4.18
20	WI	eP	11 34 09.3	Z	0.8	5.6 (0)	84.0	4.25
20	LC	eP	11 34 23.8	Z	1.0	5.0 (0)	87.0	4.19
						AVG.		4.17
20	12 58	24.1	12.4 S 112.1 E H = 087 KM	340 MILES SOUTH OF JAVA				
20	MV	eP	13 17 19.6	Z	1.0	3.4 (0)	126.0	
20	WI	eP	13 17 24.3	Z	0.7	1.1 (0)	124.0	
20	MN	eP	13 17 25.6	Z	1.0	2.5 (0)	128.0	
20	LC	eP	13 17 36.5	Z	0.8	2.4 (0)	139.0	
20	CP	eP	13 04 18.0	Z	0.4	2.9 (0)		
20	CP	eL	13 04 30	LZ	20	51.0 (1)		
20	LC	eP	13 05 15.3	Z	0.7	7.6 (0)		
20	MN	eP	13 06 22.8	Z	0.9	2.7 (0)		
20	LC	eL	13 07 13	T	1.0	13.0 (0)		
20	LC	eL	13 07 15	LZ	19	21.0 (1)		
20	LC	eL	13 07 15	LR	15	45.0 (1)		
20	LC	eL	13 07 15	LT	15	55.0 (1)		
20	MN	eL	13 08 00	LT	16	35.0 (1)		
20	MN	eL	13 08 35	LZ	16	15.0 (1)		
20	MN	eL	13 08 35	LR	20	10.0 (1)		
20	MN	eL	13 08 35	LT	16	35.0 (1)		
20	13 14	59.2	13.9 N 092.9 W H = 033 KM	OFF CHIAPAS, MEXICO				
20	SJ	eP	13 18 04.4	Z	1.0	40.0 (0)	14.0	5.02
		e	13 20 06	T	1.0	21.0 (0)		
		eL	13 22 58	LR	27	20.0 (2)		
		eL	13 26 00	LZ	16	14.0 (2)		
		eL	13 26 00	LR	18	36.0 (2)		
		eL	13 26 00	LT	22	71.0 (1)		
20	LC	eP	13 19 54.7	Z	1.0	28.0 (0)	22.0	4.62
		eP	13 20 00	LZ	14	35.0 (1)		
		e	13 20 03	Z	1.0	53.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	13 24 06	R	3.0	53.0 (0)		
		e	13 24 07	LT	18	41.0 (0)		
		eL	13 27 20	LT	18	12.0 (2)		
		eL	13 27 40	LT	18	12.0 (2)		
20	MN	eL	13 27 40	LR	19	83.0 (1)		
		eP	13 21 35.6	Z	1.1	11.0 (0)	33.0	4.67
		e	13 21 45.7	Z	1.2	19.0 (0)		
		ePCP	13 24 20	Z	1.0	2.5 (0)		
		eL	13 31 12	LT	23	18.0 (2)		
		eL	13 34 00	LT	18	33.0 (2)		
		eL	13 34 00	LR	19	22.0 (1)		
20	WI	eL	13 34 00	LZ	20	26.0 (1)		
		eP	13 21 49.2	Z	1.0	16.0 (0)	35.0	4.92
		ePP	13 23 12	Z	2.0	48.0 (0)		
		eL	13 33 45	LT	16	24.0 (2)		
		eL	13 38 12	LZ	15	22.0 (2)		
		eL	13 38 12	LR	15	21.0 (2)		
20	CP	eL	13 38 12	LT	16	48.0 (1)		
		e	13 26 22	LZ	18	17.0 (1)	28.0	
		eL	13 30 41	LZ	21	66.0 (1)		
		eL	13 31 03	LZ	20	66.0 (1)		
		eL	13 31 03	LR	19	83.0 (1)		
20	TF	eL	13 31 03	LT	20	21.0 (1)		
		eL	13 30 15	LR	27	89.0 (1)	32.0	
		eL	13 33 14	LZ	22	40.0 (1)		
		eL	13 33 14	LR	22	13.0 (2)		
20	FM	eL	13 31 27	LR	20	87.0 (1)	30.0	
		eL	13 32 00	LT	23	37.0 (1)		
		eL	13 32 00	LR	20	87.0 (1)		
		eL	13 32 00	LZ	20	15.0 (1)		
20	MV	eL	13 32 47	LT	27	11.0 (2)	35.0	
		eL	13 35 05	LZ	13	79.0 (0)		
		eL	13 35 05	LR	19	12.0 (2)		
		eL	13 35 05	LT	18	15.0 (2)		
							AVG.	4.81
20	DH	eP	13 18 06.7	Z	1.0	19.0 (0)		
20	CP	eP	14 02 38.5	Z	0.5	9.5 (0)		
20	CP	e	14 02 51	Z	0.8	34.0 (0)		
20	LC	eP	14 03 35.9	Z	0.5	2.8 (0)		
20	CP	eL	14 06 20	LZ	18	29.0 (2)		
20	LC	eP	14 07 11.4	Z	0.5	4.6 (0)		
20	CP	eL	14 07 20	LZ	18	29.0 (2)		
20	CP	eL	14 07 20	LR	17	13.0 (2)		
20	CP	eL	14 07 20	LT	20	10.0 (2)		
20	TF	eL	14 08 40	LZ	20	15.0 (2)		
20	LC	eL	14 08 52	LT	15	24.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	LC	eL	14 09 03	R	0.8	16.0 (0)		
20	MN	eL	14 09 37	LT	18	65.0 (1)		
20	TF	eL	14 09 54	LZ	15	22.0 (2)		
20	TF	eL	14 09 54	LR	15	82.0 (1)		
20	TF	eL	14 09 54	LT	15	19.0 (2)		
20	FM	eL	14 10 07	LR	17	37.0 (1)		
20	FM	eL	14 10 07	LT	18	43.0 (1)		
20	MN	eL	14 10 20	LZ	18	36.0 (1)		
20	MN	eL	14 10 20	LR	20	41.0 (1)		
20	MN	eL	14 10 20	LT	18	65.0 (1)		
20	MV	eL	14 10 46	LZ	20	49.0 (1)		
20	WI	eL	14 11 02	LT	18	79.0 (1)		
20	WI	eL	14 11 26	T	2.2	86.0 (0)		
20	MV	eL	14 11 45	LZ	18	49.0 (1)		
20	MV	eL	14 11 45	LR	13	22.0 (1)		
20	MV	eL	14 11 45	LT	16	55.0 (1)		
20	WI	eL	14 11 47	LZ	25	22.0 (1)		
20	WI	eL	14 11 47	LR	20	23.0 (1)		
20	WI	eL	14 11 47	LT	18	79.0 (1)		
20	SJ	eL	14 13 08	LT	18	11.0 (2)		
20	SJ	eL	14 14 10	LZ	19	47.0 (1)		
20	SJ	eL	14 14 10	LR	18	62.0 (1)		
20	SJ	eL	14 14 10	LT	18	11.0 (2)		
20	WI	eP	14 42 34.7	Z	0.7	1.1 (0)		
20	MN	eP	14 42 37.5	Z	0.8	1.6 (0)		
20	15 15 15.6		01.7 S 133.8 E				WESTERN NEW GUINEA	
							H =033 KM	
20	23 18 39.8		14.7 S 166.6 E				NEW HEBRIDES ISLANDS	
							H =052 KM	
20	TF	eP	23 31 13.6	Z	0.8	5.3 (0)	86.0	4.52
20	MV	eP	23 31 14.6	Z	0.7	10.0 (0)	86.0	5.36
		eL	23 58 00	LZ	24	31.0 (1)		
20	MN	eP	23 31 23.5	Z	0.8	5.2 (0)	87.0	4.71
		eL	23 58 58	LZ	22	51.0 (1)		
20	WI	eP	23 31 31.2	Z	0.9	5.5 (0)	88.0	4.73
		e	23 57 10	LT	20	20.0 (1)		
		eL	23 59 40	LZ	25	43.0 (1)		
21	WI	eL	00 03 35	LZ	22	43.0 (1)	88.0	
		eL	00 03 35	LR	25	14.0 (1)		
		eL	00 03 35	LT	21	41.0 (1)		
20	CP	eL	23 58 43	LZ	25	25.0 (1)	87.0	
							AVG.	4.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MN	eL	01 23 15	LZ	17	32.0 (1)		
21	MN	eL	01 23 15	LR	17	31.0 (1)		
21	MN	eL	01 23 15	LT	18	23.0 (1)		
21	02 12 42.0		41.3 N 127.1 W	OFF NORTHERN CALIFORNIA				
			H =033 KM					
21	MV	eP	02 13 51.2	Z	0.7	1.7 (0)	4.7	3.65
		eP	02 13 54	LZ	16	19.0 (1)		
		e	02 14 06	Z	0.7	6.0 (0)		
		eS	02 14 50	R	0.6	5.7 (0)		
		eS	02 14 50	T	0.7	9.5 (0)		
		eL	02 15 05	LZ	25	19.0 (2)		
		eL	02 15 05	LR	12	11.0 (2)		
		eL	02 15 05	LT	25	16.0 (2)		
21	WI	eP	02 14 26.5	Z	0.5	1.7 (0)	7.0	4.13
		eP	02 14 27	LZ	13	31.0 (1)		
		e	02 14 45	Z	1.0	14.0 (0)		
		eL	02 16 26	LZ	27	35.0 (2)		
		eL	02 17 20	LZ	17	35.0 (2)		
		eL	02 17 20	LR	17	75.0 (1)		
		eL	02 17 20	LT	17	39.0 (2)		
21	MN	eP	02 14 31.5	Z	0.9	4.7 (0)	7.0	4.35
		e	02 14 35	LR	20	44.0 (1)		
		eL	02 16 12	R	1.0	7.7 (0)		
		eLR	02 16 25	LZ	20	23.0 (2)		
		eL	02 16 25	LR	18	24.0 (2)		
		eL	02 16 25	LT	21	22.0 (2)		
21	TF	eL	02 16 47	LZ	22	11.0 (2)	9.0	
		eL	02 16 47	LR	25	69.0 (1)		
		eL	02 16 47	LT	22	10.0 (2)		
21	LC	eP	02 17 00.7	Z	1.0	6.3 (0)	19.0	3.83
		eS	02 20 45	LT	17	54.0 (1)		
		eL	02 21 57	LZ	35	16.0 (2)		
		eL	02 23 30	LZ	25	10.0 (2)		
		eL	02 23 30	LR	25	94.0 (1)		
		eL	02 23 30	LT	15	38.0 (1)		
21	CP	eL	02 18 30	LZ	25	11.0 (2)	12.0	
		eL	02 18 30	LR	25	36.0 (1)		
		eL	02 18 30	LT	25	71.0 (1)		
21	FM	eL	02 18 53	LZ	28	52.0 (1)	8.0	
21	SJ	e	02 23 17	LR	18	49.0 (1)	28.0	
		eLQ	02 26 30	LR	33	10.0 (2)		
		eL	02 29 38	LZ	20	71.0 (1)		
		eL	02 29 38	LR	18	69.0 (1)		
		eL	02 29 38	LT	12	18.0 (2)		
21	AR	eL	02 27 20	LT	30		28.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	02 30 00	LZ	22			
		eL	02 30 00	LR	18			
		eL	02 30 00	LT	13			
21	DH	eL	02 30 30	LZ	42	76.0 (1)	39.0	
		eL	02 35 55	LZ	20	29.0 (1)		
		eL	02 35 55	LR	18	22.0 (1)		
		eL	02 35 55	LT	15	31.0 (1)		
							AVG.	3.99
21	FM	eP	02 36 57.6	Z	0.6	40.0 (0)	1.1	
		eS	02 37 12	T	0.8	16.0 (1)		
21	WI	eP	02 38 03.7	Z	0.6	2.9 (0)		
21	WI	e	02 38 23	Z	0.7	4.6 (0)		
21	MN	eP	02 38 26.2	Z	0.9	3.3 (0)		
21	LC	eP	02 39 12.2	Z	0.7	5.1 (0)		
21	WI	eL	02 39 32	T	0.8	8.2 (0)		
21	LC	eL	02 40 55	T	0.7	5.4 (0)		
21	02 57 38.6		42.3 N 126.6 W	OFF COAST OF N. CALIFORNIA				
			H =040 KM					
21	MV	eP	02 58 41.3	Z	0.6	1.5 (0)	4.2	3.50
		e	02 59 10	LR	20	13.0 (1)		
		eL	03 00 00	LZ	24	62.0 (1)		
		eL	03 00 00	LR	20	30.0 (1)		
		eL	03 00 00	LT	20	46.0 (1)		
21	WI	eP	02 59 14.0	Z	0.8	2.2 (0)	7.0	4.04
		eL	03 01 20	LT	35	13.0 (2)		
		eL	03 02 13	LZ	17	93.0 (1)		
		eL	03 02 13	LR	15	25.0 (1)		
		eL	03 02 13	LT	20	68.0 (1)		
21	MN	eP	02 59 21.6	Z	0.8	1.6 (0)	7.0	3.90
		eL	03 01 35	LZ	18	66.0 (1)		
		eL	03 01 35	LR	17	63.0 (1)		
		eL	03 01 35	LT	20	54.0 (1)		
							AVG.	3.81
21	MN	eP	03 35 11.7	Z	0.3	6.4 (0)		
21	WI	eP	03 35 35.8	Z	0.4	1.9 (0)	2.6	
		eS	03 36 09	T	0.5	48.0 (0)		
21	CP	eP	03 37 16.3	Z	0.5	25.0 (0)	1.6	
		eS	03 37 38	T	0.5	46.0 (0)		
21	04 28 26.1		23.9 N 121.7 E	NEAR E. COAST OF FORMOSA				
			H =025 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	04 41 42.5	Z	1.0	8.6 (0)	94.0	5.06
21	WI	eP	04 41 48.5	Z	1.0	4.6 (0)	95.0	4.86
						AVG.		4.96
21	CP	eP	06 08 08.3	Z	0.5	1.1 (0)	2.8	
		e	06 08 16	Z	0.6	16.0 (0)		
		eS	06 08 43	T	0.6	19.0 (0)		
21	MN	eP	10 20 24.0	Z	0.9	2.0 (0)		
21	16 10 08.7		28.2 S 172.6 W				KERMADEC ISLANDS REGION	
			H =057 KM					
21	CP	eP	16 22 32.1	Z	0.9	3.5 (0)	84.0	4.42
21	MV	eP	16 22 37.5	Z	0.8	3.2 (0)	85.0	4.43
21	MN	eP	16 22 44.3	Z	1.0	5.8 (0)	86.0	4.55
		eL	16 49 55	LZ	22	25.0 (1)		
		eL	16 58 00	LZ	17	71.0 (1)		
		eL	16 58 00	LR	17	25.0 (1)		
		eL	16 58 00	LT	17	71.0 (1)		
21	WI	eP	16 22 55.2	Z	1.0	6.9 (0)	88.0	4.77
		eL	16 51 55	LZ	25	22.0 (1)		
		eL	17 00 00	LZ	17	74.0 (1)		
		eL	17 00 00	LR	17	40.0 (1)		
		eL	17 00 00	LT	17	65.0 (1)		
21	LC	eP	16 23 03.5	Z	1.0	3.8 (0)	90.0	4.52
						AVG.		4.54
21	17 04 35.2		15.5 S 172.6 W				SAMOA ISLANDS REGION	
			H =033 KM					
21	TF	eP	17 15 53.5	Z	1.0	8.4 (0)	71.0	4.72
21	MV	eP	17 15 56.9	Z	0.6	1.5 (0)	72.0	4.20
21	MN	eP	17 16 10.6	Z	1.0	7.4 (0)	74.0	4.60
21	WI	eP	17 16 23.0	Z	1.0	4.6 (0)	76.0	4.13
21	LC	eP	17 16 39.0	Z	0.9	5.1 (0)	79.0	4.48
						AVG.		4.43
21	17 30 14.0		62.4 N 152.6 W				CENTRAL ALASKA	
			H =042 KM					
21	WI	eP	17 36 17.2	Z	1.0	15.0 (0)	30.0	4.74

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	17 36 19.0	Z	1.0	12.0 (0)	30.0	4.64
21	MN	eP	17 36 36.0	Z	1.1	21.0 (0)	32.0	4.90
		eL	17 47 00	LZ	23	35.0 (1)		
		eL	17 47 00	LR	23	24.0 (1)		
		eL	17 45 18	LT	25	34.0 (1)		
21	TF	eP	17 36 56.6	Z	1.0	25.0 (0)	34.0	5.06
21	CP	eP	17 37 25.0	Z	1.0	17.0 (0)	37.0	4.81
21	LC	eP	17 38 00.3	Z	1.0	7.5 (0)	42.0	4.41
21	DH	eP	17 38 50.5	Z	1.0	29.0 (0)	48.0	5.23
21	SJ	eP	17 39 03.2	Z	0.8	38.0 (0)	50.0	5.38
						AVG.		4.90
21	18 09 06.8		41.5 N 015.4 E				ITALY	
			H =036 KM					
21	DH	eP	18 19 37.0	Z	1.0	29.0 (0)	64.0	5.35
21	FM	eP	18 21 47.8	Z	0.5	7.0 (0)	87.0	5.08
21	WI	eP	18 21 51.3	Z	0.8	12.0 (0)	87.0	5.11
21	SJ	eP	18 21 55.2	Z	1.0	30.0 (0)	88.0	5.47
21	LC	eP	18 21 59.8	Z	1.0	13.0 (0)	89.0	5.07
21	MN	eP	18 22 03.6	Z	1.0	4.9 (0)	90.0	4.65
		ePP	18 25 36	Z	2.7	85.0 (0)		
21	MV	eP	18 22 06.3	Z	1.0	10.0 (0)	90.0	4.96
21	TF	eP	18 22 21.0	Z	1.0	13.0 (0)	94.0	5.25
21	CP	eP	18 22 22.6	Z	1.0	7.2 (0)	94.0	5.00
						AVG.		5.10
21	18 19 33.3		41.4 N 015.5 E				ITALY	
			H =034 KM					
21	DH	eP	18 29 58.5	Z	1.5	18.0 (1)	63.0	5.88
21	FM	eP	18 32 13.3	Z	0.5	11.0 (0)	86.0	5.17
21	WI	eP	18 32 16.3	Z	1.0	32.0 (0)	87.0	5.43
		ePP	18 35 45	Z	2.0	57.0 (0)		
21	SJ	eP	18 32 21.8	Z	1.5	13.0 (1)	88.0	5.94
21	LC	eP	18 32 25.3	Z	1.1	19.0 (0)	89.0	5.20
21	MN	eP	18 32 28.5	Z	1.2	16.0 (0)	90.0	5.00
		ePP	18 36 00	Z	2.4	88.0 (0)		
21	MV	eP	18 32 31.2	Z	1.5	54.0 (0)	90.0	5.53
21	CP	eP	18 32 47.1	Z	1.6	55.0 (0)	94.0	5.67
21	TF	eP	18 32 48.6	Z	1.0	17.0 (0)	94.0	5.36
						AVG.		5.46
21	18 44 56.4		41.2 N 015.2 E				ITALY	
			H =031 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eP	18 57 42.7	Z	1.0	8.1 (0)	88.0	4.92
21	LC	eP	18 57 51.0	Z	0.9	5.1 (0)	89.0	4.72
21	MN	eP	18 57 54.5	Z	0.8	2.1 (0)	90.0	4.39
21	MV	eP	18 57 57.8	Z	1.0	3.4 (0)	91.0	4.60
							AVG.	4.66
21	MN	eP	20 33 00.2	Z	1.0	2.5 (0)		
21	DH	eP	20 38 40.2	Z	1.0	78.0 (0)		
21	21 06 00.1		28.7 S 176.8 W				KERMADEC ISLANDS REGION	
			H =055 KM					
21	TF	eP	21 18 22.2	Z	1.0	8.4 (0)	83.0	4.75
21	CP	eP	21 18 26.5	Z	1.0	5.7 (0)	84.0	4.63
		eP	21 18 27	LZ	15	29.0 (1)		
21	MV	eP	21 18 30.0	Z	1.3	25.0 (0)	85.0	5.11
21	MN	eP	21 18 36.2	Z	1.1	14.0 (0)	86.0	4.89
		e	21 19 05	Z	1.2	24.0 (0)		
21	WI	eP	21 18 45.5	Z	1.0	8.1 (0)	88.0	5.11
21	FM	eP	21 18 59.3	Z	1.5	59.0 (0)	91.0	5.63
21	LC	eP	21 18 56.2	Z	0.8	5.5 (0)	90.0	4.78
							AVG.	4.99
21	21 09 50.3		29.6 S 111.9 W				EASTER ISLANDS REGION	
			H =033 KM MAG 6.25-6.50 PAS					
21	SJ	eP	21 19 45.0	Z	1.7	43.0 (1)	58.0	6.21
		eP	21 19 45	LZ	16	20.0 (2)		
		eS	21 27 47	LR	20	11.0 (3)		
		eSS	21 31 00	LR	27	79.0 (2)		
		eL	21 38 55	LZ	28	21.0 (3)		
21	LC	eP	21 20 07.5	Z	1.0	25.0 (0)	62.0	5.33
		eP	21 20 08	LZ	20	10.0 (2)		
		eS	21 28 33	LT	15	17.0 (3)		
		eS	21 28 33	LR	20	76.0 (2)		
		eS	21 28 40	R	4.0			
		eS	21 28 40	T	4.5			
		eSS	21 32 05	LT	19	17.0 (3)		
		e	21 36 00	LR	34	13.1 (3)		
		eL	21 40 05	LT	999.9	99.9 (9)		
		eL	21 40 50	Z	17.0			
		eL	21 42 00	LZ	999.9	99.9 (9)		
		eL	21 42 00	LR	18	12.0 (3)		
		eL	21 42 00	LT	17	32.0 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	CP	eP	21 20 10.1	Z	1.5	81.0 (0)	62.0	5.66
		eP	21 20 05	LZ	15	16.0 (2)		
		eS	21 28 47	LR	23	60.0 (2)		
		e	21 29 35	LR	25	21.0 (3)		
		eSS	21 32 42	LR	20	99.0 (2)		
		e	21 37 00	LT	28	42.0 (2)		
		eL	21 39 10	LZ	999.9	99.9 (9)		
		eL	21 39 10	LR	25	25.0 (3)		
		eL	21 39 10	LT	20	13.0 (3)		
		eL	21 39 49	Z	18.0			
21	TF	eP	21 20 28.3	Z	1.6	19.0 (1)	64.0	5.98
		eP	21 20 28	LZ	16	14.0 (2)		
		e	21 28 15	LT	17	15.0 (2)		
		eS	21 29 12	LR	19	63.0 (2)		
		eS	21 29 12	LT	20	44.0 (2)		
		eSS	21 33 10	LT	25	11.0 (3)		
		e	21 36 50	LT	25	31.0 (2)		
		eL	21 40 30	LR	999.9	99.9 (9)		
		eL	21 41 00	Z	17.0			
21	MV	eP	21 20 53.8	Z	1.4	57.0 (0)	69.0	5.51
		eP	21 20 54	LZ	15	11.0 (2)		
		e	21 29 07	LT	20	11.0 (2)		
		eS	21 30 00	LR	22	20.0 (2)		
		eS	21 30 00	LT	24	62.0 (2)		
		e	21 33 40	LT	26	71.0 (2)		
		e	21 39 25	LR	34	69.3 (2)		
		eL	21 42 20	LZ	22	31.0 (2)		
		eL	21 43 03	Z	19.5			
21	MN	eP	21 20 47.0	Z	1.5	98.0 (0)	68.0	5.68
		eP	21 20 47	LZ	16	13.0 (2)		
		eS	21 29 22	LR	20	56.0 (2)		
		eS	21 29 22	LT	20	37.0 (2)		
		eSS	21 33 55	LT	25	37.0 (2)		
		e	21 39 15	LT	25	49.0 (2)		
		eLR	21 42 15	LZ	28	55.0 (2)		
		eL	21 42 35	Z	18.0			
		eL	21 44 00	LZ	18	53.0 (2)		
		eL	21 44 00	LR	999.9	99.9 (9)		
		eL	21 44 00	LT	15	12.0 (2)		
21	FM	eP	21 20 51.2	Z	1.5	21.0 (1)	69.0	6.06
		eP	21 20 52	LZ	13	64.0 (1)		
		eS	21 30 00	LR	24	37.0 (2)		
		eS	21 30 00	LT	24	84.0 (2)		
		e	21 33 48	LT	26	12.0 (3)		
		e	21 39 40	LR	30	10.0 (3)		
		eL	21 42 35	LR	30	13.0 (3)		
		eL	21 45 00	LZ	18	75.0 (2)		
		eL	21 45 00	LR	18	16.0 (3)		
		eL	21 45 00	LT	18	14.0 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eP	21 21 05.0	Z	1.6	12.0 (1)	71.0	5.67
		eP	21 21 07	LZ	15	91.0 (1)		
		e	21 29 37	LR	19	15.0 (2)		
		eS	21 30 25	LR	20	64.0 (2)		
		eS	21 30 25	LT	15	85.0 (1)		
		eS	21 30 30	R	4.0			
		eS	21 30 30	T	5.0			
		e	21 33 35	LR	25	50.0 (2)		
		eSSS	21 37 32	LR	25	36.0 (2)		
		e	21 40 20	LT	25	36.0 (2)		
		eL	21 43 50	LZ	999.9	99.9 (9)		
		eL	21 44 30	R	18.0			
		eL	21 48 00	LZ	20	72.0 (2)		
		eL	21 48 00	LR	20	67.0 (2)		
		eL	21 48 00	LT	20	54.0 (2)		
21	DH	eP	21 21 53.5	Z	1.0	29.0 (0)	80.0	5.13
		eS	21 31 55	LR	22	70.0 (2)		
		eS	21 31 55	LT	25	28.0 (2)		
		e	21 36 08	LR	25	46.0 (2)		
		eSSS	21 39 56	LR	23	35.0 (2)		
		e	21 43 00	LR	25	16.0 (3)		
		eL	21 44 50	LR	40	36.0 (3)		
		eL	21 50 50	LZ	25	54.0 (2)		
		eL	21 50 50	LR	25	50.0 (2)		
		eL	21 50 50	LT	20	35.0 (2)		
							AVG.	5.69
21	LC	eP	21 36 50.1	Z	0.3	15.0 (0)	1.4	
		eS	21 37 07	R	0.4	35.0 (0)		
21	22 04 42.0		28.8 S 176.5 W				KERMADEC ISLANDS REGION	
			H = 055 KM					
21	MV	eP	22 17 14.6	Z	0.8	3.2 (0)	85.0	4.43
21	LC	eP	22 33 44.5	Z	1.0	5.0 (0)		
21	MN	eP	22 34 24.0	Z	1.2	9.4 (0)		
21	WI	eP	22 34 44.0	Z	1.0	3.4 (0)		
21	MN	eP	22 57 35.2	Z	0.5	18.0 (0)		
22	MN	eP	03 00 11.5	Z	0.4	99.9 (9)	0.2	
		eS	03 00 16	R	0.5	4.8 (0)		
22	MN	eP	04 28 58.6	Z	999.9	99.9 (9)	0.5	
		eS	04 29 06	T	0.4	6.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	04 32 29.1		26.1 N 142.5 E				VOLCANO ISLANDS REGION	
			H = 029 KM					
22	MV	eP	04 44 28.5	Z	1.0	5.1 (0)	78.0	4.52
22	WI	eP	04 44 38.3	Z	0.8	3.5 (0)	80.0	4.31
		e	04 44 42	Z	0.7	4.5 (0)		
22	CP	eP	04 45 01.6	Z	1.4	11.0 (0)	84.0	4.81
		eL	05 11 43	LZ	27	27.0 (1)		
22	LC	eP	04 45 37.6	Z	1.2	12.0 (0)	92.0	4.10
22	MN	eL	05 09 22	LZ	999.9	99.9 (9)	81.0	
		eL	05 18 55	LZ	17	38.0 (1)		
		eL	05 18 55	LR	18	31.0 (1)		
		eL	05 18 55	LT	20	22.0 (1)		
22	TF	eL	05 09 46	LZ	21	25.0 (1)	83.0	
		eL	05 19 55	LZ	17	77.0 (1)		
		eL	05 19 55	LT	17	46.0 (1)		
		eL	05 19 55	LR	20	33.0 (1)		
							AVG.	4.44
22	LC	eP	04 42 47.1	Z	0.7	1.2 (0)		
22	LC	eP	04 48 32.5	Z	0.7	2.5 (0)		
22	WI	eP	04 51 11.5	Z	999.9	99.9 (9)		
22	MV	eP	04 59 07.0	Z	0.4	2.3 (0)		
22	MV	eL	05 00 40	R	0.7	6.8 (0)		
22	CP	eP	05 00 43.1	Z	999.9	99.9 (9)		
22	CP	eP	05 21 24.1	Z	0.5	2.1 (0)		
22	LC	eP	05 22 30.6	Z	0.5	0.9 (0)		
22	LC	eL	05 24 29	R	0.5	2.4 (0)		
22	05 29 26.6		28.6 S 176.7 W				KERMADEC ISLANDS REGION	
			H = 055 KM					
22	MN	eP	05 42 02.6	Z	0.7	2.1 (0)	86.0	4.27
		eL	06 10 12	LZ	24	99.0 (0)		
		eL	06 16 20	LZ	18	67.0 (1)		
		eL	06 16 20	LR	17	22.0 (1)		
		eL	06 16 20	LT	18	67.0 (1)		
22	WI	eP	05 42 14.6	Z	1.1	4.3 (0)	89.0	4.54
		eL	06 12 55	LZ	20	17.0 (1)		
		eL	06 19 05	LZ	20	56.0 (1)		
		eL	06 19 05	LT	17	56.0 (1)		
		eL	06 19 05	LR	19	25.0 (1)		
22	CP	eL	06 09 10	LZ	20	17.0 (1)	85.0	
22	MV	eL	06 10 00	LZ	20	12.0 (1)	84.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	M.G	
22	TF	eL	06 16 12	LZ	17	42.0 (1)	84.0		
		eL	06 16 12	LT	20	18.0 (1)			
		eL	06 16 12	LR	18	91.0 (0)			
		eL	06 11 50	LZ	18	29.0 (1)			
		eL	06 14 32	LZ	18	70.0 (1)			
	FM	eL	06 14 32	LT	18	23.0 (1)			
		eL	06 14 32	LR	17	57.0 (1)			
		eL	06 14 40	LZ	15	12.0 (1)			85.0
		eL	06 19 09	LZ	17	23.0 (1)			
		eL	06 19 09	LR	17	30.0 (1)			
LC	eL	06 16 01	LZ	18	22.0 (1)	89.0			
	eL	06 20 24	LZ	17	48.0 (1)				
	eL	06 20 24	LT	16	36.0 (1)				
	eL	06 20 24	LR	17	13.0 (1)				
	eL	06 20 24	LR	17	13.0 (1)				
SJ	eL	06 16 06	LZ	10	11.0 (2)	94.0			
	eL	06 20 05	LZ	25	80.0 (1)				
	eL	06 20 05	LR	19	55.0 (1)				
	eL	06 20 05	LT	19	11.0 (2)				
						AVG.	4.41		
22	DH	eL	06 43 16	LZ	15	76.0 (1)			
22	DH	eL	06 43 16	LR	15	50.0 (1)			
22	DH	eL	06 43 16	LT	16	15.0 (1)			
22	WI	eP	06 59 14.5	Z	999.9	99.9 (9)			
22	MN	eP	08 41 06.5	Z	999.9	99.9 (9)	0.2		
		eS	08 41 11	T	0.6	99.9 (9)			
22	09	12 49.7	20.3 S 177.8 W	FIJI ISLANDS					
			H = 503 KM						
22	MV	eP	09 24 04.2	Z	1.0	5.1 (0)	80.0	3.91	
22	MN	eP	09 24 12.5	Z	0.7	3.8 (0)	81.0	4.03	
22	WI	eP	09 24 23.0	Z	0.7	4.5 (0)	83.0	4.11	
22	LC	eP	09 24 38.1	Z	1.1	8.0 (0)	86.0	4.26	
							AVG.	4.08	
22	CP	eP	09 29 22.6	Z	999.9	99.9 (9)			
22	DH	eL	09 30 55	LZ	35	24.0 (1)			
22	WI	eL	09 33 42	LZ	30	20.0 (1)			
22	MV	eL	09 33 47	LZ	34	24.0 (1)			
22	MN	eL	09 33 55	LZ	30	26.0 (1)			
22	CP	eL	09 34 45	LZ	30	18.0 (1)			
22	DH	eL	09 37 30	LZ	20	72.0 (1)			
22	DH	eL	09 37 30	LR	20	23.0 (1)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	DH	eL	09 37 30	LT	19	69.0 (1)		
22	TF	eL	09 38 06	LZ	30	18.0 (1)		
22	LC	eL	09 38 55	LZ	30	33.0 (1)		
22	MN	eL	09 39 05	LZ	25	37.0 (1)		
22	MN	eL	09 39 05	LR	23	27.0 (1)		
22	MN	eL	09 39 05	LT	23	31.0 (1)		
22	WI	eL	09 39 11	LZ	23	42.0 (1)		
22	WI	eL	09 39 11	LR	20	15.0 (1)		
22	WI	eL	09 39 11	LT	25	50.0 (1)		
22	MV	eL	09 40 30	LZ	22	21.0 (1)		
22	MV	eL	09 40 30	LR	20	78.0 (0)		
22	MV	eL	09 40 30	LT	23	18.0 (1)		
22	CP	eL	09 41 09	LZ	20	43.0 (1)		
22	CP	eL	09 41 09	LT	20	23.0 (1)		
22	TF	eL	09 45 38	LZ	19	43.0 (1)		
22	TF	eL	09 45 38	LR	19	18.0 (1)		
22	TF	eL	09 45 38	LT	19	26.0 (1)		
22	LC	eL	09 45 50	LZ	17	85.0 (1)		
22	LC	eL	09 45 50	LR	12	26.0 (1)		
22	LC	eL	09 45 50	LT	19	68.0 (1)		
22	11 11	56.3	49.7 S 117.5 E	SOUTHWEST OF AUSTRALIA				
			H = 033 KM					
22	12 05	54.9	28.6 S 176.7 W	KERMADEC ISLANDS REGION				
			H = 056 KM					
22	CP	eP	12 18 25.0	Z	1.0	2.9 (0)	85.0	4.30
22	MN	eP	12 18 31.5	Z	1.0	21.0 (0)	86.0	4.10
		e	12 18 42	Z	1.0	5.8 (0)		
		eL	12 51 40	LZ	17	22.0 (1)		
		eL	12 53 14	LZ	16	31.0 (1)		
		eL	12 53 14	LR	19	13.0 (1)		
22	MV	eP	12 18 36.6	Z	1.0	5.1 (0)	84.0	4.54
		eL	12 50 35	LZ	19	10.0 (1)		
		eL	12 55 20	LZ	16	19.0 (1)		
		eL	12 55 20	LR	999.9	99.9 (9)		
		eL	12 55 20	LT	17	18.0 (1)		
22	WI	eP	12 18 44.5	Z	1.0	2.2 (0)	89.0	4.29
		e	12 18 55	Z	1.0	4.5 (0)		
		eL	12 51 20	LZ	16	98.0 (0)		
		eL	12 55 20	LZ	17	27.0 (0)		
		eL	12 55 20	LR	19	14.0 (1)		
		eL	12 55 20	LT	17	30.0 (1)		
22	LC	eP	12 18 51.0	Z	1.0	2.5 (0)	90.0	4.34

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	TF	eL	12 19 02	Z	1.0	4.9 (0)		
		eL	12 48 02	LZ	20	10.0 (1)	83.0	
		eL	12 51 25	LZ	18	41.0 (1)		
		eL	12 51 25	LR	19	30.0 (1)		
22	FM	eL	12 54 15	LZ	17	70.0 (0)	89.0	
							AVG.	4.31
22	14 31 44.2		29.5 S 112.3 W				EASTER ISLANDS REGION	
			H = 033 KM					
22	SJ	eP	14 41 39.0	Z	1.0	20.0 (0)	59.0	5.10
22	LC	eP	14 42 02.1	Z	1.2	4.0 (0)	62.0	4.46
		e	14 51 23	R	0.9	2.1 (0)		
		eL	15 03 25	LZ	17	24.0 (1)		
22	MN	eP	14 42 48.5	Z	1.5	7.8 (0)	69.0	4.58
		eL	15 04 45	LZ	24	59.0 (1)		
		eL	15 05 25	LZ	24	59.0 (1)		
		eL	15 05 25	LR	21	39.0 (1)		
		eL	15 05 25	LT	20	36.0 (1)		
22	WI	eP	14 42 56.2	Z	1.1	2.9 (0)	71.0	4.22
		eL	15 06 10	LZ	30	41.0 (1)		
		eL	15 06 10	LT	26	14.0 (1)		
		eL	15 06 10	LR	25	34.0 (1)		
22	TF	eL	15 03 00	LZ	21	10.0 (2)	62.0	
		eL	15 03 00	LR	23	55.0 (1)		
22	MV	eL	15 04 45	LZ	23	36.0 (1)	69.0	
		eL	15 04 45	LR	20	10.0 (1)		
		eL	15 04 45	LT	20	32.0 (1)		
							AVG.	4.59
22	CP	eP	14 47 34.0	Z	999.9	99.9 (9)		
22	WI	eP	14 49 37.0	Z	0.5	0.8 (0)		
22	WI	eL	14 51 12	T	0.7	3.4 (0)		
22	DH	eL	15 04 30	LZ	105	31.0 (3)		
22	DH	eL	15 04 30	LR	84	65.0 (2)		
22	DH	eL	15 04 30	LT	97	14.0 (3)		
22	DH	eP	15 35 24.5	Z	0.3	3.2 (0)		
22	LC	eP	15 42 02.0	Z	0.7	0.6 (0)		
22	17 33 42.3		06.4 S 154.1 E				SOLOMON ISLANDS REGION	
			H = 179 KM					
22	MN	eP	17 54 08.5	Z	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	A
22	DH	eP	19 33 33.5	Z	0.5	3.6 (0)
22	WI	eP	19 40 04.5	Z	999.9	99.9 (9)
22	LC	eP	20 34 22.0	Z	999.9	99.9 (9)
		eS	20 34 41	R	0.5	99.9 (9)
22	21 08 22.9		08.3 N 123.8 E			MINDANAO, PHILIPPINE IS.
			H = 125 KM			
22	TF	eP	21 39 11.9	Z	999.9	99.9 (9)
22	MV	eP	21 39 21.0	Z	0.3	7.2 (0)
		eS	21 40 01	T	0.5	16.0 (0)
23	DH	eP	01 35 45.6	Z	0.4	16.0 (0)
23	CP	eP	02 23 14.8	Z	0.2	12.0 (0)
		eS	02 23 24	T	0.3	26.0 (0)
23	MN	eP	02 35 49.3	Z	999.9	99.9 (9)
		eS	02 35 57	T	0.3	10.0 (0)
23	CP	eP	03 03 37.2D	Z	0.3	22.0 (0)
		eS	03 03 47	R	999.9	99.9 (9)
23	03 57 18.0		55.3 N 167.3 E			KOMANDORSKIE ISLANDS
			H = 033 KM			
23	WI	eP	04 06 07.0	Z	0.6	0.9 (0)
23	LC	eP	04 07 36.1	Z	0.8	1.5 (0)
		e	04 29 08	Z	1.0	2.5 (0)
						AVG.
						4.09
23	MN	eP	06 00 43.9	Z	1.0	2.4 (0)
23	WI	eP	06 01 02.4	Z	0.7	1.2 (0)
23	LC	eP	06 25 05.0	Z	1.0	2.5 (0)
23	WI	eP	06 26 59.6	Z	0.9	1.9 (0)
23	MN	eP	06 31 27.5C	Z	999.9	99.9 (9)
23	MV	eL	06 40 04	LZ	17	49.0 (0)
23	MN	eL	06 40 20	LZ	16	69.0 (0)
23	MV	eL	06 40 58	LZ	19	72.0 (0)
23	MV	eL	06 40 58	LR	15	82.0 (0)
23	MV	eL	06 40 58	LT	16	62.0 (0)
23	MN	eL	06 47 05	LZ	16	69.0 (0)
23	MN	eL	06 47 05	LT	16	10.0 (1)

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	WI	eP	07 23 58.8	Z	0.3	2.2 (0)	3.8	
		eS	07 24 12	T	0.4	5.1 (0)		
23	LC	eP	07 40 10.0	Z	0.6	1.6 (0)		
23	LC	eP	08 35 36.1	Z	1.0	3.7 (0)		
23	WI	eP	08 59 44.4	Z	0.6	1.4 (0)		
23	CP	iP	10 10 12.4D	Z	0.2	21.0 (0)	0.6	
		eS	10 10 21	T	999.9	99.9 (9)		
23	WI	eP	10 23 03.5	Z	0.4	4.6 (0)	1.6	
		eS	10 23 25	T	0.4	12.0 (0)		
23	12 35 34.2		51.7 N 173.8 E				NEAR IS. ALEUTIAN ISLANDS	
			H =033 KM					
23	MV	eP	12 43 54.3	Z	0.7	3.4 (0)	46.0	4.44
23	WI	eP	12 44 02.2	Z	1.2	5.6 (0)	47.0	4.47
23	MN	eP	12 44 13.3	Z	0.7	2.8 (0)	48.0	4.40
23	TF	eP	12 44 22.3	Z	0.6	3.5 (0)	49.0	4.53
23	CP	eP	12 44 50.7	Z	0.7	4.3 (0)	53.0	4.52
23	LC	eP	12 45 35.2	Z	0.7	8.7 (0)	59.0	4.89
23	DH	eP	12 46 39.3	Z	0.5	7.1 (0)	69.0	5.02
						AVG.		4.61
23	12 46 22.7		62.2 N 152.8 W				CENTRAL ALASKA	
			H =025 KM					
23	WI	eP	12 52 27.5	Z	0.7	3.5 (0)	30.0	4.27
23	MV	eP	12 52 30.0	Z	0.7	6.0 (0)	30.0	4.50
		eL	12 58 09	LZ	20	12.0 (1)		
		eL	12 58 09	LR	20	52.0 (0)		
23	MN	eP	12 52 47.0	Z	0.6	7.4 (0)	32.0	4.73
		eL	12 59 05	LZ	25	48.0 (0)		
		eL	13 00 18	LR	24	15.0 (1)		
		eL	13 00 18	LZ	21	97.0 (0)		
23	TF	eP	12 53 06.8	Z	0.8	10.0 (0)	34.0	4.77
23	CP	eP	12 53 36.3	Z	0.6	7.3 (0)	38.0	4.64
		eL	12 59 58	LZ	28	12.0 (1)		
23	AR	eP	12 53 52.5	Z	0.6	11.0 (0)	39.0	4.74
		eL	13 06 00	LR	20	63.0 (1)		
23	LC	eP	12 54 12.0	Z	1.0	3.7 (0)	42.0	4.09
23	SJ	eP	12 55 13.6	Z	0.7	20.0 (0)	49.0	5.23
23	FM	eL	13 00 30	LZ	20	32.0 (0)	33.0	
		eL	13 05 15	LR	15	15.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	DH	eL	13 05 15	LZ	13	70.0 (0)		
		eL	13 11 05	LR	24	30.0 (1)	47.0	
		eLR	13 14 36	LZ	12	21.0 (1)		
		eL	13 15 45	LR	18	18.0 (1)		
		eL	13 15 45	LZ	18	74.0 (1)		
						AVG.		4.62
23	13 03 44.5		17.5 S 178.7 W				FIJI ISLANDS	
			H =571 KM					
23	LC	eL	13 07 58	LZ	19	11.0 (1)		
23	LC	eL	13 10 48	LZ	20	10.0 (1)		
23	LC	eL	13 10 48	LR	17	13.0 (1)		
23	LC	eL	13 10 48	LT	16	15.0 (1)		
23	15 29 46.6		22.9 N 120.8 E				NEAR SOUTHERN FORMOSA	
			H =017 KM					
23	MV	eP	15 43 10.8	Z	0.9	8.2 (0)	95.0	5.16
23	WI	eP	15 43 17.0	Z	1.2	7.5 (0)	97.0	5.18
		ePP	15 47 27	Z	1.2	3.8 (0)		
23	MN	eP	15 43 22.5	Z	0.5	0.5 (0)	98.0	4.54
		ePP	15 47 18	Z	0.9	2.0 (0)		
						AVG.		4.96
23	TF	eL	16 16 30	LZ	25	10.0 (1)		
23	MV	eL	16 16 47	LZ	21	77.0 (0)		
23	MV	eL	16 18 20	LZ	24	11.0 (1)		
23	MV	eL	16 18 20	LR	20	10.0 (1)		
23	MV	eL	16 18 20	LT	25	18.0 (1)		
23	AR	eL	16 26 38	LZ	20	35.0 (1)		
23	AR	eL	16 36 22	LZ	19	13.0 (1)		
23	AR	eL	16 36 22	LR	19	52.0 (0)		
23	AR	eL	16 36 22	LT	18	28.0 (1)		
23	16 48 46.3		21.4 S 179.1 W				FIJI ISLANDS	
			H =587 KM					
23	DH	eP	17 00 34.0	Z	0.3	16.0 (1)	2.1	
		eS	17 01 02	R	0.3	30.0 (0)		
23	19 17 26.6		15.6 S 172.2 W				SAMOA ISLANDS REGION	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	MN	eP	19 29 01.0	Z	1.0	4.0 (0)	74.0	4.34
23	WI	eP	19 29 13.5	Z	1.0	3.4 (0)	76.0	4.33
23	LC	eP	19 29 30.0	Z	1.1	4.8 (0)	79.0	4.37
						AVG.		4.35
23	19 29 16.0		41.8 N 124.1 W	DEL NORTE CO., CALIFORNIA				
			H =033 KM	MAG 5.50-		BRK		
23	MV	eP	19 30 08	LZ	999.9	99.9 (9)	3.5	
23	WI	tP	19 30 30.5C	Z	999.9	99.9 (9)	5.0	
		eP	19 30 33	LZ	16	39.0 (2)		
23	MN	tP	19 30 41.0D	Z	999.9	99.9 (9)	5.5	
		eP	19 30 45	LZ	12	31.0 (2)		
23	TF	eP	19 31 04.4	Z	999.9	99.9 (9)	7.0	
		eP	19 31 06	LZ	10	70.0 (2)		
23	FM	eP	19 31 33.8	Z	0.6	12.0 (1)	10.0	6.37
		eP	19 31 35	LZ	13	23.0 (2)		
		eL	19 34 14	T	1.0	13.0 (1)		
		eL	19 33 45	LT	999.9	99.9 (9)		
23	CP	eP	19 31 55.7	Z	0.4	34.0 (0)	11.0	5.93
		eP	19 31 57	LZ	12	43.0 (2)		
		eL	19 34 44	T	1.7	34.0 (1)		
		eL	19 34 45	LT	22	14.0 (3)		
23	LC	eP	19 33 11.9	Z	0.6	99.9 (9)	17.0	
		eP	19 33 14	LZ	17	18.0 (2)		
		eS	19 36 28	LT	17	51.0 (2)		
		eS	19 36 28	LR	18	14.0 (2)		
		eSS	19 37 15	LT	999.9	99.9 (9)		
		eL	19 38 04	T	3.0	20.0 (2)		
		eLR	19 39 00	LZ	999.9	99.9 (9)		
		eL	19 40 05	LR	999.9	99.9 (9)		
		eL	19 40 05	LZ	999.9	99.9 (9)		
		eL	19 40 05	LT	999.9	99.9 (9)		
23	SJ	eP	19 34 41.3	Z	1.0	10.0 (2)	26.0	6.37
		eP	19 34 45	LZ	15	16.0 (2)		
		eS	19 39 12	LR	17	84.0 (1)		
		eS	19 39 12	LT	22	23.0 (2)		
		e	19 41 05	LR	17	56.0 (2)		
		eL	19 41 50	LT	999.9	99.9 (9)		
		eL	19 42 56	T	3.5	45.0 (2)		
		eL	19 44 00	LZ	28	75.0 (2)		
23	AR	eP	19 34 47.1	Z	0.6	18.0 (1)	26.0	5.84
		eP	19 34 49	LZ	12	19.0 (2)		
		eS	19 39 25	LR	20	28.0 (2)		
		eS	19 39 25	LT	22	21.0 (2)		
		eL	19 42 05	LR	21	99.9 (9)		
		eL	19 43 19	T	2.5	48.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	19 45 30	LZ	16	18.0 (3)		
		eL	19 45 30	LT	16	17.0 (3)		
23	DH	eL	19 45 30	LR	17	87.0 (2)	36.0	6.02
		eP	19 36 15.2	Z	0.7	17.0 (1)		
		eP	19 36 17	LZ	20	57.0 (1)		
		ePP	19 37 43	LZ	13	69.0 (1)		
		eS	19 41 58	LR	32	20.0 (2)		
		eS	19 41 58	LT	25	47.0 (1)		
		eSS	19 44 20	LR	23	55.0 (1)		
		eLQ	19 45 58	LT	35	31.0 (2)		
		eL	19 49 05	LT	21	11.0 (3)		
		eL	19 49 05	LR	24	30.0 (2)		
		eL	19 49 05	LZ	30	22.0 (2)		
		eLR	19 50 30	LZ	16	43.0 (2)		
		eL	19 51 45	LR	17	73.0 (2)		
		eL	19 51 45	LT	15	60.0 (2)		
		eL	19 51 45	LZ	999.9	99.9 (9)		
						AVG.		6.11
23	LC	eP	20 07 01.0	Z	1.0	2.5 (0)		
23	MN	eP	20 07 46.7	Z	1.0	2.4 (0)		
23	WI	eP	20 08 01.0	Z	1.2	3.8 (0)		
23	20 52 51.8		56.1 S 026.6 W	SANDWICH ISLANDS				
			H =033 KM					
23	TF	eP	21 11 41.3	Z	0.9	6.7 (0)	120.0	
23	MN	eP	21 11 43.3	Z	1.0	8.0 (0)	121.0	
		ePP	21 13 22	Z	1.1	7.3 (0)		
23	WI	eP	21 11 46.9	Z	1.2	24.0 (0)	124.0	
		ePP	21 13 27	Z	1.6	18.0 (0)		
23	MV	eP	21 11 47.2	Z	1.0	15.0 (0)	124.0	
23	FM	eP	23 48 09.8	Z	0.4	23.0 (0)		
24	01 45 35.9		52.3 N 160.6 E	OFF E. COAST OF KAMCHATKA				
			H =033 KM					
24	03 58 46.2		11.2 S 165.0 E	SANTA CRUZ ISLANDS				
			H =032 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	SJ	eP	06 17 22.8	Z	0.6	26.0 (0)		
24	DH	eP	06 19 38.2	Z	0.8	12.0 (0)		
24	WI	eP	06 20 34.9	Z	0.6	2.2 (0)		
24	06 47 08.1		24.5 S 178.8 E				FIJI ISLANDS REGION	
			H =526 KM					
24	TF	eP	06 58 39.0	Z	1.0	32.0 (0)	83.0	4.80
24	CP	eP	06 58 44.6	Z	1.2	80.0 (0)	84.0	5.22
24	MV	eP	06 58 46.5	Z	1.2	34.0 (0)	85.0	4.85
		epP	07 00 54	Z	1.5	6.4 (0)		
24	MN	eP	06 58 54.0	Z	1.0	25.0 (0)	86.0	4.83
24	WI	eP	06 59 04.3	Z	1.2	98.0 (1)	88.0	5.44
		epP	07 01 06	Z	1.2	7.9 (0)		
24	FM	eP	06 59 14.2	Z	1.0	9.9 (0)	91.0	4.72
24	LC	eP	06 59 17.2	Z	1.0	22.0 (0)	91.0	5.07
		epP	07 01 22	Z				
							AVG.	4.99
24	CP	eP	08 22 33.3	Z	0.3	12.0 (0)	1.3	
		eS	08 22 50	T	0.3	17.0 (0)		
24	09 04 22.9		15.0 S 173.3 W				SAMOA ISLANDS REGION	
			H =033 KM				MAG 5.25-5.50 PAL	
24	TF	eP	09 15 42.5	Z	1.0	21.0 (0)	72.0	5.16
		eP	09 15 47	LZ	17	54.0 (1)		
		eS	09 25 02	LR	20	16.0 (2)		
		eS	09 25 02	LT	18	18.0 (2)		
		e	09 33 40	LT	24	50.0 (2)		
		eLR	09 36 35	LZ	24	99.0 (2)		
		eL	09 38 20	LZ	24	10.0 (3)		
		eL	09 38 20	LR	19	86.0 (2)		
		eL	09 38 20	LT	23	13.0 (2)		
24	MV	eP	09 15 48.4	Z	1.4	16.0 (0)	73.0	4.86
		eP	09 15 48	LZ	15	45.0 (1)		
		eS	09 25 15	LR	23	26.0 (2)		
		eS	09 25 15	LT	18	15.0 (2)		
		ePS	09 25 50	LT	23	33.0 (2)		
		e	09 34 35	LR	27	30.0 (2)		
		eLR	09 37 12	LZ	27	24.0 (2)		
		eL	09 38 30	LZ	27	24.0 (2)		
		eL	09 38 30	LR	27	97.0 (1)		
		eL	09 38 30	LT	25	19.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	CP	eP	09 15 49.4	Z	1.5	36.0 (0)	73.0	5.22
		eP	09 15 49	LZ	15	55.0 (1)		
		eS	09 25 17	LR	17	14.0 (2)		
		eS	09 25 17	LT	19	12.0 (2)		
		e	09 34 13	LR	24	27.0 (2)		
		eLR	09 36 34	LZ	999.9	99.9 (9)		
		eL	09 39 35	LZ	999.9	99.9 (9)		
		eL	09 39 35	LR	24	11.0 (2)		
		eL	09 39 35	LT	21	50.0 (2)		
24	MN	eP	09 16 01.4	Z	1.0	25.0 (0)	75.0	5.13
		eP	09 16 01	LZ	16	34.0 (1)		
		eS	09 25 37	LR	17	17.0 (2)		
		eS	09 25 37	LT	20	13.0 (2)		
		eSS	09 30 25	LR	25	87.0 (1)		
		e	09 33 50	LR	22	36.0 (2)		
		eLR	09 38 03	LZ	30	57.0 (2)		
		eL	09 39 35	LZ	26	47.0 (2)		
		eL	09 39 35	LR	23	18.0 (2)		
		eL	09 39 35	LT	25	46.0 (2)		
24	WI	eP	09 16 08.9	Z	1.5	82.0 (0)	76.0	5.55
		eP	09 16 10	LZ	18	34.0 (1)		
		eS	09 25 57	LR	18	19.0 (2)		
		eS	09 25 57	LT	18	56.0 (1)		
		eSS	09 30 55	LR	23	65.0 (1)		
		e	09 34 54	LR	27	49.0 (2)		
		eLR	09 39 08	LZ	31	38.0 (2)		
		eL	09 42 10	LZ	20	14.0 (2)		
		eL	09 42 10	LR	20	13.0 (2)		
		eL	09 42 10	LT	20	16.0 (2)		
24	FM	eP	09 16 23.0	Z	1.5	78.0 (0)	79.0	5.45
		eP	09 16 25	LZ	17	29.0 (1)		
		eS	09 26 25	LR	25	76.0 (1)		
		eS	09 26 25	LT	17	23.0 (2)		
		eSS	09 31 29	LT	25	87.0 (1)		
		e	09 37 19	LT	22	41.0 (2)		
		eLR	09 40 10	LZ	25	99.9 (9)		
		eL	09 42 30	LZ	24	99.9 (9)		
		eL	09 42 30	LR	24	39.0 (2)		
		eL	09 42 30	LT	24	12.0 (2)		
24	LC	eP	09 16 27.0	Z	1.0	69.0 (0)	79.0	5.57
		eP	09 16 28	LZ	16	49.0 (1)		
		eS	09 26 35	LR	16	15.0 (2)		
		eS	09 26 35	LT	21	15.0 (2)		
		eSS	09 31 55	LT	19	13.0 (2)		
		e	09 38 35	LT	23	84.0 (1)		
		eLR	09 40 33	LZ	24	58.0 (2)		
		eL	09 43 00	LZ	23	66.0 (2)		
		eL	09 43 00	LR	23	29.0 (2)		
		eL	09 43 00	LT	23	49.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	SJ	eP	09 16 57.0	Z	1.6	58.0 (0)	85.0	5.47
		eP	09 16 58	LZ	15	16.0 (2)		
		eS	09 27 26	LR	18	33.0 (2)		
		e	09 39 28	LR	29	20.0 (2)		
24	AR	eL	09 43 22	LR	28	61.0 (2)		
		eP	09 17 56.6	Z	1.2	22.0 (0)	98.0	5.70
		eSKS	09 28 40	LR	18	74.0 (1)		
		eSS	09 35 55	LR	21	52.0 (1)		
		e	09 41 27	LR	23	84.0 (1)		
		e	09 46 55	LR	29	13.0 (2)		
		eLR	09 50 25	LZ	25	65.0 (2)		
		eL	09 54 40	LZ	22	75.0 (2)		
		eL	09 54 40	LR	23	54.0 (2)		
24	DH	eL	09 54 40	LT	20	15.0 (2)		
		ePP	09 22 57	LZ	18	17.0 (1)	106.0	
		eSKS	09 29 18	LR	18	76.0 (1)		
		eS	09 30 35	LT	20	40.0 (1)		
		ePS	09 32 18	LR	25	64.0 (1)		
		eSS	09 38 10	LR	23	23.0 (2)		
		e	09 48 15	LT	30	12.0 (2)		
		eLR	09 53 27	LZ	30	34.0 (2)		
		eL	09 58 15	LZ	27	38.0 (2)		
		eL	09 58 15	LR	27	29.0 (2)		
		eL	09 58 15	LT	25	70.0 (1)		
							AVG.	5.35
24	FM	eL	11 25 25	LZ	23	16.0 (1)		
24	MN	eL	11 36 10	LZ	24	48.0 (1)		
24	FM	eL	11 36 35	LZ	24	36.0 (1)		
24	FM	eL	11 36 35	LR	25	48.0 (1)		
24	MN	eL	11 38 00	LZ	25	44.0 (1)		
24	MN	eL	11 38 00	LR	25	19.0 (1)		
24	MN	eL	11 38 00	LT	20	43.0 (1)		
24	LC	eP	12 31 55.5	Z	0.8	1.6 (0)		
24	13 15 37.0		17.5 S 070.4 W				PERU-BOLIVIA BORDER	
			H =092 KM					
24	DH	eP	13 25 35.0	Z	0.8	25.0 (0)	60.0	5.39
24	LC	eP	13 25 40.6	Z	1.0	2.5 (0)	61.0	4.21
24	CP	eP	13 26 33.0	Z	0.8	0.9 (0)	69.0	3.99
24	FM	eP	13 26 34.5	Z	0.8	12.0 (0)	69.0	4.81
		e	13 26 51	Z	0.8	10.0 (0)		
24	WI	eP	13 27 00.2	Z	0.5	9.7 (0)	73.0	4.92
		e	13 27 16	Z	0.7	12.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.66
24	CP	eP	13 47 15.6	Z	0.3	13.0 (0)	0.1	
		eS	13 47 18	T	0.3	29.0 (0)		
24	18 15 01.9		17.9 S 178.5 W				FIJI ISLANDS	
			H =600 KM					
24	MV	eP	18 26 00.6	Z	1.0	3.1 (0)	78.0	3.69
24	WI	eP	18 26 19.9	Z	1.0	7.2 (0)	82.0	4.16
24	LC	eP	18 26 37.4	Z	0.8	2.2 (0)	85.0	4.84
							AVG.	4.23
24	CP	eP	19 43 57.8	Z	0.3	20.0 (0)	1.1	
		eS	19 44 12	T	0.3	31.0 (0)		
24	MV	eP	23 41 50.0	Z	0.6	2.6 (0)		
25	CP	eP	00 28 04.0	Z	0.4	14.0 (0)	1.4	
		eS	00 28 21	T	0.4	39.0 (0)		
25	00 29 04.9		44.4 N 148.7 E				KURILE ISLANDS	
			H =080 KM					
25	MN	eP	00 39 47.5	Z	1.0	5.0 (0)	66.0	4.46
25	LC	eP	00 40 53.4	Z	0.9	2.0 (0)	78.0	4.01
							AVG.	4.24
25	CP	eP	00 52 11.2	Z	0.3	16.0 (0)	0.3	
		eS	00 52 17	R	0.4	36.0 (0)		
25	02 11 11.5		55.5 N 155.9 W				OFF COAST OF ALASKA	
			H =033 KM					
25	WI	eP	02 17 08.7	Z	0.9	2.6 (0)	29.0	3.99
25	08 31 48.7		20.5 S 178.5 E				FIJI ISLANDS	
			H =561 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
25	TF	eP	08 42 54.0	Z	1.0	90.0 (0)	79.0	5.15				
		eP	08 42 55	LZ	16	57.0 (1)						
		epP	08 44 56	Z	1.5	77.0 (0)						
		epP	08 44 56	LZ	16	57.0 (1)						
		esP	08 45 51	LZ	17	78.0 (1)						
		e	08 52 08	R	2.0	11.0 (1)						
		e	08 52 09	LT	21	46.0 (2)						
		e	08 52 57	LR	25	30.0 (2)						
		esS	08 55 38	LT	23	48.0 (2)						
		esPS	08 56 19	LR	24	43.0 (2)						
		eSS	08 57 24	LT	19	17.0 (2)						
		esSS	09 00 31	LR	25	21.0 (2)						
		e	09 03 49	LT	35	30.0 (2)						
		e	09 09 17	LT	30	19.0 (2)						
		eP'P'	09 09 54	Z	2.5	11.0 (1)						
		25	CP	iP	08 42 59.7C	Z			1.2	26.0 (1)	80.0	5.44
				eP	08 43 01	LZ			13	63.0 (1)		
epP	08 45 02			Z	1.4	52.0 (0)						
epP	08 45 02			LZ	18	43.0 (1)						
esP	08 45 59			LZ	17	54.0 (1)						
e	08 52 20			R	2.1	28.0 (1)						
e	08 52 23			LR	18	42.0 (2)						
esS	08 55 53			LT	20	22.0 (2)						
eP'P'	09 09 48			Z	2.0	31.0 (0)						
eSKPP'	09 12 28			Z	1.9	45.0 (0)						
25	MV			eP	08 43 01.1	Z	0.8	86.0 (0)	80.0	5.23		
				eP	08 43 02	LZ	15	51.0 (7)				
				epP	08 45 00	LZ	15	26.0 (1)				
				epP	08 45 03	Z	1.5	64.0 (0)				
				esP	08 45 59	LZ	17	63.0 (1)				
				e	08 52 22	R	2.5	24.0 (1)				
				e	08 52 22	LT	20	27.0 (2)				
		esS	08 55 55	LR	23	20.0 (2)						
		esPS	08 56 34	LR	28	27.0 (2)						
		e	09 09 23	LT	26	85.0 (1)						
		25	MN	eP	08 43 10.1	Z	999.9	99.9 (9)			82.0	
				eP	08 43 10	LZ	17	37.0 (1)				
				epP	08 45 10	LZ	21	34.0 (1)				
				epP	08 45 19	Z	1.3	72.0 (0)				
				esP	08 46 03	LZ	18	56.0 (1)				
				e	08 52 38	R	4.5	17.0 (2)				
				e	08 52 40	LT	23	31.0 (2)				
esS	08 56 15			LR	22	43.0 (2)						
esSS	09 01 18			LR	28	11.0 (2)						
e	09 04 42			LR	22	10.0 (2)						
e	09 09 38			LR	26	17.0 (2)						
eSKPP'	09 09 48			Z	1.8	36.0 (0)						
eP'	09 12 03			Z	1.5	13.0 (0)						
25	WI			eP	08 43 19.9	Z	1.1	18.0 (1)	84.0	5.61		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	FM	eP	08 43 22	LZ	18	78.0 (1)	86.0	5.16
		epP	08 45 25	Z	1.5	12.0 (1)		
		epP	08 45 25	LZ	21	37.0 (1)		
		esP	08 46 12	LZ	20	44.0 (1)		
		e	08 52 47	LR	20	43.0 (2)		
		e	08 52 51	R	4.5	13.0 (2)		
		e	08 53 56	LT	20	19.0 (2)		
		esS	08 56 30	LR	22	33.0 (2)		
		esSS	09 01 44	LR	29	12.0 (2)		
		e	09 05 05	LR	25	84.0 (1)		
		eP'P'	09 09 41	Z	1.8	25.0 (0)		
		e	09 09 51	LR	32	23.0 (2)		
		eSKPP'	09 12 02	Z	1.8	19.0 (0)		
		eP	08 43 31.0	Z	1.0	50.0 (0)		
		eP	08 43 34	LZ	19	21.0 (1)		
		epP	08 45 37	Z	1.8	16.0 (1)		
		epP	08 45 37	LZ	20	40.0 (1)		
esP	08 46 30	LZ	18	35.0 (1)				
e	08 53 08	LR	25	29.0 (2)				
e	08 54 22	LR	23	21.0 (2)				
esS	08 56 55	LT	20	48.0 (2)				
e	09 05 45	LT	25	14.0 (2)				
e	09 10 04	LT	20	20.0 (2)				
25	LC	eP	08 43 34.7	Z	1.1	20.0 (1)	87.0	5.76
		epP	08 45 40	Z	1.6	10.0 (1)		
		eS	08 53 17	LR	20	33.0 (2)		
		eS	08 53 17	LT	20	63.0 (2)		
		eS	08 53 32	R	5.5	13.0 (2)		
		eS	08 53 32	T	5.0	98.0 (1)		
		e	08 54 40	LR	22	12.0 (2)		
		esS	08 57 00	LR	19	43.0 (2)		
		eSS	08 59 24	LR	27	14.0 (2)		
		eP'P'	09 09 40	Z	1.6	24.0 (0)		
		eP	08 43 56.2	Z	1.0	12.0 (1)		
		epP	08 46 03	Z	2.0	29.0 (1)		
		eSKS	08 53 37	T	2.3	63.0 (1)		
		eSKS	08 53 37	LT	20	30.0 (2)		
		eS	08 54 13	LR	18	55.0 (2)		
		eS	08 54 13	LT	20	56.0 (2)		
		e	08 55 15	LT	16	29.0 (2)		
ePS	08 56 45	LT	18	22.0 (2)				
esS	08 57 45	LR	26	48.0 (2)				
e	09 10 10	LR	30	40.0 (2)				
25	DH	eP'	08 49 25.0	Z	1.3	20.0 (0)	113.0	
		eSKS	08 55 20	LR	23	44.0 (1)		
		eS	08 57 23	LT	19	12.0 (2)		
		e	08 59 30	LZ	23	21.0 (2)		
		esS	09 01 08	LT	20	15.0 (2)		
		eSS	09 05 30	LT	20	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	AR	eSS	09 08 48	LT	29	12.0 (2)	104.0	
		e	09 13 05	LT	26	13.0 (2)		
		eSKS	08 54 41	LR	19	56.0 (1)		
		eS	08 56 06	LR	17	10.0 (2)		
		eS	08 56 06	LT	17	19.0 (2)		
		e	08 57 43	LR	25	90.0 (1)		
		ePS	08 58 45	LR	19	14.0 (2)		
		esS	08 59 53	LT	22	12.0 (2)		
		esPS	09 01 15	LR	24	91.0 (1)		
		eSS	09 03 30	LT	19	13.0 (2)		
							AVG.	5.46
25	CP	eP	11 39 22.8	Z	0.2	5.8 (0)	0.6	
		eS	11 39 31	T	0.3	28.0 (0)		
25	15 07 48.4	34.1 N 139.0 E	S. COAST OF HONSHU, JAPAN					
			H = 014 KM					
25	WI	eP	15 19 44.2	Z	1.0	4.7 (0)	77.0	4.53
25	MV	eP	15 41 46.5	Z	1.7	20.0 (0)		
25	WI	eP	15 41 54.1	Z	1.3	12.0 (0)		
25	15 46 31.5	35.1 N 138.7 E	HONSHU, JAPAN					
			H = 113 KM					
25	WI	eP	15 58 12.3	Z	1.0	7.0 (0)	77.0	4.43
25	CP	eP	18 29 21.7	Z	0.2	16.0 (0)	0.7	
		eS	18 29 32	T	0.3	31.0 (0)		
25	19 58 47.9	36.7 N 001.6 E	NEAR COAST OF ALGERIA					
			H = 033 KM					
25	LC	eP	20 11 17.0	Z	1.0	4.9 (0)	84.0	4.60
25	WI	eP	20 11 19.8	Z	1.0	4.7 (0)	85.0	4.58
							AVG.	4.59

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
25	LC	eP	20 37 19.4	Z	0.3	5.6 (0)	2.8					
		eS	20 37 55	R	0.5	8.5 (0)						
26	00 45 28.5	11.3 S 166.4 E	SANTA CRUZ ISLANDS									
			H = 135 KM									
26	01 33 36.6	27.9 N 129.3 E	RYUKYU ISLANDS									
			H = 033 KM									
26	MV	eP	01 46 06.6	Z	0.8	3.1 (0)	84.0	4.49				
26	WI	eP	01 46 23.2	Z	0.7	1.7 (0)	88.0	4.39				
							AVG.	4.44				
26	06 48 57.1	34.0 N 139.2 E	NEAR HONSHU, JAPAN									
			H = 038 KM									
26	MV	eP	07 00 40.5	Z	1.5	54.0 (0)	76.0	5.34				
		eS	07 10 24	LT	18	53.0 (1)						
		eS	07 10 24	LR	14	41.0 (1)						
		eLQ	07 20 20	LT	30	35.0 (2)						
		eLR	07 23 55	LZ	27							
		eL	07 26 05	LZ	25							
		eL	07 26 05	LR	22	10.0 (2)						
		eL	07 26 05	LT	22	45.0 (1)						
		26	WI	eP	07 00 49.0	Z			1.0	22.0 (0)	78.0	5.13
			eP	07 00 50	LZ	15			11.0 (1)			
	eS	07 10 40	LR	20	72.0 (1)							
	eS	07 10 40	LT	18	28.0 (1)							
	e	07 14 23	LR	20	35.0 (1)							
	eSSS	07 19 03	LR	20	65.0 (1)							
	eLQ	07 21 06	LR	28	95.0 (1)							
	eLR	07 24 00	LZ	28	15.0 (2)							
	eL	07 28 25	LZ	22	12.0 (2)							
	eL	07 28 25	LR	21	69.0 (1)							
	eL	07 28 25	LT	22	10.0 (2)							
26	MN	eP	07 00 56.6	Z	1.2	23.0 (0)	79.0	5.01				
	eP	07 00 58	LZ	12	19.0 (1)							
	eS	07 10 52	LR	20	40.0 (1)							
	eS	07 10 52	LT	20	43.0 (1)							
	e	07 19 00	LR	22	67.0 (1)							
	eLQ	07 21 33	LT	30	56.0 (2)							
	eLR	07 25 25	LZ	30	29.0 (2)							
	eL	07 26 40	LZ	25	17.0 (2)							
	eL	07 26 40	LR	24	11.0 (2)							

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	TF	eL	07 26 40	LT	17	13.0 (2)	79.0	4.80
		eP	07 00 58.7	Z	1.0	12.0 (0)		
		eP	07 00 59	LZ	10	10.0 (1)		
		eS	07 10 58	LR	20	38.0 (1)		
		eS	07 10 58	LT	21	78.0 (1)		
		eL	07 21 30	LT	33	22.0 (2)		
		eLR	07 24 55	LZ	30	44.0 (2)		
		eL	07 26 30	LZ	23	35.0 (2)		
		eL	07 26 30	LR	23	25.0 (2)		
		eL	07 26 30	LT	23	23.0 (2)		
26	FM	eP	07 01 14.0	Z	1.2	49.0 (0)	82.0	5.40
		eP	07 01 15	LZ	12	18.0 (1)		
		eS	07 11 28	LT	18	12.0 (2)		
		eL	07 24 28	LR	24	15.0 (2)		
		eLR	07 28 10	LZ	28	10.0 (2)		
		eL	07 30 20	LR	20	35.0 (1)		
		eL	07 30 20	LZ	22	66.0 (1)		
		eL	07 30 20	LT	20	88.0 (1)		
		eP	07 01 19.0	Z	0.7	5.1 (0)		
		e	07 11 44	LR	20	63.0 (1)		
26	CP	eLR	07 26 32	LZ	30	33.0 (2)	83.0	4.75
		eL	07 28 00	LZ	25	22.0 (2)		
		eL	07 28 00	LT	25	15.0 (2)		
		eP	07 01 52.1	Z	1.2	8.9 (0)		
		ePP	07 05 26	Z	1.5	16.0 (0)		
26	LC	eS	07 12 50	LR	22	41.0 (1)	90.0	4.83
		eS	07 12 50	LT	25	40.0 (1)		
		eSS	07 18 27	LR	23	72.0 (1)		
		e	07 22 20	LR	28	68.0 (1)		
		eLQ	07 26 45	LT	35	28.0 (2)		
		eLR	07 30 40	LZ	32	22.0 (2)		
		eL	07 33 05	LZ	24	94.0 (1)		
		eL	07 33 05	LR	24	87.0 (1)		
		eL	07 33 05	LT	23	50.0 (1)		
		eP	07 01 53.3	Z	0.8	12.0 (0)		
26	AR	eL	07 33 10	LZ	35	14.0 (2)	90.0	5.14
		eP	07 02 35.0	Z	0.7	10.0 (0)		
		eLR	07 35 55	LZ	40	10.0 (2)		
		eL	07 47 40	LZ	21	32.0 (2)		
		eL	07 47 40	LR	20	18.0 (2)		
26	DH	eL	07 47 40	LT	20	24.0 (2)	99.0	5.62
		eLQ	07 30 15	LT	33	90.0 (2)		
		eL	07 33 15	LR	20	68.0 (1)		
		eL	07 33 15	LT	23	20.0 (3)		
		AVG.						
26	07 58 37.6	00.1 N 121.3 E	NORTHERN CELEBES					
			H = 185 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	LC	eP	08 17 16.6	Z	1.0	3.7 (0)	125.0	
26	WI	eP	08 38 26.4	Z	1.0	4.5 (0)		
26	MN	eP	08 38 33.2	Z	0.5	1.2 (0)		
26	CP	eP	08 38 55.0	Z	0.7	4.3 (0)		
26	11 02 40.5		52.2 N 172.3 E				NEAR IS.. ALEUTIAN ISLANDS	
			H = 033 KM					
26	LC	eP	11 12 46.2	Z	0.8	2.3 (0)	60.0	4.39
26	WI	eP	11 55 08.2	Z	0.6	2.8 (0)		
26	MN	eP	13 01 04.7	Z	0.4	1.6 (0)	1.9	
		eS	13 01 30	R	0.4	3.3 (0)		
26	WI	eP	13 23 18.3	Z	0.5	1.2 (0)		
26	WI	e	13 23 24	Z	0.5	3.3 (0)		
26	WI	eL	13 24 44	T	0.6	2.4 (0)		
26	MN	eP	16 25 37.7	Z	0.3	3.8 (0)	2.0	
		eS	16 26 04	R	0.5	7.8 (0)		
26	16 30 47.0		36.5 N 001.6 E				NEAR COAST OF ALGERIA	
			H = 015 KM					
26	LC	eP	16 43 19.6	Z	1.0	7.4 (0)	84.0	4.83
26	WI	eP	16 43 21.8	Z	0.7	4.0 (0)	85.0	4.71
26	MV	eP	16 43 37.7	Z	0.8	3.1 (0)	88.0	4.64
							AVG.	4.73
26	LC	eP	20 49 36.0	Z	0.3	5.6 (0)	1.5	
		eS	20 49 55	T	0.5	8.0 (0)		
26	MN	eP	22 01 36.7	Z	0.3	3.8 (0)	1.5	
		eS	22 01 56	R	0.5	4.2 (0)		
26	MN	eP	22 16 30.2	Z	0.3	10.0 (0)	0.8	
		eS	22 16 41	T	0.4	38.0 (0)		
26	WI	eP	22 16 57.6	Z	0.4	5.9 (0)	2.4	
		eS	22 17 28	R	0.4	26.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	22 35	13.9	34.3 N H =054 KM	139.3 E	NEAR HONSHU, JAPAN			
26	MV	eP	22 46 54.6	Z	1.0	6.5 (0)	76.0	4.55
26	WI	eP	22 47 02.6	Z	1.0	6.7 (0)	77.0	4.61
26	MN	eP	22 47 08.5	Z	0.7	1.3 (0)	78.0	4.01
26	CP	eP	22 47 32.6	Z	0.8	3.6 (0)	83.0	4.54
26	AR	eP	22 48 06.9	Z	0.8	5.2 (0)	90.0	4.76
							AVG.	4.49
26	23 30	38.0	03.7 S H =050 KM	140.1 E	NEW GUINEA			
26	MV	eP	23 44 15.1	Z	0.7	2.5 (0)	100.0	4.95
26	MN	eP	23 44 27.8	Z	0.7	1.7 (0)	103.0	4.94
27	MN	eL	00 16 06	LZ	28	51.0 (1)	103.0	
		eL	00 18 50	LZ	22	32.0 (1)		
		eL	00 18 50	LR	23	22.0 (1)		
		eL	00 18 50	LT	22	24.0 (1)		
26	WI	eP	23 44 28.6	Z	1.0	7.8 (0)	103.0	5.44
27	WI	eL	00 17 30	LZ	25	32.0 (2)	103.0	
		eL	00 17 30	LR	25	97.0 (1)		
		eL	00 17 30	LT	25	19.0 (1)		
27	TF	eL	00 16 15	LZ	24	50.0 (2)	101.0	
		eL	00 16 15	LR	24	35.0 (2)		
27	CP	eL	00 17 40	LZ	25	15.0 (2)	104.0	
		eL	00 17 40	LR	25	53.0 (1)		
		eL	00 17 40	LT	25	98.0 (1)		
27	FM	eL	00 18 50	LZ	25	56.0 (1)	107.0	
27	LC	eL	00 22 00	LZ	32	75.0 (1)	112.0	
		eL	00 24 15	LZ	25	13.0 (2)		
		eL	00 24 15	LR	25	11.0 (2)		
		eL	00 24 15	LT	25	46.0 (1)		
27	SJ	eL	00 22 40	LT	24	94.0 (1)	120.0	
27	AR	eL	00 26 55	LZ	30	11.0 (2)	120.0	
		eL	00 31 20	LZ	23	24.0 (2)		
		eL	00 31 20	LR	23	10.0 (2)		
							AVG.	5.11
27	LC	eP	00 00 15.2	Z	0.8	27.0 (0)		
27	MN	eP	00 00 59.4	Z	0.8	4.1 (0)		
27	CP	eP	00 18 31.3	Z	0.3	2.8 (0)	1.5	
		eS	00 18 51	R	0.4	14.0 (0)		
27	DH	eL	00 39 25	LZ	22	22.0 (2)		
27	DH	eL	00 39 25	LR	22	12.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	DH	eL	00 39 25	LT	22	82.0 (1)		
27	MN	eP	01 26 25.0	Z	0.4	15.0 (0)	2.4	
27	MV	eP	01 26 51.5	Z	0.5	1.8 (0)	3.0	
27	WI	eP	01 26 51.9	Z	0.4	9.9 (0)	2.3	
27	MN	eS	01 26 55	R	999.9	99.9 (9)	2.4	
27	WI	eS	01 27 21	R	0.4	31.0 (0)	2.3	
27	MV	eS	01 27 29	T	0.5	28.0 (0)	3.0	
27	02 18	58.8	40.2 N H =274 KM	137.8 E	SEA OF JAPAN			
27	MV	eP	02 30 00.0	Z	1.0	46.0 (0)	73.0	5.16
27	WI	eP	02 30 06.0	Z	0.7	14.0 (0)	74.0	4.80
27	MN	eP	02 30 14.5	Z	1.0	41.0 (0)	75.0	5.11
27	TF	eP	02 30 19.5	Z	0.8	44.0 (0)	76.0	5.24
27	FM	eP	02 30 31.2	Z	0.6	21.0 (0)	78.0	5.04
27	CP	eP	02 30 40.5	Z	0.9	30.0 (0)	80.0	5.21
		epP	02 31 46	Z	1.0	7.2 (0)		
27	AR	eP	02 31 04.7	Z	0.8	17.0 (0)	84.0	4.90
27	LC	eP	02 31 11.7	Z	0.6	9.9 (0)	86.0	4.82
		epP	02 32 13	Z	1.1	11.0 (0)		
27	DH	eP	02 31 40.9	Z	0.8	18.0 (0)	93.0	5.48
		epP	02 32 43	Z	0.8	18.0 (0)		
							AVG.	5.08
27	MN	eP	04 25 31.0	Z	999.9	99.9 (9)	0.8	
		eS	04 25 42	T	0.5	22.0 (0)		
27	05 59	10.4	05.7 S H =370 KM	154.9 E	SOLOMON ISLANDS			
27	09 00	50.9	74.7 N	050.3 E	NOVALYA, ZEMYLA			
27	AR	eL	09 28 25	LZ	45	11.0 (2)	56.0	
		eL	09 34 30	LZ	25	79.0 (1)		
		eL	09 34 30	LR	22	83.0 (1)		
27	DH	eL	09 29 33	LZ	38	53.0 (1)	58.0	
		eL	09 38 00	LZ	20	16.0 (2)		
		eL	09 38 00	LR	20	38.0 (1)		
		eL	09 38 00	LT	20	11.0 (2)		
27	WI	eLR	09 32 45	LZ	35	15.0 (2)	64.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	09 38 00	LZ	25	97.0 (1)		
		eL	09 38 00	LR	25	80.0 (1)		
		eL	09 38 00	LT	22	31.0 (1)		
27	MV	eL	09 33 10	LZ	30	12.0 (2)	67.0	
27	TF	eL	09 35 17	LZ	40	67.0 (1)	70.0	
		eL	09 40 00	LZ	25	52.0 (1)		
		eL	09 40 00	LR	25	55.0 (1)		
27	CP	eL	09 36 00	LZ	54	47.0 (1)	72.0	
		eL	09 46 40	LZ	20	73.0 (1)		
		eL	09 46 40	LR	21	53.0 (1)		
		eL	09 46 40	LT	21	39.0 (1)		
27	LC	eL	09 36 30	LT	45	89.0 (1)	72.0	
		eL	09 46 31	LZ	19	14.0 (2)		
		eL	09 46 31	LR	12	29.0 (1)		
		eL	09 46 31	LT	20	11.0 (2)		
27	SJ	eL	09 42 05	LR	25	89.0 (1)	76.0	
		eL	09 42 05	LT	25	13.0 (2)		
27	09 49 56.5		44.3 N 150.8 E				KURILE ISLANDS	
			H =060 KM					
27	DH	eP	10 02 22.3	Z	0.8	18.0 (0)	84.0	5.17
27	MN	eP	10 10 18.8	Z	1.2	6.8 (0)		
27	CP	eP	14 26 52.0	Z	0.3	14.0 (0)	0.6	
		eS	14 27 01	R	0.4	24.0 (0)		
27	15 17 56.9		27.1 N 127.4 E				RYUKYU ISLANDS	
			H =033 KM					
27	MV	eP	15 30 46.0	Z	1.0	4.9 (0)	88.0	4.69
27	WI	eP	15 30 52.0	Z	1.0	3.5 (0)	90.0	4.51
							AVG.	4.60
27	16 20 04.7		38.3 N 142.4 E				EAST OF HONSHU, JAPAN	
			H =040 KM					
27	MV	eP	16 31 20.0	Z	1.0	4.9 (0)	71.0	4.47
		e	16 31 31	Z	1.0	15.0 (0)		
27	MN	eP	16 31 35.5	Z	1.0	4.9 (0)	74.0	4.41

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	16 51 06	LT	25	75.0 (1)		
		eL	16 55 26	LZ	28	22.0 (1)		
		eL	16 56 21	LZ	24	46.0 (1)		
		eL	16 56 21	LR	24	56.0 (1)		
		eL	16 56 21	LT	23	30.0 (1)		
27	WI	eP	16 31 37.3	Z	1.0	15.0 (0)	74.0	4.90
27	TF	eP	16 31 40.0	Z	1.0	8.2 (0)	75.0	4.63
		e	16 31 50	Z	1.0	25.0 (0)		
		eL	16 54 00	LZ	28	69.0 (1)		
		eL	16 55 52	LZ	22	89.0 (1)		
		eL	16 55 52	LR	22	66.0 (1)		
27	FM	eP	16 31 54.5	Z	0.7	10.0 (0)	78.0	4.93
		e	16 32 05	Z	1.0	40.0 (0)		
27	CP	eP	16 32 01.5	Z	1.0	29.0 (0)	79.0	5.17
		e	16 32 10	Z	1.0	17.0 (0)		
		eL	16 55 45	LZ	28	54.0 (1)		
		eL	16 58 50	LZ	22	73.0 (1)		
		eL	16 58 50	LR	22	79.0 (1)		
		eL	16 58 50	LT	22	59.0 (1)		
27	AR	eP	16 32 35.7	Z	0.8	13.0 (0)	85.0	5.09
		e	16 32 46	Z	0.8	18.0 (0)		
27	LC	eP	16 32 36.2	Z	1.0	7.4 (0)	85.0	4.75
		e	16 32 45	Z	1.0	22.0 (0)		
27	DH	eP	16 33 14.7	Z	1.0	20.0 (0)	93.0	5.46
							AVG.	4.87
27	LC	eP	17 50 20.3	Z	0.3	1.6 (0)	2.9	
		e	17 50 25	Z	0.4	2.9 (0)		
		eS	17 50 57	T	0.6	8.2 (0)		
27	DH	eP	18 04 34.8	Z	1.0	29.0 (0)		
27	19 12 48.9		36.6 N 070.2 E				HINDU KUSH	
			H =210 KM					
27	WI	eP	19 24 24.5	Z	1.3	4.8 (0)		
27	CP	eP	20 00 58.6	Z	0.3	15.0 (0)	0.6	
		eS	20 01 08	R	0.3	27.0 (0)		
27	LC	eP	21 20 37.2	Z	0.8	1.5 (0)		
27	LC	eP	21 27 55.5	Z	0.3	9.6 (0)	1.5	
		eS	21 28 16	R	0.4	11.0 (0)		
27	22 13 29.6		12.3 S 167.1 E				SANTA CRUZ ISLANDS	
			H =220 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	MV	eP	22 25 36.3	Z	0.8	12.0 (0)	83.0	4.66
		epP	22 26 30	Z	1.0	6.5 (0)		
27	CP	eP	22 25 44.6	Z	0.6	2.4 (0)	85.0	4.12
27	WI	eP	22 25 53.8	Z	1.0	8.1 (0)	87.0	4.53
							AVG.	4.44
27	23 28 45.2		06.0 S 149.5 E				NEW BRITAIN REGION	
			H =048 KM					
27	23 30 10.4		21.6 S 171.5 E				LOYALTY ISLANDS REGION	
			H =069 KM					
27	MV	eP	23 42 50.5	Z	1.0	16.0 (0)	87.0	5.07
27	MN	eP	23 42 59.0	Z	0.8	15.0 (0)	89.0	5.20
28	MN	eL	00 10 20	LZ	30	26.0 (1)	89.0	
		eL	00 17 50	LZ	20	16.0 (1)		
		eL	00 17 50	LR	21	28.0 (1)		
		eL	00 17 50	LT	20	18.0 (1)		
27	WI	eP	23 43 08.1	Z	1.0	18.0 (0)	91.0	5.29
28	CP	eLR	00 13 20	LZ	25	66.0 (1)	88.0	
							AVG.	5.19
27	MN	eP	23 58 43.5	Z	1.2	5.4 (0)		
28	00 13 25.6		35.0 N 140.2 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
28	00 18 22.8		34.2 N 139.7 E				NEAR HONSHU, JAPAN	
			H =039 KM					
28	MV	eP	00 27 45.1	Z	0.4	6.5 (0)	1.7	
		eS	00 28 08	T	0.5	73.0 (0)		
28	00 29 26.4		34.2 N 139.7 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
28	MV	eP	00 41 13.2	Z	1.4	8.3 (0)	76.0	4.57
28	WI	eP	00 41 20.5	Z	1.3	9.5 (0)	78.0	4.66
28	MN	eP	00 41 23.0	Z	1.5	16.0 (0)	78.0	5.08

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	CP	eP	00 41 50.5	Z	1.3	12.0 (0)	83.0	4.87
							AVG.	4.80
28	00 40 04.9		15.7 S 173.1 W				SAMOA ISLANDS REGION	
			H =033 KM					
28	MV	eP	00 51 33.7	Z	1.0	3.3 (0)	73.0	4.32
28	MN	eP	00 51 42.3	Z	1.5	16.0 (0)	75.0	4.92
		eL	01 13 43	LZ	25	11.0 (1)		
		eL	01 17 25	LZ	20	13.0 (1)		
		eL	01 17 25	LR	20	29.0 (1)		
		eL	01 17 25	LT	22	24.0 (1)		
28	WI	eP	00 51 55.2	Z	1.3	9.5 (0)	77.0	4.66
28	LC	eP	00 52 11.0	Z	1.1	9.6 (0)	80.0	4.61
							AVG.	4.63
28	02 49 39.9		34.3 N 139.6 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
28	WI	eP	03 01 30.6	Z	1.0	2.3 (0)	77.0	4.16
28	08 13 12.4		34.2 N 139.3 E				E. COAST OF HONSHU, JAPAN	
			H =038 KM					
28	MV	eP	08 24 58.8	Z	1.3	17.0 (0)	76.0	4.92
28	WI	eP	08 25 03.5	Z	1.3	24.0 (0)	77.0	5.05
28	MN	eP	08 25 10.0	Z	1.1	7.5 (0)	78.0	4.62
		eLQ	08 46 11	LT	28	13.0 (2)		
		eLR	08 49 40	LZ	34	64.0 (1)		
28	FM	eP	08 25 18.5	Z	1.5	33.0 (0)	80.0	5.00
28	AR	eP	08 26 12.5	Z	0.9	13.0 (0)	91.0	5.65
							AVG.	5.05
28	08 20 31.5		18.6 N 105.8 W				OFF COAST OF MEXICO	
			H =033 KM					
28	SJ	eP	08 23 16.3	Z	1.1	13.0 (1)	11.0	6.07
		eP	08 23 17	LZ	12	30.0 (2)		
		eL	08 26 28	R	2.5	66.0 (1)		
		eL	08 26 31	LZ	999.9	99.9 (9)		
28	LC	eP	08 23 50.0	Z	1.0	17.0 (0)	14.0	4.60

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 26 28	LR	26	13.0 (2)		
		eS	08 26 28	LT	29	11.0 (2)		
		eLQ	08 27 05	LR	23	87.0 (2)		
		eL	08 28 00	LR	23	10.0 (2)		
		eL	08 28 00	LT	23	34.0 (2)		
		eLR	08 28 10	LZ	17	76.0 (2)		
28	CP	eL	08 28 20	R	7.0	32.0 (2)		
		eP	08 24 29.4	Z	1.8	46.0 (1)	17.0	5.34
		eP	08 24 30	LZ	19	72.0 (1)		
		eS	08 27 55	LT	19	19.0 (2)		
		eLR	08 28 40	LZ	26	99.9 (9)		
		eL	08 29 30	LZ	999.9	99.9 (9)		
		eL	08 29 30	LR	28	28.0 (2)		
		eL	08 29 30	LT	23	20.0 (2)		
28	TF	eP	08 25 09.8	Z	1.3	87.0 (0)	21.0	4.92
		eP	08 25 11	LZ	15	50.0 (1)		
		e	08 29 17	LR	21	12.0 (2)		
		eLR	08 30 46	LZ	19	55.0 (2)		
28	FM	eP	08 25 25.8	Z	1.2	98.0 (0)	22.0	5.08
		eS	08 29 30	LR	23	25.0 (2)		
		eS	08 29 30	LT	20	14.0 (2)		
		eL	08 31 19	LZ	24	20.0 (2)		
		eL	08 31 30	LZ	23	38.0 (1)		
		eL	08 31 30	LR	24	16.0 (2)		
		eL	08 31 30	LT	24	73.0 (1)		
28	MN	eP	08 25 28.5	Z	2.0	25.0 (1)	22.0	5.26
		eP	08 25 31	LZ	17	14.0 (1)		
		eS	08 29 50	LR	17	55.0 (1)		
		eS	08 29 50	LT	21	15.0 (2)		
		eLR	08 31 23	LZ	30	11.0 (2)		
		eL	08 33 20	LZ	22	14.0 (2)		
		eL	08 33 20	LR	21	12.0 (2)		
		eL	08 33 20	LT	23	17.0 (2)		
28	MV	eP	08 25 45.2	Z	1.2	11.0 (0)	24.0	4.23
		eLQ	08 31 17	LR	35	16.0 (2)		
		eLR	08 32 53	LZ	28	25.0 (2)		
		eL	08 35 18	LZ	16	19.0 (2)		
		eL	08 35 18	LR	17	13.0 (2)		
		eL	08 35 18	LT	17	13.0 (2)		
28	WI	eP	08 25 51.6	Z	1.0	34.0 (0)	25.0	4.93
		eP	08 25 52	LZ	14	24.0 (1)		
		eS	08 30 41	LR	15	62.0 (1)		
		eS	08 30 41	LT	21	11.0 (2)		
		eL	08 31 50	LT	33	14.0 (2)		
		eL	08 35 30	LZ	17	12.0 (2)		
		eL	08 35 30	LR	17	13.0 (2)		
		eL	08 35 30	LT	15	47.0 (2)		
28	AR	eP	08 26 44.0	Z	1.1	11.0 (1)	31.0	5.63
		e	08 27 39	Z	1.3	68.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 31 58	LR	25	56.0 (1)		
		eLR	08 35 00	LZ	27	13.0 (2)		
28	DH	eP	08 27 24.0	Z	1.0	30.0 (0)	35.0	5.18
		eS	08 33 10	LR	30	59.0 (1)		
		eS	08 33 10	LT	30	31.0 (1)		
		eLQ	08 37 36	LR	46	90.0 (1)		
		eL	08 40 30	LZ	26	56.0 (1)		
		eL	08 40 30	LR	20	16.0 (2)		
		eL	08 40 30	LT	20	25.0 (2)		
		eLR	08 46 25	LZ	22	16.0 (2)		
							AVG.	5.12
28	10 59 58.5		38.0 N 023.1 E	GREECE				
			H =120 KM	MAG	6.75-	PAS		
28	DH	eP	11 11 04.6	Z	1.0	40.0 (1)	71.0	6.18
		eP	11 11 05	LZ	20	28.0 (2)		
		eS	11 20 10	LR	21	80.0 (2)		
		eS	11 20 10	LT	20	60.0 (2)		
		eS	11 20 13	R	3.0	90.0 (1)		
		eS	11 20 13	T	2.6	58.0 (1)		
		e	11 20 48	LR	26	92.0 (2)		
		eSS	11 24 33	LT	19	42.0 (2)		
		eSSS	11 28 10	LT	19	26.0 (2)		
		e	11 28 48	LR	22	12.0 (3)		
		eL	11 31 55	LZ	25	10.0 (3)		
		eL	11 34 40	LZ	25	10.0 (3)		
		eL	11 34 40	LR	24	10.0 (3)		
		eL	11 34 40	LT	25	25.0 (2)		
28	AR	eP ¹	11 38 55	Z	1.5	66.0 (0)		
		eP	11 11 36.3	Z	1.0	99.9 (9)	76.0	
		eP	11 11 37	LZ	18	23.0 (2)		
		eS	11 21 13	R	3.5	32.0 (2)		
		eS	11 21 13	T	3.0	12.0 (2)		
		eS	11 21 14	LR	20	10.0 (3)		
		eSS	11 25 50	LR	23	11.0 (3)		
		eSSS	11 29 35	LR	23	10.0 (3)		
		eLR	11 35 45	LZ	35	12.0 (3)		
28	FM	eP	11 12 59.5	Z	1.1	16.0 (1)	93.0	6.22
		eP	11 13 02	LZ	22	88.0 (1)		
		eSKS	11 23 23.4	T	2.5	54.0 (1)		
		eSKS	11 23 26	LR	21	26.0 (2)		
		e	11 25 10	Z	4.0	23.0 (2)		
		e	11 25 10	LZ	22	56.0 (2)		
		eSS	11 30 05	LT	18	65.0 (2)		
		ePKKP	11 30 09	Z	1.2	16.0 (0)		
		eSSS	11 33 50	LR	20	29.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	WI	eLQ	11 37 35	LT	25	50.0 (2)	93.0	6.46
		eLR	11 43 32	LZ	35	11.0 (2)		
		iP	11 13 02.1C	Z	1.2	35.0 (1)		
		iP	11 13 03 C	LZ	22	11.0 (2)		
		ePP	11 17 15	Z	1.9	27.0 (0)		
		eSKS	11 23 20	R	3.0	19.0 (2)		
		eSKS	11 23 22	LR	20	27.0 (2)		
		e	11 24 01	R	2.5	56.0 (1)		
		e	11 25 12	R	4.5	22.0 (2)		
		e	11 25 18	LZ	22	71.0 (2)		
		e	11 26 02	R	4.0	13.0 (2)		
		eSS	11 30 00	LR	24	39.0 (2)		
		ePKKP	11 30 08	Z	1.0	11.0 (0)		
		eSSS	11 34 00	LR	999.9	99.9 (9)		
		eP'P'	11 38 16	Z	2.5	12.0 (0)		
28	SJ	eLR	11 44 13	LZ	37	12.0 (3)	95.0	6.58
		eP	11 13 10.3	Z	1.0	14.0 (1)		
		eP	11 13 11	LZ	14	33.0 (2)		
		eSKS	11 23 35	T	3.2	18.0 (2)		
		eSKS	11 23 35	LT	18	68.0 (2)		
		eS	11 24 15	LT	18	92.0 (2)		
		e	11 25 34	LZ	22	92.0 (2)		
		e	11 26 42	LT	25	58.0 (2)		
		eSS	11 30 33	LT	19	63.0 (2)		
		e	11 36 30	LT	22	75.0 (2)		
		eLR	11 44 10	LZ	40	11.0 (3)		
		iP	11 13 13.3C	Z	1.0	12.0 (1)		
		eP	11 13 17	LZ	20	96.0 (1)		
		ePP	11 17 05	LZ	18	10.0 (2)		
		eSKS	11 23 38	T	3.0	46.0 (1)		
eSKS	11 23 41	LT	18	36.0 (2)				
e	11 24 04	T	3.3	49.0 (1)				
eS	11 24 22	R	2.4	18.0 (1)				
eS	11 24 22	T	3.1	46.0 (1)				
e	11 25 05	LR	24	34.0 (2)				
e	11 25 47	LZ	21	84.0 (2)				
e	11 25 48	T	4.0	11.0 (2)				
e	11 26 46	LT	27	46.0 (2)				
ePKKP	11 30 02	Z	1.2	10.0 (0)				
eSS	11 30 25	LT	21	42.0 (2)				
eSSS	11 34 15	LT	20	10.0 (3)				
eL	11 37 45	LR	23	10.0 (3)				
eP'P'	11 38 02	Z	2.5	98.0 (0)				
eL	11 39 15	LZ	24	40.0 (2)				
eL	11 39 15	LR	23	11.0 (3)				
eL	11 39 15	LT	20	27.0 (2)				
28	MN	eP	11 13 14.0	Z	1.3	13.0 (1)	96.0	6.26
		eP	11 13 14	LZ	21	51.0 (1)		
		ePP	11 17 10	Z	1.3	55.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MV	ePP	11 17 10	LZ	25	46.0 (1)	96.0	5.95
		eSKS	11 23 35	LT	17	40.0 (2)		
		eSKS	11 23 41	T	2.5	27.0 (1)		
		eS	11 24 17	LR	25	65.0 (1)		
		eS	11 24 17	LT	18	27.0 (2)		
		e	11 25 12	LR	25	25.0 (2)		
		e	11 25 43	Z	2.6	26.0 (1)		
		e	11 26 47	LT	999.9	99.9 (9)		
		e	11 28 20	Z	1.4	8.5 (0)		
		ePKKP	11 30 01	Z	1.0	15.0 (0)		
		eP'P'	11 38 04	Z	3.8	58.0 (1)		
		eP	11 13 15.6	Z	1.0	49.0 (0)		
		eP	11 13 16	LZ	18	75.0 (1)		
		ePP	11 17 13	Z	2.0	93.0 (0)		
		eSKS	11 23 41	T	2.8	33.0 (1)		
eSKS	11 23 43	LT	20	24.0 (2)				
e	11 24 28	T	4.0	78.0 (1)				
e	11 25 47	Z	3.5	53.0 (1)				
e	11 25 52	LZ	25	43.0 (2)				
ePKKP	11 29 57	Z	1.1	13.0 (1)				
eSS	11 30 36	LT	22	28.0 (2)				
eSSS	11 34 53	LT	24	60.0 (3)				
eP'P'	11 38 12	Z	1.3	20.0 (0)				
eLQ	11 38 50	LR	37	58.0 (2)				
eLR	11 45 38	LZ	24	68.0 (2)				
28	TF	eP	11 13 30.9	Z	1.1	98.0 (0)	100.0	6.31
		eP	11 13 34	LZ	16	12.0 (2)		
		ePP	11 17 30	Z	1.2	28.0 (0)		
		eSKS	11 24 00	T	2.7	42.0 (1)		
		eSKS	11 24 03	LR	20	22.0 (2)		
		e	11 24 31	T	3.0	38.0 (1)		
		e	11 26 23	LZ	24	59.0 (2)		
		e	11 27 24	LZ	20	76.0 (2)		
		ePKKP	11 29 48	Z	1.0	13.0 (0)		
		eSS	11 31 50	LR	25	64.0 (2)		
		eSSS	11 35 48	LR	24	37.0 (2)		
		eP'P'	11 38 03	Z	1.5	28.0 (0)		
		e	11 39 10	LZ	30	56.0 (2)		
		eLR	11 47 45	LZ	40	23.0 (3)		
		28	CP	eP	11 13 33.5	Z		
eP	11 13 36			LZ	21	84.0 (1)		
ePP	11 17 42			Z	1.2	28.0 (0)		
eSKS	11 24 04			R	2.8	48.0 (1)		
eSKS	11 24 05			LR	20	17.0 (2)		
eS	11 24 50			LR	17	11.0 (2)		
eS	11 24 50			LT	21	14.0 (2)		
e	11 26 28			Z	4.5	91.0 (1)		
e	11 26 28			LZ	23	68.0 (2)		
e	11 28 49			Z	0.8	0.9 (0)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
	ePKKP		11 29 47	Z	1.0	8.6 (0)		
	e		11 30 15	Z	1.3	30.0 (0)		
	eSS		11 31 42	LR	24	36.0 (2)		
	eP'P'		11 38 03	Z	2.5	76.0 (0)		
	eLQ		11 39 27	LT	20	26.0 (2)		
	eLR		11 47 25	LZ	22	12.0 (3)		
							AVG.	6.29
28	WI	eP	12 54 23.4	Z	0.7	2.3 (0)		
28	MN	eL	13 04 50	LT	44	23.0 (2)		
28	DH	eL	16 04 30	LZ	34	37.0 (1)		
28	DH	eL	16 05 40	LZ	25	26.0 (1)		
28	DH	eL	16 05 40	LR	27	37.0 (1)		
28	DH	eL	16 05 40	LT	25	88.0 (0)		
28	LC	eP	17 00 02.0	Z	1.0	4.9 (0)		
28	CP	e	17 00 39	LZ	10	90.0 (1)		
28	CP	eP	17 00 40.5	Z	1.4	15.0 (0)		
28	MN	eP	17 01 42.5	Z	1.8	27.0 (0)		
28	WI	eP	17 02 02.7	Z	0.8	4.3 (0)		
28	SJ	eL	17 03 10	LZ	15	11.0 (3)		
28	LC	eL	17 03 40	LR	23	17.0 (2)		
28	LC	eL	17 04 05	LR	23	17.0 (2)		
28	LC	eL	17 04 05	LT	24	74.0 (1)		
28	CP	e	17 04 08	LZ	17	36.0 (1)		
28	CP	eL	17 05 10	LZ	25	16.0 (2)		
28	FM	e	17 05 43	LR	23	48.0 (1)		
28	TF	eL	17 07 08	LZ	20	15.0 (2)		
28	MN	eL	17 07 35	LZ	30	36.0 (1)		
28	FM	eL	17 07 46	LZ	30	63.0 (1)		
28	FM	eL	17 09 20	LZ	19	10.0 (1)		
28	FM	eL	17 09 20	LR	20	19.0 (1)		
28	FM	eL	17 09 20	LT	19	66.0 (1)		
28	MN	eL	17 09 40	LZ	20	44.0 (1)		
28	MN	eL	17 09 40	LR	21	37.0 (1)		
28	MN	eL	17 09 40	LT	20	49.0 (1)		
28	DH	eL	17 14 35	LZ	40	55.0 (1)		
28	DH	eL	17 16 42	LZ	21	98.0 (0)		
28	DH	eL	17 16 42	LR	19	44.0 (1)		
28	DH	eL	17 16 42	LT	20	62.0 (1)		
28	WI	eP	19 22 42.0	Z	1.0	3.4 (0)		
28	LC	eP	19 25 01.0	Z	0.8	2.3 (0)		
28	WI	eL	19 25 45	R	1.0	37.0 (0)		
28	LC	eP	20 59 58.0	Z	0.5	1.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	LC	eL	21 01 20	R	0.7	11.0 (0)		
28	22 46 00.8		02.2 S 067.8 E				N. W. OF CHAGOS IS. REGION	
			H = 033 KM					
28	WI	eP'	23 05 21.4	Z	2.4	27.0 (0)	141.0	
		eSKP	23 08 35	Z	2.4	67.0 (0)		
28	MV	eP'1	23 05 31.0	Z	1.2	5.3 (0)	143.0	
		eSKP	23 08 42	Z	3.0	78.0 (0)		
28	MN	eP'1	23 05 33.5	Z	1.3	8.6 (0)	144.0	
28	TF	eP'1	23 05 42.8	Z	1.4	86.0 (0)	147.0	
28	LC	eP'1	23 05 46.0	Z	2.0	70.0 (0)	150.0	
28	CP	eP'1	23 05 48.3	Z	2.0	82.0 (0)	149.0	
28	SJ	eP'1	23 05 56.4	Z	1.0	40.0 (0)	153.0	
29	02 13 08.6		34.9 N 140.0 E				E. COAST OF HONSHU, JAPAN	
			H = 033 KM					
29	CP	eL	03 58 42	LZ	26	12.0 (1)		
29	CP	eP	05 59 36.5	Z	0.2	19.0 (0)	0.7	
		eS	05 59 46	T	0.2	52.0 (0)		
29	MN	eP	06 05 24.3	Z	0.3	2.2 (0)	0.1	
		eS	06 05 27	R	0.3	7.7 (0)		
29	SJ	eP	07 01 55.4	Z	1.0	20.0 (0)		
29	MN	eP	07 04 51.4	Z	1.0	2.5 (0)		
29	07 38 18.8		24.2 S 067.1 W				SALTA PROVINCE, ARGENTINA	
			H = 187 KM					
29	LC	eP	07 48 58.2	Z	1.0	6.2 (0)	68.0	4.31
29	CP	eP	07 49 34.0	Z	0.6	4.2 (0)	74.0	4.36
29	FM	eP	07 49 47.6	Z	0.5	7.4 (0)	76.0	4.68
29	MN	eP	07 50 02.1	Z	1.0	4.1 (0)	79.0	4.13
29	WI	eP	07 50 10.7	Z	0.8	12.0 (0)	80.0	4.69
							AVG.	4.43
29	WI	eP	08 10 51.9	Z	1.0	4.6 (0)		
29	LC	eP	08 41 59.3	Z	0.8	3.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	CP	eP	08 42 49.5	Z	0.9	3.5 (0)		
29	MN	eP	08 43 44.7	Z	1.0	8.2 (0)		
29	WI	eP	08 44 05.4	Z	0.7	1.7 (0)		
29	08 50 32.0		18.0 N 103.3 W				NEAR COAST OF MEXICO	
			H =033 KM					
29	LC	eP	08 53 59.5	Z	1.3	10.0 (0)	17.0	3.82
		eL	08 58 00	LR	25	23.0 (2)		
		eL	08 58 52	LR	19	48.0 (2)		
		eL	08 58 52	LZ	20	42.0 (1)		
		eL	08 58 52	LT	17	27.0 (2)		
29	CP	eP	08 54 48.6	Z	1.5	57.0 (0)	19.0	4.61
		eL	08 59 30	LZ	30	74.0 (1)		
		eL	09 00 42	LT	20	40.0 (1)		
		eL	09 00 42	LR	17	36.0 (1)		
		eL	09 00 42	LZ	19	62.0 (1)		
29	TF	eP	08 55 30.0	Z	0.8	7.8 (0)	23.0	4.22
		eS	08 59 44	LT	16	63.0 (1)		
		eL	09 01 20	LZ	29	36.0 (1)		
		eL	09 02 16	LT	25	82.0 (1)		
		eL	09 02 16	LZ	23	11.0 (2)		
		eL	09 02 16	LR	20	22.0 (1)		
29	FM	eP	08 55 30.5	Z	1.0	10.0 (0)	23.0	4.23
29	MN	eP	08 55 46.1	Z	1.4	59.0 (0)	24.0	4.89
		eS	09 00 17	LT	15	69.0 (1)		
		eS	09 00 17	LR	16	46.0 (1)		
		eLQ	09 01 23	LT	29	28.0 (1)		
		eLR	09 04 17	LZ	20	27.0 (1)		
		eL	09 04 25	LZ	20	40.0 (1)		
		eL	09 04 25	LR	19	31.0 (1)		
		eL	09 04 25	LT	24	17.0 (1)		
29	WI	eP	08 56 06.2	Z	1.5	30.0 (0)	27.0	4.75
29	MV	eP	08 56 06.5	Z	1.3	6.8 (0)	26.0	4.09
29	SJ	eL	08 56 59	Z	2.5	26.0 (1)	10.0	
		eL	08 56 60	LZ	20	11.0 (2)		
		eL	08 57 50	LZ	18	26.0 (2)		
		eL	08 57 50	LR	20	53.0 (2)		
		eL	08 57 55	Z	2.5	66.0 (1)		
		eL	08 57 55	T	2.5	78.0 (1)		
		eL	08 57 55	R	2.4	49.0 (1)		
29	AR	eL	09 06 15	LR	24	38.0 (1)	30.0	
		eL	09 07 32	LR	24	43.0 (1)		
		eL	09 07 32	LZ	26	36.0 (1)		
29	DH	eL	09 08 25	LZ	37	61.0 (1)	34.0	
		eL	09 09 35	LZ	32	93.0 (1)		
		eL	09 09 35	LR	24	46.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	09 09 35	LT	17	60.0 (1)		
							AVG.	4.37
29	09 12 00.4		01.9 S 067.9 E				N. W. OF CHAGOS IS. REGION	
			H =033 KM					
29	MN	eP	09 31 32.6	Z	1.6	19.0 (0)	142.0	
29	TF	eP	09 31 41.2	Z	2.0	23.0 (1)	146.0	
29	CP	eP	09 31 45.3	Z	1.5	38.0 (0)	149.0	
29	LC	eP	09 31 47.0	Z	2.0	26.0 (0)	149.0	
29	AR	ePKS	09 34 37	R	2.0	88.0 (0)	132.0	
29	SJ	eP	09 31 55.4	Z	1.0	50.0 (0)		
29	MN	eP	09 34 53.6	Z	0.4	4.4 (0)	1.2	
		eS	09 35 09	R	0.4	10.0 (0)		
29	10 14 12.5		07.3 N 080.5 W				NEAR S. COAST OF PANAMA	
			H =033 KM					
29	CP	eP	10 22 03.0	Z	0.9	2.3 (0)	42.0	3.94
		eL	10 29 35	LZ	35	27.0 (1)		
29	MN	eP	10 22 37.3	Z	0.9	7.4 (0)	46.0	4.65
							AVG.	4.30
29	11 30 39.3		30.9 N 078.4 E				NORTHERN INDIA	
			H =036 KM					
29	12 23 20.8		08.0 S 073.6 W				PERU-BRAZIL BORDER	
			H =165 KM					
29	SJ	eP	12 31 06.2	Z	0.6	25.0 (0)	43.0	4.99
		e	12 31 58	Z	1.0	20.0 (0)		
29	LC	eP	12 32 08.3	Z	1.0	6.2 (0)	51.0	4.56
29	FM	eP	12 33 06.5	Z	0.7	5.1 (0)	59.0	4.47
29	MN	eP	12 33 26.6	Z	0.7	1.7 (0)	62.0	4.26
29	WI	eP	12 33 35.5	Z	1.0	8.0 (0)	64.0	4.50
							AVG.	4.56
29	15 14 27.5		34.5 N 139.8 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	TF	eL	15 50 40	LZ	30	19.0 (1)	79.0	
		eL	15 50 40	LT	30	13.0 (1)		
29	CP	eL	15 52 38	LZ	28	11.0 (1)	82.0	
		eL	15 53 15	LT	18	12.0 (1)		
		eL	15 53 15	LR	16	39.0 (1)		
		eL	15 53 15	LZ	30	17.0 (1)		
29	CP	eP	17 38 06.1	Z	0.2	15.0 (0)	0.1	
		eS	17 38 10	T	0.3	26.0 (0)		
29	17 39 06.0		34.3 N 139.5 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
29	WI	eP	18 22 07.2	Z	0.7	2.3 (0)		
29	18 32 49.3		34.2 N 139.5 E				E. COAST OF HONSHU, JAPAN	
			H =038 KM					
29	19 41 03.7		19.4 S 178.1 W				FIJI ISLANDS	
			H =582 KM					
29	20 20 20.5		34.0 N 139.3 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
29	MV	eP	20 32 08.5	Z	1.0	4.9 (0)	77.0	4.49
29	WI	eP	20 32 17.2	Z	1.0	8.0 (0)	78.0	4.73
		e	20 33 02	R	0.9	3.4 (0)		
29	MN	eP	20 32 18.9	Z	0.7	0.8 (0)	79.0	3.81
		eL	20 53 09	LT	28	77.0 (1)		
		eL	20 54 45	LZ	20	40.0 (1)		
		eL	20 54 45	LT	23	41.0 (1)		
		eL	20 54 45	LR	25	19.0 (1)		
		eLR	20 56 15	LZ	28	43.0 (1)		
29	FM	eP	20 32 41.8	Z	1.0	10.0 (0)	83.0	3.90
29	TF	eL	20 56 05	LZ	32	70.0 (1)	79.0	
		eL	20 58 12	LT	24	30.0 (1)		
		eL	20 58 12	LZ	22	59.0 (1)		
		eL	20 58 12	LR	20	16.0 (1)		
						AVG.		4.23
29	AR	eP	21 37 51.9	Z	1.0	28.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	22 04 07.4		22.5 S 071.6 W				COAST OF NORTHERN CHILE	
			H =033 KM					
29	MN	eP	22 15 46.0	Z	1.0	3.3 (0)	74.0	4.25
29	WI	eP	22 15 56.0	Z	0.8	8.6 (0)	77.0	4.83
		e	22 16 04	Z	0.7	4.6 (0)		
						AVG.		4.54
29	CP	eP	22 32 04.2	Z	0.2	20.0 (0)		
29	22 36 53.9		34.1 N 139.1 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
29	MV	eP	22 48 38.7	Z	1.3	24.0 (0)	77.0	5.07
		e	22 48 48	Z	0.9	16.0 (0)		
		e	22 59 23	LR	27	93.0 (1)		
		eLQ	23 08 26	LT	28	19.0 (2)		
		eLR	23 11 52	LZ	26	18.0 (2)		
29	WI	eP	22 48 48.0	Z	1.0	17.0 (0)	78.0	5.03
		eS	22 58 27	LT	18	48.0 (1)		
		eS	22 58 27	LR	15	99.9 (9)		
		eL	23 00 00	LZ	30	77.0 (1)		
		eL	23 14 05	LT	25	15.0 (2)		
		eL	23 14 05	LZ	25	19.0 (2)		
		eL	23 14 05	LR	17	99.9 (9)		
29	MN	eP	22 48 53.3	Z	1.3	17.0 (0)	79.0	4.85
		eS	22 58 40	LR	19	52.0 (1)		
		eS	22 58 40	LT	17	32.0 (1)		
		e	23 00 16	LZ	30	62.0 (1)		
		e	23 03 05	LR	27	10.0 (2)		
29	TF	eL	23 10 01	LT	25	99.9 (9)		
		eP	22 48 56.6	Z	0.7	4.2 (0)	79.0	4.51
		eS	22 58 56	LT	20	49.0 (1)		
		eS	22 58 56	LR	15	26.0 (1)		
		ePS	22 59 37	LT	32	18.0 (2)		
		e	23 09 46	LR	25	10.0 (2)		
		eLR	23 13 03	LZ	31	62.0 (2)		
		eL	23 13 55	LT	26	40.0 (2)		
		eL	23 13 55	LZ	27	54.0 (2)		
		eL	23 13 55	LR	27	28.0 (2)		
29	FM	eP	22 49 11.8	Z	1.1	26.0 (0)	82.0	5.18
		e	22 49 19	Z	0.9	24.0 (0)		
		eS	22 59 30	LR	15	79.0 (1)		
		e	23 01 06	LZ	26	30.0 (0)		
		e	23 03 56	LZ	21	45.0 (1)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	AR	e	23 15 17	LZ	26	13.0 (2)	90.0	4.71
		eP	22 49 47.4	Z	1.0	5.5 (0)		
		e	22 49 55	Z	1.0	22.0 (0)		
		eS	23 00 45	LR	19	32.0 (1)		
		eSS	23 06 49	LR	24	60.0 (1)		
		eL	23 18 52	LR	33	94.0 (1)		
		eL	23 29 25	LR	20	22.0 (2)		
		eL	23 29 25	LZ	24	11.0 (2)		
		eS	23 00 25	LR	24	46.0 (1)		
		ePS	23 01 47	LR	20	86.0 (1)		
29	LC	eSS	23 06 23	LR	25	91.0 (1)	90.0	
		e	23 10 18	LR	27	73.0 (1)		
		eL	23 14 02	LT	23	90.0 (1)		
		eL	23 18 30	LZ	40	20.0 (2)		
		eL	23 20 23	LZ	24	14.0 (2)		
		eL	23 20 23	LR	25	14.0 (2)		
		eL	23 20 23	LT	19	46.0 (1)		
		e	23 00 45	LZ	13	76.0 (1)		
		eL	23 14 32	LZ	36	99.9 (9)		
		eL	23 15 35	LT	26	23.0 (2)		
29	DH	eL	23 15 35	LZ	28	99.9 (9)	98.0	
		eL	23 29 07	LR	26	22.0 (2)		
		eL	23 29 43	LR	26	37.0 (2)		
		eL	23 29 43	LT	29	16.0 (2)		
AVG.								4.89

30	06 22 27.6	17.4 S 069.8 W	SOUTHERN PERU	H = 145 KM			
30	WI eP	06 33 45.0	Z	0.6	3.4 (0)	74.0	4.31
		06 34 25	Z	0.8	4.3 (0)		
30	06 27 07.4	44.1 N 012.5 E	ITALY	H = 033 KM			
30	MN eP	06 52 36.3	Z	0.7	1.3 (0)		
30	07 46 25.2	45.5 N 026.7 E	ROMANIA	H = 100 KM			
30	11 21 55.1	35.1 N 140.4 E	E. COAST OF HONSHU, JAPAN	H = 033 KM			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	WI	eP	11 33 38.6	Z	1.2	7.5 (0)	76.0	4.60
30	11 35 08.9	34.0 N 139.1 E	E. COAST OF HONSHU, JAPAN	H = 033 KM				
30	WI eP	11 47 02.0	Z	1.0	6.9 (0)	77.0	4.64	
30	11 36 11.3	40.2 S 072.6 W	SOUTHERN CHILE	H = 037 KM				
30	FM eP	11 48 53.3	Z	0.7	10.0 (0)	87.0	5.08	
30	MN eP	11 49 02.5	Z	1.0	5.0 (0)	89.0	4.66	
30	WI eP	11 49 11.2	Z	0.8	2.2 (0)	90.0	4.40	
AVG.								4.71
30	12 10 23.8	42.2 N 014.3 E	ITALY	H = 033 KM				
30	13 35 28.7	41.8 N 111.8 W	UTAH-IDAHO BORDER	H = 037 KM MAG 5.75-6. PAS				
30	FM eP	13 36 10.9	Z	0.5	82.0 (1)	3.0	6.02	
30	WI eP	13 36 11	LZ	15	25.0 (2)	4.5	5.37	
		13 36 33.2	Z	1.0	13.0 (1)			
30	MN eP	13 36 35	LZ	20	97.0 (2)	6.0	5.39	
		13 36 58.0	Z	999.9	99.9 (9)			
30	MV eP	13 37 24.1	Z	1.0	41.0 (0)	8.0		
		13 37 25	LZ	20	18.0 (2)			
30	e	13 37 48	Z	0.6	87.0 (0)			
		13 39 20	LT	25	16.0 (3)			
30	eLG	13 39 23	T	0.6	16.0 (1)	9.0	6.03	
		13 39 23	T	0.6	16.0 (1)			
30	TF eP	13 37 45.7	Z	0.8	91.0 (0)	10.0	5.69	
		13 37 50	LZ	14	30.0 (2)			
30	eL	13 40 18	T	1.0	69.0 (1)			
		13 40 35	LT	20	52.0 (2)			
30	CP eP	13 37 52.4	Z	0.8	36.0 (0)	10.0	5.69	
		13 37 55	LZ	12	26.0 (2)			
30	eLG	13 40 10	T	1.3	53.0 (1)			
		13 40 10	LT	15	35.0 (3)			
30	eL	13 40 10	LR	15	21.0 (3)			
		13 40 10	LZ	15	52.0 (2)			
30	SJ eP	13 39 39.5	Z	0.7	11.0 (1)	18.0	5.13	



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	13 39 40	LZ	13	46.0 (2)		
		eS	13 43 05	LT	15	53.0 (2)		
		eS	13 43 05	LR	15	27.0 (3)		
		eL	13 44 35	LZ	8	61.0 (3)		
		eL	13 44 35	LR	8	15.0 (4)		
		eL	13 44 35	LT	8	48.0 (3)		
		eL	13 45 03	T	2.5	88.0 (2)		
30	DH	eP	13 41 11.0	Z	0.9	21.0 (1)	27.0	5.79
		eP	13 41 12	LZ	14	10.0 (2)		
		eS	13 45 45	LR	20	46.0 (2)		
		eS	13 45 45	LT	20	16.0 (2)		
		eL	13 49 44	T	2.0	21.0 (2)		
		eL	13 49 45	LT	20	80.0 (3)		
		eL	13 49 45	LZ	20	37.0 (2)		
		eL	13 49 45	LR	20	31.0 (2)		
							AVG.	5.63
30	WI	eP	13 54 30.7	Z	0.5	4.2 (0)		
30	WI	eL	13 55 48	T	0.6	21.0 (0)		
30	MV	eP	13 57 53.7	Z	1.0	5.1 (0)		
30	MN	eP	13 58 08.0	Z	1.0	5.0 (0)		
30	WI	eP	14 04 18.3	Z	0.4	4.6 (0)		
30	WI	e	14 04 36	Z	0.5	20.0 (0)		
30	MN	eP	14 04 53.4	Z	0.5	2.1 (0)		
30	MN	e	14 05 14	Z	0.5	3.6 (0)		
30	WI	eL	14 05 33	T	0.5	37.0 (0)		
30	MN	eL	14 06 25	R	0.6	4.2 (0)		
30	WI	eP	14 08 55.6	Z	0.6	12.0 (0)	5.0	
		e	14 09 01	Z	0.6	22.0 (0)		
		eS	14 09 56	R	0.7	22.0 (0)		
30	WI	eP	14 51 06.9	Z	0.3	9.7 (0)	4.5	
		eS	14 52 05	R	0.5	42.0 (0)		
30	WI	eP	15 08 12.3	Z	0.3	3.0 (0)	4.5	
		eS	15 09 08	T	0.5	4.9 (0)		
30	WI	eP	16 01 16.3	Z	0.4	1.0 (0)	5.1	
		e	16 01 21	Z	0.5	5.0 (0)		
		eS	16 02 18	R	0.8	21.0 (0)		
30	17	17 51.9	21.2 S 174.4 W	TONGA ISLANDS				
			H =033 KM MAG	5.50-				BRK
30	TF	eP	17 29 39.5	Z	1.0	30.0 (0)	76.0	5.28
		eP	17 29 40	LZ	15	10.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	17 39 25	LT	21	17.0 (2)		
		eS	17 39 25	LR	20	65.0 (1)		
		eLQ	17 49 10	LT	26	18.0 (2)		
		eLR	17 52 30	LZ	25	15.0 (2)		
		eL	17 58 10	LZ	18	52.0 (2)		
		eL	17 58 10	LR	18	33.0 (2)		
		eL	17 58 10	LT	18	11.0 (2)		
30	CP	eP	17 29 44.9	Z	1.0	10.0 (0)	77.0	4.80
		eP	17 29 45	LZ	15	77.0 (1)		
		eS	17 39 30	LT	18	25.0 (2)		
		eL	17 52 26	LZ	28	77.0 (2)		
		eL	17 56 40	LZ	20	16.0 (2)		
		eL	17 56 40	LT	20	15.0 (2)		
		eL	17 56 40	LR	18	87.0 (1)		
30	MV	eP	17 29 48.7	Z	1.0	17.0 (0)	78.0	5.03
		eP	17 29 50	LZ	15	63.0 (1)		
		eS	17 39 45	LR	25	55.0 (1)		
		eS	17 39 45	LT	20	10.0 (2)		
		eSS	17 44 20	LR	20	46.0 (1)		
		eLR	17 53 20	LZ	25	80.0 (1)		
		eL	18 00 00	LZ	17	25.0 (2)		
		eL	18 00 00	LR	17	77.0 (1)		
		eL	18 00 00	LT	17	15.0 (2)		
30	MN	eP	17 29 56.8	Z	1.0	43.0 (0)	80.0	5.30
		eP	17 29 58	LZ	14	67.0 (1)		
		eS	17 40 02	LR	20	72.0 (1)		
		eS	17 40 02	LT	20	86.0 (1)		
		eSS	17 45 08	LT	20	78.0 (1)		
		eLQ	17 50 30	LR	25	11.0 (2)		
		eLR	17 54 00	LZ	30	14.0 (2)		
		eL	18 00 00	LR	18	24.0 (2)		
		eL	18 00 00	LZ	18	64.0 (1)		
		eL	18 00 00	LT	18	55.0 (2)		
30	WI	eP	17 30 08.6	Z	1.0	30.0 (0)	82.0	5.28
		eP	17 30 10	LZ	14	71.0 (1)		
		eS	17 40 25	LR	30	16.0 (2)		
		eS	17 40 25	LT	17	66.0 (1)		
		eLR	17 55 36	LZ	28	11.0 (2)		
		eL	18 03 00	LZ	17	25.0 (2)		
		eL	18 03 00	LR	17	12.0 (2)		
		eL	18 03 00	LT	17	27.0 (2)		
30	FM	eP	17 30 20.0	Z	1.0	40.0 (0)	84.0	5.50
		eP	17 30 20	LZ	15	64.0 (1)		
		eS	17 40 50	LT	20	18.0 (2)		
		eLQ	17 52 40	LT	35	18.0 (2)		
		eLR	17 56 17	LZ	28	79.0 (1)		
		eL	18 02 10	LZ	18	25.0 (2)		
		eL	18 02 10	LR	20	20.0 (2)		
		eL	18 02 10	LT	20	26.0 (1)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	LC	eP	17 30 21.4	Z	1.0	30.0 (0)	84.0	5.38
		eP	17 30 23	LZ	15	75.0 (1)		
		eS	17 40 47	LR	20	98.0 (1)		
		eS	17 40 47	LT	20	18.0 (2)		
		eLQ	17 52 45	LR	25	86.0 (1)		
		eLR	17 55 35	LZ	25	17.0 (2)		
		eL	18 03 20	LZ	17	49.0 (2)		
		eL	18 03 20	LR	17	33.0 (2)		
		eL	18 03 20	LT	17	30.0 (2)		
30	SJ	eP	17 30 43.5	Z	1.5	12.0 (1)	89.0	5.87
30	DH	eL	18 12 57	LZ	25	15.0 (2)	111.0	
		eL	18 12 57	LR	25	67.0 (1)		
		eL	18 12 57	LT	25	48.0 (1)		
						AVG.		5.31
30	19 09	15.9	47.7 S 032.6 E	PRINCE EDWARD ISLANDS				
			H =033 KM					
30	LC	eP*1	19 28 54.5	Z	1.2	12.0 (0)	147.0	
30	20 16	01.1	09.9 S 161.8 E	SOLOMON ISLANDS				
			H =063 KM					
30	MN	eP	20 16 27.1	Z	0.3	6.5 (0)	0.7	
		eS	20 16 37	R	0.4	8.2 (0)		
30	WI	eP	20 25 18.0	Z	0.7	1.0 (0)		
30	WI	eP	21 23 52.0	Z	1.0	2.3 (0)		
30	LC	eP	22 07 00.3	Z	0.3	10.0 (0)	1.5	
		eS	22 07 20	R	0.5	18.0 (0)		
30	WI	eP	22 52 21.0	Z	0.5	10.0 (0)	4.1	
		eS	22 53 11	R	0.6	28.0 (0)		
30	WI	eP	23 02 43.6	Z	0.5	3.8 (0)	4.9	
		eS	23 03 43	R	0.7	17.0 (0)		
31	MN	eP	03 17 25.1	Z	0.8	1.1 (0)		
31	CP	eP	03 27 13.2	Z	0.5	22.0 (0)	1.7	
		eS	03 27 36	T	999.9	99.9 (9)		
31	MN	eP	03 28 05.4	Z	1.0	3.3 (0)		
31	LC	eP	06 09 26.6	Z	1.0	1.2 (0)		
31	09 00	04.8	15.3 S 177.2 W	FIJI ISLANDS REGION				
			H =059 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	MN	eP	09 11 51.5	Z	1.1	4.3 (0)	76.0	4.31
		eLQ	09 31 45	LR	40	47.0 (1)		
		eLR	09 34 56	LZ	30	65.0 (1)		
		eL	09 36 00	LZ	30	65.0 (1)		
		eL	09 36 00	LR	26	20.0 (1)		
		eL	09 36 00	LT	27	53.0 (1)		
31	WI	eP	09 12 04.5	Z	1.0	2.2 (0)	79.0	4.02
		e	09 12 31	Z	1.5	18.0 (0)		
		eL	09 36 22	LZ	25	66.0 (1)		
		eL	09 37 20	LR	25	33.0 (1)		
		eL	09 37 20	LZ	25	66.0 (1)		
31	LC	eP	09 12 24.4	Z	1.0	3.7 (0)	83.0	4.40
		eL	09 37 43	LZ	23	66.0 (1)		
31	FM	eL	09 37 40	LZ	25	40.0 (1)	83.0	
		eL	09 40 32	LR	22	37.0 (1)		
		eL	09 40 32	LT	22	19.0 (1)		
		eL	09 40 32	LZ	20	42.0 (1)		
31	TF	eL	09 43 24	LZ	25	65.0 (1)	75.0	
		eL	09 44 56	LR	22	60.0 (1)		
		eL	09 44 56	LZ	22	66.0 (1)		
31	AR	eL	09 48 50	LR	25		98.0	
31	DH	eL	09 50 50	LZ	45	35.0 (1)	109.0	
		eL	09 55 50	LZ	24	58.0 (1)		
		eL	09 55 50	LR	25	39.0 (1)		
		eL	09 55 50	LT	19	87.0 (0)		
						AVG.		4.24
31	10 33	30.2	15.4 S 177.3 W	FIJI ISLANDS REGION				
			H =060 KM					
31	TF	eP	10 45 04.0	Z	1.0	16.0 (0)	75.0	4.92
		eSS	10 59 49	LR	25	24.0 (2)		
		e	11 04 14	LT	22			
		eLR	11 06 54	LZ	27	31.0 (2)		
		eL	11 08 22	LR	22	28.0 (2)		
		eL	11 08 22	LZ	23	30.0 (2)		
31	MV	eP	10 45 10.7	Z	1.0	10.0 (0)	76.0	4.82
		e	10 55 25	LT	27	18.0 (2)		
		eLR	11 07 42	LZ	26	20.0 (2)		
		eL	11 08 30	LZ	28	19.0 (2)		
		eL	11 08 30	LR	26	12.0 (2)		
		eL	11 08 30	LT	28	25.0 (2)		
31	MN	eP	10 45 18.5	Z	1.0	18.0 (0)	77.0	4.96
		eS	10 55 15	LR	23	25.0 (1)		
		eS	10 55 15	LT	34	16.0 (2)		
		eSS	10 59 57	LT	20	39.0 (1)		
		e	11 04 45	LR	25	62.0 (1)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	11 08 14	LZ	999.9	99.9 (9)		
		eL	11 09 30	LZ	999.9	99.9 (9)		
		eL	11 09 30	LR	28	96.0 (1)		
31	WI	eL	11 09 30	LT	27	25.0 (2)		
		eP	10 45 31.9	Z	1.2	18.0 (0)	80.0	4.81
		eS	10 55 42	LT	22	39.0 (1)		
		eS	10 55 42	LR	18	32.0 (1)		
		e	10 56 20	LR	20	50.0 (1)		
		eL	11 09 35	LZ	25	32.0 (2)		
		eL	11 10 47	LT	25	24.0 (2)		
		eL	11 10 47	LR	25	12.0 (2)		
31	FM	eL	11 10 47	LZ	25	31.0 (2)		
		eP	10 45 47.8	Z	1.0	10.0 (0)	83.0	4.82
		eL	11 11 02	LZ	28	20.0 (2)		
		eL	11 11 57	LR	25	15.0 (2)		
		eL	11 11 57	LT	25	50.0 (1)		
		eL	11 11 57	LZ	25	17.0 (2)		
31	LC	eP	10 45 49.3	Z	1.0	22.0 (0)	83.0	5.16
		e	10 56 10	LR	20	38.0 (1)		
		eSS	11 01 35	LR	23	63.0 (1)		
		e	11 08 00	LR	30	10.0 (2)		
		eLR	11 10 30	LZ	23	39.0 (1)		
31	DH	e	11 01 58	LZ	20	19.0 (1)	109.0	
		e	11 08 05	LZ	31	19.0 (1)		
		e	11 16 04	LZ	24	37.0 (1)		
		eL	11 24 47	LZ	36	13.0 (2)		
		eL	11 29 30	LZ	24	30.0 (2)		
		eL	11 29 30	LR	24	20.0 (2)		
31	CP	eL	11 29 30	LT	20	40.0 (1)		
		eL	11 07 30	LZ	25	21.0 (2)	74.0	
		eL	11 09 44	LZ	22	53.0 (1)		
		eL	11 09 44	LT	22	31.0 (2)		
31	SJ	eL	11 09 30	LZ	20	35.0 (1)	87.0	
		eL	11 18 45	LT	18	31.0 (2)		
		eL	11 18 45	LZ	18	82.0 (1)		
31	AR	eL	11 17 30	LR	30		98.0	
							AVG.	4.92
31	WI	eP	10 34 45.4	Z	0.4	5.0 (0)	4.6	
		eS	10 35 43	R	0.5	20.0 (0)		
31	MN	eP	10 44 06.8	Z	1.1	4.3 (0)		
31	LC	eP	10 44 38.5	Z	1.0	2.5 (0)		
31	16 26 05.9		52.5 N 160.6 E				E. COAST OF KAMCHATKA	
			H =063 KM					
31	WI	eP	16 35 27.4	Z	1.0	4.4 (0)	54.0	4.44

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	16 55 00	LR	22	27.0 (1)		
		eL	16 55 00	LZ	20	26.0 (1)		
31	MN	eP	16 35 47.0	Z	1.1	8.7 (0)	57.0	4.70
		eS	16 43 30	LR	23	11.0 (1)		
		eS	16 43 30	LT	18	21.0 (1)		
		e	16 49 30	LT	30	34.0 (1)		
		eL	16 52 50	LZ	26	34.0 (1)		
		eL	16 54 35	LZ	23	33.0 (1)		
		eL	16 54 35	LR	23	22.0 (1)		
31	LC	eL	16 54 35	LT	23	18.0 (1)		
		eP	16 36 53.7	Z	1.0	3.7 (0)	67.0	4.39
							AVG.	4.51
31	AR	eL	16 59 20	LR	25			
31	17 02 43.4		51.3 N 179.7 W				RAT IS., ALEUTIAN ISLANDS	
			H =026 KM				MAG 6.75-	PAS
31	WI	eP	17 10 42.4	Z	1.0	90.0 (0)	43.0	5.45
		eP	17 10 45	LZ	12	27.0 (2)		
		eS	17 17 05	LT	20	49.0 (2)		
		eS	17 17 05	LR	25	31.0 (2)		
		eL	17 18 10	LT	35	15.0 (2)		
31	MN	eP	17 10 53.1	Z	0.9	78.0 (0)	44.0	5.44
		eP	17 10 54	LZ	17	15.0 (1)		
		e	17 14 29	Z	3.0	40.0 (1)		
		eS	17 17 24	R	1.7	27.0 (0)		
		eS	17 17 24	T	1.8	57.0 (0)		
		eS	17 17 25	LT	999.9	99.9 (9)		
		eP'P'	17 42 11	Z	1.5	10.0 (0)		
31	TF	eP	17 10 58.0	Z	1.0	57.0 (0)	45.0	5.40
		eP	17 10 59	LZ	12	30.0 (2)		
		eS	17 17 39	LR	22	71.0 (2)		
		eS	17 17 39	LT	20			
		eSCS	17 21 19	LR	30	93.0 (2)		
		eL	17 25 21	LR	20	11.0 (3)		
		eL	17 25 21	LT	20			
31	FM	eL	17 25 21	LZ	25	11.0 (3)		
		eP	17 11 18.3	Z	1.8	59.0 (1)	48.0	6.34
		eP	17 11 20	LZ	12	21.0 (1)		
		eS	17 18 10	LR	20	55.0 (2)		
		eS	17 18 10	LT	12	75.0 (2)		
		eL	17 21 35	LZ	25	99.9 (9)		
31	CP	eP	17 11 29.5	Z	1.0	75.0 (0)	49.0	5.60
		eP	17 11 30	LZ	10	41.0 (2)		
		e	17 11 41	Z	1.2	76.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	17 16 46	Z	1.8	94.0 (0)		
		eSS	17 18 35	LT	25	61.0 (2)		
		eL	17 21 55	LZ	20	53.0 (2)		
		eL	17 26 20	LT	25	10.0 (3)		
31	LC	eL	17 26 20	LR	25	39.0 (2)		
		eP	17 12 16.4	Z	1.0	17.0 (1)	55.0	6.03
		eP	17 12 18	LZ	17	17.0 (2)		
		eS	17 20 01	R	2.5	68.0 (0)		
		eS	17 20 01	T	2.5	60.0 (0)		
		eS	17 20 05	LR	18	28.0 (2)		
		eSS	17 23 42	LR	23	54.0 (2)		
		e	17 26 25	LR	20	38.0 (2)		
		eLR	17 29 13	LZ	25	67.0 (2)		
31	AR	eP ¹ P ⁰	17 42 08	Z	1.3	5.1 (0)		
		eP	17 12 28.2	Z	0.8	14.0 (1)	57.0	5.87
		eP	17 12 30	LZ	22	11.0 (2)		
		eS	17 20 22	LR	20	99.9 (9)		
		eSCS	17 22 20	LR	24			
		eLR	17 32 22	LZ	28	12.0 (3)		
31	SJ	eLQ	17 26 40	LR	34	99.9 (9)		
		eP	17 13 16.1	Z	1.2	25.0 (1)	64.0	6.24
		eP	17 13 17	LZ	12	54.0 (2)		
		e	17 13 34	Z	1.2	34.0 (1)		
		e	17 17 54	Z	1.8	20.0 (1)		
		eS	17 21 50	LT	22	99.9 (9)		
		eS	17 21 50	LR	18	55.0 (2)		
		eLQ	17 29 35	LT	22	99.9 (9)		
		eL	17 29 35	LR	20	24.0 (2)		
		eL	17 29 35	LZ	18	15.0 (2)		
31	DH	eLR	17 34 52	LZ	30	85.0 (2)		
		eP	17 13 21.1	Z	1.0	17.0 (1)	65.0	6.16
		eP	17 13 22	LZ	21	12.0 (2)		
		eS	17 22 21	LR	18	17.0 (2)		
		eS	17 22 21	LT	18	15.0 (2)		
		e	17 23 32	LT	18	27.0 (2)		
		eSS	17 26 30	LT	23	27.0 (2)		
		e	17 30 00	LT	30	38.0 (2)		
		eL	17 32 45	LR	35	16.0 (3)		
		eP ¹ P ⁰	17 42 00	Z	1.8	10.0 (1)		
							AVG.	5.84
31	17 56 08.9		51.2 N 179.9 W					RAT IS., ALEUTIAN ISLANDS H =043 KM
31	WI	eP	18 04 06.4	Z	1.0	37.0 (0)	43.0	5.07
		ePP	18 05 56	Z	1.5	44.0 (0)		
31	MN	eP	18 04 17.0	Z	0.7	15.0 (0)	44.0	4.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	TF	eP	18 04 21.6	Z	1.0	21.0 (0)	45.0	4.94
31	FM	eP	18 04 42.6	Z	1.5	13.0 (1)	48.0	5.74
31	CP	eP	18 04 53.2	Z	0.7	18.0 (0)	49.0	4.91
		ePCP	18 06 17	Z	0.6	3.7 (0)		
31	LC	eP	18 05 40.9	Z	0.8	25.0 (0)	55.0	5.29
31	AR	eP	18 05 54.2	Z	0.8	23.0 (0)	57.0	5.26
31	SJ	eP	18 06 40.1	Z	1.5	13.0 (1)	64.0	5.82
							AVG.	5.23
31	21 23 14.4		51.4 N 179.8 W					RAT IS., ALEUTIAN ISLANDS H =033 KM
31	WI	eP	21 31 30.8	Z	1.0	4.4 (0)	45.0	4.28
31	LC	eP	21 32 46.5	Z	1.2	8.1 (0)	55.0	4.63
							AVG.	4.46
31	AR	eP	21 47 56.0	Z	1.0	27.0 (1)		

ERRATA SHEET FOR INCLUSION IN AUGUST BULLETIN

The following corrections to previously distributed bulletins should be made:

March 1962 Bulletin:

Page 60, event at 05:34:40.5, location should read Near Southern Chile instead of Near Southern California

Page 68, event at 09:22:06.7, average magnitude should read 4.80 instead of 5.19

July 1962 Bulletin:

Page 18, event at 09:16:15.0, average magnitude should read 5.11 instead of 4.52

May 1962 Bulletin:

Page 54, event at 18:46:40.1,

Magnitude of the AS at FM should read 5.45 instead of 4.45;
Magnitude (main shock) at LC should read 5.19 instead of 4.77;
Magnitude of the AS at SJ should read 5.33 instead of 4.83;
Average Magnitude of the AS should read 5.39 instead of 5.24;
Average Magnitude of main shock should read 5.30 instead of 5.66;

January through July 1962 Bulletins:

In table 1, the site coordinates for Marysville, California (MV CL), should be changed to read:

N $39^{\circ} 12' 47''$
W $121^{\circ} 17' 35''$

The elevation for this site should be changed to read 600 feet or 0.183 km.

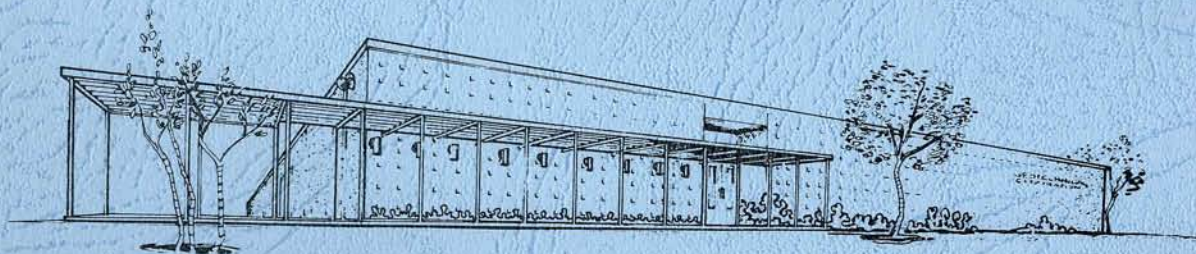
E. W. Carpenter



From the ISC collection scanned by SISMO5

Bulletin No. 9
September 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM
FOR SEPTEMBER 1962



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



ERRATA SHEET FOR INCLUSION IN SEPTEMBER BULLETIN

The following corrections should be made:

June 1962 Bulletin:

Page 39, the magnitude shown for MN at 06:42:10 should be deleted

Page 39, change the average magnitude shown for event at 06:30:37.0 to read 5.17.

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, the Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except the unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1310A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

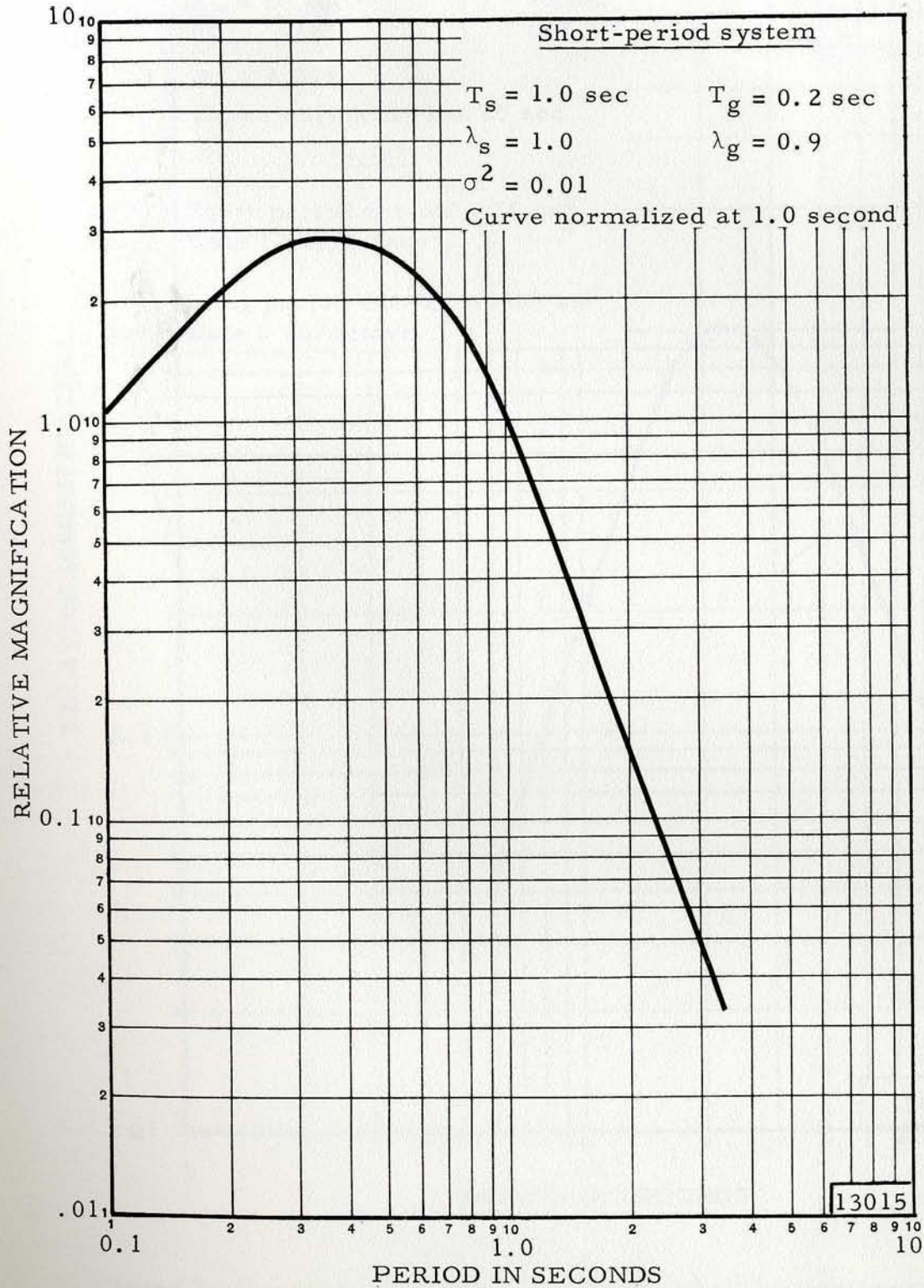


Figure 1. Frequency response of the short-period seismograph system

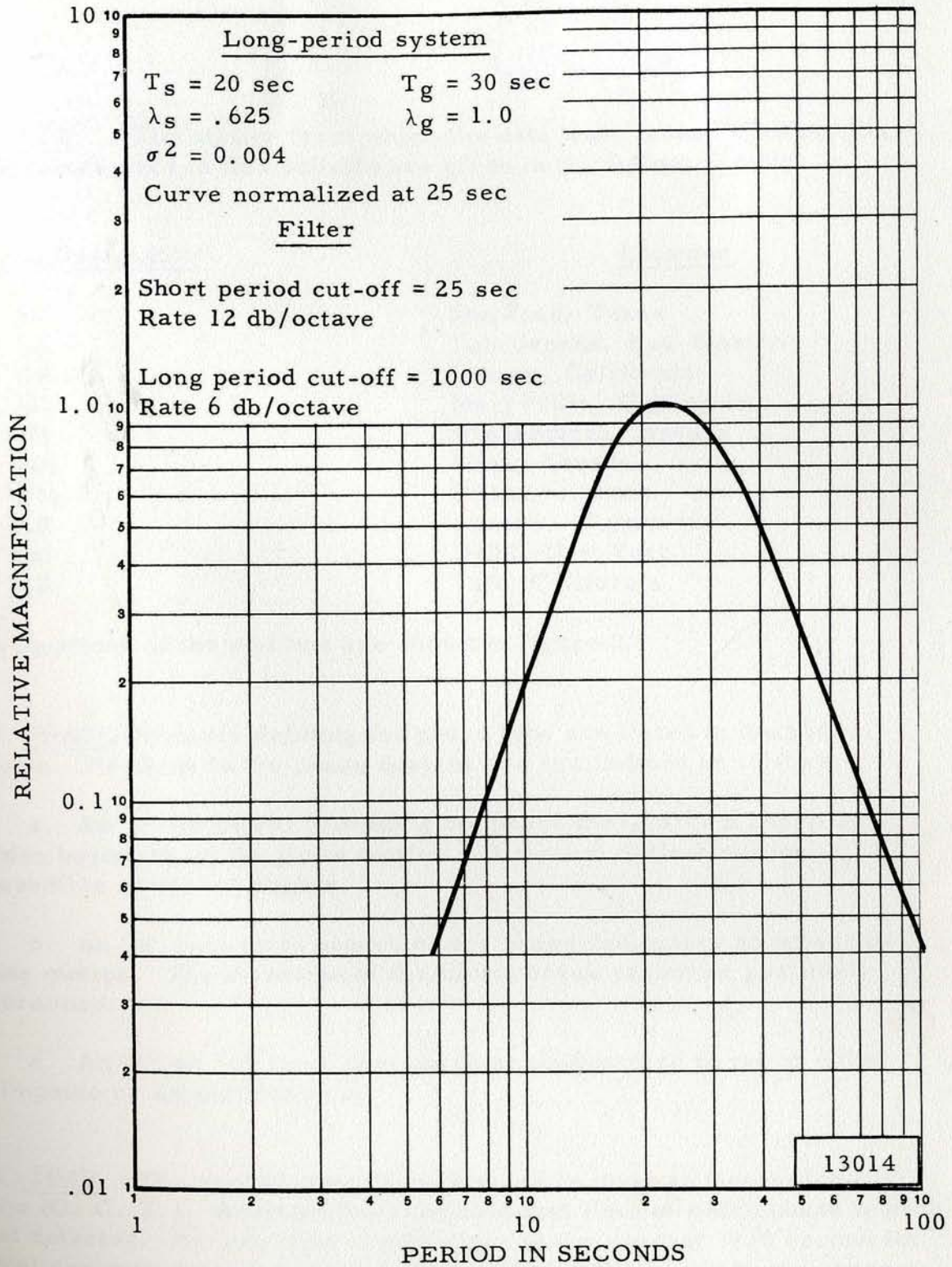


Figure 2. Frequency response of the long-period seismograph system

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

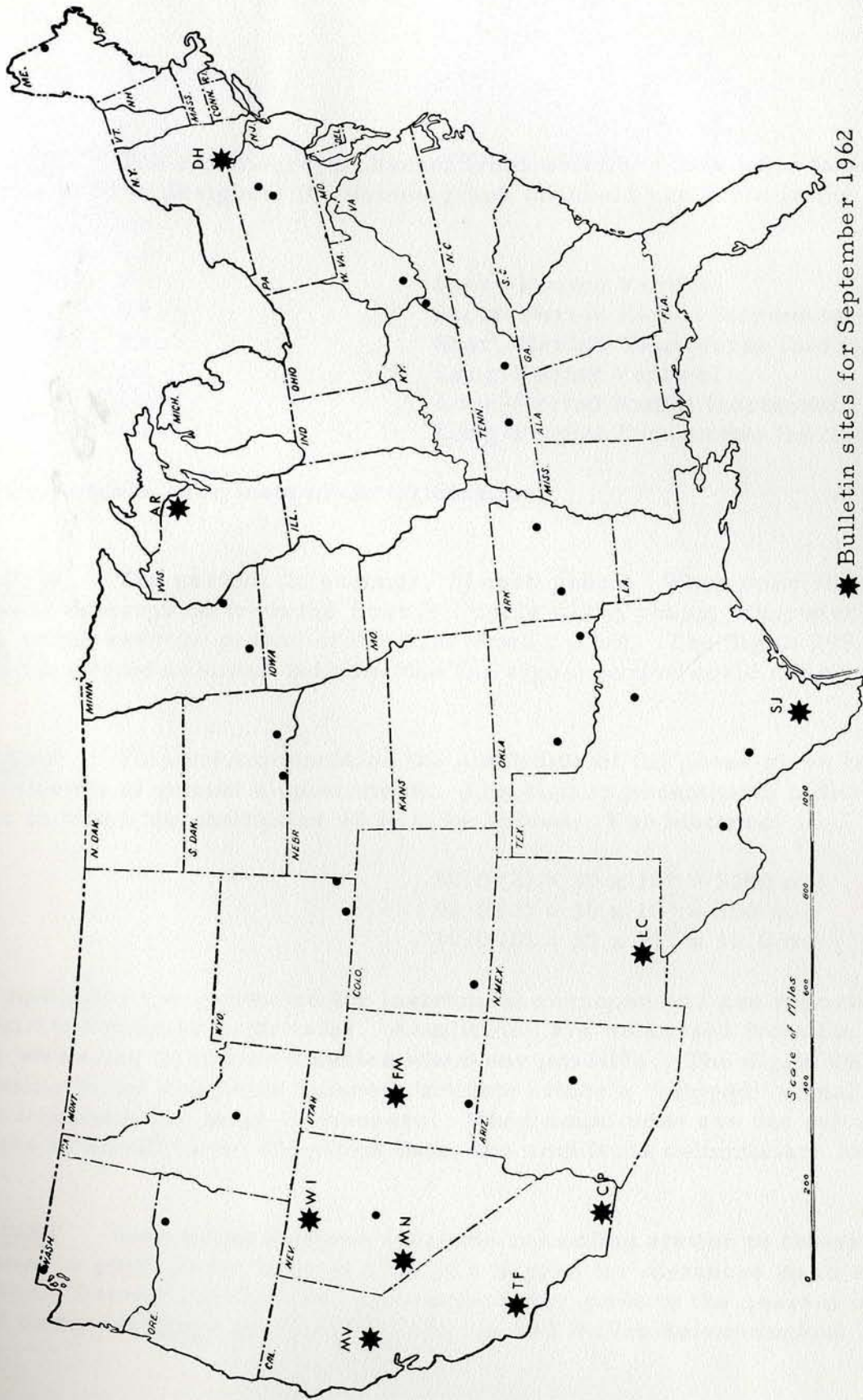
<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
AR	Aurora, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.



- ★ Bulletin sites for September 1962
- Other sites occupied during September 1962

Figure 3. LRSM Program Sites

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$30.0 (2) = 30 \times 10^2 = 3000 \text{ m}\mu$$

$$30.0 (1) = 30 \times 10^1 = 300 \text{ m}\mu$$

$$30.0 (0) = 30 \times 10^0 = 30.0 \text{ m}\mu$$

All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables.

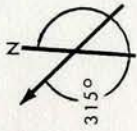
TABLE 1

LRSM SITE INFORMATION
Horizontal seismometer orientation

Azimuth from True North

in Degrees*

Site Designation	Site Location	Azimuth from True North in Degrees*		Site Coordinates in deg, min, sec		Elevation in km	Rock Type
		Radial	Transverse	in deg,	min, sec		
SJ TX	San Jose, Texas	127	217	N 27	36 43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98	18 46	1.585	Limestone
CP CL	Campo, California	182	272	N 32	24 08	1.189	Granite
MV CL	Marysville, California	295	025	W 106	35 58	0.183	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32	43 44	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116	22 16	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39	12 47	1.890	Limestone
AR WS	Aurora, Wisconsin	063	153	W 121	17 35	0.366	Gneiss
DH NY	Delhi, New York	095	185	N 41	21 02	0.652	Sandstone
TF CL	Taft, California	235	325	W 117	27 30	0.792	Sandstone
				N 38	26 10		
				W 118	08 53		
				N 39	13 06		
				W 112	12 25		
				N 45	42 48		
				W 88	08 32		
				N 42	14 39		
				W 74	53 18		
				N 35	09 49		
				W 119	58 03		



*When earth moves in direction shown, trace moves up.

P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log_{10} A + B$$

where: m = Unified magnitude

A = $1/2$ P-P amplitude in millimicrons/second of the "P" phase (initial arrival)

B = Log function of distance and depth.

These factors were obtained from the Gutenberg-Richter tables. Computations for distances less than 16° are based on AFTAC extensions of Gutenberg's tables.¹ For this purpose, points from 10° to 16° were read from a curve in the Gutenberg-Richter paper and an inverse cube relationship was used to extrapolate from 2° to 10° .

The average magnitude $\left(\frac{\text{sum of station magnitudes}}{\text{number of stations}}\right)$ is listed on the last line of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

¹ Gutenberg, B., and Richter, C.F., 1956, Magnitude and energy of earthquakes: Ann. Geofis., 9, pp. 1-15.

The notation AS located between these columns calls attention to an aftershock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group, day of the month

Second group, origin time of the event

Third group, geographic coordinates of the epicenter

Fourth group, geographic description

Line 2 (from left to right)

First group, depth (h) of the hypocenter in kilometers

Second group, magnitude (MAG) as determined by Pasadena (PAS), Berkeley (BRK), or Palisades (PAL)

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

AF Technical Applications Center, TD/1
DCS/Operations

Headquarters United States Air Force
Washington 25, D. C.

ATTENTION: Captain N. G. Maddox, Project Officer



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	03 46	05.0	51.3 N 179.7 W H =025 KM	RAT IS., MAG	ALEUTIAN IS., 6.50-	PAS		
1	MV	eP	03 53 54.9	Z	0.8	31.0 (0)	42.0	5.11
		eP	03 53 56	LZ	16	13.0 (2)		
		ePCP	03 55 50	Z	0.9	18.0 (0)		
		eSCP	03 59 37	Z	1.7	27.0 (0)		
		eS	04 00 14	LR	26	36.0 (2)		
		eS	04 00 14	LT	25	25.0 (2)		
		eLQ	04 03 29	LT	32	13.0 (3)		
		eLR	04 05 21	LZ	23	19.0 (3)		
		eL	04 07 00	LZ	23	19.0 (3)		
		eL	04 07 00	LR	23	56.0 (2)		
		eL	04 07 00	LT	18	49.0 (2)		
1	WI	tP	03 54 04.5C	Z	0.7	24.0 (0)	43.0	5.03
		eP	03 54 07	LZ	16	14.0 (2)		
		eS	04 00 30	R	2.4	71.0 (0)		
		eS	04 00 30	T	2.0	42.0 (0)		
		eS	04 00 30	LR	25	69.0 (1)		
		eS	04 00 30	LT	20	35.0 (2)		
		eSCS	04 04 00	LT	20	73.0 (2)		
		eLR	04 06 21	LZ	27	21.0 (3)		
1	MN	tP	03 54 15.0C	Z	1.1	41.0 (0)	44.0	5.07
		eP	03 54 15	LZ	16	14.0 (2)		
		e	03 59 42	Z	2.0	36.0 (0)		
		eS	04 00 42	T	2.0	47.0 (0)		
		eS	04 00 42	R	2.0	13.0 (0)		
		eS	04 00 43	LT	999.9	99.9 (9)		
		e	04 02 01	LT	18	17.0 (2)		
		eSCS	04 04 18	LT	999.9	99.9 (9)		
		eSCS	04 04 23	R	2.0	38.0 (0)		
		eL	04 05 43	LZ	999.9	99.9 (9)		
		eP'P'	04 25 37	Z	2.0	24.0 (0)		
1	TF	eP	03 54 22.8	Z	1.2	64.0 (0)	45.0	5.38
		eP	03 54 23	LZ	16	20.0 (2)		
		eS	04 01 05	LR	22	51.0 (2)		
		eS	04 01 05	LT	20	45.0 (2)		
		eLQ	04 04 33	LR	36	11.0 (3)		
		eLR	04 06 51	LZ	25	11.0 (3)		
		eL	04 09 48	LZ	21	10.0 (3)		
		eL	04 09 48	LR	21	67.0 (2)		
		eL	04 09 48	LT	20	88.0 (2)		
1	FM	eP	03 54 40.3	Z	1.6	31.0 (1)	48.0	6.11
		eP	03 54 41	LZ	17	97.0 (1)		
		eS	04 01 39	LR	19	40.0 (2)		
		eS	04 01 39	LT	22	20.0 (2)		
		eSCS	04 04 40	LT	18	91.0 (2)		
		eLQ	04 07 04	LR	29	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		aLR	04 09 00	LZ	24	13.0 (3)		
		eL	04 10 45	LZ	25	12.0 (3)		
		eL	04 10 45	LR	23	42.0 (2)		
		eL	04 10 45	LT	25	15.0 (3)		
1	CP	tP	03 54 51.8C	Z	0.8	35.0 (0)	49.0	5.42
		eP	03 54 57	LZ	17	15.0 (2)		
		ePCP	03 56 09	Z	1.6	79.0 (0)		
		ePP	03 56 58	Z	1.4	27.0 (0)		
		ePPP	03 57 46	Z	1.8	41.0 (0)		
		eS	04 01 57	LT	20	48.0 (2)		
		eSS	04 05 30	LT	20	39.0 (2)		
		eLQ	04 06 58	LR	30	54.0 (2)		
		eLR	04 08 09	LZ	25	85.0 (2)		
		eL	04 10 00	LZ	25	85.0 (2)		
		eL	04 10 00	LR	25	30.0 (2)		
		eL	04 10 00	LT	25	72.0 (2)		
1	LC	eP	03 55 38.6	Z	1.0	84.0 (0)	55.0	5.72
		eP	03 55 40	LZ	18	13.0 (2)		
		eS	04 03 26	LR	20	19.0 (2)		
		eS	04 03 26	LT	21	24.0 (2)		
		eSS	04 07 22	LR	23	50.0 (2)		
		eLQ	04 09 37	LT	32	10.0 (3)		
		eLR	04 13 09	LZ	29	55.0 (2)		
		eL	04 15 30	LZ	24	52.0 (2)		
		eL	04 15 30	LR	23	74.0 (2)		
		eL	04 15 30	LT	23	34.0 (2)		
1	AR	eP	03 55 50.9	Z	0.8	89.0 (0)	57.0	5.85
		eP	03 55 52	LZ	20	97.0 (1)		
		eS	04 03 40	LR	23	52.0 (2)		
		e	04 10 15	LR	30	41.0 (2)		
		eLQ	04 12 22	LR	37	20.0 (3)		
		eLR	04 16 00	LZ	27	93.0 (2)		
1	SJ	eP	03 56 38.0	Z	1.5	23.0 (1)	64.0	6.11
		eP	03 56 38	LZ	15	34.0 (2)		
		eS	04 05 08	LR	23	33.0 (2)		
		eS	04 05 08	LT	23	38.0 (2)		
		eSCS	04 06 39	LR	20	31.0 (2)		
		e	04 08 47	LT	22	19.0 (2)		
		e	04 12 58	LT	22	52.0 (2)		
		eLQ	04 14 25	LT	31	19.0 (3)		
		eLR	04 17 48	LZ	25	61.0 (2)		
1	DH	eP	03 56 52.5	Z	1.0	88.0 (0)	66.0	5.87
		eP	03 56 53	LZ	15	14.0 (2)		
		eS	04 05 37	LR	19	21.0 (1)		
		eS	04 05 37	LT	16	32.0 (2)		
		eSCS	04 06 54	LT	17	35.0 (2)		
		e	04 10 40	LT	23	29.0 (2)		
		e	04 13 15	LT	28	33.0 (2)		
		eLQ	04 16 13	LR	36	59.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	04 19 53	LZ	28	99.0 (1)		
								AVG. 5.57
1			03 58 21.5			51.1 N 180.0		
						H = 033 KM		
						RAT IS., ALEUTIAN IS.		
1	MV	eP	04 06 10.3	Z	0.7	4.9 (0)	42.0	4.38
		ePCP	04 08 06	Z	0.8	5.8 (0)		
1	WI	eP	04 06 20.4	Z	0.7	9.2 (0)	43.0	4.69
1	MN	eP	04 06 31.2	Z	1.0	12.0 (0)	44.0	4.58
1	TF	eP	04 06 38.0	Z	0.9	13.0 (0)	45.0	4.79
1	FM	eP	04 06 56.4	Z	0.7	7.9 (0)	48.0	4.86
1	CP	eP	04 07 06.4	Z	0.7	10.0 (0)	49.0	4.92
1	LC	eP	04 07 54.6	Z	1.0	14.0 (0)	55.0	4.95
1	AR	eP	04 08 06.7	Z	0.9	31.0 (0)	57.0	5.34
1	SJ	eP	04 08 54.9	Z	1.0	20.0 (0)	64.0	5.20
1	DH	eP	04 09 08.5	Z	0.7	20.0 (0)	66.0	5.36
								AVG. 4.91
1			04 41 41.5			51.3 N 179.9 W		
						H = 037 KM		
						RAT IS., ALEUTIAN IS.		
1	MV	eP	04 49 30.2	Z	1.0	33.0 (0)	42.0	5.06
		e	04 50 20	Z	0.9	15.0 (0)		
		ePCP	04 51 25	Z	1.0	23.0 (0)		
		eSCP	04 55 12	Z	1.7	34.0 (0)		
		eS	04 55 49	R	3.0	14.0 (1)		
1	WI	eP	04 49 39.5	Z	1.0	60.0 (0)	43.0	5.28
		e	04 55 16	Z	2.0	29.0 (0)		
1	MN	tP	04 49 50.4C	Z	1.0	32.0 (0)	44.0	5.01
		eSCP	04 55 21	Z	1.9	42.0 (0)		
		eS	04 56 22	T	2.0	29.0 (0)		
		eS	04 56 22	R	2.0	13.0 (0)		
1	TF	eP	04 49 58.0	Z	0.9	19.0 (0)	45.0	4.95
1	FM	eP	04 50 15.5	Z	1.0	39.0 (0)	48.0	5.38
1	CP	eP	04 50 26.9	Z	1.0	31.0 (0)	49.0	5.26
		eSCP	04 55 42	Z	1.4	14.0 (0)		
1	LC	tP	04 51 14.0C	Z	1.0	39.0 (0)	55.0	5.39
1	AR	eP	04 51 25.9	Z	0.9	66.0 (0)	57.0	5.67
1	SJ	eP	04 52 13.0	Z	1.1	49.0 (0)	64.0	5.54
		e	04 52 27	Z	1.0	79.0 (0)		
1	DH	eP	04 52 27.5	Z	0.9	45.0 (0)	66.0	5.59
								AVG. 5.31
1			04 52 14.5			15.9 S 168.2 E		
						H = 244 KM		
						NEW HEBRIDES ISLANDS		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	TF	eP	05 04 24.0	Z	1.1	13.0 (1)	85.0	5.62
		epP	05 05 22	Z	1.3	19.0 (1)		
		ePP	05 07 41	Z	1.6	31.0 (1)		
1	MV	tP	05 04 26.7C	Z	1.0	11.0 (1)	86.0	5.64
		epP	05 05 23	Z	1.3	27.0 (1)		
		e	05 07 29	Z	1.0	23.0 (0)		
		eSKS	05 14 32	T	3.0	23.0 (1)		
		eP'P'	05 30 32	Z	1.2	6.6 (0)		
1	CP	tP	05 04 33.0C	Z	1.1	13.0 (1)	87.0	5.72
		epP	05 05 31	Z	1.4	16.0 (1)		
		ePP	05 07 50	Z	1.7	25.0 (1)		
		eSKS	05 14 37	T	3.7	33.0 (1)		
1	MN	tP	05 04 36.4C	Z	1.7	18.0 (1)	88.0	5.72
		epP	05 05 33	Z	2.0	12.0 (1)		
		e	05 06 41	Z	2.5	22.0 (1)		
		ePP	05 08 04	Z	1.6	78.0 (0)		
		eSKS	05 14 42	T	2.4	77.0 (0)		
		eSP	05 15 57	Z	4.0	38.0 (1)		
		ePKKP	05 22 24	Z	0.9	4.0 (0)		
		eP'P'	05 30 18	Z	1.7	24.0 (0)		
		eSKPP'	05 33 25	Z	2.1	28.0 (0)		
1	WI	tP	05 04 44.0C	Z	1.1	13.0 (1)	89.0	5.77
		epP	05 05 40	Z	1.5	27.0 (1)		
		ePP	05 08 15	Z	1.5	3.5 (0)		
		eSKS	05 14 52	R	2.5	83.0 (0)		
		eS	05 15 13	R	3.5	35.0 (1)		
		eS	05 15 13	T	3.5	28.0 (1)		
		ePKKP	05 22 17	Z	1.2	3.5 (0)		
1	FM	eP	05 04 58.1	Z	0.8	8.7 (0)	92.0	4.79
		epP	05 05 47	Z	1.3	76.0 (0)		
		e	05 08 09	Z	1.3	38.0 (0)		
		ePP	05 08 40	Z	1.4	94.0 (0)		
		ePKKP	05 22 14	Z	0.7	7.9 (0)		
1	LC	eP	05 05 08.5	Z	1.0	25.0 (0)	94.0	5.30
		epP	05 06 08	Z	1.7	60.0 (0)		
		e	05 07 56	Z	1.8	47.0 (0)		
		ePP	05 08 57	Z	1.4	15.0 (1)		
		eSKS	05 15 20	R	3.1	49.0 (1)		
		eS	05 16 02	R	4.0	34.0 (1)		
		ePKKP	05 22 08	Z	1.5	18.0 (0)		
		eP'P'	05 30 20	Z	1.4	12.0 (0)		
1	SJ	eP	05 05 35.9	Z	1.0	9.9 (0)	101.0	5.30
		e	05 08 12	Z	2.0	12.0 (1)		
		ePP	05 09 45	Z	1.6	17.0 (1)		
		ePKKP	05 21 53	Z	0.8	12.0 (0)		
1	AR	eP'	05 10 17.8	Z	0.8	31.0 (0)	111.0	
		ePP	05 10 53	Z	1.4	14.0 (1)		
		ePKKP	05 21 29	Z	1.1	63.0 (0)		
1	DH	eP'	05 10 37.2	Z	0.8	69.0 (0)	120.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	05 12 04	Z	1.8	33.0 (1)		5.48
								AVG.
1	LC	eP	05 01 58.3	Z	0.8	1.2 (0)		
1	AR	eP	05 09 18.7	Z	0.8	24.0 (0)		
1	DH	eP	05 10 20.7	Z	0.6	8.2 (0)		
1	MN	eP	05 35 36.0	Z	0.7	1.3 (0)		
1	LC	eP	05 37 00.0	Z	1.0	2.5 (0)		
1	LC	eP	06 51 44.1	Z	1.0	3.7 (0)		
1			07 42 07.4			51.2 N 180.0 H =033 KM		RAT IS., ALEUTIAN IS.
1	MV	eP	07 50 01.0	Z	0.9	5.1 (0)	42.0	4.39
1	WI	eP	07 50 07.1	Z	0.9	3.5 (0)	43.0	4.09
1	MN	eP	07 50 18.5	Z	0.9	3.4 (0)	45.0	4.21
1	LC	eP	07 51 41.1	Z	1.0	4.9 (0)	55.0	4.49
								AVG.
								4.30
1			07 51 08.2			51.3 N 179.9 W H =042 KM MAG		RAT IS., ALEUTIAN IS. 6.50- PAS
1	MV	eP	07 58 56.4	Z	0.8	56.0 (0)	42.0	5.39
		eP	07 58 58	LZ	13	86.0 (1)		
		eSCP	08 04 38	Z	1.0	6.6 (0)		
		eS	08 05 14	R	2.5	12.0 (1)		
		eS	08 05 17	LR	27	30.0 (2)		
		eS	08 05 17	LT	24	35.0 (2)		
		eL	08 08 44	LT	24	68.0 (2)		
		eLR	08 10 49	LZ	24	39.0 (2)		
		eL	08 12 25	LZ	23	75.0 (2)		
		eL	08 12 25	LR	23	40.0 (2)		
		eL	08 12 25	LT	17	35.0 (2)		
1	WI	eP	07 59 05.6	Z	0.7	48.0 (0)	43.0	5.34
		eP	07 59 07	LZ	13	93.0 (1)		
		eSCP	08 04 36	Z	1.3	11.0 (0)		
		eS	08 05 30	R	5.0	13.0 (2)		
		eS	08 05 30	T	5.0	88.0 (1)		
		eS	08 05 33	LR	22	21.0 (2)		
		eS	08 05 33	LT	25	25.0 (2)		
		eSCS	08 08 59	R	4.0	34.0 (1)		
		eSCS	08 09 12	LR	20	50.0 (2)		
		eLR	08 11 50	LZ	24	10.0 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	tP	07 59 16.8C	Z	1.0	50.0 (0)	44.0	5.20
		eP	07 59 19	LZ	15	53.0 (1)		
		eSCP	08 04 46	Z	1.5	16.0 (0)		
		eS	08 05 50	R	3.5	34.0 (1)		
		eS	08 05 50	T	2.5	11.0 (1)		
		eS	08 05 52	LT	27	99.9 (9)		
		eSCS	08 09 13	T	4.4	50.0 (1)		
		eSCS	08 09 14	LT	999.9	99.9 (9)		
		eLR	08 11 34	LZ	999.9	99.9 (9)		
		1	TF	eP	07 59 23.9	Z		
eP	07 59 24			LZ	13	12.0 (2)		
eS	08 06 07			LR	23	41.0 (2)		
eS	08 06 07			LT	23	19.0 (2)		
eLQ	08 09 47			LT	28	47.0 (2)		
eLR	08 11 57			LZ	24	65.0 (2)		
eL	08 13 13			LZ	24	63.0 (2)		
eL	08 13 13			LR	24	29.0 (2)		
eL	08 13 13			LT	21	52.0 (2)		
1	FM			eP	07 59 41.5	Z	1.0	98.0 (0)
		eP	07 59 42	LZ	16	44.0 (1)		
		eS	08 06 39	LR	25	31.0 (2)		
		eSS	08 10 02	LT	18	63.0 (2)		
		eLQ	08 12 00	LR	30	74.0 (2)		
		eLR	08 14 08	LZ	25	71.0 (2)		
		eL	08 16 05	LZ	24	83.0 (2)		
		eL	08 16 05	LR	23	38.0 (2)		
		eL	08 16 05	LT	23	85.0 (2)		
		1	CP	eP	07 59 53.0	Z	0.7	23.0 (0)
eP	07 59 55			LZ	15	64.0 (1)		
eSCP	08 05 06			Z	1.3	11.0 (0)		
eS	08 06 58			LR	19	17.0 (2)		
eS	08 06 58			LT	26	31.0 (2)		
eSCS	08 09 46			LT	19	23.0 (2)		
eLQ	08 14 01			LT	26	36.0 (2)		
eLR	08 16 21			LZ	18	45.0 (2)		
eL	08 19 20			LZ	18	48.0 (2)		
eL	08 19 20			LR	17	27.0 (2)		
1	LC	eL	08 19 20	LT	18	39.0 (2)	55.0	5.84
		eP	08 00 40.0	Z	1.0	11.0 (1)		
		eS	08 08 24	R	3.0	14.0 (1)		
		eS	08 08 24	T	3.0	72.0 (0)		
		eS	08 08 28	LR	19	82.0 (1)		
		eS	08 08 28	LT	21	28.0 (2)		
		e	08 09 06	Z	3.0	11.0 (1)		
		eSCS	08 10 31	LT	22	83.0 (1)		
		eSS	08 12 25	LR	23	15.0 (2)		
		eLQ	08 14 50	LT	30	61.0 (2)		
eLR	08 18 12	LZ	28	45.0 (2)				
eL	08 20 30	LZ	25	31.0 (2)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	AR	eL	08 20 30	LR	23	49.0 (2)	57.0	5.64
		eL	08 20 30	LT	20	20.0 (2)		
		eP	08 00 51.9	Z	0.8	55.0 (0)		
		eP	08 00 53	LZ	21	48.0 (1)		
		ePCP	08 01 34	Z	0.8	48.0 (0)		
		eS	08 08 45	LR	24	41.0 (2)		
		eSCS	08 10 42	LR	25	32.0 (2)		
		eLQ	08 17 16	LR	34	12.0 (3)		
		eLR	08 20 55	LZ	26	47.0 (2)		
		1	SJ	eP	08 01 40.0	Z		
eP	08 01 40			LZ	13	21.0 (2)		
eS	08 10 09			R	3.0	36.0 (1)		
eS	08 10 13			LR	22	18.0 (2)		
eS	08 10 13			LT	22	47.0 (2)		
eSCS	08 11 35			LT	24	26.0 (2)		
eSS	08 14 42			LT	20	21.0 (2)		
e	08 18 03			LT	23	52.0 (2)		
eLQ	08 19 43			LT	30	12.0 (3)		
eLR	08 22 47			LZ	23	61.0 (2)		
1	DH	eP	08 01 53.2	Z	0.8	81.0 (0)	66.0	5.88
		eS	08 10 45	LR	20	67.0 (1)		
		eS	08 10 45	LT	20	27.0 (2)		
		eSCS	08 11 44	LR	22	48.0 (1)		
		eSS	08 15 32	LT	23	14.0 (2)		
		e	08 17 55	LR	25	62.0 (1)		
		eLQ	08 21 08	LR	31	28.0 (2)		
		eLR	08 24 10	LZ	28	58.0 (2)		
		eL	08 32 10	LZ	20	12.0 (2)		
		eL	08 32 10	LR	20	12.0 (3)		
eL	08 32 10	LT	16	21.0 (3)				
							AVG.	5.55
1	08 47 06.9		51.4 N 179.8 W	RAT IS., ALEUTIAN IS.				
							H =029 KM	
1	MV	eP	08 54 55.0	Z	0.7	1.6 (0)	42.0	3.89
1	WI	eP	08 55 06.0	Z	0.5	2.6 (0)	43.0	4.22
1	MN	eP	08 55 16.1	Z	0.9	2.7 (0)	44.0	3.98
1	CP	eP	08 55 52.4	Z	0.5	1.6 (0)	49.0	4.93
1	LC	eP	08 56 37.1	Z	1.0	6.2 (0)	55.0	4.59
							AVG.	4.32
1	LC	eP	14 14 19.6	Z	1.0	12.0 (0)		
1	15 01 04.6		25.8 N 065.3 E	NEAR WEST PAKISTAN				
							H =046 KM	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	eP	15 19 45.2	Z	0.8	2.1 (0)	116.0	
		ePP	15 20 55	LZ	20	11.0 (1)		
		ePS	15 30 33	LT	27	52.0 (2)		
		eSPP	15 31 43	LZ	23	23.0 (1)		
		eLR	16 03 44	LZ	29	69.0 (1)		
		eL	16 16 08	LZ	20	14.0 (2)		
		eL	16 16 08	LR	21	12.0 (2)		
		eL	16 16 08	LT	19	53.0 (1)		
1	LC	eP	15 19 56.0	Z	0.8	1.2 (0)	121.0	
		ePP	15 21 25	Z	1.3	9.5 (0)		
1	SJ	eP	15 20 02.8	Z	0.8	12.0 (0)	124.0	
1	WI	ePP	15 20 39	Z	1.2	11.0 (0)	113.0	
1	TF	eP	15 54 13.6	Z	0.3	24.0 (0)	1.8	
1	CP	eP	15 54 16.5	Z	0.5	22.0 (0)	2.0	
1	TF	eS	15 54 38	T	0.5	94.0 (0)	1.8	
1	CP	eS	15 54 43	T	0.5	32.0 (0)	2.0	
1	MN	eP	15 55 04.6	Z	0.8	3.2 (0)		
1	LC	eLR	16 14 40	LZ	23	18.0 (2)		
1	LC	eP	16 15 40.9	Z	0.5	16.0 (0)	1.8	
		eS	16 16 05	R	0.5	24.0 (0)		
1	19 20 38.5		35.6 N 050.0 E				NORTHWEST IRAN	
			H =021 KM				MAG 7.75-	BRK
1	DH	tP	19 33 27.0C	Z	1.0	51.0 (1)	88.0	6.74
		eP	19 33 29	LZ	15	10.0 (3)		
		ePP	19 36 50	Z	1.6	27.0 (1)		
		ePP	19 36 51	LZ	15	10.0 (3)		
		eSKS	19 43 58	LR	999.9	99.9 (9)		
		eP'P'	19 59 20	Z	1.9	11.0 (1)		
1	AR	eP	19 33 41.4	Z	1.0	26.0 (1)	91.0	6.49
		eP	19 33 43	LZ	16	85.0 (2)		
		ePP	19 37 11	LZ	15	65.0 (2)		
		eS	19 44 41	T	4.0	90.0 (1)		
1	WI	tP	19 34 37.0C	Z	2.7	22.0 (1)	103.0	6.43
		tP	19 34 39 C	LZ	15	51.0 (2)		
		e	19 38 31	Z	2.0	29.0 (1)		
		ePP	19 38 51	Z	2.0	56.0 (1)		
		ePP	19 38 52	LZ	16	77.0 (2)		
		eSKS	19 45 16	R	4.0	89.0 (1)		
		eSKS	19 45 25	LR	16	43.0 (2)		
		eS	19 46 07	R	4.0	89.0 (1)		
		ePPS	19 48 45	R	5.5	33.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	FM	eP	19 34 43.3	Z	1.1	12.0 (0)	104.0	5.66
		eP	19 34 45	LZ	15	29.0 (2)		
		e	19 38 02	Z	1.2	15.0 (0)		
		ePP	19 38 52	Z	2.5	62.0 (1)		
		ePP	19 38 58	LZ	15	93.0 (2)		
		e	19 40 10	LZ	16	39.0 (2)		
		eSKS	19 45 38	LT	15	86.0 (2)		
		ePKKP	19 50 32	Z	1.2	30.0 (0)		
		eP'P'	19 58 50	Z	1.9	55.0 (0)		
1	MN	ePD	19 34 51.0	Z	2.4	36.0 (0)	105.0	5.89
		ePP	19 39 12	Z	2.6	44.0 (1)		
		eSKP	19 42 39	Z	3.3	57.0 (1)		
		eSKS	19 45 41	T	4.4	10.0 (2)		
		ePKKP	19 50 21	Z	1.5	39.0 (1)		
		eP'P'	19 58 47	Z	2.3	68.0 (0)		
1	TF	ePD	19 35 08	LZ	15	40.0 (2)	109.0	
		ePP	19 39 30	Z	2.5	52.0 (1)		
		ePP	19 39 34	LZ	14	24.0 (3)		
		ePS	19 48 56	LT	999.9	99.9 (9)		
1	SJ	ePD	19 35 15	LZ	14	60.0 (1)	111.0	
		eP	19 39 12.0	Z	1.3	57.0 (0)		
		ePP	19 39 45	LZ	999.9	99.9 (9)		
		ePPP	19 41 58	LZ	14	18.0 (3)		
		eSKS	19 46 00	LT	15	13.0 (3)		
		e	19 47 49	LR	999.9	99.9 (9)		
		ePS	19 49 03	LR	16	14.0 (3)		
		ePKKP	19 50 13	Z	1.5	20.0 (1)		
1	CP	ePD	19 35 17	LZ	15	32.0 (2)	111.0	
		e	19 38 44	Z	1.9	56.0 (0)		
		ePP	19 39 43	LZ	14	16.0 (3)		
		ePP	19 39 45	Z	3.0	97.0 (1)		
		ePS	19 49 25	T	6.7	37.0 (2)		
		ePKKP	19 50 24	Z	1.0	13.0 (0)		
		ePSS	19 55 33	LR	19	16.0 (3)		
		e	20 02 50	LT	34	11.0 (3)		
		eL	20 06 20	LT	999.9	99.9 (9)		
							AVG.	6.24
1	MN	eP	20 08 16.1	Z	0.3	10.0 (0)	0.9	
		eS	20 08 28	T	0.4	31.0 (0)		
1	20 27 37.2		35.3 N 049.6 E				NORTHWEST IRAN	
			H =033 KM					
1	DH	eP	20 40 24.5	Z	0.9	15.0 (0)	88.0	5.22

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	eP	22 16 01.3	Z	1.1	4.3 (0)		
1	23 43 24.9		79.0 N 002.7 E			SVALBARD REGION		
			H = 019 KM					
1	MN	eP	23 53 20.3	Z	0.7	1.7 (0)	58.0	4.19
2	03 02 29.3		51.3 N 179.8 W			RAT IS., ALEUTIAN ISLANDS		
			H = 026 KM					
2	MV	eP	03 10 18.2	Z	0.6	7.8 (0)	42.0	4.64
		ePCP	03 12 14	Z	0.7	5.1 (0)		
		eL	03 22 35	LZ	22	30.0 (1)		
		eL	03 23 42	LR	22	18.0 (1)		
		eL	03 23 42	LZ	20	26.0 (1)		
2	WI	eP	03 10 28.0	Z	0.8	30.0 (0)	43.0	5.07
		eL	03 23 15	LZ	25	45.0 (1)		
		eL	03 25 02	LZ	20	49.0 (1)		
		eL	03 25 02	LR	20	36.0 (1)		
		eL	03 25 02	LT	22	26.0 (1)		
2	MN	eP	03 10 38.3	Z	1.1	11.0 (0)	44.0	4.50
2	TF	eP	03 10 45.8	Z	0.9	33.0 (0)	45.0	5.21
2	FM	eP	03 11 03.7	Z	1.2	66.0 (0)	47.0	5.56
		eL	03 25 50	LZ	27	27.0 (1)		
		eL	03 26 42	LZ	25	25.0 (1)		
		eL	03 26 42	LT	25	53.0 (1)		
2	CP	eP	03 11 15.0	Z	0.8	16.0 (0)	49.0	5.08
		eL	03 28 30	LZ	20	55.0 (1)		
2	AR	eP	03 12 14.6	Z	0.7	27.0 (0)	57.0	5.39
		eL	03 33 30	LZ	25	24.0 (1)		
2	SJ	eP	03 13 01.7	Z	1.0	40.0 (0)	64.0	5.52
2	DH	eP	03 13 16.5	Z	0.6	25.0 (0)	66.0	5.54
		eL	03 37 07	LZ	35	53.0 (1)		
		eL	03 38 20	LZ	20	73.0 (1)		
		eL	03 38 20	LR	20	56.0 (1)		
		eL	03 38 20	LT	20	45.0 (1)		
						AVG.		5.17
2	05 33 05.4		27.5 N 127.0 E			RYUKYU ISLANDS		
			H = 058 KM					
2	MV	eP	05 45 50.5	Z	1.5	22.0 (0)	89.0	5.11

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	AR	eL	06 26 25	LZ	30	34.0 (1)	100.0	
2	DH	eL	06 29 55	LZ	25	30.0 (1)	108.0	
		eL	06 40 12	LZ	20	58.0 (1)		
		eL	06 40 12	LR	15	37.0 (1)		
		eL	06 40 12	LT	20	60.0 (1)		
						AVG.		5.11
2	07 12 02.4		35.6 N 049.2 E			NORTHWEST IRAN		
			H = 033 KM					
2	08 23 28.5		34.2 N 139.5 E			NEAR HONSHU, JAPAN		
			H = 033 KM					
2	AR	eL	09 26 30	LZ	30	23.0 (1)		
2	MV	eP	14 40 48.4	Z	0.5	2.5 (0)	1.8	
		eS	14 41 12	R	0.6	11.0 (0)		
2	WI	eP	14 56 54.0	Z	1.2	9.4 (0)		
2	LC	eP	14 59 29.0	Z	1.0	4.9 (0)		
2	WI	eL	15 20 25	LZ	25	91.0 (1)		
2	15 21 55.0		10.2 S 120.3 E			SOEMBA ISLAND REGION		
			H = 033 KM					
2	WI	eP†	15 40 56.5	Z	1.0	3.4 (0)	122.0	
		ePP	15 42 16	Z	1.2	7.5 (0)		
2	DH	eP†1	15 41 33.5	Z	0.8	56.0 (0)	145.0	
2	LC	eSKP	15 44 33	Z	1.0	6.2 (0)	132.0	
2	WI	eL	15 22 12	LZ	25	91.0 (1)		
2	WI	eL	15 22 12	LT	25	15.0 (2)		
2	DH	eP	15 58 28.5	Z	0.7	15.0 (0)		
2	16 13 18.1		22.4 S 068.1 W			CHILE/BOLIVIA BORDER		
			H = 170 KM					
2	MN	eP	16 24 52.8	Z	1.0	3.4 (0)	77.0	4.06
2	WI	eP	16 25 02.0	Z	0.7	4.6 (0)	79.0	4.35
						AVG.		4.21

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	TF	eL	16 18 42	LZ	25	65.0 (1)		
2	CP	eL	16 21 10	LZ	25	12.0 (2)		
2	TF	eL	16 21 45	LZ	22	14.0 (2)		
2	TF	eL	16 21 45	LT	25	90.0 (1)		
2	TF	eL	16 21 45	LR	24	10.0 (2)		
2	CP	eL	16 25 50	LZ	20	22.0 (2)		
2	CP	eL	16 25 50	LT	20	98.0 (1)		
2	LC	eL	16 25 55	LZ	27	64.0 (1)		
2	LC	eL	16 29 32	LZ	20	85.0 (1)		
2	LC	eL	16 29 32	LR	22	68.0 (1)		
2	LC	eL	16 29 32	LT	25	22.0 (1)		
2	SJ	eL	16 30 25	LZ	30	55.0 (1)		
2	AR	eL	16 30 35	LZ	25	19.0 (1)		
2	SJ	eL	16 37 55	LZ	22	66.0 (1)		
2	SJ	eL	16 37 55	LR	25	18.0 (2)		
2	SJ	eL	16 37 55	LT	20	11.0 (2)		
2	FM	eL	17 19 05	LZ	20	25.0 (1)		
2	FM	eL	17 23 20	LZ	20	35.0 (1)		
2	FM	eL	17 23 20	LR	22	42.0 (1)		
2	19 52 06.7		71.2 N 012.7 W				JAN MAYEN ISLAND REGION	
			H =033 KM					
2	LC	eP	20 02 20.0	Z	0.8	1.5 (0)	61.0	4.14
2	20 16 41.7		38.5 S 179.8 W				NORTH ISLAND, NEW ZEALAND	
			H =033 KM					
2	MN	eL	20 55 55	LT	30	41.0 (1)	97.0	
2	TF	eL	20 58 40	LZ	22	44.0 (1)	93.0	
		eL	21 01 30	LZ	20	55.0 (1)		
		eL	21 01 30	LR	22	45.0 (1)		
2	20 57 33.4		33.9 N 138.7 E				NEAR HONSHU, JAPAN	
			H =033 KM					
2	DH	eL	21 17 10	LZ	22	19.0 (1)		
2	DH	eL	21 22 27	LZ	18	12.0 (1)		
2	DH	eL	21 22 27	LR	15	29.0 (1)		
2	LC	eP	22 00 00.5	Z	0.8	1.5 (0)		
2	LC	e	22 01 11	Z	1.0	3.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	MN	eP	22 59 38.0	Z	0.5	0.6 (0)		
2	MN	e	22 59 49	Z	0.7	2.1 (0)		
2	23 56 53.6		07.0 S 124.8 E				BANDA SEA	
			H =470 KM					
3	SJ	eP	04 31 52.3	Z	1.0	50.0 (0)		
3	LC	eP	04 52 30.0	Z	1.0	4.9 (0)		
3	WI	eP	04 52 31.6	Z	0.7	2.9 (0)		
3	CP	eP	06 41 47.1	Z	999.9	99.9 (9)		1.5
		eS	06 42 06	T	999.9	99.9 (9)		
3	MN	eP	07 38 32.0	Z	0.6	1.1 (0)		
3	LC	eP	08 07 52.7	Z	1.5	8.1 (0)		
3	WI	eP	08 07 54.0	Z	1.0	4.6 (0)		
3	MN	eP	08 08 31.1	Z	0.8	1.6 (0)		
3	MN	e	08 08 43	Z	1.2	8.3 (0)		
3	CP	eP	09 12 42.5	Z	999.9	99.9 (9)		0.1
		eS	09 12 46	T	999.9	99.9 (9)		
3	LC	eP	09 30 18.0	Z	1.0	3.7 (0)		
3	MN	eP	09 32 07.3	Z	0.9	2.1 (0)		
3	WI	eP	09 32 23.1	Z	0.5	1.7 (0)		
3	MV	eP	10 56 23.6	Z	0.3	2.2 (0)		
3	MN	eP	10 56 39.4	Z	0.5	0.6 (0)		3.3
		eS	10 57 24	R	999.9	99.9 (9)		
3	CP	eP	11 34 18.5	Z	0.5	2.1 (0)		
3	WI	eP	11 36 30	LZ	30	63.0 (1)		
3	WI	e	11 40 08	LZ	26	37.0 (1)		
3	16 50 38.2		34.5 N 139.4 E				E. COAST OF HONSHU, JAPAN	
			H =033 KM					
3	WI	eP	17 02 34.0	Z	1.0	2.3 (0)	78.0	4.16
		e	17 03 11	Z	1.0	2.3 (0)		
3	MN	eP	17 02 40.6	Z	1.3	3.5 (0)	79.0	4.17
							AVG.	4.17
3	20 36 37.6		34.0 N 139.0 E				NEAR HONSHU, JAPAN	
			H =049 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	LC	eP	21 20 28.0	Z	1.0	4.9 (0)		
3	MN	eP	21 22 04.5	Z	1.1	3.3 (0)		
3	22 06 08.9		56.6 S 027.2 W				SANDWICH ISLANDS	
			H = 033 KM					
3	WI	eP	22 08 41	LZ	40	15.0 (2)		
3	WI	eP	22 12 45.9	Z	1.0	2.3 (0)		
3	MV	eP	22 14 25.7	Z	1.0	5.1 (0)		
3	MN	eP	22 14 58.6	Z	1.0	2.5 (0)		
3	LC	eP	22 17 20.7	Z	1.0	4.9 (0)		
3	MN	eP	22 17 54	LZ	21	23.0 (1)		
3	MN	e	22 24 55	Z	0.5	0.6 (0)		
3	MN	e	22 32 16	LR	36	35.0 (1)		
3	MN	eP	23 51 52.0	Z	999.9	99.9 (9)	0.8	
		eS	23 52 03	R	0.4	6.9 (0)		
4	LC	eP	03 53 28.6	Z	1.1	6.1 (0)		
4	MN	eP	03 54 15.3	Z	1.0	4.9 (0)		
4	WI	eP	03 54 29.5	Z	1.0	6.9 (0)		
4	TF	e	04 14 15	LR	28	57.0 (1)		
4	TF	eL	04 17 51	LZ	21	30.0 (1)		
4	DH	eL	04 23 06	LZ	24	33.0 (1)		
4	DH	eL	04 25 45	LZ	20	34.0 (1)		
4	DH	eL	04 25 45	LT	20	68.0 (1)		
4	WI	eP	07 08 18.6	Z	0.5	5.2 (0)	4.8	
		eS	07 09 17	Z	0.6	15.0 (0)		
4	08 27 48.8		32.5 S 112.3 W				S. OF EASTER IS. REGION	
			H = 033 KM					
4	CP	eP	08 38 25.4	Z	1.0	4.3 (0)	65.0	4.53
4	LC	eP	08 38 25.7	Z	1.3	7.1 (0)	65.0	4.64
4	MN	eP	08 39 03.8	Z	1.2	18.0 (0)	71.0	4.98
		eL	09 02 15	LZ	20	14.0 (1)		
		eL	09 02 55	LZ	22	14.0 (1)		
		eL	09 02 55	LR	23	14.0 (1)		
		eL	09 02 55	LT	21	95.0 (0)		
4	FM	eP	08 39 06.7	Z	1.2	16.0 (0)	71.0	4.93
4	MV	eP	08 39 09.2	Z	1.3	6.5 (0)	72.0	4.50
4	WI	eP	08 39 20.8	Z	1.2	12.0 (0)	74.0	4.74
							AVG.	4.72

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	13 30 10.9		35.6 N 049.7 E				NORTHWEST IRAN	
			H = 024 KM					
4	DH	eP	13 42 55.8	Z	1.0	50.0 (0)	87.0	5.65
4	AR	eP	13 43 12.0	Z	1.0	29.0 (0)	91.0	5.46
4	MN	eL	14 21 32	LR	35	44.0 (1)	106.0	
		eL	14 27 35	LR	25	44.0 (1)		
		eL	14 27 35	LT	23	13.0 (1)		
							AVG.	5.56
4	15 11 44.1		36.5 N 009.0 W				COAST OF PORTUGAL	
			H = 033 KM					
4	15 17 42.4		15.0 N 091.7 W				MEXICO-GUATEMALA BORDER	
			H = 217 KM					
4	SJ	eP	15 20 50.2	Z	0.8	29.0 (1)	14.0	5.74
4	LC	eP	15 22 18.4	Z	0.6	80.0 (0)	22.0	5.38
		epP	15 22 56	Z	0.7	79.0 (0)		
		e	15 23 11	Z	1.0	89.0 (0)		
		eSCP	15 29 36	Z	1.2	17.0 (0)		
4	CP	†P	15 23 21.1D	Z	0.7	24.0 (0)	29.0	4.99
		epP	15 23 59	Z	0.8	17.0 (0)		
		ePCP	15 26 30	Z	0.8	8.4 (0)		
		eSCP	15 29 55	Z	1.4	24.0 (0)		
4	FM	eP	15 23 33.8	Z	1.0	8.1 (0)	30.0	4.38
		epP	15 24 12.0	Z	0.8	12.0 (0)		
4	AR	eP	15 23 37.2	Z	0.7	43.0 (0)	31.0	5.25
		eSCP	15 29 59	Z	0.8	20.0 (0)		
4	DH	†P	15 23 40.1C	Z	0.9	26.0 (1)	31.0	5.92
4	TF	eP	15 23 54.7	Z	1.0	25.0 (0)	33.0	4.78
		e	15 32 53	LR	30	85.0 (1)		
4	MN	eP	15 24 00.6	Z	1.0	28.0 (0)	33.0	4.83
		epP	15 24 34	Z	1.0	26.0 (0)		
		ePCP	15 26 41	Z	0.6	4.1 (0)		
		eSCP	15 30 09	Z	1.0	11.0 (0)		
		eSCS	15 34 12	†	2.0	31.0 (0)		
4	WI	†P	15 24 12.6D	Z	0.7	40.0 (0)	35.0	5.14
		epP	15 24 47	Z	0.8	46.0 (0)		
		eSCP	15 30 14	Z	1.2	11.0 (0)		
4	MV	eP	15 24 20.3	Z	1.3	13.0 (0)	36.0	4.48
		ePCP	15 26 48	Z	0.8	4.0 (0)		
		eSCP	15 30 18	Z	1.0	6.8 (0)		
							AVG.	5.09

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP	15 19 30.4	Z	0.5	0.4 (0)		
4	LC	eL	15 20 50	R	0.7	5.1 (0)		
4	LC	e	15 26 10	LT	23	34.0 (1)		
4	LC	e	15 26 54	LT	27	99.0 (1)		
4 17 17 27.6 41.0 N 124.0 W NEAR NORTHERN CALIFORNIA H =048 KM MAG 4.75-5.00 PAS								
4	MV	tP	17 18 10.3C	Z	0.6	16.0 (1)	2.5	
		eP	17 18 12	LZ	16	61.0 (1)		
		eLQ	17 18 51	LR	999.9	99.9 (9)		
4	WI	eP	17 18 40.5	Z	0.5	31.0 (0)	5.0	4.99
		eLQ	17 20 15	LR	999.9	99.9 (9)		
4	MN	tP	17 18 45.3C	Z	0.6	15.0 (0)	5.3	4.61
4	TF	eP	17 19 04.0	Z	0.7	10.0 (1)	7.0	5.70
		e	17 19 15	LT	24	31.0 (2)		
		eLQ	17 20 50	LR	999.9	99.9 (9)		
4	FM	eP	17 19 42.8	Z	1.1	62.0 (0)	9.0	5.66
		eP	17 19 44	LZ	17			
		eLQ	17 22 07	LR	23	25.0 (2)		
		eL	17 22 31	T	2.5	62.0 (1)		
		eL	17 23 50	LZ	999.9	99.9 (9)		
		eL	17 23 50	LR	17	29.0 (2)		
		eL	17 23 50	LT	15	61.0 (2)		
4	CP	eP	17 19 55.9	Z	0.8	14.0 (0)	10.0	5.19
		eLQ	17 22 33	LT	20	35.0 (2)		
		eL	17 22 51	T	2.0	16.0 (1)		
		eL	17 24 55	LZ	999.9	99.9 (9)		
		eL	17 24 55	LR	18	55.0 (2)		
		eL	17 24 55	LT	16	67.0 (2)		
4	LC	eP	17 21 18.7	Z	1.0	27.0 (0)	17.0	4.38
		eP	17 21 20	LZ	16	12.0 (2)		
		eS	17 24 30	LT	20	25.0 (1)		
		eLQ	17 25 38	LT	23	86.0 (2)		
		eL	17 26 19	Z	4.0	50.0 (1)		
		eLR	17 27 08	LZ	17	62.0 (2)		
4	SJ	eP	17 22 52.7	Z	1.0	14.0 (1)	25.0	5.50
		eP	17 22 53	LZ	15	53.0 (1)		
		eS	17 27 21	LR	20	19.0 (1)		
		eLQ	17 29 53	LT	20	99.9 (9)		
4	AR	eP	17 23 01.6	Z	1.2	74.0 (0)	26.0	5.14
4	DH	eP	17 24 29.2	Z	1.0	11.0 (1)	36.0	5.69
		eLQ	17 35 52	LT	999.9	99.9 (9)		
							AVG.	5.21
4	MV	eP	17 32 42.0	Z	0.5	3.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	MV	e	17 33 27	Z	0.5	48.0 (0)		
4	WI	eP	17 33 38.0	Z	0.4	3.1 (0)	3.7	
		e	17 34 15	Z	1.0	41.0 (0)		
		eS	17 35 24	R	1.0	62.0 (0)		
4	CP	eP	19 13 20.9	Z	0.3	10.0 (0)	1.6	
		eS	19 13 43	T	0.3	58.0 (0)		
4 19 28 37.0 15.5 S 167.7 E NEW HEBRIDES ISLANDS H =133 KM								
4	MN	eP	19 41 12.7	Z	1.2	3.8 (0)	88.0	4.23
4	WI	eP	19 41 20.0	Z	1.1	2.8 (0)	89.0	4.25
							AVG.	4.24
4 21 46 00.7 24.0 N 046.4 W NORTH ATLANTIC OCEAN H =039 KM								
4	LC	eP	21 55 13.5	Z	1.0	4.9 (0)	53.0	4.43
4	WI	eP	21 56 10.5	Z	1.2	11.0 (0)	61.0	4.82
4	MN	eP	21 56 15.7	Z	1.0	3.3 (0)	61.0	4.38
							AVG.	4.54
4 22 59 19.4 39.9 N 044.2 E TURKEY-ARMENIA BORDER H =033 KM								
4	DH	eP	23 11 34.5	Z	0.9	7.7 (0)	81.0	4.67
		eL	23 39 10	LZ	30	10.0 (2)		
		eL	23 48 20	LZ	22	16.0 (2)		
		eL	23 48 20	LR	22	55.0 (1)		
		eL	23 48 20	LT	23	16.0 (2)		
4	WI	ePP	23 16 37	Z	2.0	22.0 (0)	97.0	
		eL	23 50 10	LR	27	59.0 (1)		
		eL	23 59 45	LZ	20	56.0 (1)		
		eL	23 59 45	LR	19	78.0 (1)		
		eL	23 59 45	LT	25	46.0 (1)		
4	MN	ePP	23 17 00.0	Z	1.1	2.8 (0)	100.0	
		eL	23 47 12	LR	33	45.0 (1)		
		eL	23 57 00	LZ	28	53.0 (1)		
		eL	23 57 00	LR	22	45.0 (1)		
		eL	23 57 00	LT	27	53.0 (1)		
4	LC	ePP	23 17 32	Z	1.0	2.5 (0)	105.0	
		e	23 36 20	LT	29	38.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	23 39 40	LT	20	34.0 (1)		
		eL	23 51 05	LZ	32	82.0 (1)		
5	LC	eL	00 00 40	LZ	21	13.0 (2)	105.0	
		eL	00 00 40	LR	22	95.0 (1)		
		eL	00 00 40	LT	22	10.0 (2)		
4	AR	eLQ	23 37 05	LT	40	22.0 (2)	85.0	
		eLR	23 43 10	LZ	32	20.0 (2)		
		eL	23 48 15	LZ	24	17.0 (2)		
		eL	23 48 15	LR	24	90.0 (1)		
		eL	23 48 15	LT	22	53.0 (1)		
4	FM	eL	23 46 23	LZ	35		99.0	
		eL	23 59 51	LZ	19			
		eL	23 59 51	LR	18	35.0 (1)		
		eL	23 59 51	LT	22	96.0 (1)		
							AVG.	4.67
5	MV	eP	04 38 22.7	Z	0.5	4.9 (0)		
5	LC	eP	05 36 04.5	Z	0.7	4.3 (0)		
5			06 39 16.9				06.6 N 073.4 W	COLOMBIA
							H = 200 KM	
5	LC	eP	06 46 35.7	Z	0.7	6.2 (0)	40.0	4.25
5	CP	eP	08 25 11.3	Z	0.3	1.9 (0)	0.6	
		e	08 25 20	Z	0.3	21.0 (0)		
		eS	08 25 29	T	0.3	38.0 (0)		
5	DH	eP	08 31 50.8	Z	1.0	19.0 (0)		
5			08 35 56.3				52.7 N 159.1 E	E. COAST OF KAMCHATKA
							H = 101 KM	
5	MV	eP	08 45 13.5	Z	0.7	22.0 (0)	55.0	5.29
		ePCP	08 46 16	Z	0.7	3.4 (0)		
5	WI	eP	08 45 19.5	Z	0.8	26.0 (0)	55.0	5.31
5	MN	eP	08 45 30.5	Z	1.0	21.0 (0)	57.0	5.12
5	TF	eP	08 45 39.2	Z	1.0	17.0 (0)	58.0	5.03
5	FM	eP	08 45 50.2	Z	0.7	10.0 (0)	60.0	4.95
5	CP	eP	08 46 05.1	Z	0.8	72.0 (0)	62.0	5.75
5	LC	eP	08 46 43.3	Z	1.0	9.8 (0)	68.0	4.59
5	DH	eP	08 47 25.0	Z	0.7	15.0 (0)	75.0	4.93

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	SJ	eP	08 47 34.0	Z	0.7	20.0 (0)	76.0	5.06
							AVG.	5.11
5	LC	eP	08 37 55.2	Z	0.8	9.3 (0)		
5	LC	eP	08 44 51.3	Z	0.7	1.2 (0)		
5	MN	eP	10 09 05.0	Z	0.7	1.2 (0)		
5	WI	eP	10 09 09.0	Z	0.8	2.2 (0)		
5	MV	eP	10 58 31.8	Z	1.0	5.0 (0)		
5	MN	eP	10 58 44.7	Z	0.5	1.2 (0)		
5			11 17 06.7				03.3 S 139.9 E	NEW GUINEA
							H = 110 KM	
5	MV	eP	11 30 35.3	Z	1.0	5.0 (0)	99.0	5.08
		ePP	11 34 37	Z	1.2	8.2 (0)		
5	MN	eP	11 30 47.0	Z	1.0	3.3 (0)	102.0	5.01
		ePP	11 34 55	Z	1.1	4.2 (0)		
5	WI	eP	11 30 50.3	Z	1.0	6.9 (0)	102.0	5.33
		ePP	11 34 58	Z	1.5	19.0 (0)		
5	TF	eL	12 02 16	LZ	30	36.0 (1)	100.0	
							AVG.	5.14
5	LC	eP	11 44 35.5	Z	0.8	5.4 (0)		
5	MN	eP	11 46 14.2	Z	0.8	3.6 (0)		
5	WI	eP	11 46 27.3	Z	0.8	4.3 (0)		
5	LC	e	11 46 36	Z	1.0	3.7 (0)		
5	MN	e	11 48 39	Z	0.8	1.0 (0)		
5			16 04 29.0				40.7 N 112.0 W	UTAH
							H = 014 KM	MAG 5.00- PAS
5	FM	eP	16 04 54.2	Z	0.5	26.0 (1)	1.5	
		eP	16 04 55	LZ	8	87.0 (1)		
		eL	16 05 12	LZ	10	11.0 (3)		
		eL	16 05 12	LR	12	35.0 (2)		
		eL	16 05 12	LT	12	48.0 (2)		
5	WI	eP	16 05 31.7	Z	0.2	3.2 (0)	4.0	4.30
		e	16 05 34	Z	0.3	60.0 (0)		
		e	16 05 36	LR	17	67.0 (1)		
		eL	16 06 37	LZ	10	12.0 (2)		
		eL	16 06 37	LR	17	21.0 (2)		
		eL	16 06 37	LT	10	29.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	MN	eP	16 05 48.3	Z	0.5	3.1 (0)	5.0	4.14
		e	16 05 50	Z	0.5	40.0 (0)		
		eL	16 07 15	LZ	15	10.0 (2)		
		eL	16 07 15	LR	17	30.0 (2)		
5	MV	eL	16 07 15	LT	17	19.0 (2)	7.0	4.40
		eP	16 06 17.4	Z	0.6	2.8 (0)		
		e	16 06 23	Z	0.7	12.0 (0)		
		eL	16 08 13	R	1.0	96.0 (0)		
5	TF	eL	16 08 33	LZ	10	96.0 (1)	9.0	5.74
		eL	16 08 33	LR	15	83.0 (1)		
		eL	16 08 33	LT	10	52.0 (1)		
		eP	16 06 34.2	Z	0.8	53.0 (0)		
5	CP	e	16 08 51	T	1.0	81.0 (0)	9.0	5.01
		eL	16 08 57	LZ	18	60.0 (1)		
		eL	16 08 57	LR	20	42.0 (1)		
		eL	16 08 57	LT	20	21.0 (2)		
5	LC	eP	16 06 37.1	Z	0.8	6.3 (0)	10.0	4.64
		eL	16 08 58	T	1.0	28.0 (0)		
		eL	16 09 15	LZ	13	16.0 (2)		
		eL	16 09 15	LR	18	98.0 (1)		
5	SJ	eL	16 09 15	LT	18	16.0 (2)	18.0	4.39
		eP	16 08 33.1	Z	1.0	30.0 (0)		
		eL	16 13 34	R	1.7	25.0 (1)		
		eL	16 14 05	LZ	14	10.0 (2)		
5	AR	eL	16 14 05	LR	15	13.0 (2)	18.0	4.35
		eP	16 08 41.6	Z	1.0	27.0 (0)		
		eL	16 13 55	T	1.0	53.0 (0)		
		eL	16 13 55	LZ	15	70.0 (1)		
5	WI	eL	16 13 55	LR	17	74.0 (1)	1.9	4.62
		eL	16 13 55	LT	20	89.0 (1)		
		eP	16 24 28.8	Z	0.7	4.6 (0)		
		eP	16 37 39.6	Z	0.4	19.0 (0)		
5	DH	eS	16 38 05	R	0.5	14.0 (1)	1.9	4.62
		eP	17 27 38.2	Z	0.7	10.0 (0)		
5	FM	eP	17 27 38.3	Z	0.7	10.0 (0)	3.1	4.62
5	LC	eP	22 36 03.8	Z	0.3	0.8 (0)		
5	MN	eS	22 36 42	T	0.5	5.0 (0)	3.1	4.62
		eP	22 45 27.5	Z	0.5	1.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	06 47 25.3	31.1 S 072.0 W NEAR COAST OF CHILE H = 033 KM						
		LC	eP	06 58 45.3	Z	1.0	13.0 (0)	72.0
6	10 49 00.7	ePCP 06 59 14 Z 0.9 1.9 (0)						
		21.2 S 174.5 W TONGA ISLANDS REGION H = 110 KM						
6	MV	eP	11 00 50.0	Z	1.1	6.2 (0)	78.0	4.34
6	CP	eP	11 00 54.2	Z	1.2	8.8 (0)	79.0	4.45
		eL	11 25 15	LZ	23	85.0 (0)		
6	MN	eP	11 00 56.9	Z	0.5	7.4 (0)	80.0	4.76
		eL	11 25 46	LZ	30	11.0 (1)		
		eL	11 31 58	LZ	18	39.0 (1)		
		eL	11 31 58	LT	17	35.0 (1)		
6	WI	eL	11 31 58	LR	21	13.0 (1)		
		eP	11 01 08.7	Z	1.0	3.4 (0)	82.0	4.12
6	LC	eP	11 01 21.0	Z	1.1	4.5 (0)	84.0	4.29
		e	11 01 33	Z	1.0	9.7 (0)		
		eL	11 28 06	LZ	25	14.0 (1)		
		eL	11 34 22	LZ	18	37.0 (1)		
6	TF	eL	11 34 22	LR	17	23.0 (1)		
		eL	11 34 22	LT	16	25.0 (1)		
		eL	11 25 42	LZ	25	25.0 (1)	77.0	
		eL	11 25 50	LZ	25	25.0 (1)		
6	FM	eL	11 25 50	LR	22	31.0 (1)		
		eL	11 27 25	LZ	25	78.0 (0)	83.0	
6	SJ	eL	11 32 47	LZ	19	24.0 (1)		
		eL	11 32 47	LR	20	20.0 (1)		
		eL	11 30 40	LT	25	24.0 (1)	88.0	
		eL	11 31 32	LZ	20	95.0 (0)		
6	LC	eL	11 31 32	LR	17	17.0 (1)		
		eL	11 31 32	LT	24	37.0 (1)		
AVG. 4.39								
6	11 10 50.3	04.0 S 126.4 E CERAM SEA H = 033 KM						
		LC	eP	11 29 53.6	Z	0.9	1.9 (0)	124.0
6	LC	eL	12 01 26	LT	30	21.0 (1)		
		eL	12 07 45	LZ	26	14.0 (1)		
		eL	12 11 50	LZ	25	32.0 (1)		
		eL	12 11 50	LR	22	24.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	TF	eL	12 11 50	LT	25	22.0 (1)	112.0	
		eL	12 02 15	LZ	29	40.0 (1)		
		eL	12 07 55	LZ	21	66.0 (1)		
		eL	12 07 55	LR	23	62.0 (1)		
6	WI	eL	12 03 05	LZ	35	46.0 (1)	112.0	
		eL	12 06 27	LZ	23	44.0 (1)		
		eL	12 06 27	LR	25	17.0 (1)		
		eL	12 06 27	LT	25	48.0 (1)		
6	MN	eL	12 04 30	LZ	26	42.0 (1)	113.0	
		eL	12 08 23	LZ	22	42.0 (1)		
		eL	12 08 23	LR	23	28.0 (1)		
		eL	12 08 23	LT	20	26.0 (1)		
6	FM	eL	12 06 49	LZ	25	25.0 (1)	117.0	
		eL	12 12 22	LR	17	29.0 (1)		
6	SJ	eL	12 15 05	LZ	23	28.0 (1)	132.0	
		eL	12 15 05	LR	22	68.0 (1)		
		eL	12 15 05	LT	22	28.0 (1)		
		eL	12 15 05	LT	22	28.0 (1)		
6	WI	eP	11 15 56.7	Z	1.0	13.0 (0)		
6	MN	eL	12 56 35	LT	30	19.0 (1)		
6	MN	eL	12 58 22	LZ	18	11.0 (1)		
6	MN	eL	12 58 22	LT	20	39.0 (1)		
6	MN	eL	13 00 52	LZ	20	11.0 (1)		
6	13 39 11.2	14.3 N 090.7 W	NEAR COAST OF GUATEMALA					
		H =160 KM						
6	LC	eP	13 44 05.2	Z	1.0	12.0 (0)	23.0	4.26
6	MN	eP	13 45 44.4	Z	0.9	15.0 (0)	34.0	4.70
6	WI	eP	13 45 55.8	Z	1.4	20.0 (0)	36.0	4.82
							AVG.	4.59
6	TF	eP	14 29 39.0	Z	999.9	99.9 (9)	0.6	
		eS	14 29 48	T	999.9	99.9 (9)		
6	15 03 01.9	08.4 S 158.8 E	SOLOMON ISLANDS REGION					
		H =095 KM						
6	MV	eP	15 15 40.8	Z	0.9	4.9 (0)	87.0	4.55
		e	15 16 06	Z	1.0	6.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	TF	eP	15 15 42.0	Z	0.9	6.4 (0)	88.0	4.68
		eP	15 15 51.9	Z	1.0	20.0 (0)	90.0	5.22
6	CP	eP	15 15 53.9	Z	0.8	18.0 (0)	90.0	5.26
		eP	15 16 20	Z	1.1	12.0 (0)		
6	LC	eP	15 16 32.2	Z	0.6	1.0 (0)	98.0	4.53
							AVG.	4.85
6	MN	eP	15 12 05.5	Z	0.5	26.0 (0)	0.1	
		eS	15 12 09	R	0.4	92.0 (0)		
		eP	15 14 33.0	Z	0.5	7.4 (0)		
		eS	15 14 37	R	0.4	46.0 (0)		
6	WI	eP	15 57 15.8	Z	0.9	2.6 (0)		
6	CP	eP	17 29 26.5	Z	0.2	4.8 (0)	0.6	
		eS	17 29 36	T	0.2	36.0 (0)		
6	17 38 41.4	34.5 N 139.7 E	E. COAST OF HONSHU, JAPAN					
		H =033 KM						
6	WI	eP	17 50 32.8	Z	1.0	2.3 (0)	77.0	4.16
6	MN	eL	18 11 47	LT	28	41.0 (1)	78.0	
		eL	18 15 20	LZ	28	29.0 (1)		
6	TF	eL	18 14 45	LZ	30	42.0 (1)	79.0	
		eL	18 15 52	LZ	24	45.0 (1)		
		eL	18 15 52	LR	22	36.0 (1)		
						AVG.	4.16	
6	18 06 22.9	31.8 S 178.8 W	KERMADEC ISLANDS REGION					
		H =081 KM						
6	CP	eP	18 19 01.0	Z	0.9	17.0 (0)	87.0	5.11
6	WI	eP	18 19 24.3	Z	1.0	6.9 (0)	92.0	4.94
6	LC	eP	18 19 30.3	Z	1.0	2.4 (0)	93.0	4.50
							AVG.	4.85
6	LC	eP	20 16 19.5	Z	0.3	4.4 (0)	0.1	
		eS	20 16 21	R	0.4	12.0 (0)		
6	LC	eP	21 29 47.1	Z	0.2	12.0 (0)	1.5	
		eS	21 30 07	R	999.9	99.9 (9)		
6	AR	eP	22 06 20.5	Z	0.2		0.7	
		eS	22 06 31	T	0.2	35.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	CP	eP	23 26 46.8	Z	0.5	14.0 (0)	1.9	
		eS	23 27 12	T	0.4	23.0 (0)		
6	MN	eP	23 53 48.8	Z	0.5	15.0 (0)	1.2	
6	MV	eP	23 54 04.1	Z	0.2	14.0 (0)	1.8	
6	MN	eS	23 54 05	R	0.4	63.0 (0)	1.2	
6	MV	eS	23 54 28	R	0.4	24.0 (0)	1.8	
7	CP	e	00 05 58	LR	35	75.0 (2)		
7	07 07 27.8		03.2 S 128.0 E				CERAM SEA	
			H = 216 KM					
7	07 41 51.0		06.3 S 130.0 E				BANDA SEA REGION	
			H = 180 KM					
7	MN	ePD	07 56 14.2	Z	1.0	3.3 (0)	111.0	
		ePP	08 00 52		1.2	6.4 (0)		
		eL	08 40 15	LZ	25	25.0 (2)		
7	WI	eP	08 00 06.3	Z	1.0	4.7 (0)	112.0	
		ePP	08 00 45	Z	1.5	28.0 (0)		
7	CP	eP	08 00 10.9	Z	1.0	5.7 (0)	113.0	
		ePP	08 01 01	Z	1.0	5.7 (0)		
7	LC	eP	08 00 26.2	Z	1.0	10.0 (0)	122.0	
		ePP	08 01 59	Z	1.2	5.7 (0)		
7	AR	eP	08 00 39.5	Z	1.0	26.0 (0)	130.0	
7	DH	eP	08 00 56.5	Z	1.0	18.0 (0)	138.0	
7	WI	eP	08 48 27.3	Z	0.5	4.0 (0)	5.0	
		eS	08 49 28	R	0.6	17.0 (0)		
7	CP	eP	10 12 51.1	Z	0.7	2.2 (0)		
7	12 03 31.1		34.0 N 139.3 E				E. COAST OF HONSHU, JAPAN	
			H = 033 KM					
7	WI	eP	12 15 22.2	Z	1.0	2.3 (0)	77.0	4.16
7	MN	eP	12 15 32.7	Z	0.8	1.0 (0)	79.0	3.83
7	TF	eL	12 39 40	LZ	28	45.0 (1)	82.0	
		eL	12 41 00	LZ	25	41.0 (1)		
		eL	12 41 00	LR	25	31.0 (1)		
		eL	12 41 00	LT	22	28.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
								AVG. 4.00
7	12 11 08.4		34.5 N 134.8 E				NEAR SHIKOKU, JAPAN	
			H = 033 KM					
7	MV	eP	12 23 10.0	Z	1.5	14.0 (0)	79.0	4.70
7	WI	eP	12 23 12.4	Z	1.0	3.5 (0)	79.0	4.28
7	MN	eP	12 23 24.0	Z	1.2	2.5 (0)	81.0	4.05
								AVG. 4.34
7	12 38 45.4		06.3 S 151.6 E				NEW BRITAIN REGION	
			H = 036 KM					
7	14 00 45.9		39.7 N 078.2 W				WESTERN MARYLAND	
			H = 038 KM					
7	DH	eP	14 01 42.1	Z	0.3	6.5 (0)	4.0	4.44
		e	14 02 35	R	0.4	38.0 (0)		
7	MN	eP	17 36 43.4	Z	0.4	2.0 (0)	1.5	
		eS	17 37 02	R	0.5	29.0 (0)		
7	LC	eP	18 39 20.5	Z	0.5	1.9 (0)		
7	MN	eP	18 41 00.2	Z	0.7	2.5 (0)		
7	WI	eP	18 41 14.1	Z	1.0	7.0 (0)		
7	19 37 19.7		14.7 S 167.5 E				NEW HEBRIDES ISLANDS	
			H = 201 KM					
7	23 37 27.5		26.3 S 178.0 W				KERMADEC ISLANDS REGION	
			H = 050 KM					
7	TF	eP	23 49 45.2	Z	0.7	13.0 (0)	82.0	5.02
7	CP	eP	23 49 48.4	Z	1.0	29.0 (0)	83.0	5.31
7	MV	eP	23 49 53.5	Z	0.7	8.2 (0)	84.0	4.98
7	MN	eP	23 49 59.7	Z	0.9	11.0 (0)	86.0	4.89
7	WI	eP	23 50 10.1	Z	0.7	12.0 (0)	87.0	5.13
								AVG. 5.07

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	23 39 13.7		41.1 N 116.8 W H =033 KM					NEVADA
7	WI	eP	23 39 21.6	Z	999.9	99.9 (9)	0.4	
		eL	23 39 33	LR	25	96.0 (1)		
7	MN	eP	23 39 57.7	Z	0.4	12.0 (0)	3.0	4.28
7	FM	eP	23 40 12.0	Z	0.5	3.9 (0)	3.8	3.99
		e	23 40 25	Z	0.5	7.7 (0)		
		eL	23 41 16	R	0.5	76.0 (0)		
		eL	23 41 34	LZ	13	51.0 (1)		
7	MV	eP	23 40 14.0	Z	0.5	2.5 (0)	4.0	3.80
7	CP	eP	23 41 18.4	Z	0.5	2.2 (0)	9.0	4.65
		eL	23 43 37	T	0.7	10.0 (0)		
7	TF	eL	23 42 37	T	0.6	8.5 (0)	6.0	
							AVG.	4.18
7	23 52 09.1		08.4 S 159.0 E H =095 KM					SOLOMON ISLANDS REGION
8	MN	eP	00 04 58.3	Z	1.0	6.6 (0)	89.0	4.72
8	CP	eP	00 05 00.9	Z	0.9	6.6 (0)	90.0	4.77
		epP	00 05 30	Z	1.2	13.0 (0)		
							AVG.	4.75
8	WI	tP	00 21 49.3C	Z	0.2	9.2 (0)	0.5	
		eS	00 21 57	R	0.3	23.0 (0)		
8	WI	eP	00 48 52.3	Z	0.2	23.0 (0)	0.4	
		eS	00 48 59	R	0.3	16.0 (0)		
8	MN	eP	01 07 18.0	Z	1.0	5.0 (0)		
8	WI	eP	01 07 29.6	Z	1.0	3.5 (0)		
8	LC	eP	01 07 40.0	Z	1.0	3.8 (0)		
8	WI	eP	01 58 49.6	Z	0.2	6.7 (0)	0.5	
		eS	01 58 57	R	0.3	25.0 (0)		
8	WI	eP	02 30 09.5	Z	0.2	12.0 (0)	0.5	
		eS	02 30 17	R	999.9	99.9 (9)		
8	LC	eP	04 24 42.9	Z	1.0	4.8 (0)		
8	07 27 06.7		22.4 S 171.5 E H =076 KM					LOYALTY ISLANDS REGION
8	MV	eP	07 39 48.0	Z	0.8	9.6 (0)	86.0	4.82

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MN	eL	08 07 40	LT	30	52.0 (1)		
		eP	07 39 56.4	Z	1.0	13.0 (0)	89.0	5.04
		eL	08 08 12	LZ	30	69.0 (1)		
		eL	08 10 00	LZ	25	52.0 (1)		
		eL	08 10 00	LT	25	48.0 (1)		
8	WI	eP	07 40 05.7	Z	0.8	6.8 (0)	91.0	5.03
8	TF	eL	08 03 15	LT	30	57.0 (1)	86.0	
		eL	08 06 50	LZ	30	77.0 (1)		
		eL	08 08 00	LZ	25	55.0 (1)		
		eL	08 08 00	LR	25	60.0 (1)		
8	FM	eL	08 06 20	LT	30	32.0 (1)	94.0	
		eL	08 10 40	LZ	27	10.0 (1)		
		eL	08 12 30	LZ	25	13.0 (1)		
		eL	08 12 30	LR	25	29.0 (1)		
8	CP	eL	08 07 33	LZ	30	21.0 (2)	88.0	
8	LC	eL	08 10 50	LZ	30	98.0 (1)	95.0	
		eL	08 12 38	LT	25	43.0 (1)		
		eL	08 12 38	LR	25	27.0 (1)		
		eL	08 12 38	LZ	25	54.0 (1)		
8	DH	eL	08 24 35	LZ	33	23.0 (1)	122.0	
		eL	08 29 48	LZ	23	33.0 (1)		
		eL	08 29 48	LR	25	30.0 (1)		
							AVG.	4.96
8	10 17 57.7		73.7 N 053.8 E MAG 4.75-					NOVAYA ZEMLYA PAL
8	WI	eP	10 28 42.5	Z	1.0	6.9 (0)	65.0	4.84
8	MN	eP	10 29 00.7	Z	1.0	3.4 (0)	68.0	4.53
		eL	10 50 55	LZ	55	49.0 (1)		
		eL	10 57 00	LZ	24	47.0 (1)		
		eL	10 57 00	LT	25	36.0 (1)		
		eL	10 57 00	LR	25	23.0 (1)		
8	LC	eP	10 29 33.3	Z	1.0	6.0 (0)	74.0	4.58
		eL	10 54 15	LZ	32	23.0 (1)		
		eL	11 00 42	LT	25	52.0 (1)		
		eL	11 00 42	LR	22	18.0 (1)		
		eL	11 00 42	LZ	25	50.0 (1)		
8	CP	eP	10 29 35.2	Z	1.0	5.8 (0)	74.0	4.56
8	AR	eL	10 46 24	LZ	37	56.0 (1)	58.0	
		eL	10 52 18	LZ	25	43.0 (1)		
		eL	10 52 18	LR	19	36.0 (1)		
		eL	10 52 18	LT	22	21.0 (1)		
8	DH	eL	10 46 50	LZ	35	20.0 (1)	69.0	
		eL	10 53 45	LZ	23	60.0 (1)		
		eL	10 53 45	LR	20	10.0 (1)		
		eL	10 53 45	LT	24	80.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	FM	eL	10 50 25	LZ	35	15.0 (1)	68.0	
		eL	10 57 00	LZ	22	49.0 (0)		
		eL	10 57 00	LR	22	24.0 (1)		
		eL	10 57 00	LT	22	18.0 (1)		
8	MV	eL	10 51 34	LT	35	34.0 (1)	68.0	
8	TF	eL	10 53 00	LT	35	45.0 (1)	71.0	
		eL	10 58 55	LT	25	29.0 (1)		
		eL	10 58 55	LZ	25	25.0 (1)		
		eL	10 58 55	LR	25	20.0 (1)		
8	SJ	eL	10 59 50	LT	32	76.0 (1)	78.0	
		eL	11 04 00	LT	23	78.0 (1)		
		eL	11 04 00	LZ	18	30.0 (1)		
		eL	11 04 00	LR	20	38.0 (1)		
							AVG.	4.63
8	13 03 34.7		16.9 N 060.9 W				LEEWARD ISLANDS REGION	
			H = 033 KM					
8	AR	eP	13 10 42.7	Z	0.9	12.0 (0)	37.0	4.69
8	LC	eP	13 11 41.0	Z	0.8	12.0 (0)	44.0	4.68
8	WI	eP	13 12 58.5D	Z	0.7	12.0 (0)	54.0	4.52
8	MN	eP	13 12 59.0	Z	1.0	8.4 (0)	54.0	4.72
		eLR	13 33 40	LZ	25	20.0 (1)		
		eL	13 35 10	LR	23	30.0 (1)		
		eL	13 35 10	LT	22	24.0 (1)		
		eL	13 35 10	LZ	24	23.0 (1)		
8	MV	eP	13 13 16.7	Z	0.9	5.0 (0)	56.0	4.54
8	DH	eL	13 17 10	LZ	25	53.0 (1)	28.0	
		eL	13 17 28	LZ	27	43.0 (1)		
		eL	13 17 28	LR	25	50.0 (1)		
		eL	13 17 28	LT	25	43.0 (1)		
8	FM	eL	13 29 57	LZ	25	98.0 (0)	50.0	
		eL	13 32 22	LZ	25	16.0 (1)		
		eL	13 32 22	LR	25	95.0 (0)		
		eL	13 32 22	LT	25	27.0 (1)		
							AVG.	4.63
8	WI	eP	17 05 01.5	Z	0.5	2.6 (0)	5.2	
		eS	17 05 59	R	0.6	13.0 (0)		
8	LC	eP	18 15 28.5	Z	0.3	0.8 (0)	3.1	
		eS	18 16 06	T	0.4	4.5 (0)		
8	WI	eP	18 27 25.7	Z	0.2	5.5 (0)	0.5	
		eS	18 27 33	R	0.3	17.0 (0)		
8	CP	eP	19 26 23.7	Z	0.2	5.5 (0)	0.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	19 26 28	T	999.9	99.9 (9)		
8	LC	eP	22 06 16.2	Z	0.9	4.6 (0)		
9	WI	eP	01 27 36.7	Z	0.3	30.0 (0)	0.5	
		eS	01 27 44	R	0.3	80.0 (0)		
9	01 34 38.5		10.3 N 121.4 E				PANAY, PHILIPPINE ISLANDS	
			H = 058 KM					
9	MN	ePP	01 53 01	Z	1.0	1.7 (0)	106.0	
9	LC	eP	01 53 21.1	Z	1.1	3.0 (0)	117.0	
9	02 56 04.9		17.9 S 178.6 W				FIJI ISLANDS REGION	
			H = 625 KM					
9	TF	eP	03 06 55.2	Z	1.0	8.4 (0)	77.0	4.15
9	MV	eP	03 07 02.0	Z	1.0	10.0 (0)	78.0	4.23
9	CP	eP	03 07 02.0	Z	0.7	5.7 (0)	78.0	4.14
9	MN	eP	03 07 10.9	Z	0.8	6.9 (0)	80.0	4.16
9	WI	eP	03 07 21.4	Z	1.0	16.0 (0)	82.0	4.50
9	LC	eP	03 07 38.5	Z	1.0	9.8 (0)	86.0	4.47
							AVG.	4.28
9	03 21 55.5		15.6 S 073.4 W				PERU	
			H = 098 KM					
9	SJ	eP	03 30 38.0	Z	1.1	74.0 (0)	50.0	5.53
9	LC	eP	03 31 35.3	Z	1.2	23.0 (0)	58.0	5.08
		epP	03 32 12	Z	1.0	15.0 (0)		
9	DH	eP	03 31 36.9	Z	1.1	56.0 (0)	58.0	5.51
		epP	03 32 03	Z	1.0	46.0 (0)		
9	AR	eP	03 32 08.7	Z	1.1	27.0 (0)	63.0	5.09
		epP	03 32 35	Z	1.2	42.0 (0)		
		e	03 32 46	Z	1.0	22.0 (0)		
9	CP	eP	03 32 16.5	Z	1.1	7.1 (0)	64.0	4.52
		epP	03 32 52	Z	0.9	6.6 (0)		
9	TF	eP	03 32 41.0	Z	1.1	10.0 (0)	68.0	4.57
9	MN	eP	03 32 48.1	Z	1.2	14.0 (0)	69.0	4.68
		epP	03 33 12	Z	1.2	10.0 (0)		
9	WI	eP	03 32 57.8	Z	1.0	44.0 (0)	70.0	5.25
9	MV	eP	03 33 02.5	Z	1.2	7.7 (0)	71.0	4.41
							AVG.	4.96

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	08 39	38.2	21.8 S 171.1 E	LOYALTY ISLANDS REGION H = 112 KM				
9	WI	eP	10 19 23.1	Z	0.2	12.0 (0)	0.5	
		eS	10 19 31	R	0.2	28.0 (0)		
		eP	10 20 54.9	Z	0.2	12.0 (0)		
		eS	10 21 03	R	0.2	27.0 (0)		
9	11 23	41.6	10.5 N 121.8 E	PANAY, PHILIPPINE ISLANDS H = 033 KM				
9	CP	tP	12 10 19.2D	Z	0.2	12.0 (0)	0.1	
		eS	12 10 23	T	0.3	32.0 (0)		
9	14 38	13.0	41.6 N 111.8 W	UTAH-IDAHO BORDER H = 037 KM				
9	WI	eP	14 39 15.4	Z	0.5	0.9 (0)	4.1	3.36
		e	14 39 21	Z	0.5	23.0 (0)		
		eLG	14 40 19	R	0.6	53.0 (0)		
9	MN	eP	14 39 40.1	Z	0.5	3.5 (0)	5.9	4.22
		e	14 40 01	Z	0.5	6.9 (0)		
		e	14 40 50	R	0.5	5.1 (0)		
							AVG.	3.79
9	14 45	44.5	14.0 N 089.5 W	EL SALVADOR H = 089 KM				
9	MN	eP	14 52 31.7	Z	0.7	2.5 (0)	35.0	4.25
9	15 15	22.7	10.1 N 147.3 E	MARIANA ISLANDS REGION H = 217 KM				
9	MN	eP	15 27 46.9	Z	0.9	2.6 (0)	87.0	4.08
9	WI	eP	15 27 55.1	Z	1.0	2.3 (0)	88.0	4.13
							AVG.	4.11
9	LC	eP	16 19 47.1	Z	0.8	2.9 (0)		
9	CP	eP	16 37 33.7	Z	0.3	58.0 (0)	1.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	16 37 49	T	999.9	99.9 (9)		
9	19 12	37.1	62.4 N 152.4 W	ALASKA H = 057 KM				
9	WI	eP	19 18 38.4	Z	1.0	14.0 (0)	30.0	4.69
9	MN	tP	19 18 57.9C	Z	0.8	19.0 (0)	32.0	4.89
		ePCP	19 21 48	Z	1.0	5.0 (0)		
		eS	19 24 10	R	1.5	4.4 (0)		
		eS	19 24 10	T	1.9	14.0 (0)		
		eL	19 28 50	LZ	20	22.0 (1)		
9	TF	eP	19 19 17.1	Z	1.0	25.0 (0)	34.0	5.04
9	CP	eP	19 19 46.6	Z	0.9	15.0 (0)	38.0	4.84
9	AR	eP	19 20 03.3	Z	0.8	22.0 (0)	40.0	4.95
9	LC	eP	19 20 22.6	Z	1.1	9.1 (0)	42.0	4.47
		ePCP	19 22 18	Z	1.0	4.9 (0)		
9	DH	eP	19 21 12.8	Z	1.0	11.0 (0)	48.0	4.77
9	SJ	eP	19 21 24.0	Z	0.8	35.0 (0)	50.0	4.99
							AVG.	4.83
9	CP	eP	21 12 22.4	Z	0.2	36.0 (0)	0.1	
		eS	21 12 25	T	0.3	47.0 (0)		
10	LC	eP	03 23 48.2	Z	0.8	2.8 (0)		
10	WI	eP	08 15 55.7	Z	0.7	17.0 (0)		
10	MV	eP	08 19 27.1	Z	0.3	8.4 (0)	0.8	
		eS	08 19 38	T	0.3	49.0 (0)		
10	MN	eP	08 19 45.4	Z	0.5	6.1 (0)	2.0	
10	WI	eP	08 19 56.7	Z	0.4	1.6 (0)	3.8	
10	MN	eS	08 20 12	R	0.5	13.0 (0)	2.0	
10	WI	eS	08 20 41	R	0.5	11.0 (0)	3.8	
10	09 36	24.3	35.0 N 027.1 E	DODECANESE ISLANDS H = 033 KM				
10	DH	eP	09 48 05.8	Z	1.2	52.0 (0)	75.0	5.37
10	AR	eP	09 48 36.2	Z	1.3	62.0 (0)	81.0	5.41
		eL	10 12 00	LT	34	22.0 (2)		
		eL	10 21 10	LZ	25	11.0 (2)		
		eL	10 21 10	LR	25	72.0 (1)		
		eL	10 21 10	LT	25	69.0 (1)		
10	WI	eP	09 49 57.4	Z	1.1	8.5 (0)	98.0	5.32
		e	09 53 35	Z	1.3	6.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	10 27 15	LT	27	14.0 (2)		
		eL	10 29 45	LZ	30	57.0 (1)		
		eL	10 29 45	LR	24	11.0 (2)		
		eL	10 29 45	LT	25	15.0 (2)		
10	LC	eP	09 50 09.2	Z	1.0	3.6 (0)	100.0	4.96
		eLQ	10 22 00	LR	34	17.0 (2)		
		eL	10 33 05	LZ	25	90.0 (1)		
		eL	10 33 05	LR	21	45.0 (1)		
		eL	10 33 05	LT	24	84.0 (1)		
10	MN	eP	09 50 09.8	Z	1.0	2.5 (0)	101.0	4.73
		e	09 53 40	Z	1.2	1.3 (0)		
		eL	10 22 00	LR	37			
		eL	10 27 30	LR	29			
10	FM	eL	10 20 05	LT	40	80.0 (1)	98.0	
		eL	10 29 30	LZ	27	30.0 (1)		
		eL	10 29 30	LR	24	57.0 (1)		
		eL	10 29 30	LT	23	85.0 (1)		
10	SJ	eL	10 24 00	LR	30	16.0 (2)	99.0	
		eL	10 37 53	LZ	20	46.0 (1)		
		eL	10 37 53	LR	18	92.0 (1)		
		eL	10 37 53	LT	19	22.0 (2)		
10	MV	eL	10 26 12	LZ	35	43.0 (1)	102.0	
10	TF	eL	10 29 21	LR	26	95.0 (1)	104.0	
							AVG.	5.16
10	MN	eP	09 37 52.2	Z	0.4	4.6 (0)	2.6	
		eS	09 37 58	T	0.5	21.0 (0)		
10	WI	eP	09 38 23.9	Z	0.4	1.6 (0)	2.9	
		eS	09 39 00	R	0.6	6.1 (0)		
10	13 50 48.7		51.2 N 179.7 E				RAT IS., ALEUTIAN ISLANDS	
			H =062 KM					
10	MV	eP	13 58 39.3	Z	0.9	2.6 (0)	43.0	3.96
10	WI	eP	13 58 46.5	Z	0.6	2.4 (0)	44.0	4.10
10	MN	eP	13 58 56.4	Z	0.9	2.0 (0)	45.0	3.92
10	LC	eP	14 00 20.8	Z	0.8	4.3 (0)	56.0	4.53
							AVG.	4.13
10	15 43 59.4		21.1 S 179.2 W				FIJI ISLANDS	
			H =640 KM				MAG 6.50- PAS	
10	TF	tP	15 55 02.6D	Z	1.0	15.0 (1)	79.0	5.43
		eP	15 55 04	LZ	17	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		epP	15 57 14	Z	1.2	32.0 (0)		
		ePP	15 58 20	LZ	15	31.0 (2)		
		eS	16 04 17	R	2.8	68.0 (1)		
		eS	16 04 17	T	2.9	65.0 (1)		
		eS	16 04 21	LR	23	30.0 (2)		
		e	16 05 10	LR	26	30.0 (2)		
		esS	16 08 10	LR	22	17.0 (2)		
		e	16 13 07	LZ	27	14.0 (2)		
		e	16 16 45	LZ	20	14.0 (2)		
		eP!P!	16 21 52	Z	1.0	11.0 (0)		
		eSKPP!	16 24 24	Z	1.5	49.0 (0)		
10	CP	tP	15 55 08.5D	Z	1.0	78.0 (0)	81.0	5.13
		eP	15 55 09	LZ	27	84.0 (1)		
		epP	15 57 21	Z	1.4	34.0 (0)		
		esP	15 58 20	LZ	15	27.0 (2)		
		tS	16 04 30	R	3.0	10.0 (2)		
		tS	16 04 30	T	2.5	24.0 (1)		
		eS	16 04 30	LR	19	63.0 (2)		
		eSP	16 05 20	LZ	27	15.0 (2)		
		e	16 09 18	LR	22	19.0 (2)		
		ePKKP	16 13 45	Z	0.7	20.0 (0)		
		e	16 16 25	LR	30	28.0 (2)		
		eP!P!	16 21 40	Z	1.0	2.9 (0)		
		eSKPP!	16 24 18	Z	2.0	90.0 (0)		
10	MV	eP	15 55 10.5	Z	999.9	99.9 (9)	81.0	
		eP	15 55 11	LZ	17	94.0 (1)		
		esP	15 58 25	LZ	18	16.0 (2)		
		e	16 01 21	LZ	23	73.0 (1)		
		eS	16 04 29	R	2.5	39.0 (1)		
		eS	16 04 29	T	3.1	92.0 (1)		
		eS	16 04 34	LR	18	86.0 (1)		
		eS	16 04 34	LT	18	46.0 (2)		
		e	16 08 43	LT	25	30.0 (2)		
		eSSS	16 13 30	LR	22	16.0 (2)		
		e	16 13 43	Z	0.5	2.5 (0)		
		e	16 16 30	LT	29	91.0 (1)		
		eP!P!	16 21 50	Z	1.2	7.7 (0)		
		eSKPP!	16 24 11	Z	1.5	20.0 (0)		
10	MN	tP	15 55 17.9D	Z	999.9	99.9 (9)	82.0	
		epP	15 57 32	Z	1.2	31.0 (0)		
		esP	15 58 23	LZ	18			
		esPP	16 01 30	LZ	23			
		eS	16 04 49	R	3.5	10.0 (2)		
		eS	16 04 49	T	3.5	13.0 (2)		
		eS	16 04 50	LR	20			
		eS	16 04 50	LT	21	99.9 (9)		
		e	16 05 42	R	3.6	70.0 (2)		
		esS	16 08 43	LT	30	99.9 (9)		
		ePKKP	16 13 41	Z	0.7	8.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	16 13 57	LT	23			
		e	16 17 04	LT	27			
		eLR	16 19 20	LZ	25			
		eP'P'	16 21 43	Z	1.0	12.0 (0)		
		eSKPP'	16 24 11	Z	1.4	40.0 (0)		
		eP'P'P'	16 41 52	Z	2.5	53.0 (0)		
10	WI	eP	15 55 28.4	Z	1.1	20.0 (1)	85.0	5.66
		eP	15 55 30	LZ	18	96.0 (1)		
		epP	15 57 47	Z	1.4	82.0 (0)		
		esP	15 58 47	LZ	18	16.0 (1)		
		esPP	16 01 45	LZ	22	58.0 (1)		
		eS	16 05 08	R	4.2	20.0 (2)		
		eS	16 05 08	T	2.5	25.0 (1)		
		eS	16 05 10	LR	21	46.0 (2)		
		eS	16 05 10	LT	19	13.0 (2)		
		e	16 06 07	LT	20	19.0 (2)		
		esS	16 09 47	LR	27	25.0 (2)		
		ePKKP	16 13 36	Z	0.7	2.9 (0)		
		e	16 14 26	LT	23	24.0 (2)		
		e	16 17 20	LR	28	14.0 (2)		
		eP'P'	16 21 36	Z	1.0	5.8 (0)		
		eSKPP'	16 24 06	Z	2.5	14.0 (1)		
		eP'P'P'	16 42 01	Z	2.5	72.0 (0)		
10	FM	eP	15 55 39.3	Z	1.0	29.0 (1)	87.0	5.92
		eP	15 55 40	LZ	19	65.0 (1)		
		epP	15 57 59	Z	1.1	25.0 (0)		
		esP	15 58 55	LZ	17	13.0 (2)		
		esPP	16 02 11	LZ	21	47.0 (1)		
		eS	16 05 31	R	3.4	58.0 (1)		
		eS	16 05 31	T	2.9	49.0 (1)		
		eS	16 05 34	LR	22	23.0 (2)		
		eS	16 05 34	LT	23	45.0 (2)		
		eSP	16 06 28	LR	24	21.0 (2)		
		esS	16 09 32	LR	23	16.0 (2)		
		eSS	16 11 23	LT	24	31.0 (2)		
		e	16 15 13	LR	28	23.0 (2)		
		e	16 18 21	LT	26	20.0 (2)		
10	LC	tP	15 55 42.8D	Z	999.9	99.9 (9)	88.0	
		eP	15 55 44	LZ	17	70.0 (1)		
		esP	15 58 57	Z	1.4	13.0 (1)		
		esP	15 59 00	LZ	17	15.0 (2)		
		eSKS	16 05 14	R	2.7	12.0 (1)		
		eS	16 05 40	R	2.9	37.0 (1)		
		eS	16 05 40	T	3.5	67.0 (1)		
		e	16 05 41	LR	23	29.0 (2)		
		e	16 05 41	LT	19	79.0 (2)		
		eSP	16 06 39	Z	3.5	45.0 (1)		
		e	16 06 48	LT	23	14.0 (2)		
		esS	16 09 00	LT	21	19.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	16 11 38	LT	27	26.0 (2)		
		ePKKP	16 13 27	Z	0.8	7.1 (0)		
		e	16 14 10	LR	21	12.0 (2)		
		e	16 18 00	LR	29	18.0 (2)		
		eP'P'	16 21 31	Z	1.5	14.0 (0)		
10	SJ	eP	15 56 04.2	Z	0.7	89.0 (0)	92.0	5.82
		eP	15 56 04	LZ	14	11.0 (2)		
		epP	15 58 10	LZ	13	15.0 (2)		
		esP	15 59 22	LZ	14	32.0 (2)		
		eSKS	16 05 37	LT	19	27.0 (2)		
		eSKS	16 05 40	T	3.0	17.0 (2)		
		eS	16 06 19	R	3.4	10.0 (2)		
		eS	16 06 19	T	3.3	11.0 (2)		
		eS	16 06 20	LR	20	39.0 (2)		
		eS	16 06 20	LT	20	51.0 (2)		
		eSP	16 07 18	LZ	15	62.0 (2)		
		esS	16 09 40	LT	20	32.0 (2)		
		eSS	16 12 35	LR	23	41.0 (2)		
		esSS	16 16 26	LR	28	35.0 (2)		
		e	16 18 57	LR	25	20.0 (2)		
10	AR	eP'	16 01 11.0	Z	0.6	16.0 (0)	106.0	
		e	16 04 39	LZ	22	74.0 (1)		
		e	16 08 14	LT	20	16.0 (2)		
		eSP	16 10 04	LZ	22	99.0 (1)		
		ePKKP	16 12 36	Z	1.2	25.0 (0)		
		e	16 13 45	LR	23	25.0 (2)		
		eSS	16 15 44	LT	25	35.0 (2)		
		esSS	16 19 55	LT	29	28.0 (2)		
		e	16 22 37	R	1.4	37.0 (0)		
		e	16 23 03	LT	30	11.0 (2)		
							AVG.	5.59
10	17 10 12.2		51.3 N 179.1 E				RAT IS., ALEUTIAN ISLANDS	
			H = 060 KM					
10	MV	eP	17 18 03.9	Z	0.8	7.8 (0)	43.0	4.49
10	WI	eP	17 18 13.1	Z	0.5	3.5 (0)	44.0	4.35
10	MN	eP	17 18 23.9	Z	0.8	7.0 (0)	45.0	4.52
10	TF	eP	17 18 30.4	Z	0.9	6.5 (0)	46.0	4.54
10	CP	eP	17 19 00.6	Z	0.8	5.1 (0)	50.0	4.50
10	LC	eP	17 19 46.8	Z	0.8	5.7 (0)	56.0	4.65
							AVG.	4.51
10	MV	eP	17 23 37.4	Z	0.8	2.9 (0)		
10	17 49 16.1		17.5 S 173.6 W				TONGA ISLANDS REGION	
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	CP	eP	18 00 50.3	Z	1.2	13.0 (0)	74.0	4.77
10	WI	eP	18 01 03.7	Z	1.0	13.0 (0)	76.0	4.92
10	LC	eP	18 01 28.2	Z	1.0	11.0 (0)	81.0	4.78
		eL	18 27 51	LZ	21	54.0 (1)		
		eL	18 37 10	LZ	17	13.0 (2)		
		eL	18 37 10	LR	17	80.0 (1)		
		eL	18 37 10	LT	17	87.0 (1)		
10	MN	eL	18 23 15	LZ	19		76.0	
10	FM	eL	18 28 31	LZ	19	92.0 (1)	80.0	
		eL	18 31 38	LZ	19	89.0 (1)		
		eL	18 31 38	LR	20	57.0 (1)		
		eL	18 31 38	LT	18	11.0 (1)		
							AVG.	4.82
10	20 07 56.5		13.6 S 111.6 W				PACIFIC OCEAN	
			H =033 KM					
10	MN	eL	20 32 40	LZ	22		53.0	
10	FM	eL	20 33 25	LZ	27	90.0 (1)	53.0	
		eL	20 34 10	LZ	26	87.0 (1)		
		eL	20 34 10	LR	23	76.0 (1)		
		eL	20 34 10	LT	25	75.0 (1)		
10	21 52 26.6		12.3 N 086.7 W				NICARAGUA	
			H =178 KM					
10	22 47 07.6		30.5 N 094.6 E				SIKANG PROVINCE, CHINA	
			H =033 KM					
11	00 17 37.2		39.9 N 043.9 E				EASTERN TURKEY	
			H =033 KM					
11	00 33 12.0		06.1 S 149.4 E				NEW BRITAIN REGION	
			H =062 KM					
11	02 24 22.9		15.2 S 173.4 W				SAMOA ISLANDS REGION	
			H =033 KM					
11	04 54 05.8		51.5 N 178.0 W				ANDREANOF-ALEUTIAN ISLANDS	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	08 41 16.1		07.3 N 073.8 W				COLOMBIA	
			H =102 KM					
11	DH	eP	14 02 32.2	Z	1.0	27.0 (0)		
11	DH	e	14 04 21	Z	1.4	43.0 (0)		
11	CP	eP	16 17 45.4	Z	0.3	23.0 (0)	0.9	
		eS	16 17 58	R	0.4	18.0 (0)		
11	DH	eP	16 18 34.2	Z	1.0	18.0 (0)		
11	LC	eP	17 30 22.8	Z	0.8	3.2 (0)		
11	17 51 11.1		26.9 N 142.7 E				BONIN ISLANDS REGION	
			H =033 KM					
11	WI	eP	18 03 16.5	Z	1.2	14.0 (0)	80.0	4.73
11	DH	eP	18 03 19.2	Z	1.0	18.0 (0)	80.0	4.92
11	MN	eP	18 03 21.1	Z	1.2	13.0 (0)	80.0	4.70
11	CP	eP	18 03 41.7	Z	1.0	7.2 (0)	84.0	4.76
11	LC	eP	18 04 16.6	Z	1.0	5.4 (0)	92.0	4.83
		e	18 04 51	Z	1.2	8.3 (0)		
							AVG.	4.79
11	19 46 21.5		22.4 S 172.3 E				LOYALTY ISLANDS REGION	
			H =033 KM					
11	WI	eP	19 59 25.3	Z	0.7	1.2 (0)	91.0	4.30
11	WI	eP	19 56 01.8	Z	1.0	3.5 (0)		
11	LC	eP	20 20 40.0	Z	0.8	1.6 (0)		
11	MN	eP	20 22 05.6	Z	0.8	3.0 (0)		
11	MN	eL	20 28 45	LZ	20	16.0 (1)		
11	DH	eP	20 30 24.0	Z	0.8	8.1 (0)		
11	DH	e	20 31 03	Z	1.2	28.0 (0)		
11	MN	eL	20 31 52	LZ	22	25.0 (1)		
11	MN	eL	20 31 52	LR	22	28.0 (1)		
11	DH	e	20 38 08	Z	1.5	11.0 (1)		
11	21 56 22.4		23.8 N 121.3 E				FORMOSA	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MV	eP	22 39 59.6	Z	1.0	21.0 (0)		
11	23 40 49.6		40.9 N 075.6 E			SINKIANG, CHINA BORDER		
			H = 095 KM					
11	DH	eP	23 56 52.0	Z	0.9	21.0 (0)		
12	LC	eP	01 30 30.7	Z	0.7	2.5 (0)		
12	WI	eP	01 32 25.0	Z	0.8	2.7 (0)		
12	04 50 14.3		07.0 S 012.4 W			ASCENSION ISLAND REGION		
			H = 033 KM					
12	LC	eP	05 03 42.4	Z	1.0	3.7 (0)	97.0	4.94
12	12 28 16.3		23.1 S 068.8 W			NORTHERN CHILE		
			H = 150 KM					
12	DH	eP	12 38 43.5	Z	0.5	10.0 (0)	65.0	4.90
		epP	12 39 10	Z	1.0	18.0 (0)		
12	LC	eP	12 38 47.6	Z	1.0	12.0 (0)	66.0	4.68
		epP	12 39 26	Z	1.0	9.9 (0)		
12	CP	eP	12 39 25.5	Z	0.8	9.3 (0)	72.0	4.62
12	FM	eP	12 39 39.0	Z	0.9	17.0 (0)	74.0	4.83
12	TF	eP	12 39 45.9	Z	1.0	17.0 (0)	76.0	4.78
12	MN	eP	12 39 53.0	Z	1.0	12.0 (0)	77.0	4.63
12	WI	eP	12 40 01.4	Z	0.8	38.0 (0)	78.0	5.23
		epP	12 40 29	Z	1.0	18.0 (0)		
12	MV	eP	12 40 05.2	Z	1.2	8.2 (0)	79.0	4.39
						AVG.		4.76
12	MV	eP	14 28 26.9	Z	0.8	4.2 (0)		
12	WI	eP	14 28 36.1	Z	0.7	4.0 (0)		
12	MN	eP	14 28 47.5	Z	0.9	2.6 (0)		
12	CP	eP	14 29 25.3	Z	0.8	1.7 (0)		
12	MN	e	14 29 41	Z	1.0	6.8 (0)		
12	WI	e	14 29 53	Z	1.5	14.0 (0)		
12	LC	eP	14 30 10.9	Z	1.0	11.0 (0)		
12	AR	eP	14 30 24.4	Z	0.5	10.0 (0)		
12	TF	e	14 39 05	LR	23	60.0 (1)		
12	MN	e	14 39 52	LT	30	30.0 (1)		
12	MN	eL	14 48 50	LR	28	29.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	TF	e	14 50 20	LZ	24	90.0 (1)		
12	CP	eLR	14 50 34	LZ	22	12.0 (2)		
12	MN	eLR	14 51 45	LZ	28	22.0 (1)		
12	TF	e	14 52 15	LZ	24	10.0 (2)		
12	TF	e	14 52 15	LR	23	90.0 (1)		
12	CP	eL	14 52 38	LZ	23	10.0 (2)		
12	CP	eL	14 52 38	LT	24	81.0 (1)		
12	MN	eL	14 53 16	LZ	26	20.0 (1)		
12	MN	eL	14 53 16	LR	26	15.0 (1)		
12	MN	eL	14 53 16	LT	25	37.0 (1)		
12	FM	eLR	14 54 00	LZ	25	53.0 (1)		
12	LC	eL	14 54 15	LZ	24	72.0 (1)		
12	FM	eL	14 56 06	LZ	25	44.0 (1)		
12	FM	eL	14 56 06	LR	25			
12	LC	eL	14 56 35	LZ	22	72.0 (1)		
12	LC	eL	14 56 35	LR	23	36.0 (1)		
12	LC	eL	14 56 35	LT	21	52.0 (1)		
12	SJ	eP	15 18 34.0	Z	0.9	31.0 (0)		
12	MN	eP	15 21 27.9	Z	0.7	4.2 (0)		
12	MN	eP	15 52 06.5	Z	0.7	2.5 (0)		
12	18 18 42.9		04.4 S 145.4 E			N. COAST OF NEW GUINEA		
			H = 032 KM					
12	MN	eP	18 32 18.6	Z	0.8	1.5 (0)	98.0	4.71
		e	18 36 39	Z	2.9	62.0 (0)		
		eS	18 43 10	LR	18	97.0 (0)		
		eSS	18 50 10	LT	25	18.0 (1)		
		eL	18 59 05	LT	35	10.0 (2)		
		eLR	19 04 58	LZ	23	83.0 (1)		
		eL	19 07 50	LZ	20	96.0 (1)		
		eL	19 07 50	LR	21	70.0 (1)		
		eL	19 07 50	LT	22	53.0 (1)		
12	TF	eL	18 58 37	LT	38	28.0 (2)	97.0	
12	LC	eL	19 03 21	LT	40	17.0 (2)	108.0	
		eLR	19 09 34	LZ	22	82.0 (1)		
		eL	19 12 00	LZ	23	81.0 (1)		
		eL	19 12 00	LR	21	44.0 (1)		
12	SJ	eL	19 12 00	LT	23	26.0 (1)		
		eL	19 06 30	LT	32	11.0 (2)	116.0	
		eL	19 15 48	LZ	24	86.0 (1)		
		eL	19 15 48	LR	24	11.0 (2)		
		eL	19 15 48	LT	25	55.0 (1)		
						AVG.		4.71
12	LC	eP	20 55 53.9	Z	0.3	20.0 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	20 56 11	R	0.3	26.0 (0)		
12	20 57 00.4		36.5 N 069.2 E H = 050 KM			HINDU KUSH MAG 6.50-6.75 PAS		
12	DH	eP	21 10 19.1	Z	0.8	11.0 (0)	95.0	5.34
		ePP	21 14 04	Z	2.0	17.0 (1)		
		eSKS	21 20 54	LT	28	17.0 (2)		
		e	21 22 50	LT	25	15.0 (2)		
		e	21 29 13	LT	37	25.0 (2)		
		e	21 37 35	LR	25	26.0 (2)		
		eLQ	21 40 17	LR	33	78.0 (2)		
		eLR	21 46 15	LZ	999.9	99.9 (9)		
		eL	21 52 40	LZ	25	18.0 (3)		
		eL	21 52 40	LR	24	13.0 (3)		
		eL	21 52 40	LT	26	67.0 (2)		
12	AR	eP	21 10 22.2	Z	0.7	24.0 (0)	96.0	5.84
		eP	21 10 25	LZ	20	28.0 (1)		
		e	21 14 03	Z	1.0	24.0 (0)		
		eSKS	21 20 55	LT	23	11.0 (2)		
		eS	21 21 32	R	3.0	20.0 (1)		
		eS	21 21 32	T	2.5	21.0 (1)		
		eL	21 55 30	LZ	26	16.0 (3)		
		eL	21 55 30	LR	23	11.0 (3)		
		eL	21 55 30	LT	25	93.0 (2)		
		eSP	21 22 40	LZ	24	20.0 (2)		
		eSP	21 22 53	Z	2.3	24.0 (1)		
		eSS	21 28 32	LT	25	16.0 (2)		
		e	21 37 05	LT	28	28.0 (2)		
		eLQ	21 43 00	LT	32	58.0 (2)		
		eLR	21 48 30	LZ	27	68.0 (2)		
12	MN	eP	21 10 52	LZ	18	20.0 (1)	103.0	
		ePP	21 15 18	Z	1.1	13.0 (0)		
		ePP	21 15 28	LZ	20	32.0 (1)		
		eS	21 21 45	R	2.5	94.0 (0)		
		eS	21 21 45	T	2.0	50.0 (0)		
		eS	21 21 47	LR	19	31.0 (1)		
		eS	21 21 47	LT	19	47.0 (1)		
		e	21 23 05	LT	24	49.0 (1)		
		eSP	21 24 40	LZ	26	11.0 (2)		
		eSP	21 24 41	Z	3.5	32.0 (1)		
		ePKKP	21 26 44	Z	1.0	3.4 (0)		
		eSS	21 30 15	LT	36	19.0 (2)		
		eL	21 40 08	LT	31	12.0 (2)		
12	MV	eP	21 11 01.0	Z	0.8	2.1 (0)	104.0	5.07
		e	21 14 24	Z	1.8	68.0 (0)		
		eSKS	21 21 48	R	2.0	56.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	21 23 10	LT	37	55.0 (2)		
		eSP	21 24 28	Z	3.5	11.0 (1)		
		eSP	21 24 35	LZ	26	12.0 (2)		
		e	21 28 25	LT	30	26.0 (2)		
		eLQ	21 46 31	LT	30	41.0 (2)		
		eLR	21 52 35	LZ	28	42.0 (2)		
		eL	22 02 35	LZ	21	12.0 (3)		
		eL	22 02 35	LR	22	39.0 (2)		
		eL	22 02 35	LT	22	12.0 (3)		
12	LC	ePD	21 12 04.6	Z	1.0	2.5 (0)	110.0	5.45
		e	21 14 55	Z	1.0	4.9 (0)		
		ePP	21 16 23	LZ	18	32.0 (1)		
		eSKS	21 22 13	LT	22	43.0 (1)		
		eSP	21 25 35	Z	4.0	74.0 (1)		
		eSP	21 25 35	LZ	14	35.0 (2)		
		ePKKP	21 26 25	Z	1.0	2.5 (0)		
		e	21 26 54	LZ	25	18.0 (2)		
		eSS	21 31 48	LT	25	13.0 (2)		
		eSSS	21 36 00	LT	23	16.0 (2)		
		e	21 45 53	LT	27	14.0 (2)		
		eLQ	21 47 29	LR	28	47.0 (2)		
		eLR	21 51 22	LZ	38	72.0 (2)		
12	TF	ePP	21 15 49	Z	1.0	17.0 (0)	110.0	
		eSP	21 24 58	LZ	14	31.0 (2)		
		eSKS	21 21 55	LR	26	52.0 (1)		
		eSS	21 30 26	LT	22	81.0 (1)		
		e	21 38 40	LT	30	21.0 (2)		
		eLQ	21 54 30	LR	28	43.0 (2)		
		eLR	21 56 42	LZ	30	79.0 (2)		
12	CP	ePP	21 16 15	Z	1.4	24.0 (0)	111.0	
		eSP	21 25 25	LZ	28	18.0 (2)		
		eLR	21 54 51	LZ	30	57.0 (2)		
		eL	22 06 05	LZ	23	18.0 (3)		
		eL	22 06 05	LR	22	10.0 (3)		
		eL	22 06 05	LT	19	10.0 (2)		
12	SJ	ePP	21 16 38	Z	1.2	61.0 (0)	115.0	
		ePS	21 25 50	LT	20	19.0 (2)		
		e	21 27 32	LT	27	33.0 (2)		
		e	21 32 41	LT	26	24.0 (2)		
		eLQ	21 50 32	LR	32	46.0 (2)		
		eLR	21 58 15	LZ	30	69.0 (2)		
12	FM	eSP	21 24 35	LZ	23	15.0 (2)	105.0	
		eSS	21 30 26	LT	25	16.0 (2)		
		e	21 37 31	LZ	33	18.0 (2)		
		e	21 40 31	LZ	24	14.0 (2)		
		e	21 46 08	LR	24			
		eLQ	21 49 20	LR	26			
		eLR	21 58 20	LZ	999.9	99.9 (9)		

AVG. 5.43

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	23 58	46.8	07.3 S 013.3 W	ASCENSION ISLAND REGION				
			H =033 KM					
13	05 02	22.8	21.3 S 174.7 W	TONGA ISLANDS				
			H =033 KM					
13	MV	eP	05 14 24.0	Z	1.2	5.1 (0)	79.0	4.36
13	MN	eP	05 14 28.4	Z	0.6	0.7 (0)	80.0	3.73
		e	05 14 47	Z	1.5	15.0 (0)		
		eL	05 40 50	LZ	23	6.3 (0)		
		eL	05 55 50	LZ	16	25.0 (1)		
		eL	05 55 50	LR	15	12.0 (1)		
		eL	05 55 50	LT	16	27.0 (1)		
13	WI	eP	05 14 43.5	Z	1.1	4.2 (0)	83.0	4.48
13	LC	eP	05 14 53.4	Z	1.0	3.7 (0)	84.0	4.47
13	TF	eL	05 39 48	LZ	20	10.0 (1)	77.0	
		eL	05 49 25	LZ	16	43.0 (1)		
		eL	05 49 25	LR	15	32.0 (1)		
		eL	05 49 25	LT	15	16.0 (1)		
13	DH	eL	06 00 30	LZ	20	55.0 (0)	111.0	
		eL	06 02 40	LZ	18	13.0 (1)		
		eL	06 02 40	LR	18	12.0 (1)		
				AVG.				4.26
13	MN	eP	06 06 54.1	Z	0.7	5.1 (0)		
13	MN	e	06 07 00	Z	0.6	2.8 (0)		
13	08 07	49.2	47.7 N 157.0 E	KURILE ISLANDS				
			H =031 KM					
13	MV	eP	08 17 36.6	Z	1.0	5.0 (0)	57.0	4.50
13	WI	eP	08 17 44.0	Z	1.0	6.9 (0)	58.0	4.64
		e	08 17 54	Z	1.1	7.1 (0)		
13	MN	eP	08 17 53.7	Z	1.0	6.8 (0)	60.0	4.66
13	LC	eP	08 19 05.3	Z	1.0	3.7 (0)	71.0	4.38
				AVG.				4.55
13	CP	eP	11 31 33.0	Z	0.2	6.2 (0)	1.4	
		eS	11 31 50	T	999.9	99.9 (9)		
13	MN	eP	13 02 55.0	Z	0.6	1.8 (0)		
13	13 59	06.2	25.6 N 109.6 W	GULF OF CALIFORNIA				
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	LC	eP	14 00 53.3	Z	0.6	1.0 (0)	7.0	3.86
		e	14 01 19	Z	0.7	9.8 (0)		
		e	14 01 26	Z	0.7	22.0 (0)		
		eL	14 02 27	LR	21	32.0 (2)		
		eLG	14 02 50	R	999.9	99.9 (9)		
13	CP	eP	14 01 21.1	Z	1.2	8.8 (0)	9.0	4.87
		eL	14 03 41	LZ	20	48.0 (1)		
		eL	14 04 40	R	1.0	2.8 (0)		
13	TF	eP	14 02 13.8	Z	1.4	30.0 (0)	13.0	5.10
		eL	14 04 46	LR	26	10.0 (2)		
		eL	14 06 06	LZ	19	60.0 (1)		
13	MN	eP	14 02 34.7	Z	1.0	2.5 (0)	15.0	3.60
		e	14 02 48	Z	1.5	27.0 (0)		
		eL	14 05 55	LT	32	58.0 (1)		
		eLG	14 06 59	R	1.5	5.0 (0)		
		eL	14 09 00	LZ	13	58.0 (1)		
13	SJ	eP	14 02 54.0	Z	1.6	10.0 (1)	12.0	5.67
		eL	14 04 57	R	1.5	21.0 (1)		
		eLQ	14 05 09	LR	20	12.0 (2)		
		eLR	14 06 15	LZ	12	17.0 (3)		
		eL	14 06 48	T	3.0	20.0 (2)		
		eL	14 06 55	LZ	17	13.0 (2)		
		eL	14 06 55	LR	13	47.0 (2)		
		eL	14 06 55	LT	18	31.0 (2)		
13	WI	eP	14 03 04.9	Z	1.0	3.5 (0)	17.0	3.48
		eL	14 07 24	LT	22	25.0 (1)		
		eL	14 08 37	T	2.2	18.0 (0)		
13	FM	eL	14 06 10	LZ	30	58.0 (1)	16.0	
13	DH	eLQ	14 16 20	LT	17	13.0 (2)	34.0	
		eL	14 16 52	LR	17	51.0 (1)		
		eL	14 16 52	LT	17	13.0 (2)		
		eLR	14 19 21	LZ	17	51.0 (1)		
				AVG.				4.43
13	14 35	02.0	11.6 N 061.3 W	NORTH OF TRINIDAD				
			H =073 KM					
13	DH	eP	14 41 30.5	Z	0.5	7.0 (0)	33.0	4.78
		ePCP	14 44 14	Z	0.6	7.7 (0)		
13	AR	eP	14 42 40.0	Z	0.4	99.9 (9)	41.0	
		eS	14 48 46	R	1.0	12.0 (0)		
13	LC	eP	14 43 23.0	Z	1.0	16.0 (0)	46.0	4.86
		e	14 43 35	Z	0.9	10.0 (0)		
		e	14 44 04	Z	0.9	15.0 (0)		
		eSCP	14 48 49	Z	1.0	61.0 (0)		
		eL	14 57 52	LZ	35	42.0 (1)		
		eL	15 02 46	LZ	25	32.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
13	MN	eL	15 02 46	LR	22	32.0 (1)	57.0	4.06	
		eL	15 02 46	LT	21	17.0 (1)			
		eP	14 44 41.9	Z	0.6	1.1 (0)			
		e	14 46 04	Z	1.0	6.0 (0)			
		eL	15 03 37	LZ	37	30.0 (1)			
		eL	15 07 50	LZ	25	20.0 (1)			
		eL	15 07 50	LR	24	13.0 (1)			
13	WI	eL	15 07 50	LT	22	36.0 (1)	57.0	4.69	
		eP	14 44 43.2	Z	0.5	3.9 (0)			
		e	14 45 05	Z	0.5	9.2 (0)			
13	TF	eP	14 44 50.3	Z	0.9	3.3 (0)	58.0	4.37	
13	MV	eP	14 45 16.4	Z	0.7	2.5 (0)	62.0	4.41	
								AVG.	4.53
13	MN	eP	19 15 08.6	Z	0.6	1.4 (0)			
13	MN	eP	19 28 46.3	Z	0.7	3.4 (0)			
13	LC	eP	21 37 57.6	Z	0.2	1.8 (0)	1.5		
		eS	21 38 17	R	0.3	14.0 (0)			
14	DH	eL	00 30 40	LZ	20	73.0 (0)			
14	DH	eL	00 34 25	LZ	24	23.0 (1)			
14	DH	eL	00 34 25	LT	22	17.0 (1)			
14	DH	eL	00 34 25	LR	24	25.0 (1)			
14	00	33 25.8	39.6 N 028.6 E	WESTERN TURKEY					
			H = 069 KM						
14	DH	eP	07 00 49.5	Z	1.0	38.0 (0)			
14	DH	eP	08 10 17.5	Z	1.0	38.0 (0)			
14	DH	eP	09 03 05.5	Z	1.0	19.0 (0)			
14	11	11 56.4	51.4 S 146.3 E	SOUTH OF TASMANIA					
			H = 033 KM						
14	13	17 02.9	41.8 N 111.5 W	UTAH-IDAHO BORDER					
			H = 033 KM						
14	FM	eP	13 17 42.5	Z	0.3	3.9 (0)	2.5		
		e	13 18 15	R	0.4	67.0 (0)			
14	WI	eP	13 18 05.3	Z	0.5	1.8 (0)	4.1	4.09	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	LC	e	13 18 11	Z	0.5	41.0 (0)	13.0	4.04
		eLQ	13 19 10	R	0.9	19.0 (1)		
		eP	13 20 12.0	Z	0.8	1.5 (0)		
							AVG.	4.07
14	SJ	eP	14 00 34.8	Z	0.7	15.0 (0)		
14	SJ	e	14 00 42	Z	0.8	59.0 (0)		
14	LC	eP	14 01 51.5	Z	0.5	0.9 (0)		
14	MN	eP	14 03 28.7	Z	0.5	10.0 (0)		
14	WI	eP	14 03 38.0	Z	0.5	1.8 (0)		
14	TF	eL	15 29 56	LZ	25	30.0 (1)		
14	TF	eL	15 31 03	LZ	20	40.0 (1)		
14	TF	eL	15 31 03	LR	20	31.0 (1)		
14	15	52 41.2	17.9 S 176.5 E	FIJI ISLANDS				
			H = 033 KM					
14	WI	eP	16 05 13.5	Z	1.0	4.7 (0)	85.0	4.57
		eL	16 32 00	LZ	25	19.0 (1)		
		eL	16 34 08	LZ	22	24.0 (1)		
		eL	16 34 08	LR	20	80.0 (0)		
		eL	16 34 08	LT	20	18.0 (1)		
14	LC	eP	16 05 35.8	Z	1.0	4.9 (0)	89.0	4.66
		eL	16 33 50	LZ	25	23.0 (1)		
		eL	16 35 45	LZ	20	23.0 (1)		
		eL	16 35 45	LR	20	17.0 (1)		
		eL	16 35 45	LT	20	4.9 (0)		
14	MN	eL	16 30 35	LZ	27	31.0 (1)	83.0	
		eL	16 31 57	LZ	25	29.0 (1)		
		eL	16 31 57	LR	25	10.0 (1)		
		eL	16 31 57	LT	25	28.0 (1)		
							AVG.	4.62
14	FM	eP	17 19 07.5	Z	0.8	13.0 (0)		
14	17	23 13.4	26.6 S 178.5 W	SOUTH OF FIJI ISLANDS				
			H = 449 KM					
14	MV	eP	17 34 58.5	Z	1.0	6.8 (0)	84.0	4.28
14	LC	eP	17 35 27.0	Z	0.8	6.5 (0)	91.0	4.61
							AVG.	4.45

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	18 17 52.1		19.9 S 177.6 W H =350 KM				FIJI ISLANDS	
14	CP	eP	18 29 02.4	Z	1.0	12.0 (1)	75.0	5.58
		epP	18 30 34	Z	1.5	17.0 (0)		
		e	18 34 57	Z	0.8	3.4 (0)		
14	TF	eP	18 29 11.2	Z	1.0	17.0 (1)	77.0	5.73
14	MV	eP	18 29 18.5	Z	1.0	15.0 (1)	78.0	5.68
		epP	18 30 43	Z	2.0	75.0 (0)		
14	MN	eP	18 29 27.3	Z	0.9	82.0 (0)	80.0	5.51
		e	18 51 05	LZ	27	21.0 (1)		
		e	18 52 40	LZ	25	25.0 (1)		
14	WI	eP	18 29 38.2	Z	1.0	11.0 (1)	82.0	5.59
		e	18 30 11	Z	1.0	19.0 (0)		
		epP	18 31 03	Z	2.0	88.0 (0)		
		ePP	18 32 52	Z	1.5	27.0 (0)		
14	FM	eP	18 29 50.0	Z	1.0	22.0 (0)	85.0	4.94
14	LC	eP	18 29 53.7	Z	1.0	12.0 (1)	85.0	5.68
		epP	18 31 20	Z	1.2	17.0 (0)		
		ePP	18 33 14	Z	1.2	9.5 (0)		
14	SJ	eP	18 30 15.5	Z	0.8	35.0 (0)	90.0	5.29
							AVG.	5.50

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	00 55 41.0		13.3 N 141.9 E H =045 KM				MARIANA ISLANDS	
15	MV	eP	01 08 22.8	Z	1.0	3.3 (0)	87.0	4.43
15	WI	eP	01 08 34.0	Z	1.0	7.0 (0)	89.0	4.80
15	MN	eP	01 08 35.0	Z	1.0	4.2 (0)	90.0	4.58
							AVG.	4.60
15	LC	eP	02 14 10.0	Z	0.5	0.9 (0)		
15	LC	e	02 14 31	R	1.0	13.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	08 02 13.9		74.4 N 051.5 E				NOVAYA ZEMLYA	
15	MV	eP	08 13 06.1	Z	1.2	5.1 (0)	66.0	4.34
		eL	08 35 50	LZ	35	75.0 (1)		
15	LC	eP	08 13 44.6	Z	1.5	7.3 (0)	73.0	4.29
		eL	08 39 10	LZ	35	42.0 (1)		
		eL	08 45 30	LZ	24	72.0 (1)		
		eL	08 45 30	LR	15	20.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eL	08 45 30	LT	24	76.0 (1)	73.0	
15	CP	eL	08 28 25	LZ	35	32.0 (1)	73.0	
15	AR	eL	08 30 35	LZ	35	52.0 (1)	57.0	
		eL	08 35 57	LR	25	78.0 (1)		
		eL	08 35 57	LZ	22	68.0 (1)		
15	DH	eL	08 33 20	LT	32	40.0 (1)	59.0	
		eL	08 39 45	LR	25	19.0 (1)		
		eL	08 39 45	LT	20	11.0 (2)		
15	WI	eL	08 34 15	LZ	35	45.0 (1)	64.0	
		eL	08 35 00	LZ	24	87.0 (1)		
		eL	08 35 00	LR	24	29.0 (1)		
		eL	08 35 00	LT	20	15.0 (1)		
15	MN	eL	08 35 00	LZ	35	30.0 (1)	67.0	
		eL	08 41 10	LZ	25	70.0 (1)		
		eL	08 41 10	LR	25	24.0 (1)		
		eL	08 41 10	LT	24	61.0 (1)		
15	FM	eL	08 35 22	LZ	35	37.0 (1)	66.0	
		eL	08 41 10	LZ	25	12.0 (1)		
		eL	08 41 10	LR	20	37.0 (1)		
		eL	08 41 10	LT	18	27.0 (1)		
15	TF	eL	08 37 45	LZ	35	32.0 (1)	71.0	
15	SJ	eL	08 41 10	LT	32	30.0 (1)	77.0	
		eL	08 54 15	LR	25	43.0 (1)		
		eL	08 54 15	LT	20	11.0 (2)		
							AVG.	4.32

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	11 18 23.0		20.4 S 068.1 W H =033 KM				SOUTHERN BOLIVIA	
15	CP	eP	11 29 34.7	Z	1.0	5.8 (0)	70.0	4.57
15	FM	eP	11 29 48.0	Z	0.6	9.3 (0)	72.0	4.99
15	MN	eP	11 30 03.3	Z	0.8	2.0 (0)	75.0	4.13
15	WI	eP	11 30 12.0	Z	0.6	5.9 (0)	76.0	4.79
							AVG.	4.62

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eP	11 53 38.0	Z	0.7	1.9 (0)		
15	DH	eP	17 48 00.5	Z	1.0	48.0 (0)		
15	AR	eP	20 08 13.9	Z	1.0	24.0 (0)		
15	22 50 46.3		48.5 N 156.8 E H =033 KM				KURILE ISLANDS PAS	
						6.50-		
15	MV	eP	23 00 30.8	Z	1.0	80.0 (0)	57.0	5.72

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	23 00 30	LZ	12	24.0 (2)		
		eS	23 08 28	R	3.8	34.0 (1)		
		eS	23 08 28	T	2.5	41.0 (0)		
		eS	23 08 35	LR	25	29.0 (2)		
		eS	23 08 35	LT	25	12.0 (2)		
		e	23 15 03	LR	30	31.0 (2)		
		eP P	23 30 30	Z	1.5	20.0 (0)		
15	WI	eP	23 00 38.2	Z	1.0	58.0 (0)	58.0	5.56
		eP	23 00 40	LZ	22	10.0 (2)		
		eS	23 08 41	R	4.5	61.0 (1)		
		eS	23 08 41	T	3.5	18.0 (1)		
		eS	23 08 42	LT	22	19.0 (2)		
		eS	23 08 42	LR	22	15.0 (2)		
		e	23 12 30	LT	22	24.0 (2)		
		eL	23 18 05	LT	30	46.0 (2)		
		eP P	23 30 21	Z	2.0	29.0 (0)		
15	MN	eP	23 00 48.0	Z	999.9	99.9 (9)	59.0	
		eP	23 00 50	LZ	999.9	99.9 (9)		
		eS	23 09 01	R	4.0	21.0 (1)		
		eS	23 09 01	T	3.5	10.0 (1)		
		eP P	23 30 17	Z	2.0	32.0 (0)		
15	TF	eP	23 00 56.4	Z	1.0	56.0 (0)	61.0	5.62
		eP	23 00 56	LZ	15	23.0 (2)		
		eS	23 09 26	LR	25	25.0 (2)		
		e	23 16 11	LR	33	99.9 (9)		
15	FM	eP	23 01 08.5	Z	1.0	11.0 (1)	62.0	5.98
		eP	23 01 10	LZ	17	12.0 (2)		
		eS	23 09 45	LT	15	34.0 (2)		
		eS	23 09 45	LR	12	99.0 (1)		
		eSS	23 13 50	LT	22	20.0 (2)		
		eL	23 20 42	LZ	33	99.9 (9)		
		eL	23 30 16	LZ	20	22.0 (2)		
		eL	23 30 16	LR	22	36.0 (2)		
		eL	23 30 16	LT	20	19.0 (2)		
15	CP	eP	23 01 20.4	Z	1.3	67.0 (0)	64.0	5.51
		eP	23 01 23	LZ	15	19.0 (2)		
		eL	23 20 40	LZ	27	40.0 (2)		
		e	23 30 11	Z	2.5	11.0 (1)		
15	AR	eP	23 01 57.9	Z	1.2	12.0 (1)	70.0	5.80
		eP	23 01 58	LZ	20	10.0 (2)		
		ePP	23 04 42	Z	1.8	11.0 (1)		
		eS	23 11 10	LT	19	21.0 (2)		
		eS	23 11 10	LR	13	36.0 (2)		
		e	23 16 45	LT	28	15.0 (2)		
		eL	23 29 52	LZ	25	99.9 (9)		
		eP P	23 29 55	Z	2.0	24.0 (0)		
15	LC	eP	23 01 59.7	Z	1.4	15.0 (1)	71.0	5.83
		eP	23 02 00	LZ	22	11.0 (2)		
		ePP	23 04 40	Z	2.0	93.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	23 05 11	Z	2.5	13.0 (1)		
		eS	23 11 20	LT	27	13.0 (2)		
		eS	23 11 20	LR	17	14.0 (2)		
		eSS	23 15 55	LR	27	17.0 (2)		
		eL	23 21 45	LT	40	54.0 (2)		
		eL	23 23 07	LZ	25	18.0 (1)		
		eL	23 23 07	LT	21	42.0 (2)		
		eP P	23 29 55	Z	2.0	70.0 (0)		
15	DH	eP	23 02 46.5	Z	1.0	12.0 (1)	79.0	5.81
		eS	23 12 42	LT	18	49.0 (1)		
		eS	23 12 42	LR	15	74.0 (1)		
		e	23 18 25	LT	30	13.0 (2)		
		eL	23 35 35	LT	23	39.0 (2)		
		eL	23 40 05	LR	22	71.0 (2)		
		eL	23 40 05	LT	18	24.0 (2)		
15	SJ	eP	23 02 50.2	Z	1.7	49.0 (1)	79.0	6.19
		eP	23 02 50	LZ	12	65.0 (2)		
		e	23 03 40	Z	1.5	23.0 (1)		
		e	23 06 40	LR	30	22.0 (2)		
		eL	23 33 07	LZ	25	30.0 (2)		
							AVG.	5.78
15	LC	eP	23 40 21.2	Z	1.0	6.2 (0)		
16	03 05 33.0		19.3 N 103.1 W			JALISCO, MEXICO		
			H = 100 KM			MAG 4.75-5.00	PAL	
16	SJ	eP	03 07 49.3	Z	0.7	61.0 (0)	10.0	5.54
		eP	03 07 50	LZ	13	33.0 (2)		
		e	03 08 16	Z	1.2	41.0 (1)		
		eL	03 09 30	Z	2.5	59.0 (2)		
16	LC	eL	03 09 42	LZ	10	11.0 (3)		
		eP	03 08 42.7	Z	1.0	64.0 (0)	14.0	4.81
		eP	03 08 43	LZ	16	45.0 (1)		
		e	03 09 04	Z	1.0	34.0 (0)		
		eS	03 11 18	LR	17	63.0 (1)		
		eS	03 11 18	LT	20	47.0 (1)		
		eL	03 12 35	LZ	33	53.0 (2)		
		eL	03 12 40	Z	1.3	52.0 (0)		
		eL	03 14 07	LR	18	23.0 (2)		
		eL	03 14 07	LZ	20	35.0 (2)		
16	CP	eL	03 14 07	LT	20	23.0 (2)		
		eP	03 09 36.9	Z	0.7	5.0 (0)	18.0	3.86
		eP	03 09 40	LZ	15	59.0 (1)		
		e	03 09 53	Z	1.0	46.0 (0)		
		eL	03 13 10	LZ	23	19.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	FM	eL	03 13 10	LR	23	12.0 (2)		
		eL	03 13 10	LT	25	19.0 (2)		
		eP	03 10 15.5	Z	0.7	9.0 (0)	22.0	4.23
		eP	03 10 16	LZ	20	43.0 (1)		
		e	03 10 33	Z	1.0	75.0 (0)		
		eS	03 14 17	LR	23	17.0 (2)		
		eS	03 14 17	LT	15	20.0 (2)		
		eL	03 16 19	LZ	30	24.0 (2)		
		eL	03 16 26	Z	3.0	41.0 (1)		
		eL	03 18 20	LZ	25	15.0 (2)		
		eL	03 18 20	LR	13	93.0 (1)		
		eL	03 18 20	LT	22	15.0 (2)		
16	TF	eP	03 10 18.0	Z	0.7	7.0 (0)	22.0	4.10
		eP	03 10 19	LZ	15	48.0 (1)		
		e	03 10 36	Z	1.0	37.0 (0)		
		e	03 14 20	LR	20	28.0 (2)		
		eL	03 15 55	LR	25	34.0 (2)		
		eL	03 15 55	LZ	25	81.0 (1)		
16	MN	eP	03 10 32.3	Z	0.9	18.0 (0)	23.0	4.41
		eP	03 10 34	LR	20	33.0 (1)		
		e	03 10 53	Z	1.0	74.0 (0)		
		eLR	03 14 23	LZ	28	39.0 (1)		
		eL	03 17 48	T	2.5	52.0 (0)		
		eL	03 18 30	LT	20	21.0 (2)		
		eL	03 18 30	LR	21	10.0 (2)		
		eL	03 18 30	LZ	20	36.0 (1)		
16	WI	eP	03 10 50.6	Z	0.7	9.2 (0)	25.0	4.32
		eP	03 10 52	LZ	13			
		epP	03 11 10	Z	0.7	25.3 (0)		
		epP	03 11 15	LZ	15	31.0 (1)		
		eS	03 15 05	LT	22	74.0 (1)		
		eL	03 17 50	LT	23	12.0 (2)		
		eL	03 17 50	LR	25	15.0 (2)		
		eS	03 15 05	LR	18	96.0 (1)		
16	MV	eP	03 10 51.0	Z	999.9	99.9 (9)	25.0	
		epP	03 11 12	Z	1.1	25.0 (0)		
		eS	03 15 17	LT	24	87.0 (1)		
		eL	03 17 10	LT	25	95.0 (1)		
16	AR	eP	03 11 24.7	Z	0.7	16.0 (0)	29.0	4.75
		eP	03 11 25	LZ	18	33.0 (1)		
		e	03 11 45	Z	0.9	57.0 (0)		
		eS	03 16 15	LT	20	41.0 (1)		
		eS	03 16 15	LR	20	25.0 (2)		
		eL	03 20 05	LZ	35	17.0 (2)		
		eL	03 20 54	T	0.4	9.0 (0)		
		eL	03 23 00	LZ	25	20.0 (2)		
		eL	03 23 00	LR	25	40.0 (2)		
		eL	03 23 00	LT	25	12.0 (2)		
16	DH	eP	03 12 00.8	Z	0.5	23.0 (0)	33.0	5.26

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	03 12 20	Z	0.7	59.0 (0)		
		e	03 19 35	LZ	20	75.0 (1)		
		eL	03 22 10	LZ	40	28.0 (2)		
		eL	03 25 20	LZ	25	26.0 (2)		
		eL	03 25 20	LR	25	51.0 (1)		
		eL	03 25 20	LT	25	45.0 (1)		
							AVG.	4.59
16	05 36 15.7		35.8 N 118.1 W				KERN COUNTY, CALIFORNIA	
			H = 010 KM				MAG 5.50-5.75	BRK
16	TF	eP	05 36 44.8	Z	999.9	99.9 (9)	1.5	
		eP	05 36 45	LZ	999.9	99.9 (9)		
16	MN	eP	05 36 59.0	Z	999.9	99.9 (9)	2.5	
		eP	05 36 59	LZ	15	92.0 (1)		
		eL	05 41 07	R	1.0	58.0 (0)		
16	CP	eP	05 37 07.9	Z	999.9	99.9 (9)	3.5	
		eP	05 37 08	LZ	15	91.0 (1)		
16	MV	eP	05 37 22.5	Z	999.9	99.9 (9)	4.3	
		eP	05 37 24	LZ	22	55.0 (1)		
		eL	05 38 34	LZ	24	41.0 (2)		
		eL	05 38 34	LR	25	16.0 (3)		
		eL	05 38 34	LT	999.9	99.9 (9)		
16	WI	eP	05 37 40.5	Z	0.3	14.1 (0)	5.5	5.17
		eL	05 39 15	LT	13	83.0 (2)		
		eL	05 39 15	LR	13	33.0 (2)		
		eL	05 39 15	LZ	13	19.0 (2)		
16	FM	eP	05 37 43.5	Z	0.5	7.0 (0)	5.5	4.66
		eP	05 37 45	LZ	22	55.0 (1)		
		e	05 37 59	Z	1.0	31.0 (1)		
		eL	05 39 19	R	1.0	32.0 (1)		
		eL	05 39 21	LZ	20	13.0 (2)		
		eL	05 39 21	LR	19	29.0 (2)		
		eL	05 39 21	LT	20	81.0 (2)		
16	LC	eP	05 38 44.6	Z	0.7	17.0 (0)	10.0	5.62
		eL	05 38 46	LZ	10	69.0 (1)		
		eL	05 41 23	R	1.5	35.0 (0)		
		eL	05 41 26	LZ	25	14.0 (2)		
		eL	05 41 26	LR	25	11.0 (2)		
		eL	05 41 26	LT	25	30.0 (2)		
16	SJ	eP	05 40 40.3	Z	1.3	16.0 (1)	19.0	5.09
		eP	05 40 41	LZ	12	20.0 (2)		
		eS	05 44 18	LR	13	26.0 (2)		
		eLQ	05 45 45	LR	32	14.0 (2)		
		eL	05 46 38	Z	2.5	77.0 (1)		
		eLR	05 47 28	LZ	14	51.0 (2)		
		eL	05 47 28	LR	14	54.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	AR	eP	05 41 46.5	Z	1.1	22.0 (1)	25.0	5.77
		eS	05 46 10	LR	17	47.0 (2)		
		eS	05 46 10	LT	12	74.0 (1)		
		eL	05 49 40	LZ	15	32.0 (2)		
		eL	05 49 40	LR	15	11.0 (3)		
16	DH	eP	05 42 59.3	Z	0.9	27.0 (0)	34.0	5.18
							AVG.	5.25
16	CP	eP	06 38 22.6	Z	999.9	99.9 (9)		
16	TF	eP	09 27 07.5	Z	999.9	99.9 (9)		
16	WI	eP	09 11 25.9	Z	1.0	4.5 (0)		
16	MN	eP	09 27 27.5	Z	0.3	13.0 (0)		
16	CP	eP	09 27 30.5	Z	0.4	1.0 (0)	4.1	
16	MV	eP	09 27 51.5	Z	0.5	4.0 (0)	4.7	
16	CP	eS	09 28 21	T	0.5	27.0 (0)	4.1	
16	MV	eL	09 28 49	T	0.7	55.0 (0)	4.7	
16	10 59	10.5	74.2 N 051.6 E	NOVAYA ZEMLYA				
				MAG 4.75-5.00 PAL				
16	LC	eP	11 10 41.6	Z	1.0	4.0 (0)	73.0	4.47
		eL	11 35 23	LZ	40	48.0 (1)		
		eL	11 45 00	LT	20	93.0 (1)		
		eL	11 45 00	LR	15	14.0 (1)		
		eL	11 45 00	LZ	20	12.0 (2)		
16	DH	eL	11 27 00	LZ	40	11.0 (2)	58.0	
		eL	11 36 30	LZ	20	22.0 (2)		
		eL	11 36 30	LR	20	21.0 (1)		
		eL	11 36 30	LT	20	12.0 (2)		
16	AR	eL	11 27 10	LZ	45	97.0 (1)	57.0	
16	FM	eL	11 31 10	LZ	40	46.0 (1)	67.0	
16	MN	eL	11 31 40	LZ	42	40.0 (1)	68.0	
		eL	11 38 20	LZ	24	79.0 (1)		
		eL	11 38 20	LR	25	28.0 (1)		
		eL	11 38 20	LT	25	57.0 (1)		
		eL	11 32 20	LZ	30	80.0 (1)		67.0
16	WI	eL	11 33 02	LR	28	95.0 (1)	65.0	
16	TF	eL	11 33 05	LZ	50	73.0 (1)	73.0	
		eL	11 38 30	LZ	25	41.0 (1)		
		eL	11 38 30	LR	25	41.0 (1)		
16	CP	eL	11 35 00	LZ	25	45.0 (1)	74.0	
		eL	11 44 32	LZ	20	80.0 (1)		
		eL	11 44 32	LR	20	39.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	SJ	eL	11 44 32	LT	20	17.0 (1)	77.0	
		eL	11 40 33	LZ	28	31.0 (1)		
		eL	11 51 35	LR	20	92.0 (1)		
		eL	11 51 35	LZ	15	29.0 (1)		
		eL	11 51 35	LT	20	12.0 (2)		
							AVG.	4.47
16	TF	eP	11 37 34.0	Z	999.9	99.9 (9)		
16	MN	eP	11 37 49.2	Z	0.5	3.0 (0)		
16	MN	e	11 37 55	Z	0.5	11.0 (0)		
16	MV	eP	11 38 16.0	Z	0.7	17.0 (0)	4.5	
16	WI	eP	11 38 30.6	Z	0.3	1.0 (0)		
16	WI	e	11 38 49	Z	0.5	5.2 (0)		
16	MV	eL	11 39 11	T	0.7	83.0 (0)	4.5	
16	WI	eL	11 40 02	R	0.7	14.4 (0)		
16	CP	eP	12 37 58.8	Z	0.3	1.0 (0)	3.6	
		e	12 38 05	Z	0.3	6.0 (0)		
		eS	12 38 44	T	0.5	42.0 (0)		
16	12 59	17.7	51.2 N 177.0 E	RAT IS., ALEUTIAN IS.				
				H =033 KM				
16	MV	eP	13 07 23.5	Z	1.0	20.0 (0)	44.0	4.80
16	MN	eP	13 07 43.2	Z	0.7	7.0 (0)	46.0	4.72
16	CP	eP	13 08 20.2	Z	0.5	2.0 (0)	51.0	4.25
16	LC	eP	13 09 05.6	Z	0.8	6.0 (0)	57.0	4.72
16	DH	eP	13 10 14.8	Z	0.7	12.0 (0)	68.0	5.10
							AVG.	4.72
16	LC	e	14 13 10	LR	20	18.0 (1)		
16	LC	e	14 19 05	LR	20	27.0 (1)		
16	SJ	eL	14 25 20	LR	40	29.0 (2)		
16	LC	eL	14 26 02	LR	35	69.0 (1)		
16	TF	e	14 26 22	LR	25	31.0 (1)		
16	MN	eL	14 26 50	LR	45	96.0 (1)		
16	CP	eL	14 30 30	LZ	25	65.0 (1)		
16	CP	eL	14 30 30	LR	25	39.0 (1)		
16	TF	eL	14 31 30	LZ	25	91.0 (1)		
16	TF	eL	14 31 30	LR	25	61.0 (1)		
16	FM	eL	14 31 35	LZ	22	17.0 (1)		
16	LC	eLR	14 31 50	LZ	25	31.0 (1)		
16	LC	eL	14 31 50	LR	20	89.0 (0)		
16	LC	eL	14 31 50	LT	25	29.0 (1)		
16	MN	eLR	14 32 22	LZ	25	79.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	MN	eL	14 32 22	LR	25	46.0 (1)		
16	MN	eL	14 32 22	LT	25	54.0 (1)		
16	MV	eL	14 32 50	LZ	20	37.0 (1)		
16	FM	eL	14 34 57	LZ	25	54.0 (1)		
16	FM	eL	14 34 57	LR	25	28.0 (1)		
16	FM	eL	14 34 57	LT	25	29.0 (1)		
16	WI	eL	14 35 05	LR	30	51.0 (1)		
16	WI	eL	14 37 20	LZ	23	11.0 (2)		
16	WI	eL	14 37 20	LR	20	55.0 (1)		
16	WI	eL	14 37 20	LT	22	50.0 (1)		
16	DH	eL	14 40 50	LZ	35	11.0 (2)		
16	DH	eL	14 43 00	LZ	25	66.0 (1)		
16	DH	eL	14 43 00	LT	25	43.0 (1)		
16	TF	eP	18 12 46.4	Z	999.9	99.9 (9)		
16	CP	eP	18 13 25.2	Z	0.6	15.0 (0)		
16	MN	eP	18 13 41.0	Z	0.5	1.0 (0)	4.9	
		e	18 13 48	Z	0.5	11.0 (0)		
16	MV	eP	18 13 50.0	Z	999.9	99.9 (9)		
16	WI	eP	18 14 22.5	Z	0.5	1.3 (0)		
16	MN	eS	18 14 40	R	0.8	53.0 (0)	4.9	
16	MV	eL	18 15 07	T	0.7	19.0 (0)		
16	WI	eL	18 16 15	R	0.8	15.7 (0)		
16	TF	eP	18 31 28.3	Z	999.9	99.9 (9)		
16	19	06 29.2	16.7 N 094.2 E	NEAR COAST OF BURMA				
			H =033 KM					
16	22	45 10.8	22.8 N 123.5 E	E. COAST OF FORMOSA				
			H =033 KM					
16	MV	eP	22 58 25.5	Z	1.0	3.0 (0)	94.0	4.66
16	WI	eP	22 58 32.1	Z	1.0	4.6 (0)	95.0	4.86
16	MN	eP	22 58 37.7	Z	1.0	2.0 (0)	96.0	4.71
							AVG.	4.74
17	01	10 18.7	64.3 N 149.3 W	ALASKA				
			H =063 KM					
17	WI	eP	01 16 17.3	Z	1.0	4.6 (0)	29.0	4.14
17	MV	eP	01 16 22.0	Z	1.0	8.3 (0)	30.0	4.46
17	MN	eP	01 16 35.2	Z	1.0	8.4 (0)	31.0	4.50
17	TF	eP	01 16 57.8	Z	1.0	19.0 (0)	34.0	4.92
17	CP	eP	01 17 26.0	Z	1.0	5.8 (0)	37.0	4.39

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	SJ	eL	01 35 45	L#	19	25.0 (2)	49.0	
		eL	01 38 15	LZ	17	15.0 (1)		
		eL	01 38 15	LR	20	52.0 (2)		
		eL	01 38 15	LT	19	25.0 (2)		
							AVG.	4.48
17	MV	eP	01 41 25.5	Z	0.8	1.9 (0)		
17	MN	eL	02 23 26	LZ	32	30.0 (1)		
17	MV	eP	03 27 30.2	Z	0.8	3.0 (0)		
17	WI	eP	03 27 50.8	Z	0.9	1.4 (0)		
17	MN	eP	03 28 03.8	Z	0.9	1.9 (0)		
17	LC	eP	03 30 27.5	Z	0.9	2.8 (0)		
17	04	59 51.5	17.7 S 178.6 W	FIJI ISLANDS				
			H =576 KM					
17	CP	eP	05 10 52.1	Z	0.9	6.6 (0)	78.0	4.07
17	MV	eP	05 10 52.1	Z	1.0	6.7 (0)	78.0	4.03
17	MN	eP	05 11 00.9	Z	0.9	6.5 (0)	80.0	4.06
		epP	05 13 03	Z	1.3	4.8 (0)		
		e	05 14 47	R	4.5	18.0 (1)		
17	WI	eP	05 11 11.5	Z	0.8	6.1 (0)	82.0	4.18
17	LC	eP	05 11 29.2	Z	0.8	2.8 (0)	85.0	3.94
							AVG.	4.06
17	LC	eP	08 24 25.2	Z	0.4	5.9 (0)	1.0	
		eS	08 24 38	R	0.4	16.0 (0)		
17	CP	eP	08 29 03.1	Z	0.3	7.2 (0)	1.1	
		eS	08 29 17	T	0.4	43.0 (0)		
17	TF	eP	09 30 32.6	Z	0.2	89.0 (0)	1.6	
17	MN	eP	09 30 46.5	Z	0.5	5.1 (0)	3.0	
17	TF	eS	09 30 54	R	0.3	79.0 (0)	1.6	
17	MN	eS	09 31 25	T	0.8	7.0 (0)	3.0	
17	15	46 45.9	66.1 N 153.9 W	ALASKA				
			H =053 KM					
17	WI	eP	15 53 10.0	Z	0.5	3.1 (0)	32.0	4.39
17	MN	eP	15 53 29.0	Z	0.8	4.0 (0)	34.0	4.35
							AVG.	4.37

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	TF	eP eS	15 51 06.5 15 51 20	Z T	0.3 0.3	24.0 (0) 84.0 (0)	1.0	
17	16 31 17.9		23.5 N 121.7 E H =033 KM				E. COAST OF FORMOSA	
17	CP	tP	17 46 09.8C	Z	999.9	99.9 (9)		
17	17 55 45.4		21.0 S 179.1 W H =601 KM				FIJI ISLANDS	
17	TF	eP eP epP ePP	18 06 50.7 18 06 51 18 09 02 18 10 08	Z LZ Z LZ	1.3 16 1.2 14	20.0 (1) 42.0 (1) 29.0 (0) 63.0 (1)	78.0	5.39
17	CP	tP ePP eS eS e	18 06 56.3D 18 10 06 18 16 18 18 16 18 18 25 34	Z Z R T Z	1.1 1.2 2.5 2.5 0.6	15.0 (1) 20.0 (0) 51.0 (0) 3.6 (0)	80.0	5.34
17	MV	tP epP eS eS e	18 06 58.0D 18 09 05 18 16 20 18 16 20	Z Z T R	1.3 1.3 2.7 2.4	17.0 (1) 13.0 (0) 10.0 (1) 66.0 (0)	80.0	5.32
17	MN	tP eP epP e tS eS eS ePKKP eP'P' eSKPP'	18 07 06.1D 18 07 08 18 09 20 18 10 20 18 16 37 18 16 37 18 16 40 18 25 29 18 33 32 18 36 01	Z LZ Z LZ R T LT Z Z Z	999.9 29 1.3 18 3.3 3.5 0.5 1.2 1.0	99.9 (9) 22.0 (1) 35.0 (0) 40.0 (1) 28.0 (1) 21.0 (1) 1.6 (0) 10.0 (0) 25.0 (0)	82.0	
17	WI	tP epP eS	18 07 16.4D 18 09 28 18 16 56	Z Z R	1.3 1.5 4.0	18.0 (1) 41.0 (0) 28.0 (1)	84.0	5.44
17	FM	tP epP	18 07 27.0D 18 09 41	Z Z	1.0 1.5	13.0 (1) 55.0 (0)	86.0	5.61
17	LC	eP eP epP ePP eP'P'	18 07 30.9 18 07 31 18 09 46 18 10 48 18 33 27	Z LZ Z LZ Z	1.0 18 1.2 15 1.1	12.0 (1) 16.0 (1) 61.0 (0) 28.0 (1) 6.1 (0)	87.0	5.58
17	SJ	eP	18 07 52.2	Z	1.0	60.0 (0)	91.0	5.58

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
								AVG. 5.47
17	CP	eP	18 58 05.8	Z	999.9	99.9 (9)		
17	19 44 47.8		41.3 N 020.8 E H =033 KM				S. YUGOSLAVIA AND OHRID	
17	WI	eP	19 57 44.5	Z	1.0	3.4 (0)	90.0	4.50
17	CP	eP eS	19 52 56.2 19 53 05	Z T	0.4 0.4	13.0 (0) 81.0 (0)		0.6
17	CP	tP eS	20 23 53.2C 20 24 01	Z T	0.3 0.4	9.3 (0) 29.0 (0)		0.5
17	CP	eP eS	20 28 13.7 20 28 23	Z T	0.2 0.3	30.0 (0) 43.0 (0)		0.6
17	CP	eP	22 42 50.5	Z	1.0	4.3 (0)		
18	00 29 05.2		07.5 N 082.3 W H =033 KM				SOUTH OF PANAMA PAS	
18	LC	eP eP	00 35 43.5 00 35 45	Z LZ	999.9 999.9	99.9 (9) 99.9 (9)		34.0
18	DH	eP eP e	00 35 59.5 00 36 00 00 46 41	Z LZ R	999.9 999.9 3.5	99.9 (9) 99.9 (9) 22.0 (2)		35.0
18	AR	eP eP	00 36 21.8 00 36 26	Z LZ	999.9 12	99.9 (9) 99.9 (9)		38.0
18	CP	eP eP eS eS eL	00 36 43.1 00 36 43 00 42 59 00 42 59 00 50 56	Z LZ R T R	999.9 999.9 8.5 3.5 26.5	99.9 (9) 99.9 (9) 99.0 (2) 65.0 (1)		41.0
18	FM	eP	00 36 51.4	Z	999.9	99.9 (9)		42.0
18	TF	eP eS eS	00 36 55 00 37 15 00 44 02	LZ Z R	999.9 999.9 7.0	99.9 (9) 99.9 (9) 13.0 (3)		45.0
18	MN	eP eP e	00 37 18.1 00 37 20 00 43 59	Z LZ Z	999.9 999.9 4.0	99.9 (9) 99.9 (9) 11.0 (2)		45.0

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	00 44 20	Z	4.0	99.9 (9)		
		eL	00 55 14	Z	20.5			
18	WI	eP	00 37 26.5	Z	999.9	99.9 (9)	46.0	
		eP	00 37 30	LZ	999.9	99.9 (9)		
18	MV	eP	00 37 36.4	Z	1.0	99.9 (9)	47.0	
		eP	00 37 37	LZ	999.9	99.9 (9)		
		eS	00 44 36	T	5.0	26.0 (2)		
		eS	00 44 36	R	5.0	20.0 (2)		
18	MN	eP	02 38 59.3	Z	1.0	5.0 (0)		
18	MN	eP	02 47 53.4	Z	999.9	99.9 (9)		
18	WI	eP	03 25 18.5	Z	1.0	3.5 (0)		
18	MN	eP	03 25 28.3	Z	1.2	5.2 (0)		
18	MN	eP	03 30 39.0	Z	1.0	3.4 (0)		
18	WI	eP	03 30 47.6	Z	0.8	2.7 (0)		
18	MN	eP	03 52 11.1	Z	1.0	1.7 (0)		
18	MN	eP	04 41 04.2	Z	1.0	3.4 (0)		
18	MN	eP	05 03 28.3	Z	1.3	13.0 (0)		
18	WI	eP	05 03 39.2	Z	1.0	3.5 (0)		
18	MN	eP	05 41 03	Z	1.2	3.9 (0)		
18	05 13 37.5		07.3 N 082.4 W				SOUTH OF PANAMA	
			H = 041 KM					
18	SJ	eP	05 19 01.6	Z	0.6	13.0 (0)	25.0	4.71
		eP AS	05 19 10.8	Z	1.2	12.0 (1)		5.38
18	LC	eP	05 20 17.6	Z	1.0	9.8 (0)	34.0	4.65
		eP AS	05 20 27.0	Z	1.0	11.0 (0)		4.70
		e	05 20 57	Z	1.2	9.5 (0)		
		ePCP	05 22 58	Z	1.0	3.7 (0)		
		ePCP AS	05 23 07	Z	1.1	9.1 (0)		
		eL	05 28 41	LT	39	14.0 (2)		
		eL	05 30 48	LT	39	18.0 (2)		
		eL	05 30 48	LZ	16	32.0 (1)		
		eL	05 30 48	LR	16	31.0 (1)		
		eL	05 31 40	LZ	28	74.0 (1)		
18	DH	eP	05 20 33.5	Z	1.0	18.0 (0)	35.0	4.96
		eLQ	05 29 15	LR	36	12.0 (2)		
		eLR	05 30 59	LT	32	20.0 (2)		
		eL	05 32 36	LT	25	18.0 (2)		
		eL	05 32 36	LR	23	15.0 (2)		
		eL	05 32 36	LZ	999.9	99.9 (9)		
18	CP	eP	05 21 17.1	Z	1.0	16.0 (0)	41.0	4.75

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP AS	05 21 26.0	Z	0.9	8.8 (0)		4.53
		eL	05 34 58	LZ	25	10.0 (2)		
		eL	05 36 18	LT	23	65.0 (1)		
		eL	05 36 18	LZ	21	13.0 (2)		
18	FM	eP	05 21 24.0	Z	1.5	94.0 (0)	42.0	5.34
		ePCP	05 23 31.6	Z	1.2	25.0 (0)		
		eL	05 33 22	LR	39	71.0 (1)		
		eL	05 38 40	LT	25	16.0 (2)		
18	TF	eP	05 21 46.9	Z	1.5	55.0 (0)	45.0	5.18
		eL	05 33 30	LR	42	22.0 (2)		
		eL	05 38 31	LR	23	16.0 (2)		
		eL	05 38 31	LZ	22	64.0 (1)		
		eL	05 38 31	LT	22	49.0 (1)		
18	MN	eP	05 21 50.8	Z	999.9	99.9 (9)	45.0	
		eP AS	05 22 00.4	Z	999.9	99.9 (9)		
		eL	05 35 00	LT	36	20.0 (2)		
		eL	05 37 15	LZ	32	99.9 (9)		
18	WI	eP	05 21 96	Z	1.0	33.0 (0)	46.0	5.24
		eP AS	05 22 08.5	Z	1.2	48.0 (0)		5.32
		e	05 22 26	Z	1.0	24.0 (0)		
		eL	05 35 25	LT	50	19.0 (2)		
		eL	05 40 06	LT	25	73.0 (1)		
		eL	05 40 06	LZ	25	92.0 (1)		
		eL	05 40 06	LR	22	38.0 (1)		
18	MV	eP	05 22 10.5	Z	1.0	6.6 (0)	47.0	4.60
							AS .	4.98
							AVG.	4.93
18	DH	e	05 13 37	LR	25	70.0 (1)		
18	06 10 26.3		02.3 N 126.9 E				MOLUCCA PASSAGE	
			H = 033 KM					
18	WI	ePD	06 24 52.6	Z	1.0	2.3 (0)	107.0	5.26
		ePP	06 29 10	Z	1.3	6.7 (0)		
		ePKKP1	06 40 10	Z	1.2	5.4 (0)		
		ePKKP2	06 40 23	Z	1.1	8.6 (0)		
18	LC	ePKP	06 29 16.0	Z	1.1	7.6 (0)	119.0	
		e	06 29 35	Z	0.9	5.7 (0)		
		ePKKP	06 39 35	Z	1.0	6.2 (0)		
18	MN	ePKKP	06 40 20.8	Z	1.0	1.7 (0)	108.0	
		eLQ	06 55 09	LT	35	63.0 (1)		
		eLR	07 03 07	LZ	27	58.0 (1)		
		eL	07 04 00	LR	23	35.0 (1)		
		eL	07 04 00	LZ	24	42.0 (1)		
		eL	07 04 00	LT	25	41.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	CP	eL	07 06 50	LZ	25	33.0 (1)	110.0 AVG.	5.26
18	CP	eP	06 33 26.5	Z	999.9	99.9 (9)		
18	MN	eP	07 02 04.7	Z	0.9	1.9 (0)		
18	08 29 02.7		73.2 N 054.7 E				NOVAYA ZEMLYA	
18	MN	eL	09 02 09	LZ	40	24.0 (1)	68.0	
		eL	09 08 15	LT	25	29.0 (1)		
		eL	09 08 15	LZ	23	35.0 (1)		
		eL	09 08 15	LR	24	16.0 (1)		
18	DH	eL	09 02 30	LT	25	23.0 (1)	60.0	
		eL	09 06 30	LT	19	55.0 (1)		
		eL	09 06 30	LR	22	14.0 (1)		
		eL	09 06 30	LZ	18	89.0 (1)		
18	WI	eL	09 04 59	LZ	26	31.0 (1)	66.0	
		eL	09 07 35	LR	24	32.0 (1)		
		eL	09 07 35	LZ	22	40.0 (1)		
		eL	09 07 35	LT	21	18.0 (1)		
18	LC	eL	09 07 25	LZ	32	41.0 (1)	74.0	
		eL	09 14 49	LT	20	42.0 (1)		
		eL	09 14 49	LZ	20	59.0 (1)		
		eL	09 14 49	LR	16	19.0 (1)		
18	MN	eP	08 58 19.8	Z	1.3	3.2 (0)		
18	WI	eP	08 58 27.1	Z	0.9	1.8 (0)		
18	WI	eP	09 30 49.1	Z	0.8	1.4 (0)		
18	MN	eP	09 39 30.8	Z	1.3	3.2 (0)		
18	CP	eP	10 11 58.5	Z	999.9	99.9 (9)		
18	LC	eP	10 40 43.0	Z	1.0	3.7 (0)		
18	12 19 44.3		26.4 N 096.6 E				NORTHERN BURMA	
			H =076 KM					
18	MN	eP	14 00 49.1	Z	1.0	3.4 (0)		
18	WI	eP	15 40 47.1	Z	0.5	4.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	WI	eP	16 09 05.5	Z	0.5	6.6 (0)		
18	WI	eL	16 10 04	R	0.5	11.0 (0)		
18	WI	eP	16 45 49.2	Z	0.4	4.0 (0)		
18	LC	eP	19 48 11.0	Z	0.2	99.9 (9)	1.5	
		eS	19 48 29	R	999.9	99.9 (9)		
18	20 11 47.5		21.0 S 169.9 E				NEW HEBRIDES ISLANDS	
			H =081 KM					
18	TF	eP	20 24 25.1	Z	1.0	28.0 (0)	87.0	5.29
18	MV	eP	20 24 29.5	Z	1.0	37.0 (0)	88.0	5.43
18	CP	eP	20 24 34.1	Z	1.0	10.0 (0)	89.0	
18	WI	eP	20 24 46.1	Z	0.9	14.0 (0)	91.0	5.21
18	LC	eP	20 25 06.5	Z	0.9	1.9 (0)	96.0	4.62
18	MN	eL	20 53 05	LZ	28	35.0 (1)	92.0	
		eL	20 54 30	LT	24	27.0 (1)		
		eL	20 54 30	LR	25	12.0 (1)		
		eL	20 54 30	LZ	24	33.0 (1)		
							AVG.	5.14
18	MN	eP	21 35 58.2	Z	999.9	99.9 (9)		
18	21 47 30.9		14.8 S 178.1 W				FIJI ISLANDS	
			H =526 KM					
18	TF	eP	21 58 12.2	Z	1.0	9.4 (0)	74.0	4.27
		e	22 07 47	LR	25	95.0 (1)		
		e	22 17 03	LT	22	18.0 (2)		
		eLR	22 19 51	LZ	28	13.0 (2)		
		eL	22 19 51	LR	20	11.0 (2)		
18	MV	eP	21 58 22.3	Z	1.0	10.0 (0)	75.0	4.30
		eL	22 17 35	LR	27	71.0 (1)		
		eLR	22 20 55	LZ	30	14.0 (2)		
		eL	22 21 35	LT	24	17.0 (2)		
		eL	22 21 35	LZ	25	10.0 (2)		
		eL	22 21 35	LR	21	67.0 (1)		
18	CP	eP	21 58 22.3	Z	1.3	19.0 (0)	76.0	4.46
		eL	22 20 55	LZ	25	21.0 (2)		
18	MN	eP	21 58 29.0	Z	1.0	6.7 (0)	77.0	4.03
		e	21 58 42	Z	1.5	37.0 (0)		
		e	22 09 00	LT	30	66.0 (1)		
		eL	22 18 35	LT	30	67.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	TF	eP	01 50 26.4	Z	1.2	28.0 (0)	45.0	5.00
		eL	02 02 00	LR	35	94.0 (1)		
		eL	02 08 32	LZ	23	82.0 (1)		
		eL	02 08 32	LR	23	61.0 (1)		
		eL	02 08 32	LT	26			
19	WI	eP	01 50 38.5	Z	0.8	20.0 (0)	46.0	5.13
		eL	02 04 32	LZ	23	50.0 (1)		
		eL	02 06 35	LZ	30	23.0 (1)		
		eL	02 06 35	LR	24	21.0 (1)		
		eL	02 06 35	LT	25	50.0 (1)		
19	MN	eP	01 50 39.8C	Z	1.0	27.0 (0)	46.0	5.16
		eL	02 03 37	LZ	30	56.0 (1)		
		eL	02 11 25	LZ	20	36.0 (1)		
		eL	02 11 25	LR	20	22.0 (1)		
		eL	02 11 25	LT	20	63.0 (1)		
19	MV	eP	01 50 50.5	Z	1.2	10.0 (0)	48.0	4.72
19	DH	eL	01 59 47	LR	27	24.0 (2)	36.0	
		eL	02 01 00	LR	27	24.0 (2)		
19	AR	eL	02 01 48	LZ	23	53.0 (2)	40.0	
		eL	02 03 40	LZ	28	35.0 (1)		
		eL	02 03 40	LR	24	77.0 (1)		
		eL	02 03 40	LT	25	26.0 (1)		
							AVG.	4.71

19 05 07 39.1 48.1 N 145.1 E E. COAST OF SAKHALIN IS.
H = 466 KM

19	MV	eP	05 17 29.0	Z	1.2	18.0 (0)	64.0	4.52
19	WI	eP	05 17 34.0	Z	0.7	7.9 (0)	65.0	4.45
19	MN	eP	05 17 43.8	Z	0.8	12.0 (0)	67.0	4.62
19	FM	eP	05 18 05.0	Z	0.8	3.3 (0)	70.0	3.95
19	CP	eP	05 18 11.5	Z	0.7	7.2 (0)	73.0	4.35
19	LC	eP	05 18 47.0	Z	0.9	7.6 (0)	78.0	4.24
19	DH	eP	05 19 17.0	Z	0.7	54.0 (0)	83.0	4.27
							AVG.	4.34

19 CP eP 06 50 55.6 Z 0.3 35.0 (0) 0.6
eS 06 51 05 T 999.9 99.9 (9)

19 07 28 43.2 29.9 N 050.4 E WESTERN IRAN
H = 066 KM

19 07 48 35.2 11.5 N 141.0 E MARIANA ISLANDS REGION
H = 061 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	MV	eP	08 01 23.5	Z	1.2	15.0 (0)	89.0	5.04
19	TF	eP	08 01 34.0	Z	1.1	34.0 (0)	91.0	4.52
19	WI	eP	08 01 35.0	Z	1.3	49.0 (0)	92.0	5.58
		eL	08 31 15	LZ	25	45.0 (1)		
		eL	08 36 15	LZ	20	30.0 (1)		
		eL	08 36 15	LR	22	53.0 (0)		
		eL	08 36 15	LT	20	35.0 (1)		
19	MN	eP	08 01 36.2	Z	1.0	17.0 (0)	92.0	5.33
		eL	08 27 38	LZ	32	12.0 (1)		
		eL	08 33 30	LZ	20	41.0 (0)		
		eL	08 33 30	LR	23	10.0 (1)		
19	CP	eP	08 01 47.6	Z	1.0	10.0 (0)	94.0	5.16
19	LC	eP	08 02 25.5	Z	1.0	2.5 (0)	102.0	4.86
							AVG.	5.08

19 LC eP 08 18 52.5 Z 1.0 3.7 (0)

19 11 00 56.3 73.8 N 053.8 E NOVAYA ZEMLA
MAG 5.00-5.25 PAL

19	AR	eP	11 10 54	LZ	20	21.0 (1)	58.0	
		eL	11 29 14	LZ	28	15.0 (2)		
		eL	11 35 45	LZ	23	13.0 (2)		
		eL	11 35 45	LR	18	12.0 (2)		
		eL	11 35 45	LT	20	16.0 (2)		
19	WI	eP	11 11 40.2	Z	1.2	8.7 (0)	65.0	4.86
		eP	11 11 40	LZ	23	15.0 (1)		
		e	11 12 44	Z	1.0	7.9 (0)		
		eS	11 20 28	LR	21	21.0 (1)		
		e	11 21 51	LR	38	40.0 (1)		
		eSS	11 24 21	LR	35	33.0 (1)		
		eL	11 31 55	LZ	33	10.0 (2)		
		eL	11 40 00	LZ	23	18.0 (2)		
		eL	11 40 00	LR	23	14.0 (2)		
		eL	11 40 00	LT	23	55.0 (1)		
		e	17 28 30	LZ	195	10.0 (4)		
19	MV	eP	11 11 53.1	Z	1.3	8.3 (0)	67.0	4.86
		eL	11 33 20	LZ	33	13.0 (2)		
		eL	11 38 50	LZ	25	12.0 (2)		
		eL	11 38 50	LR	34	21.0 (2)		
		eL	11 38 50	LT	25	13.0 (2)		
		e	17 40 40	LT	70	13.0 (3)		
19	MN	eP	11 12 00	LZ	20	18.0 (1)	68.0	
		eS	11 21 00	LT	30	18.0 (1)		
		eS	11 21 00	LR	25	12.5 (1)		
		eSS	11 25 25	LT	35	39.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSSS	11 28 50	LZ	28	27.0 (1)		
		eL	11 33 10	LZ	31	93.0 (1)		
		eL	11 42 25	LZ	17	17.0 (1)		
		eL	11 42 25	LR	17	40.0 (1)		
		eL	11 42 25	LT	22	11.0 (2)		
19	TF	e	17 47 35	LZ	83	22.0 (3)		
		eP	11 12 10	LZ	20	21.0 (1)	70.0	
		e	11 30 04	LZ	25	31.0 (1)		
		eL	11 35 21	LZ	40	98.0 (1)		
		eL	11 40 46	LZ	30	96.0 (1)		
		eL	11 40 46	LR	26	93.0 (1)		
19	LC	eL	11 40 46	LT	28			
		eP	11 12 31.4	Z	1.1	6.1 (0)	73.0	4.64
		eP	11 12 34	LZ	20	18.0 (1)		
		eSS	11 26 10	LT	38	47.0 (1)		
		e	11 31 06	LZ	25	36.0 (1)		
		eL	11 36 15	LZ	36	10.0 (2)		
		eL	11 46 00	LZ	21	22.0 (2)		
		eL	11 46 00	LR	24	35.0 (1)		
19	DH	eL	11 46 00	LT	20	18.0 (2)		
		eL	11 29 43	LZ	30	12.0 (2)	59.0	
		eL	11 38 30	LZ	19	40.0 (2)		
		eL	11 38 30	LR	18	49.0 (1)		
19	CP	eL	11 38 30	LT	19	24.0 (2)		
		e	11 30 43	LZ	34	31.0 (1)	74.0	
		eL	11 36 30	LZ	40	64.0 (1)		
		eL	11 46 55	LZ	20	87.0 (1)		
		eL	11 46 55	LR	23			
19	SJ	eL	11 46 55	LT	20	17.0 (2)		
		e	11 32 15	LT	24	34.0 (1)	77.0	
		eL	11 37 20	LT	32	88.0 (1)		
		eL	11 47 00	LZ	22	59.0 (1)		
		eL	11 47 00	LR	20	10.0 (2)		
19	FM	eL	11 47 00	LT	22	26.0 (2)		
		e	17 37 19	LZ	150	51.0 (3)	68.0	
							AVG.	4.79
19	LC	eP	11 22 41.6	Z	1.0	2.5 (0)		
19	MN	eP	12 28 53.8	Z	999.9	99.9 (9)		
19	MV	eP	13 42 17.0	Z	0.7	5.0 (0)		
19	WI	eP	15 15 00.0	Z	1.3	14.0 (0)		
19	MN	eP	15 15 17.3	Z	1.0	22.0 (0)		
19	MN	eL	15 32 40	LZ	35	13.0 (1)		
19	MN	eL	15 38 50	LZ	17	39.0 (1)		
19	MN	eL	15 38 50	LR	16	15.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	MN	eL	15 38 50	LT	16	47.0 (1)		
19	18 06 44.4		09.9 S 120.5 E				SOEMB ISLAND	
			H = 034 KM					
19	DH	eP	18 26 19.7	Z	0.6	23.0 (0)	144.0	
19	CP	eP	18 51 28.8	Z	0.5	8.7 (0)	3.0	
		eS	18 52 12	T	0.5	18.0 (0)		
19	CP	eP	19 19 56.1	Z	0.2	8.3 (0)	0.6	
		eS	19 20 05	T	0.2	23.0 (0)		
19	MN	eP	21 50 30.2	Z	999.9	99.9 (9)		
20	06 03 23.7		04.5 S 080.5 W				COAST OF NORTH PERU	
			H = 017 KM					
20	LC	eP	06 11 36.0	Z	0.9	2.9 (0)	45.0	4.17
20	WI	eP	06 13 09.0	Z	0.7	2.3 (0)	57.0	4.32
							AVG.	4.25
20	06 16 30.4		30.3 N 132.3 E				RYUKYU ISLANDS	
			H = 059 KM					
20	MV	eP	06 28 50.0	Z	0.7	1.8 (0)	82.0	4.13
20	WI	eP	06 28 55.6	Z	0.9	2.6 (0)	84.0	4.28
							AVG.	4.21
20	LC	eP	06 53 06.7	Z	0.6	1.6 (0)		
20	09 25 26.7		15.5 S 076.1 W				COAST OF SOUTH PERU	
			H = 033 KM					
20	LC	eP	09 35 05.6	Z	1.0	5.0 (0)	56.0	4.50
20	WI	eP	09 36 28.5	Z	1.0	4.6 (0)	69.0	4.53
							AVG.	4.52

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	WI	eP	11 09 17.9	Z	0.8	2.2 (0)		
20	SJ	eL	11 13 10	LR	30	82.0 (1)		
20	WI	eP	11 33 20	Z	0.4	16.0 (0)	2.0	
		eS	11 33 47	R	0.5	37.0 (0)		
20	SJ	eL	11 19 20	LR	22	17.0 (2)		
20	SJ	eL	11 19 20	LT	22	68.0 (1)		
20	TF	eL	11 33 57	LR	30	36.0 (1)		
20	TF	eL	11 35 59	LZ	23	26.0 (1)		
20	TF	eL	11 35 59	LR	25	30.0 (1)		
20	WI	eP	14 20 58.5	Z	0.8	1.4 (0)		
20	16 38 24.6	04.7 S 139.4 E	WEST NEW GUINEA					
		H = 033 KM						
20	WI	ePD	16 52 28.9	Z	1.2	7.1 (0)	105.0	5.57
20	CP	eP	16 58 11.1	Z	1.0	7.3 (0)		
20	MV	eP	16 58 17.0	Z	0.8	3.1 (0)		
20	WI	eP	16 58 35.6	Z	1.0	3.4 (0)		
20	LC	eP	16 58 42.2	Z	1.0	3.8 (0)		
20	LC	eP	17 00 08.5	Z	0.3	1.8 (0)	2.9	
		e	17 00 14	Z	0.5	3.8 (0)		
		e	17 00 40	T	0.5	4.4 (0)		
		eS	17 00 45	T	0.5	7.8 (0)		
20	MN	e	17 13 46	LZ	13	26.0 (1)		
20	MN	eLR	17 25 27	LZ	27	27.0 (1)		
20	MN	eL	17 35 15	LZ	19	17.0 (1)		
20	MN	eL	17 35 15	LR	20	14.0 (1)		
20	MN	eL	17 35 15	LT	20	14.0 (1)		
20	TF	eP	17 55 37.1	Z	0.3	8.2 (0)	2.4	
		eS	17 56 08	T	0.4	37.0 (0)		
20	SJ	eP	18 22 08.4	Z	0.8	24.0 (0)		
20	WI	eP	19 21 32.7	Z	0.8	4.1 (0)		
20	WI	eP	20 30 48.7	Z	0.4	2.7 (0)	1.8	
		e	20 30 51	Z	0.4	13.0 (0)		
		eS	20 31 13	R	0.5	60.0 (1)		
20	WI	eP	21 01 14.7	Z	0.4	18.0 (0)		
20	MV	eP	21 01 36.0	Z	0.4	3.3 (0)	3.1	
		eS	21 02 15	R	0.4	8.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	LC	eP	21 38 22.5	Z	0.3	20.0 (0)		1.5
		eS	21 38 41	T	0.4	33.0 (0)		
20	WI	eP	22 25 16.5	Z	0.3	4.1 (0)		1.7
		eS	22 25 40	R	0.5	44.0 (0)		
20	CP	eP	22 38 21.9	Z	0.3	7.4 (0)		1.5
		eS	22 38 40	T	0.5	14.0 (0)		
21	TF	eP	00 56 12.0	Z	0.3	13.0 (0)		1.5
21	MN	eP	00 56 30.5	Z	0.5	3.8 (0)		3.0
21	TF	eS	00 56 32	R	0.3	38.0 (1)		1.5
21	00 56 41.6	08.0 N 126.4 E	NEAR MINDANAO, P. I.					
		H = 146 KM						
21	MN	eS	00 57 08	R	0.5	2.6 (0)		3.0
21	LC	eP	01 25 52.5	Z	1.0	2.5 (0)		
21	02 26 18.5	53.7 N 160.3 E	EAST OF KAMCHATKA					
		H = 147 KM						
21	MN	eP	02 35 40.5	Z	0.7	1.7 (0)	55.0	4.00
21	05 04 28.6	51.4 N 178.0 W	ANDREANOF-ALEUTIAN ISLANDS					
		H = 033 KM						
21	MV	eP	05 12 07.8	Z	0.9	5.2 (0)	41.0	4.30
21	WI	eP	05 12 16.7	Z	0.5	2.1 (0)	42.0	4.07
21	MN	eP	05 12 27.5	Z	0.8	2.0 (0)	43.0	3.90
21	LC	eP	05 13 53.2	Z	0.8	4.4 (0)	54.0	4.54
21	SJ	eL	05 55 05	LR	25	76.0 (1)	63.0	
		eL	05 59 30	LZ	25	34.0 (1)		
		eL	05 59 30	LR	25	19.0 (2)		
		eL	05 59 30	LT	25	35.0 (1)		
21	AR	eL	06 00 40	LZ	40	42.0 (1)	79.0	
21	CP	eL	06 00 53	LR	30	28.0 (1)	48.0	
21	TF	eL	06 02 30	LR	45	91.0 (1)	47.0	
		eL	06 07 00	LZ	25	41.0 (1)		
		eL	06 07 00	LR	25	42.0 (1)		
		eL	06 07 00	LT	25	38.0 (1)		
						AVG.		4.20

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	TF	eP	05 07 29.5	Z	0.3	33.0 (0)	1.2	
		eS	05 07 45	T	0.3	50.0 (0)		
21	CP	eP	05 08 07.5	Z	0.3	1.6 (0)	3.0	
21	MN	eP	05 08 30.6	Z	0.6	1.1 (0)	4.5	
21	CP	eS	05 08 45	R	0.3	3.0 (0)	3.0	
21	MN	eS	05 09 26	R	0.7	3.4 (0)	4.5	
21	SJ	eP	05 47 04.3	Z	0.8	18.0 (0)		
21	LC	eP	05 48 19.0	Z	0.7	1.2 (0)		
21	WI	eP	05 50 02.5	Z	1.0	2.2 (0)		
21	LC	eL	05 59 55	LR	30	21.0 (1)		

21 06 01 40.4 17.6 S 178.9 W FIJI ISLANDS
H = 600 KM

21	MN	eP	06 12 47.8	Z	0.8	3.0 (0)	80.0	3.77
21	WI	eP	06 12 58.5	Z	0.5	2.5 (0)	81.0	3.90
21	LC	eP	06 13 15.8	Z	1.0	4.9 (0)	85.0	4.09
							AVG.	3.92

21	MN	eL	06 04 40	LZ	35	23.0 (1)		
21	WI	eL	06 06 00	LZ	30	16.0 (1)		
21	WI	eL	06 08 25	LZ	25	19.0 (1)		
21	WI	eL	06 08 25	LR	22	27.0 (1)		
21	WI	eL	06 08 25	LT	20	10.0 (1)		
21	MN	eL	06 09 30	LZ	23	27.0 (1)		
21	MN	eL	06 09 30	LR	22	30.0 (1)		
21	MN	eL	06 09 30	LT	22	29.0 (1)		
21	WI	eP	08 13 35.2	Z	0.4	20.0 (0)	1.7	
21	MN	eP	08 13 55.1	Z	0.5	1.9 (0)	3.5	
21	MV	eP	08 13 56.1	Z	0.3	1.8 (0)	3.1	
21	WI	eS	08 13 58	R	0.6	56.0 (0)	1.7	
21	MV	eS	08 14 35	R	0.3	7.3 (0)	3.1	
21	MN	eS	08 14 40	R	0.5	7.1 (0)	3.5	
21	AR	eL	08 30 00	LZ	35	61.0 (1)		
21	WI	eL	08 32 45	LZ	45	67.0 (1)		
21	MN	eL	08 34 38	LZ	45	42.0 (1)		
21	FM	eL	08 34 46	LZ	45	76.0 (1)		
21	MV	eL	08 35 38	LZ	32	50.0 (1)		
21	TF	eL	08 35 50	LZ	35	32.0 (1)		
21	WI	eL	08 40 00	LZ	22	70.0 (1)		
21	WI	eL	08 40 00	LR	22	54.0 (1)		
21	WI	eL	08 40 00	LT	22	35.0 (1)		
21	LC	eL	08 40 03	LZ	30	53.0 (1)		
21	SJ	eL	08 40 55	LR	25	38.0 (1)		
21	MN	eL	08 41 08	LZ	25	53.0 (1)		
21	MN	eL	08 41 08	LR	25	25.0 (1)		

NOVAYA ZEMLYA
SHOT
74.0°N 54.3°E
Z 0801 08.

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MN	eL	08 41 08	LT	25	44.0 (1)		
21	CP	eL	08 41 45	LZ	25	44.0 (1)		
21	TF	eL	08 42 00	LZ	25	41.0 (1)		
21	TF	eL	08 42 00	LR	25	42.0 (1)		
21	TF	eL	08 42 00	LT	25	38.0 (1)		

21 08 44 11.0 21.2 S 179.0 W TONGA ISLANDS REGION
H = 624 KM

21	MV	eP	08 55 22.5	Z	1.0	10.0 (0)	81.0	4.22
21	MN	eP	08 55 30.2	Z	0.9	8.4 (0)	83.0	4.27
21	WI	eP	08 55 41.0	Z	0.8	3.9 (0)	85.0	4.09
21	LC	epP	08 58 11	Z	0.7	1.2 (0)	87.0	4.19
							AVG.	4.19

21	LC	eL	08 46 00	LZ	20	91.0 (1)		
21	LC	eL	08 46 00	LR	20	22.0 (1)		
21	LC	eL	08 46 00	LT	20	68.0 (1)		

21 09 08 45.7 51.4 N 178.3 W ANDREANOF-ALEUTIAN ISLANDS
H = 033 KM

21	MV	eP	09 16 27.3	Z	0.7	3.4 (0)	41.0	4.22
21	WI	eP	09 16 36.4	Z	0.5	1.7 (0)	42.0	4.16
21	MN	eP	09 16 46.6	Z	0.5	1.0 (0)	43.0	3.80
							AVG.	4.06

21	CP	eP	10 05 16.0	Z	0.3	9.3 (0)	0.7	
		eS	10 05 26	T	0.3	10.0 (0)		
21	LC	eP	10 18 11.9	Z	0.8	2.9 (0)		
21	MN	eP	10 52 02.3	Z	0.5	1.3 (0)	1.0	
		eS	10 52 16	R	0.5	3.9 (0)		
21	FM	eP	13 27 32.6	Z	0.4	38.0 (0)	1.2	
		eS	13 27 48	R	0.4	80.0 (0)		

21 14 54 51.0 17.7 S 178.7 W FIJI ISLANDS REGION
H = 536 KM

21	TF	eP	15 05 48.2	Z	1.0	18.0 (0)	76.0	4.56
21	CP	eP	15 05 55.1	Z	0.7	7.2 (0)	78.0	4.21

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	15 05 55.5	Z	0.9	9.1 (0)	78.0	4.20
21	MN	eP	15 06 03.9	Z	1.0	15.0 (0)	79.0	4.38
21	WI	eP	15 06 15.0	Z	0.5	8.4 (0)	82.0	4.53
21	FM	eP	15 06 26.9	Z	0.7	9.4 (0)	84.0	4.53
21	LC	eP	15 06 32.3	Z	1.0	9.8 (0)	85.0	4.39
							AVG.	4.40

21	TF	eP	15 51 55.5	Z	0.3	33.0 (0)	1.6	
21	MN	eP	15 52 15.1	Z	0.5	2.5 (0)	3.0	
21	TF	eS	15 52 17	T	0.3	50.0 (0)	1.6	
21	CP	eP	15 52 26.4	Z	0.3	3.1 (0)	3.5	
21	MN	eS	15 52 53	R	0.5	3.9 (0)	3.0	
21	CP	eS	15 53 09	T	0.3	15.0 (0)	3.5	

21	CP	eP	19 14 39.3	Z	0.3	12.0 (0)	1.4	
		eS	19 14 57	T	0.3	12.0 (0)		

21	MN	eP	20 01 28.6	Z	0.9	2.6 (0)		
21	WI	eP	20 10 46.5	Z	0.4	21.0 (0)	1.5	
		eS	20 11 06	R	0.5	25.0 (0)		
21	MV	eP	20 11 07.5	Z	0.5	3.9 (0)	2.8	
21	MN	eP	20 11 23.8	Z	0.5	1.3 (0)	3.7	
21	MV	eS	20 11 43	R	0.5	7.1 (0)	2.8	
21	MN	eS	20 12 10	R	0.5	7.1 (0)	3.7	
21	LC	eP	20 37 05.0	Z	0.3	2.2 (0)	3.1	
		e	20 37 09	Z	0.5	4.7 (0)		
		eS	20 37 44	R	0.5	4.8 (0)		
21	CP	eP	20 57 42.6	Z	0.3	13.0 (0)	0.8	
		eS	20 57 54	R	0.3	28.0 (0)		

21	WI	eP	21 41 11.5	Z	0.5	2.9 (0)	3.2	
		eS	21 41 52	R	0.5	10.0 (0)		
21	LC	eP	21 58 11.5	Z	0.2	4.7 (0)	2.7	
		e	21 58 20	Z	0.5	5.6 (0)		
		eS	21 58 46	R	0.5	7.6 (0)		

21	MN	eP	22 21 20.1	Z	0.6	4.6 (0)	2.6	
		eS	22 21 53	R	0.6	1.9 (0)		

21 22 38 51.7 57.7 S 064.1 W DRAKE PASSAGE
H = 051 KM

21	SJ	eL	23 22 00	LR	30	10.0 (2)	89.0	
		eL	23 30 00	LZ	20	82.0 (1)		
		eL	23 30 00	LR	20	17.0 (2)		
		eL	23 30 00	LT	20	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	LC	eL	23 25 51	LZ	20	73.0 (1)	97.0	
		eL	23 31 00	LZ	16	10.0 (2)		
		eL	23 31 00	LR	16	63.0 (1)		
		eL	23 31 00	LT	15	80.0 (1)		
21	FM	eL	23 30 37	LZ	35	68.0 (1)	105.0	
		eL	23 34 24	LZ	23	58.0 (1)		
		eL	23 34 24	LR	20	21.0 (1)		

21	MN	eP	23 44 11.8	Z	0.3	12.0 (0)	1.0	
		eS	23 44 25	R	0.5	26.0 (0)		
21	MV	eP	23 45 40.2	Z	0.3	3.1 (0)	2.9	
21	WI	eP	23 46 05.8	Z	0.4	1.5 (0)	4.5	
21	MV	eS	23 46 17	R	0.5	12.0 (0)	2.9	
21	WI	eS	23 47 01	R	0.5	5.0 (0)	4.5	
21	FM	eP	23 47 10.5	Z	0.4	19.0 (0)		

22 03 38 29.9 51.1 N 177.9 E RAT IS., ALEUTIAN ISLANDS
H = 033 KM

22	WI	eP	03 46 40.0	Z	1.0	4.6 (0)	45.0	4.24
22	MN	eP	03 46 51.7	Z	1.0	2.6 (0)	46.0	4.14
22	FM	eP	03 47 14.5	Z	1.0	9.0 (0)	49.0	4.72
22	LC	eP	03 48 14.0	Z	1.0	2.5 (0)	57.0	4.20
							AVG.	4.33

22 06 44 04.9 24.3 S 067.1 W SALTA PROV. ARGENTINA
H = 168 KM

22	LC	eP	06 54 46.5	Z	1.0	6.3 (0)	68.0	4.33
22	FM	eP	06 55 36.2	Z	0.7	9.0 (0)	76.0	4.59
22	MN	eP	06 55 49.7	Z	1.2	6.5 (0)	78.0	4.26
		eLQ	07 19 45	LZ	20	38.0 (1)		
22	WI	eP	06 55 58.5	Z	0.8	9.5 (0)	80.0	4.61
							AVG.	4.45

22 06 51 32.3 26.5 N 097.0 E NORTHERN BURMA
H = 033 KM

22	MV	ePP	07 10 02	Z	1.2	7.8 (0)	105.0	
		eL	07 38 40	LR	48	11.0 (3)		
		eL	07 57 12	LT	20	24.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	WI	eL	07 57 12	LR	22	28.0 (2)		
		eL	07 57 12	LZ	20	11.0 (2)		
		ePP	07 10 04	Z	1.5	44.0 (0)	106.0	
		ePP	07 10 05	LZ	17	32.0 (1)		
		eSKS	07 16 24	LR	18	65.0 (1)		
22	CP	ePS	07 19 30	LR	20	55.0 (1)		
		eL	07 38 50	LT	50	88.0 (2)		
		eP	07 10 10.2	Z	1.2	6.5 (0)	112.0	
		ePP	07 11 06	LZ	20	26.0 (1)		
		eSKS	07 16 56	T	2.0	44.0 (0)		
		e	07 20 33	LZ	24	47.0 (1)		
		eL	07 46 51	LZ	32	89.0 (1)		
		eL	07 59 21	LR	22	23.0 (1)		
		eL	07 59 21	LT	23	15.0 (2)		
		eL	07 59 21	LZ	23	20.0 (2)		
22	MN	ePP	07 10 15	Z	1.4	20.0 (0)	107.0	
		ePP	07 10 15	LZ	15	28.0 (1)		
		e	07 11 12	Z	1.4	12.0 (0)		
		eSKS	07 16 32	R	2.3	62.0 (0)		
		eSKS	07 16 32	LR	20	42.0 (1)		
		e	07 30 40	LR	25	51.0 (1)		
		e	07 34 50	LR	27	56.0 (1)		
		eL	07 39 47	LT	40	40.0 (2)		
		eP	07 10 19.5	Z	1.2	3.9 (0)	117.0	
		ePP	07 11 37	LZ	20	27.0 (1)		
22	LC	ePKKP	07 20 40	Z	1.2	3.9 (0)		
		ePS	07 21 20	LR	20	67.0 (1)		
		eLQ	07 46 45	LT	35	38.0 (2)		
		eL	07 57 35	LT	22	63.0 (2)		
		eL	07 57 35	LR	20	31.0 (2)		
		eL	07 57 35	LZ	22	18.0 (2)		
		ePP	07 10 29	Z	2.5	23.0 (1)	110.0	
		ePP	07 10 33	LZ	18	34.0 (1)		
		eSS	07 26 03	LR	25	54.0 (1)		
		eLQ	07 42 08	LR	42	84.0 (2)		
22	TF	eLR	07 50 03	LZ	25	21.0 (2)		
		ePP	07 10 35	LZ	17	39.0 (1)	110.0	
		e	07 20 03	LZ	18	84.0 (1)		
		eSS	07 25 55	LR	22	56.0 (1)		
		eL	07 40 30	LR	45	67.0 (2)		
22	SJ	ePP	07 12 28	LZ	12	73.0 (1)	124.0	
		ePPP	07 14 55	LZ	12	73.0 (1)		
		eSKS	07 17 42	LR	18	43.0 (1)		
		eSKKS	07 19 22	LR	20	46.0 (1)		
		e	07 29 22	LR	17	80.0 (1)		
22	AR	eL	07 53 27	LT	32	57.0 (2)		
		eSP	07 19 42	LZ	20	54.0 (1)	107.0	
		eL	07 46 25	LT	30	18.0 (2)		
		eL	07 56 40	LT	20	52.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	07 56 40	LZ	20	55.0 (2)		
		eL	07 56 40	LR	15	50.0 (2)		
22	08 06 28.2		36.4 N 069.0 E H = 033 KM				HINDU KUSH	
22	WI	eP	13 44 27.0	Z	0.7	2.9 (0)		
22	WI	eP	14 17 24.0	Z	0.3	2.9 (0)	1.6	
		e	14 17 27	Z	0.3	5.8 (0)		
22	LC	eS	14 17 47	T	0.5	40.0 (0)		
		eP	14 43 29.5	Z	1.0	3.8 (0)		
22	WI	eP	15 09 56.2	Z	0.8	4.1 (0)		
22	MN	eP	15 21 12.2	Z	1.0	3.4 (0)		
22	CP	eP	15 21 14.9	Z	1.1	7.5 (0)		
22	WI	eP	15 21 54.0	Z	1.3	8.8 (0)		
22	TF	eL	15 50 07	LZ	30	24.0 (1)		
22	WI	eL	15 52 55	LZ	30	35.0 (1)		
22	LC	eL	15 53 35	LZ	30	31.0 (1)		
22	SJ	eL	15 54 30	LT	30	10.0 (2)		
22	FM	eL	15 55 03	LZ	32	16.0 (1)		
22	LC	eL	15 57 10	LZ	22	18.0 (1)		
22	LC	eL	15 57 10	LT	20	13.0 (1)		
22	SJ	eL	15 58 08	LZ	20	27.0 (1)		
22	SJ	eL	15 58 08	LT	22	11.0 (2)		
22	16 02 40.2		02.5 S 126.9 E H = 028 KM				CERAM SEA	
22	16 45 31.0		15.5 S 073.1 W H = 137 KM				SOUTHERN PERU	
22	LC	eP	16 55 08.4	Z	1.2	3.9 (0)	58.0	4.21
22	WI	e	16 55 44	Z	1.0	2.5 (0)		
		eP	16 56 30.0	Z	0.7	2.9 (0)	70.0	4.18
							AVG.	4.20
22	18 00 57.7		41.1 N 142.8 E H = 059 KM				COAST OF HOKKAIDO, JAPAN	
22	MN	eP	18 12 16.5	Z	0.8	2.5 (0)	72.0	4.27

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	WI	eP	18 12 18.0	Z	1.0	4.6 (0)	72.0	4.38
22	LC	eP	18 13 29.0	Z	1.0	3.8 (0)	85.0	4.40
							AVG.	4.35
23	MN	eP	00 26 22.3	Z	0.5	7.6 (0)	1.0	
		eS	00 26 36	T	0.3	22.0 (0)		
23	06 59 49.9		23.7 S 179.9 E				FIJI ISLANDS REGION	
			H = 549 KM					
23	MV	eP	07 11 19.0	Z	0.8	3.9 (0)	84.0	4.09
23	MN	eP	07 11 26.1	Z	1.0	3.3 (0)	85.0	3.92
23	WI	eP	07 11 37.2	Z	1.0	4.5 (0)	87.0	4.56
23	LC	eP	07 11 49.9	Z	1.0	7.4 (0)	90.0	4.57
							AVG.	4.29
23	07 01 45.7		04.9 S 151.9 E				NEW BRITAIN	
			H = 071 KM					
23	TF	eP	07 14 46.0	Z	0.9	7.2 (0)	92.0	5.00
23	MN	eP	07 14 52.9	Z	0.8	8.9 (0)	93.0	5.18
23	WI	eP	07 14 56.5	Z	1.0	7.9 (0)	94.0	5.07
							AVG.	5.08
23	MN	iP	07 23 56.1C	Z	0.3	31.0 (0)	1.1	
		eS	07 24 10	T	0.4	51.0 (0)		
23	MV	eP	07 24 40.0	Z	0.5	1.9 (0)	3.6	
23	WI	eP	07 24 53.1	Z	0.5	6.0 (0)	3.6	
23	MV	eS	07 25 25	T	0.8	9.4 (0)	3.6	
23	WI	eS	07 25 36	Z	0.7	12.0 (0)	3.6	
23	MN	eP	08 59 47.9	Z	0.4	7.9 (0)	1.1	
23	MN	eS	09 00 02	T	0.4	20.0 (0)	1.1	
23	11 49 53.5		14.7 N 045.1 W				NORTH ATLANTIC OCEAN	
			H = 033 KM					
23	LC	eP	11 59 47.9	Z	1.0	9.9 (0)	58.0	4.80
		e	12 04 56	Z	0.7	1.2 (0)		
		eLQ	12 20 43	LR	22	66.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	12 24 33	LR	25	27.0 (1)		
		eL	12 30 03	LZ	30	11.0 (2)		
		eL	12 35 35	LZ	20	62.0 (1)		
23	MN	eL	12 35 35	LR	22	77.0 (1)		
		eL	12 22 40	LZ	25	16.0 (1)	67.0	
		eLR	12 34 45	LZ	33	44.0 (1)		
		eL	12 39 00	LZ	24	61.0 (1)		
		eL	12 39 00	LR	27	67.0 (1)		
		eL	12 39 00	LT	24	47.0 (1)		
							AVG.	4.80
23	12 02 34.7		14.7 N 045.1 W				NORTH ATLANTIC OCEAN	
			H = 032 KM					
23	SJ	eP	12 11 35.7	Z	1.1	5.0 (0)	51.0	4.39
		eS	12 19 03	LR	18	10.0 (2)		
		eS	12 19 03	LT	20	44.0 (1)		
		eL	12 25 38	LR	33	16.0 (2)		
		eL	12 34 25	LZ	23	63.0 (1)		
		eL	12 34 25	LR	22	6.0 (2)		
		eL	12 34 25	LT	20	17.0 (2)		
23	LC	eP	12 12 28.5	Z	1.0	14.0 (0)	58.0	4.95
23	WI	eP	12 13 28.2	Z	1.1	5.5 (0)	67.0	4.60
		eL	12 33 55	LZ	30	40.0 (1)		
		eL	12 40 55	LZ	20	99.0 (1)		
		eL	12 40 55	LR	15	26.0 (1)		
		eL	12 40 55	LT	20	97.0 (1)		
23	TF	eP	12 13 43.5	Z	1.1	12.0 (0)	69.0	4.91
		eL	12 36 13	LZ	32	94.0 (1)		
		eL	12 41 25	LZ	22	10.0 (2)		
		eL	12 41 25	LR	23	99.0 (1)		
		eL	12 41 25	LT	25	57.0 (1)		
23	MV	eP	12 13 48.8	Z	1.2	5.1 (0)	71.0	4.43
		eL	12 40 18	LZ	27	55.0 (1)		
		eL	12 42 50	LZ	20	65.0 (1)		
		eL	12 42 50	LT	21	10.0 (2)		
23	AR	eL	12 34 40	LZ	22	17.0 (2)	47.0	
							AVG.	4.66
23	12 24 13.6		25.9 N 128.6 E				COAST OF RYUKYU ISLAND	
			H = 162 KM					
23	LC	eP	12 37 52.0	Z	1.0	4.9 (0)	103.0	5.23

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	LC	eP	12 46 52.9	Z	0.9	2.8 (0)		
23	TF	eL	15 05 55	LZ	30	86.0 (1)		
23	TF	eL	15 06 50	LZ	23	52.0 (1)		
23	TF	eL	15 06 50	LT	24	57.0 (1)		

23 15 50 46.4 60.1 N 151.2 W KENAI PENINSULA, ALASKA
H = 086 KM

23	MV	eP	15 56 31.0	Z	1.2	13.0 (0)	28.0	4.46
		ePCP	15 59 43	Z	1.0	6.6 (0)		
23	WI	iP	15 56 31.2D	Z	1.0	65.0 (0)	28.0	5.24
		eL	16 03 57	LZ	28	10.0 (2)		
		eL	16 05 35	LZ	25	88.0 (1)		
		eL	16 05 35	LR	24	55.0 (1)		
		eL	16 05 35	LT	24	51.0 (1)		
23	MN	eP	15 56 49.4	Z	0.9	13.0 (0)	30.0	4.67
		ePCP	15 59 49	Z	0.8	2.5 (0)		
		eL	16 05 36	LZ	26	72.0 (1)		
		eL	16 06 24	LZ	26	72.0 (1)		
		eL	16 06 24	LR	24	55.0 (1)		
		eL	16 06 24	LT	25	24.0 (1)		
23	TF	eP	15 57 07.3	Z	1.1	29.0 (0)	32.0	4.95
		ePCP	15 59 53	Z	1.0	14.0 (0)		
23	AR	eP	15 58 06.8	Z	0.8	72.0 (0)	39.0	5.61
		eL	16 10 47	LZ	31	65.0 (1)		
23	LC	eP	15 58 16.9	Z	1.2	38.0 (0)	40.0	5.07
23	DH	eP	15 59 19.2	Z	1.0	31.0 (0)	48.0	5.13
23	SJ	eP	15 59 21.0	Z	0.8	42.0 (0)	48.0	5.36
		eL	16 15 20	LT	24	70.0 (1)		
							AVG.	5.06

23 20 41 28.3 35.5 N 023.3 E W. COAST OF CRETE
H = 033 KM

23	MN	iP	21 30 01.3C	Z	999.9	99.9 (9)		
23	TF	eP	21 30 34.9	Z	0.3	10.0 (0)	3.7	
23	WI	eP	21 30 43.1	Z	0.5	1.7 (0)		
23	MV	eP	21 30 44.3	Z	0.5	7.6 (0)	3.7	
23	WI	e	21 30 52	Z	0.5	26.0 (0)		
23	TF	eS	21 31 20	T	0.5	16.0 (0)	3.7	
23	MV	eS	21 31 30	T	0.8	45.0 (0)	3.7	
23	WI	eL	21 31 38	T	0.5	30.0 (0)		
23	MN	iP	22 25 03.5C	Z	0.3	9.0 (0)	0.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	TF	eS	22 25 16	T	0.4	18.0 (0)		
23	MV	eP	22 25 28.8	Z	0.3	3.4 (0)		2.6
		eP	22 25 31.5	Z	0.3	3.0 (0)		2.2
		eS	22 26 00	T	0.4	9.8 (0)		
23	TF	eS	22 26 02	T	0.5	33.0 (0)		2.6

24 03 26 38.8 44.3 N 080.6 E KAZAKH S. S. R.
H = 033 KM

24 05 28 26.5 09.2 N 126.6 E OFF COAST MINDANAO, P. I.
H = 033 KM

24	MN	eL	06 15 50	LZ	32	31.0 (1)	103.0	
		eL	06 18 55	LZ	24	49.0 (1)		
		eL	06 18 55	LR	25	31.0 (1)		
		eL	06 18 55	LT	27	27.0 (1)		
24	TF	eL	06 16 24	LZ	27	45.0 (1)	105.0	
		eL	06 17 56	LZ	25	42.0 (1)		
		eL	06 17 56	LR	24	21.0 (1)		
		eL	06 17 56	LT	25	28.0 (1)		
24	WI	eL	06 16 30	LZ	25	29.0 (1)	104.0	
		eL	06 18 30	LZ	23	25.0 (1)		
		eL	06 18 30	LT	24	30.0 (1)		
24	MN	e	06 01 40	LT	28	32.0 (1)		
24	TF	eL	06 02 01	LZ	20	75.0 (1)		
24	TF	eL	06 03 01	LZ	19	69.0 (1)		
24	TF	eL	06 03 01	LR	18	30.0 (1)		
24	TF	eL	06 03 01	LT	21	47.0 (1)		
24	MN	eLR	06 04 00	LZ	22	30.0 (1)		
24	MN	eL	06 04 50	LZ	22	30.0 (1)		
24	MN	eL	06 04 50	LT	20	27.0 (1)		
24	MN	eL	06 04 50	LR	20	19.0 (1)		
24	FM	eL	06 05 31	LZ	25	26.0 (1)		
24	AR	eL	06 37 00	LZ	23	36.0 (1)		
24	WI	eP	07 20 14.8	Z	1.0	3.4 (0)		
24	MV	eP	07 20 17.0	Z	0.9	3.3 (0)		
24	MN	eP	07 20 46.4	Z	1.0	2.5 (0)		

24 09 23 16.5 35.9 N 139.6 E HONSHU, JAPAN
H = 083 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	WI	eP	09 34 54.8	Z	0.9	2.6 (0)	76.0	4.11
24	MN	eP	09 35 01.8	Z	0.7	1.4 (0)	77.0	3.95
24	CP	eP	09 35 26.2	Z	0.8	3.4 (0)	81.0	4.26
						AVG.		4.11
24	LC	eP	13 01 49.0	Z	0.7	3.6 (0)		
24	WI	eP	13 04 00.7	Z	0.6	0.9 (0)		
24	MN	eP	13 12 31.5	Z	1.0	4.2 (0)		
24	WI	eP	13 12 52.1	Z	1.1	3.6 (0)		
24	13 56 45.8		23.5 S 067.1 W				JUJUY PROV. ARGENTINA	
			H =162 KM					
24	DH	eP	14 07 04.8	Z	0.7	3.1 (0)	65.0	4.22
24	LC	eP	14 07 23.8	Z	1.0	4.9 (0)	68.0	4.23
24	FM	eP	14 08 13.9	Z	0.6	4.7 (0)	76.0	4.43
24	MN	eP	14 08 28.0	Z	1.0	3.3 (0)	79.0	4.06
24	WI	epP	14 09 01	Z	0.9	2.6 (0)		
24	WI	eP	14 08 36.8	Z	1.0	18.0 (0)	80.0	4.79
		epP	14 09 10	Z	1.0	11.0 (0)		
						AVG.		4.35
24	14 22 47.0		07.7 N 083.3 W				SOUTH OF PANAMA	
			H =079 KM					
24	SJ	eP	14 28 04.3	Z	0.9	23.0 (0)	25.0	4.67
24	LC	eP	14 29 20.4	Z	1.0	3.6 (0)	33.0	4.18
24	MN	eP	14 30 52.5	Z	1.1	18.0 (0)	44.0	4.71
24	WI	eP	14 31 03.1	Z	0.9	3.5 (0)	46.0	4.23
24	MV	eP	14 31 12.4	Z	1.2	5.1 (0)	47.0	4.29
						AVG.		4.42
24	SJ	eL	14 36 45	LR	23	77.0 (1)		
24	14 38 21.7		42.8 N 145.3 E				HOKKAIDO, JAPAN	
			H =033 KM					
24	MV	eP	14 49 12.4	Z	1.0	9.9 (0)	67.0	4.90
		eP AS	14 49 20.8	Z	1.1	57.0 (0)		5.62
		eS	14 58 06	LT	28	48.0 (1)		
		eSS	15 02 25	LT	23	35.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	WI	eLQ	15 05 32	LT	32	80.0 (1)		
		eLR	15 09 13	LZ	28	12.0 (2)		
24	WI	eP	14 49 19.4	Z	0.9	11.0 (0)	68.0	4.95
		eP AS	14 49 28.4	Z	1.0	37.0 (0)		5.44
		eS	14 58 18	LR	23	44.0 (1)		
		eS	14 58 18	LT	23	66.0 (1)		
		eL	15 07 50	LR	25	71.0 (1)		
		eLR	15 10 12	LZ	32	89.0 (1)		
		eL	15 14 00	LZ	23	78.0 (1)		
		eL	15 14 00	LR	20	17.0 (1)		
24	MN	eL	15 14 00	LT	24	11.0 (2)		
		eP	14 49 27.5	Z	1.0	28.0 (0)	69.0	5.32
		eP AS	14 49 37.0	Z	1.1	62.0 (0)		5.62
		eS	14 58 25	LR	23	28.0 (1)		
		eS	14 58 25	LT	23	50.0 (1)		
		eS	14 58 33	R	2.5	41.0 (0)		
		eSCS	14 59 27	R	3.3	14.0 (1)		
		e	15 02 42	LR	26	46.0 (1)		
		eLQ	15 06 21	LT	34	15.0 (2)		
		eLR	15 10 24	LZ	25	12.0 (2)		
		eL	15 17 05	LZ	27	12.0 (2)		
		eL	15 17 05	LR	26	78.0 (1)		
24	TF	eL	15 17 05	LT	29	46.0 (1)		
		eP	14 49 33.6	Z	0.8	5.5 (0)	70.0	4.64
		eP AS	14 49 41.6	Z	1.0	38.0 (0)		5.38
		eS	14 58 58	LR	23	62.0 (1)		
		eS	14 58 58	LT	22	38.0 (1)		
		e	15 06 51	LR	25	51.0 (1)		
		eLR	15 10 38	LZ	27	20.0 (2)		
		eL	15 12 11	LZ	25	18.0 (2)		
		eL	15 12 11	LR	24	10.0 (2)		
24	FM	eL	15 12 11	LT	24	14.0 (2)		
		eP	14 49 47.0	Z	0.8	11.0 (0)	73.0	4.94
		eP AS	14 49 56.1	Z	1.0	56.0 (0)		5.55
		eS	14 59 10	LR	22	67.0 (1)		
		e	15 09 34	LR	39	13.0 (2)		
24	CP	eLR	15 12 22	LZ	26	57.0 (1)		
		eP	14 49 56.4	Z	1.2	8.9 (0)	74.0	4.60
		eP AS	14 50 05.6	Z	1.2	44.0 (0)		5.30
		eL	15 12 05	LZ	26	14.0 (2)		
24	AR	eP	14 50 28.4	Z	1.0	19.0 (0)	80.0	4.95
		eP AS	14 50 36.5	Z	1.0	27.0 (0)		5.10
		eL	15 17 47	LR	28	62.0 (1)		
		eL	15 31 55	LZ	20	16.0 (2)		
		eL	15 31 55	LR	18	25.0 (1)		
		eL	15 31 55	LT	20	15.0 (2)		
24	LC	eP	14 50 31.8	Z	0.8	13.0 (0)	81.0	4.94
		eP AS	14 50 40.9	Z	1.0	39.0 (0)		5.33
		eS	15 00 43	LR	25	44.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
24	SJ	eS	15 00 43	LT	24	35.0 (1)	89.0		
		e	15 09 40	LT	25	35.0 (1)			
		eLQ	15 12 00	LT	30	73.0 (1)			
		eLR	15 16 39	LZ	29	92.0 (1)			
		eL	15 18 45	LZ	25	80.0 (1)			
		eL	15 18 45	LR	25	77.0 (1)			
		eL	15 18 45	LT	24	18.0 (1)			
		eS	15 01 48	LR	24	95.0 (1)			
		eS	15 01 48	LT	25	87.0 (1)			
		eL	15 19 15	LT	25	10.0 (2)			
24	LC	eP	14 40 08.0	Z	0.8	5.0 (0)			
		SJ	eL	14 40 55	LR	22			12.0 (2)
		SJ	eL	14 40 55	LT	27			56.0 (1)
		WI	eP	14 41 06.1	Z	0.9			2.6 (0)
24	MN	eL	14 49 02	LZ	23	20.0 (1)			
24	14 45 37.3			42.9 N 145.3 E		COAST OF HOKKAIDO, JAPAN			
			H = 033 KM						
24	MV	eP	14 56 26.7	Z	0.5	2.5 (0)	67.0	4.60	
24	WI	eP	14 56 41.2	Z	0.6	1.9 (0)	69.0	4.37	
24	MN	eP	14 56 42.7	Z	0.9	2.6 (0)	69.0	4.43	
24	FM	eP	14 57 09.2	Z	0.6	3.9 (0)	74.0	4.55	
24	CP	eP	14 57 14.6	Z	1.0	5.7 (0)	75.0	4.49	
24	LC	eP	14 57 47.2	Z	0.7	6.1 (0)	80.0	4.60	
							AVG.	4.51	
24	15 15 04.3			36.4 N 070.9 E		HINDU KUSH			
			H = 216 KM						
24	WI	eP	16 10 44.6	Z	0.5	2.6 (0)	5.6		
		eS	16 11 52	T	0.6	3.8 (0)			
24	WI	eP	18 43 35.3	Z	0.9	3.5 (0)			
24	SJ	eL	18 45 05	LT	20	11.0 (2)			
24	SJ	eL	18 46 08	LZ	15	13.0 (2)			
24	SJ	eL	18 46 08	LR	18	68.0 (1)			
24	SJ	eL	18 46 08	LT	17	18.0 (2)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	22	01	11.5	00.2 N 124.0 E		CELEBES REGION		
				H = 155 KM				
25	00	21	14.6	55.6 S 124.3 W		SOUTH PACIFIC OCEAN		
				H = 067 KM				
25	CP	eP	00 34 04.0	Z	1.0	8.7 (0)	88.0	4.84
		eL	01 02 00	LZ	28	28.0 (2)		
		eL	01 03 30	LZ	25	19.0 (2)		
		eL	01 03 30	LR	21	17.0 (2)		
		eL	01 03 30	LT	22			
25	LC	eP	00 34 06.2	Z	1.1	11.0 (0)	90.0	4.93
		eS	00 44 55	LR	22	88.0 (1)		
		eS	00 44 55	LT	20	44.0 (1)		
		e	00 56 47	LR	28	12.0 (2)		
		e	00 59 15	LR	37	36.0 (2)		
		eL	01 03 45	LZ	28	15.0 (2)		
		eL	01 05 00	LZ	23	17.0 (2)		
		eL	01 05 00	LR	20	89.0 (1)		
		eL	01 05 00	LT	23	15.0 (0)		
25	TF	eP	00 34 17.7	Z	1.0	9.4 (0)	92.0	5.07
		eS	00 45 00	LR	28	11.0 (2)		
		eS	00 45 00	LT	26	11.0 (2)		
		e	00 50 58	LT	21	14.0 (2)		
		e	00 58 10	LR	25	10.0 (2)		
		e	00 59 25	LR	35	28.0 (2)		
		eL	01 02 30	LZ	24	43.0 (2)		
		eL	01 02 30	LR	25	30.0 (2)		
		eL	01 02 30	LT	25	42.0 (2)		
25	MN	eP	00 34 24.8	Z	1.1	3.1 (0)	93.0	4.58
		eL	01 00 00	LR	43	30.0 (2)		
		eL	01 07 00	LT	23	25.0 (2)		
		eL	01 07 00	LZ	20	16.0 (2)		
		eL	01 07 00	LR	20	14.0 (2)		
25	WI	eP	00 34 45.5	Z	1.0	3.4 (0)	98.0	4.90
		eS	00 46 00	LT	20	70.0 (1)		
		ePS	00 47 33	LR	20	66.0 (1)		
		e	00 50 55	LR	25	97.0 (1)		
		e	01 02 25	LT	40	55.0 (2)		
		eLR	01 06 20	LZ	30	39.0 (2)		
		eL	01 08 00	LZ	23	31.0 (2)		
		eL	01 08 00	LR	23	24.0 (2)		
		eL	01 08 00	LT	23	16.0 (2)		
25	SJ	eS	00 44 30	LR	22	16.0 (2)	86.0	
		eS	00 44 30	LT	22	50.0 (1)		
		eL	00 57 12	LR	43	81.0 (2)		
		eL	01 04 15	LZ	20	16.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	SJ	eL	13 42 50	LR	25	13.0 (2)	76.0	4.44
		eL	13 42 50	LT	25	18.0 (2)		
		eL	13 39 00	LT	45	21.0 (2)		
		eL	13 46 00	LZ	25	91.0 (1)		
		eL	13 46 00	LR	23	14.0 (2)		
25	CP	eL	13 46 00	LT	25	34.0 (2)	73.0	4.44
		eL	13 46 00	LR	28	12.0 (2)		
		AVG.						
25	14 49 46.9	11.7 N 138.6 E	MARIANA ISLANDS					
		H =033 KM						
25	MV	eP	15 02 48.5	Z	0.7	5.0 (0)	91.0	4.92
25	WI	eP	15 02 59.0	Z	1.0	14.0 (0)	93.0	5.31
25	TF	eP	15 02 59.2	Z	0.8	5.5 (0)	93.0	5.01
25	MN	eP	15 03 01.8	Z	0.7	3.3 (0)	94.0	4.81
25	CP	eP	15 03 14.8	Z	0.8	5.1 (0)	97.0	5.18
						AVG.		5.05
25	18 27 03.0	03.6 S 128.3 E	CERAM ISLANDS REGION					
		H =033 KM						
25	CP	eP	18 42 23.5	Z	0.3	6.3 (0)	1.7	
		eS	18 42 47	T	0.6	7.1 (0)		
25	LC	eP	20 13 45.0	Z	0.3	11.0 (0)	1.4	
		eS	20 14 03	R	0.4	8.8 (0)		
25	CP	eP	22 58 13.5	Z	0.3	3.7 (0)	1.4	
		eS	22 58 32	R	0.3	12.0 (0)		
26	01 26 41.2	00.9 N 027.6 W	MID ATLANTIC OCEAN					
		H =033 KM						
26	LC	eP	01 38 51.1	Z	0.7	1.8 (0)	81.0	4.14
26	02 21 52.1	61.8 N 151.6 W	CENTRAL ALASKA					
		H =061 KM						
26	02 53 29.9	46.5 N 153.0 E	KURILE ISLANDS					
		H =051 KM						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	MN	eP	03 03 54.7	Z	0.9	2.5 (0)		
26	05 07 15.2	44.9 N 112.6 W	S. W. MONTANA					
		H =033 KM						
26	MN	eP	08 33 00.9	Z	0.9	1.2 (0)		
26	SJ	eL	08 38 40	LR	40	14.0 (2)		
26	SJ	eL	08 40 15	LZ	20	36.0 (1)		
26	SJ	eL	08 40 15	LR	25	15.0 (2)		
26	SJ	eL	08 40 15	LT	25	37.0 (1)		
26	FM	eL	08 47 04	LZ	30	14.0 (1)		
26	FM	eL	08 50 22	LZ	20	58.0 (1)		
26	FM	eL	08 50 22	LT	21	12.0 (2)		
26	WI	e	08 51 05	LR	23	36.0 (1)		
26	WI	eL	08 52 25	LZ	20	46.0 (1)		
26	WI	eL	08 53 22	LZ	18	92.0 (1)		
26	WI	eL	08 53 22	LR	18	85.0 (1)		
26	WI	eL	08 53 22	LT	18	29.0 (1)		
26	MV	eP	10 20 08.3	Z	0.4	6.1 (0)	2.0	
26	MN	eP	10 20 21.2	Z	0.5	0.9 (0)	3.7	
26	MV	eS	10 20 35	T	0.4	14.0 (0)	2.0	
26	WI	eP	10 21 02.5	Z	0.5	0.4 (0)	6.8	
26	MN	eS	10 21 07	R	0.5	14.0 (0)	3.7	
26	WI	eS	10 22 22	T	0.6	4.7 (0)	6.8	
26	12 44 48.9	27.5 S 176.4 W	KERMADEC ISLANDS REGION					
		H =033 KM						
26	MV	eP	12 57 17.5	Z	1.0	6.5 (0)	84.0	4.72
		e	12 57 31	Z	1.5	33.0 (0)		
		eL	13 23 50	LT	25	38.0 (1)		
26	MN	eP	12 57 24.5	Z	1.0	11.0 (0)	86.0	4.88
26	WI	eP	12 57 35.1	Z	1.2	10.0 (0)	88.0	4.92
		eL	13 26 06	LZ	24	41.0 (1)		
		eL	13 41 34	LT	16	13.0 (2)		
		eL	13 41 34	LZ	16	11.0 (2)		
		eL	13 41 34	LR	17	53.0 (1)		
26	LC	eP	12 57 44.0	Z	1.2	9.5 (0)	90.0	4.86
		e	12 57 56.2	Z	1.2	15.0 (0)		
		eP	13 01 32.0	Z	1.0	2.5 (0)		
		eL	13 26 35	LT	25	35.0 (1)		
		eL	13 29 51	LT	20	50.0 (1)		
		eL	13 29 51	LR	18	32.0 (1)		
		eL	13 29 51	LZ	21	66.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	FM	eP	12 57 44.6	Z	1.0	9.4 (0)	90.0	4.94
		eL	13 26 26	LZ	25	24.0 (1)		
		eL	13 28 58	LR	22	38.0 (1)		
		eL	13 28 58	LZ	21	46.0 (1)		
		eL	13 28 58	LT	20	18.0 (1)		
26	SJ	eSKS	13 08 39	LT	18	34.0 (1)	93.0	
		eS	13 09 18	LT	19	58.0 (1)		
		ePS	13 10 31	LT	17	58.0 (1)		
		eL	13 28 59	LT	26	64.0 (1)		
		eL	13 30 52	LT	20	16.0 (2)		
		eL	13 30 52	LR	20	65.0 (1)		
		eL	13 30 52	LZ	21	65.0 (1)		
26	CP	eL	13 23 07	LZ	23	64.0 (1)	83.0	
		eL	13 24 22	LT	22	91.0 (1)		
		eL	13 24 22	LR	20	29.0 (1)		
		eL	13 24 22	LZ	21	11.0 (2)		
26	AR	eL	13 36 00	LZ	40	68.0 (1)	108.0	
		eL	13 39 35	LR	22	54.0 (1)		
		eL	13 39 35	LZ	21	64.0 (1)		
							AVG.	4.86
26	MV	eP	13 01 09.5	Z	1.0	3.2 (0)		
26	MN	eP	13 01 11.2	Z	1.2	3.7 (0)		
26	WI	eP	13 01 27.2	Z	1.0	3.3 (0)		
26	13 24 30.1		18.7 N 145.4 E				MARIANA ISLAND REGION	
			H = 201 KM					
26	WI	eP	13 36 34.8	Z	1.0	13.0 (0)	83.0	4.62
		epP	13 37 21.5	Z	1.0	8.7 (0)		
26	MN	eP	13 36 37.0	Z	0.8	4.7 (0)	84.0	4.27
		epP	13 37 21.3	Z	1.0	5.6 (0)		
		e	13 37 32	Z	0.7	1.6 (0)		
							AVG.	4.45
26	15 42 49.6		15.2 S 072.4 W				SOUTHERN PERU	
			H = 276 KM					
26	WI	eP	15 53 33.5	Z	0.6	8.2 (0)	70.0	4.64
27	LC	eP	01 05 23.0	Z	1.0	7.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	06 48 45.8		31.2 S 067.9 W				SAN JUAN PROV. ARGENTINA	
			H = 071 KM					
27	LC	eP	07 00 09.8	Z	1.0	16.0 (0)	73.0	4.89
		ePCP	07 00 39	Z	1.0	4.9 (0)		
27	DH	eP	07 00 12.5	Z	0.9	13.0 (0)	74.0	4.78
27	CP	eP	07 00 39.8	Z	1.0	8.6 (0)	79.0	4.55
27	AR	eP	07 00 42.0	Z	0.9	8.5 (0)	79.0	4.59
27	FM	eP	07 00 56.1	Z			81.0	
27	MN	eP	07 01 08.5	Z	0.8	2.4 (0)	85.0	4.26
27	WI	eP	07 01 16.4	Z	1.0	6.6 (0)	86.0	4.58
							AVG.	4.61
27	06 53 30.0		47.4 S 034.3 E				PRINCE EDWARD ISLAND	
			H = 033 KM					
27	LC	eP ¹	07 13 07.5	Z	1.0	7.4 (0)	148.0	
27	MN	eP ¹	07 13 25.0	Z	1.0	0.8 (0)	159.0	
27	07 50 28.3		17.9 S 064.9 W				CENTRAL BOLIVIA	
			H = 120 KM					
27	DH	eP	08 00 38.6	Z	1.0	17.0 (0)	61.0	4.97
27	LC	eP	08 00 47.6	Z	1.0	6.2 (0)	64.0	4.45
		epP	08 01 27	Z	1.0	7.4 (0)		
27	AR	eP	08 01 13.5	Z	1.0	22.0 (0)	68.0	4.92
27	CP	eP	08 01 27.8	Z	1.0	8.6 (0)	70.0	4.51
		epP	08 02 12	Z	1.0	11.0 (0)		
27	FM	eP	08 01 40.4	Z	0.8	22.0 (0)	71.0	5.02
27	MN	eP	08 01 57.9	Z	0.8	6.2 (0)	75.0	4.67
		epP	08 02 42	Z	1.2	13.0 (0)		
27	WI	eP	08 02 05.9D	Z	0.7	36.0 (0)	76.0	5.29
		epP	08 02 37	Z	1.0	20.0 (0)		
27	MV	eP	08 02 10.0	Z	1.0	4.1 (0)	77.0	4.19
							AVG.	4.75
27	08 03 16.4		74.3 N 052.4 E				NOVAYA ZEMLYA	
			MAG				5.25-5.50 PAL	
27	AR	eP	08 13 10	LZ	25	24.0 (1)	58.0	
		eS	08 21 13	LR	24	23.0 (1)		
		eL	08 31 08	LZ	36	25.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	WI	eL	08 35 25	LZ	29	26.0 (2)	64.0	4.69
		eL	08 35 25	LR	33	91.0 (1)		
		eL	08 35 25	LT	28	24.0 (2)		
		eP	08 13 56.9	Z	1.3	6.4 (0)		
		eP	08 14 00	LZ	24	35.0 (1)		
		eS	08 22 20	LR	22	38.0 (1)		
		eS	08 22 20	LT	22	20.0 (1)		
		e	08 24 17	LR	30	45.0 (1)		
		eL	08 34 23	LZ	34	18.0 (2)		
		eL	08 41 05	LZ	25	24.0 (2)		
		eL	08 41 05	LR	25	18.0 (2)		
		eL	08 41 05	LT	19	21.0 (1)		
27	MN	e	14 38 45	LZ	220	85.0 (3)	68.0	
		eP	08 14 19	LZ	20	32.0 (1)		
		e	08 22 50	LT	27	27.0 (1)		
		eL	08 35 49	LZ	32	13.0 (2)		
		eL	08 42 30	LZ	25	22.0 (2)		
		eL	08 42 30	LR	25	72.0 (1)		
		eL	08 42 30	LT	25	15.0 (2)		
		e	15 09 03	LZ	115	35.0 (2)		
		eP	08 14 38	LZ	20	32.0 (1)		71.0
		e	08 31 56	LZ	28	35.0 (1)		
		eL	08 37 46	LZ	35	11.0 (2)		
		eL	08 41 51	LZ	29	14.0 (2)		
eL	08 41 51	LR	30	20.0 (2)				
eL	08 41 51	LT	30	99.0 (1)				
e	15 16 16	LZ	215	75.0 (3)				
eP	08 14 48.4	Z	1.0	3.2 (0)	73.0	4.41		
eP	08 14 49	LZ	21	19.0 (1)				
e	08 27 16	LT	22	30.0 (1)				
e	08 29 32	LT	35	62.0 (1)				
e	08 33 24	LZ	25	47.0 (1)				
eL	08 37 48	LZ	35	17.0 (1)				
eL	08 45 55	LZ	25	22.0 (2)				
eL	08 45 55	LR	21	10.0 (2)				
eL	08 45 55	LT	25	21.0 (2)				
e	15 30 00	LZ	240	80.0 (3)				
e	08 30 46	LZ	34	43.0 (1)			67.0	
eL	08 35 09	LZ	35	16.0 (2)				
eL	08 39 26	LZ	31	14.0 (2)				
eL	08 39 26	LR	31	57.0 (1)				
eL	08 39 26	LT	30	14.0 (2)				
e	14 51 06	LZ	225	55.0 (2)				
eL	08 35 46	LZ	32	21.0 (2)	67.0			
eL	08 40 00	LZ	29	17.0 (2)				
eL	08 40 00	LT	29	16.0 (2)				
e	14 51 25	LZ	165	53.0 (3)				
eL	08 40 17	LZ	33	24.0 (2)		77.0		
eL	08 49 23	LZ	23	12.0 (2)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
27	CP	eL	08 49 23	LR	20	14.0 (2)	73.0					
		eL	08 49 23	LT	23	37.0 (2)						
		e	15 48 35	LT	255	12.0 (4)						
		eL	08 40 25	LZ	30	16.0 (2)						
		eL	08 49 00	LZ	20	21.0 (1)						
		eL	08 49 00	LR	20	91.0 (1)						
		eL	08 49 00	LT	20	71.0 (1)						
		e	15 30 30	LR	150	43.0 (3)						
										AVG.	4.55	
		27	09 18 24.9	42.3 N 142.3 E	HOKKAIDO, JAPAN			H = 047 KM				
		27	MN	eP	09 29 43.7	Z		0.7	1.2 (0)	72.0	3.99	
		27	LC	eP	09 30 44.8	Z		0.9	2.8 (0)	83.0	4.34	
								AVG.	4.17			
27	WI	eP	11 14 37.1	Z	0.5	2.1 (0)						
27	MV	eP	12 15 06.7	Z	1.0	12.0 (0)						
27	MV	e	12 18 29	Z	1.0	10.0 (0)						
27	12 30 53.0	18.4 S 068.7 W	PERU-BOLIVIA BORDER		H = 059 KM							
27	WI	eP	12 42 28.2	Z	1.0	3.1 (0)	77.0	4.21				
		e	12 42 56	Z	1.2	5.1 (0)						
27	12 56 18.6	04.6 S 104.4 E	SOUTHERN SUMATRA		H = 144 KM							
27	WI	eP†	13 15 10.0	Z	1.0	5.5 (0)	128.0					
		e	13 18 15	Z	1.0	3.3 (0)						
27	MN	eP†	13 15 13.1	Z	1.1	6.1 (0)	128.0					
		e	13 18 18	Z	0.7	3.3 (0)						
27	TF	eSKP	13 18 19	Z	1.0	14.0 (0)	130.0					
27	FM	eSKP	13 18 31	Z	1.0	34.0 (0)	135.0					
27	CP	eSKP	13 18 33	Z	0.8	10.0 (0)	133.0					
27	AR	eSKP	13 18 47	Z	0.8	42.0 (0)	139.0					
27	LC	eSKP	13 18 55	Z	1.0	17.0 (0)	140.0					
27	DH	eSKP	13 19 00	Z	1.1	77.0 (0)	143.0					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	MV	eP eS	13 05 38.1 13 06 01	Z R	0.4 999.9	7.0 (0) 99.9 (9)	1.6	
27	13 07	57.8	18.6 N 121.8 E H =030 KM	N. COAST OF LUZON, P. I.				
27	13 25	05.6	17.6 S 178.9 W H =507 KM	FIJI ISLANDS				
27	TF	eP	13 36 05.5	Z	0.9	29.0 (0)	76.0	4.81
27	MV	eP	13 36 12.3	Z	0.9	32.0 (0)	78.0	4.75
27	CP	tP	13 36 12.6C	Z	0.7	24.0 (0)	78.0	4.73
27	MN	eP	13 36 22.2	Z	999.9	99.9 (9)	81.0	
		epP	13 38 15	Z	1.0	5.0 (0)		
27	WI	tP	13 36 31.8C	Z	0.8	43.0 (0)	82.0	5.03
27	FM	eP	13 36 44.0	Z	0.8	17.0 (0)	84.0	4.73
27	LC	eP	13 36 49.6	Z	1.0	30.0 (0)	85.0	4.83
		epP	13 38 45	Z	1.0	3.7 (0)		
							AVG.	4.81
27	18 26	52.5	04.0 S 151.2 E H =051 KM	NEW IRELAND REGION				
27	TF	eSS	18 57 11	LR	23	51.0 (1)	90.0	
		eL	19 04 41	LT	34	86.0 (1)		
		eL	19 08 51	LZ	22	53.0 (1)		
		eL	19 15 24	LZ	20	43.0 (1)		
		eL	19 15 24	LR	20	51.0 (1)		
		eL	19 15 24	LT	18	30.0 (1)		
27	MN	eL	19 05 00	LT	35	75.0 (1)	94.0	
		eLR	19 09 47	LZ	24	47.0 (1)		
		eL	19 10 45	LZ	27	50.0 (1)		
		eL	19 10 45	LR	26	33.0 (1)		
		eL	19 10 45	LT	25	17.0 (1)		
27	LC	eLQ	19 09 22	LT	36	98.0 (1)	102.0	
		eLR	19 13 20	LZ	24	28.0 (1)		
		eL	19 17 40	LZ	24	43.0 (1)		
		eL	19 17 40	LR	23	33.0 (1)		
27	CP	eL	19 10 02	LZ	25	54.0 (1)	92.0	
28	LC	eP	00 53 39.1	Z	0.4	2.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	LC	e	00 54 15	Z	0.7	4.3 (0)		
28	MN	eP	00 55 20.2	Z	1.0	4.2 (0)		
28	MN	eP	02 09 35.8	Z	0.6	1.7 (0)		
28	02 15	32.6	16.7 S 167.5 E H =050 KM	NEW HEBRIDES ISLANDS				
28	03 35	20.3	17.5 S 178.8 W H =584 KM	FIJI ISLANDS REGION				
28	05 16	20.7	44.0 N 149.6 E H =033 KM	KURILE ISLANDS REGION				
28	WI	eP	05 26 56.9	Z	0.7	2.2 (0)	65.0	4.40
28	CP	eP	05 27 30.7	Z	0.8	2.5 (0)	70.0	4.30
							AVG.	4.35
28	MN	eP	05 27 06.2	Z	0.7	1.7 (0)		
28	05 34	21.1	55.0 N 160.7 W H =089 KM	ALASKA PENINSULA				
28	WI	eP	05 40 36.9	Z	0.8	4.0 (0)	31.0	4.22
		eL	05 48 50	LZ	27	31.0 (1)		
28	MN	eP	05 40 59.2	Z	1.0	2.5 (0)	34.0	4.01
		eL	05 50 20	LZ	23	32.0 (1)		
		eL	05 50 20	LR	20	33.0 (1)		
28	CP	eP	05 41 44.5	Z	1.2	6.7 (0)	39.0	4.41
28	LC	eP	05 42 29.0	Z	1.0	3.7 (0)	45.0	4.18
		eL	05 55 55	LZ	25	19.0 (1)		
		eL	05 55 55	LR	25	32.0 (1)		
28	AR	eP	05 42 32.8	Z	0.6	13.0 (0)	45.0	4.86
28	TF	eL	05 50 27	LZ	22	27.0 (1)	35.0	
		eL	05 51 00	LZ	20	27.0 (1)		
		eL	05 51 00	LT	20	21.0 (1)		
28	FM	eL	05 52 05	LZ	20	12.0 (1)	36.0	
							AVG.	4.34
28	MV	eP	06 32 09.5	Z	0.8	5.0 (0)		
28	WI	eP	06 32 12.8	Z	0.8	1.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MN	eP	06 32 15.2	Z	0.8	1.0 (0)		
28	CP	eP	16 25 18.0	Z	0.5	3.8 (0)	2.5	
		eS	16 25 51	Z	0.5	8.8 (0)		
28	18 56 08.7		05.2 N 076.2 W H =127 KM					
28	SJ	eP	19 02 14.0	Z	0.9	54.0 (0)	31.0	5.27
		eP	19 02 15	LZ	15	96.0 (1)		
		epP	19 02 32	Z	0.9	10.0 (1)		
		eS	19 07 40	LT	20	32.0 (2)		
		eS	19 07 40	LR	23	13.0 (2)		
		e	19 11 15	LR	25	37.0 (2)		
		eL	19 18 00	LZ	20	18.0 (2)		
		eL	19 18 00	LR	23	56.0 (2)		
		eL	19 18 00	LT	25	35.0 (2)		
28	DH	eP	19 03 07.9	Z	0.8	67.0 (0)	37.0	5.54
		eS	19 08 45	LT	20	12.0 (2)		
		eS	19 08 45	LR	20	83.0 (1)		
		eL	19 11 32	LT	40	48.0 (2)		
28	LC	eP	19 03 26.5	Z	1.0	54.0 (0)	40.0	5.25
		epP	19 03 46	Z	1.0	49.0 (0)		
		epP	19 03 53	LZ	15	74.0 (1)		
		eSCP	19 09 14	Z	1.2	76.0 (0)		
		ePCS	19 10 00	LT	23	13.0 (2)		
		eL	19 12 10	LZ	20	11.0 (2)		
		eL	19 12 10	LT	25	33.0 (2)		
		eL	19 12 10	LR	20	53.0 (1)		
28	AR	eP	19 03 44.7	Z	0.7	24.0 (0)	42.0	5.05
		epP	19 04 08	Z	1.0	58.0 (0)		
		ePP	19 05 33	LZ	23	45.0 (1)		
		eSCP	19 09 22	Z	1.2	61.0 (0)		
		eS	19 09 50	LR	25	25.0 (2)		
		eS	19 09 50	LT	15	70.0 (1)		
		e	19 13 00	LR	30	45.0 (2)		
		eL	19 16 25	LT	25	29.0 (2)		
		eL	19 19 05	LZ	25	13.0 (2)		
		eL	19 19 05	LT	23	12.0 (2)		
		eL	19 19 05	LR	25	14.0 (2)		
28	CP	eP	19 04 25.5	Z	1.0	19.0 (0)	47.0	4.77
		eP	19 04 26	LZ	20	15.0 (2)		
		epP	19 05 58	Z	1.0	17.0 (0)		
		eSCP	19 09 43	Z	1.5	34.0 (0)		
		eS	19 11 10	LR	30	25.0 (2)		
28	FM	eP	19 04 29.7	Z	1.2	87.0 (0)	48.0	5.35
		epP	19 04 53	Z	1.2	87.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMP	DIST	MAG
		eSP	19 04 58	LZ	15	56.0 (1)		
		eSCP	19 09 46	Z	1.2	43.0 (0)		
		eL	19 22 55	LZ	17	97.0 (1)		
28	TF	eP	19 04 54.3	Z	1.4	58.0 (0)	50.0	5.62
		epP	19 05 21	LZ	20	73.0 (1)		
		e	19 12 46	LR	20	19.0 (2)		
		e	19 16 49	LT	22	12.0 (2)		
		eL	19 25 04	LZ	22	21.0 (2)		
		eL	19 25 04	LT	22	26.0 (2)		
		eL	19 25 29	LR	22	66.0 (1)		
		eL	19 25 29	LT	22	26.0 (2)		
28	WI	eP	19 05 03.1	Z	1.0	16.0 (0)	51.0	4.91
		eSCP	19 10 03	Z	1.4	54.0 (0)		
		eS	19 12 53	LT	20	13.0 (2)		
		eS	19 12 53	LR	20	16.0 (2)		
		eL	19 19 50	LR	25	70.0 (1)		
		eL	19 23 00	LZ	25	77.0 (1)		
		eL	19 23 00	LR	20	14.0 (2)		
		eL	19 23 00	LT	22	17.0 (2)		
28	MV	eP	19 05 14.0	Z	1.0	17.0 (0)	52.0	4.90
		epP	19 05 38	Z	1.0	22.0 (0)		
		eSCP	19 10 10	Z	1.3	16.0 (0)		
28	MN	eSCP	19 09 59	Z	1.3	32.0 (0)	51.0	
		eS	19 12 05	LT	15	27.0 (2)		
		eS	19 12 05	LR	15	59.0 (1)		
		eSS	19 16 05	LR	20	63.0 (1)		
		e	19 21 10	LR	20	71.0 (1)		
		eL	19 24 00	LZ	27	15.0 (2)		
		eL	19 26 35	LZ	25	22.0 (2)		
		eL	19 26 35	LR	23	15.0 (2)		
		eL	19 26 35	LT	24	22.0 (2)		
							AVG.	5.08
28	LC	eP	20 26 42.0	Z	0.3	16.0 (0)	1.5	
		eS	20 27 01	R	0.3	15.0 (0)		
28	22 14 52.7		13.8 S 076.7 W H =061 KM					
28	LC	eP	22 24 14.5	Z	0.8	4.4 (0)	54.0	4.54
28	TF	eP	22 51 48.0	Z	0.3	9.4 (0)	1.1	
		eS	22 52 02	T	0.4	57.0 (0)		



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	05 21	49.6	20.0 S 068.0 W	SOUTHERN BOLIVIA				
			H = 026 KM					
29	LC	eP	05 32 24.0	Z	0.5	0.4 (0)	64.0	4.86
29	CP	eP	05 33 05.4	Z	0.7	4.4 (0)	71.0	4.62
29	TF	eP	05 33 24.1	Z	0.8	6.7 (0)	74.0	4.67
29	WI	eP	05 33 39.1	Z	1.0	18.0 (0)	77.0	5.08
		e	05 34 07	Z	0.7	6.8 (0)		
							AVG.	4.81
29	WI	eP	06 05 53.8	Z	0.9	3.5 (0)		
29	06 21	20.5	40.1 N 021.0 E	GREECE-ALBANIA REGION				
			H = 033 KM					
29	06 53	56.1	28.2 N 057.4 E	SOUTHERN IRAN				
			H = 050 KM					
29	07 58	20.7	17.1 S 070.5 W	COAST OF SOUTH PERU				
			H = 033 KM					
29	LC	eP	08 08 22.1	Z	1.0	4.9 (0)	59.0	4.49
29	WI	eP	08 09 50.6	Z	1.0	4.5 (0)	73.0	4.45
							AVG.	4.47
29	CP	iP	08 30 35.3C	Z	0.5	16.0 (0)	1.6	
29	TF	eP	08 30 42.6	Z	0.3	12.0 (0)	2.2	
29	CP	eS	08 30 57	T	0.5	88.0 (0)	1.6	
29	TF	eS	08 31 12	T	0.6	70.0 (0)	2.2	
29	MV	eP	08 32 58.7	Z	0.7	2.8 (0)		
29	LC	eP	13 05 38.4	Z	1.0	4.2 (0)		
29	WI	eP	15 07 03.0	Z	0.5	1.7 (0)		
29	WI	eL	15 08 15	R	0.7	7.6 (0)		
29	15 17	47.7	27.0 S 063.6 W	ARGENTINA				
			H = 575 KM	MAG	6.50-	PAS		
29	SJ	iP	15 27 26.6D	Z	0.8	69.0 (1)	64.0	6.16

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	15 27 28	LZ	14	27.0 (2)		
		epP	15 29 20	LZ	15	26.0 (2)		
		ePP	15 29 57	Z	1.2	19.0 (1)		
		eSCP	15 31 07	Z	1.5	18.0 (1)		
		eSCP	15 31 14	LZ	14	25.0 (2)		
		eS	15 35 19	R	2.5	20.0 (2)		
		eS	15 35 19	T	2.5	19.0 (2)		
		eS	15 35 20	LR	20	15.0 (2)		
		iS	15 35 20	LT	999.9	99.9 (9)		
		eSCS	15 36 20	LT	20	67.0 (2)		
		eSCS	15 36 28	T	3.0	24.0 (2)		
		esS	15 38 41	LT	25	75.0 (2)		
		eSS	15 39 41	LT	23	76.0 (2)		
		e	15 40 47	LR	23	62.0 (2)		
		e	15 43 34	LT	23	83.0 (2)		
		e	15 46 25	LR	25	44.0 (2)		
		e	15 47 39	LR	22	54.0 (2)		
		e	15 50 00	LT	28	50.0 (2)		
29	DH	eP	15 28 02.4	Z	0.9	69.0 (1)	70.0	6.18
		eP	15 28 05	LZ	17	26.0 (2)		
		epP	15 30 10	Z	1.0	61.0 (0)		
		ePP	15 30 40	Z	0.7	31.0 (0)		
		ePP	15 30 49	LZ	17	22.0 (2)		
		eS	15 36 31	R	2.6	17.0 (2)		
		eS	15 36 31	T	2.1	46.0 (1)		
		iS	15 36 32	LR	18	66.0 (2)		
		eS	15 36 32	LT	18	46.0 (2)		
		esS	15 39 54	LR	18	32.0 (2)		
29	LC	iP	15 28 15.5D	Z	0.9	21.0 (1)	72.0	5.67
		eP	15 28 18	LZ	17	93.0 (1)		
		epP	15 30 08	LZ	20	10.0 (2)		
		epP	15 30 16	Z	1.3	76.0 (0)		
		e	15 35 17	Z	1.5	25.0 (0)		
		eS	15 36 53	R	2.1	26.0 (1)		
		eS	15 36 53	T	2.3	19.0 (1)		
		eS	15 36 56	LR	20	11.0 (2)		
		eS	15 36 56	LT	22	59.0 (2)		
		e	15 37 30	Z	2.0	14.0 (1)		
		eSCS	15 37 33	LR	20	48.0 (2)		
		esS	15 40 20	LT	28	24.0 (2)		
		eSS	15 41 45	LR	25	28.0 (2)		
		esSS	15 44 50	LR	24	23.0 (2)		
		e	15 49 00	Z	0.8	0.8 (0)		
		e	15 49 15	LR	31	18.0 (2)		
		eSKPP	15 58 39	Z	2.0	31.0 (0)		
29	AR	eP	15 28 35.6	Z	0.6	19.0 (1)	76.0	5.80
		eP	15 28 39	LZ	18	15.0 (2)		
		e	15 29 02	Z	0.9	13.0 (1)		
		epP	15 30 36	LZ	16	51.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		epP	15 30 37	Z	1.6	29.0 (1)		
		ePP	15 31 21	LZ	16	15.0 (1)		
		eS	15 37 29	R	2.1	18.0 (1)		
		eS	15 37 29	T	1.8	13.0 (1)		
		IS	15 37 29	LR	19	58.0 (2)		
		eS	15 37 29	LT	21	20.0 (1)		
		e	15 38 18	LR	21	12.0 (2)		
		esS	15 40 45	LR	22	21.0 (2)		
		eSS	15 43 00	LT	25	19.0 (2)		
		esSS	15 45 15	LR	25	14.0 (2)		
		e	15 48 53	LT	33	44.0 (2)		
		e	15 55 35	LZ	23	16.0 (2)		
29	CP	eP	15 28 48.6	Z	0.9	11.0 (1)	78.0	5.29
		eP	15 28 52	LZ	18	10.0 (2)		
		epP	15 30 49	LZ	20	18.0 (2)		
		epP	15 30 51	Z	1.0	15.0 (0)		
		eS	15 37 59	R	3.8	84.0 (1)		
		eS	15 37 59	T	3.5	18.0 (1)		
		eS	15 38 01	LR	23	38.0 (2)		
		eS	15 38 01	LT	20	13.0 (2)		
		e	15 38 14	T	5.5	14.0 (2)		
		eSP	15 38 51	LZ	24	29.0 (2)		
		esS	15 41 42	LR	23	26.0 (2)		
		eSS	15 43 21	LT	23	29.0 (2)		
		esSS	15 46 56	LR	24	22.0 (2)		
		ePKKP	15 47 40	Z	0.7	2.9 (0)		
		e	15 50 22	LR	24	14.0 (2)		
		e	15 52 33	LR	30	13.0 (2)		
		eP P	15 55 34	Z	1.3	8.4 (0)		
		eSKPP	15 58 19	Z	2.0	28.0 (0)		
29	FM	iP	15 29 00.9D	Z	0.9	29.0 (1)	80.0	5.71
		eP	15 29 04	LZ	18	89.0 (1)		
		epP	15 30 55	LZ	18	93.0 (1)		
		epP	15 31 04	Z	1.6	26.0 (1)		
		eS	15 38 24	R	2.5	73.0 (1)		
		eS	15 38 24	T	2.5	98.0 (2)		
		IS	15 38 25	LR	21	42.0 (2)		
		IS	15 38 25	LR	22	51.0 (2)		
		esS	15 41 55	LR	24	21.0 (2)		
		e	15 43 10	LR	20	26.0 (2)		
		esSS	15 46 15	LT	28	39.0 (2)		
		ePKKP	15 47 39	Z	0.8	5.6 (0)		
		e	15 50 51	LR	26	19.0 (2)		
29	TF	eP	15 29 08.6	Z	0.8	13.0 (1)	82.0	5.51
		eP	15 29 12	LZ	15	16.0 (2)		
		epP	15 31 11	LZ	17	21.0 (2)		
		epP	15 31 12	Z	1.4	11.0 (1)		
		eS	15 38 36	LR	25	45.0 (2)		
		eS	15 38 36	LT	21	48.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	15 38 37	R	3.0	64.0 (1)		
		eS	15 38 37	T	3.0	78.0 (1)		
		eSP	15 39 37	LZ	23	25.0 (2)		
		esS	15 41 44	LR	23	28.0 (2)		
		esPS	15 42 52	LT	27	22.0 (2)		
		eSS	15 44 25	LR	24	23.0 (2)		
		esSS	15 47 18	LR	30	20.0 (2)		
		ePKKP	15 47 36	Z	0.7	5.7 (0)		
		e	15 51 16	LR	26	32.0 (2)		
29	MN	eP	15 29 13.8	Z	0.9	63.0 (0)	83.0	5.14
		epP	15 31 18	Z	1.2	71.0 (0)		
29	WI	iP	15 29 21.5D	Z	0.9	23.0 (1)	84.0	5.81
		eP	15 29 25	LZ	18	66.0 (1)		
		epP	15 31 26	Z	1.3	15.0 (1)		
		epP	15 31 27	LZ	20	75.0 (1)		
		eS	15 38 56	LR	20	60.0 (2)		
		eS	15 38 56	LT	23	25.0 (2)		
		eS	15 39 03	R	2.0	27.0 (1)		
		eS	15 39 03	T	2.8	65.0 (1)		
		e	15 39 37	R	3.1	51.0 (1)		
		e	15 40 44	R	5.0	15.0 (2)		
		e	15 41 52	R	4.0	55.0 (1)		
		esS	15 42 45	LT	30	19.0 (2)		
		eSS	15 45 05	LT	25	25.0 (2)		
		ePKKP	15 47 28	Z	1.0	14.0 (0)		
		esSS	15 47 50	LR	28	27.0 (2)		
		e	15 49 39	Z	1.0	5.6 (0)		
		e	15 52 05	LT	20	21.0 (2)		
		eL	15 54 22	LT	38	17.0 (2)		
		eP P	15 55 29	Z	1.0	3.4 (0)		
29	MV	iP	15 29 24.5D	Z	0.9	46.0 (0)	85.0	5.11
		eP	15 29 29	LZ	15	77.0 (1)		
		epP	15 31 29	Z	1.6	69.0 (0)		
		epP	15 31 29	LZ	18	86.0 (1)		
		eSKS	15 38 58	R	4.2	58.0 (1)		
		eSKS	15 39 01	LR	14	20.0 (2)		
		eS	15 39 10	R	3.5	74.0 (2)		
		eS	15 39 10	T	4.9	10.0 (2)		
		eS	15 39 14	LR	20	73.0 (2)		
		eS	15 39 14	LT	22	93.0 (1)		
		eSP	15 40 18	LZ	23	20.0 (2)		
		esS	15 42 50	LT	35	24.0 (2)		
		eSS	15 44 28	LT	23	22.0 (2)		
		ePKKP	15 47 26	Z	0.8	12.0 (0)		
		esSS	15 48 20	LT	26	18.0 (2)		
		e	15 51 50	LT	29	32.0 (2)		
		e	15 54 50	LT	38	32.0 (2)		
		eP P	15 55 31	Z	1.0	3.3 (0)		

AVG. 5.64

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	LC	e	17 28 40	LR	35	94.0 (1)		
29	LC	eLR	17 32 30	LZ	27	58.0 (1)		
29	LC	eL	17 33 15	LZ	23	54.0 (1)		
29	LC	eL	17 33 15	LT	23	56.0 (1)		
29	LC	eL	17 33 15	LR	20	26.0 (1)		
29	AR	eP	17 52 52.7	Z	0.3	5.7 (0)	3.2	
29		eS	17 53 33	T	0.3	29.0 (0)		
29	20 42 24.8		14.2 S 168.2 E				NEW HEBRIDES ISLANDS	
			H =198 KM					
29	LC	eP	21 55 30.7	Z	0.7	2.5 (0)		
30	MV	eP	02 17 48.7	Z	0.2	19.0 (0)	0.6	
		eS	02 17 58	T	0.3	22.0 (0)		
30	MN	eP	02 18 08.0	Z	0.3	10.0 (0)	1.7	
30	WI	eP	02 18 25.7	Z	0.3	0.8 (0)	4.1	
30	MN	eS	02 18 31	T	0.5	7.0 (0)	1.7	
30	WI	eS	02 19 16	R	0.5	3.3 (0)	4.1	
30	CP	eP	04 21 54.4	Z	0.2	7.8 (0)		
30	06 04 54.9		38.4 N 073.1 E				TADZHIK S. S. R.	
			H =033 KM					
30	06 44 00.4		13.5 N 146.2 E				MARIANA ISLANDS	
			H =094 KM					
30	MV	eP	06 56 18.9	Z	0.8	2.0 (0)	83.0	4.12
30	TF	eP	06 56 29.2	Z	1.0	9.9 (0)	85.0	4.72
30	WI	eP	06 56 31.5	Z	0.7	2.8 (0)	86.0	4.31
30	MN	eP	06 56 32.5	Z	1.0	2.4 (0)	86.0	4.09
30	CP	eP	06 56 52.9	Z	1.0	2.9 (0)	90.0	4.37
30	LC	eP	06 57 23.5	Z	1.0	3.7 (0)	97.0	4.89
							AVG.	4.42
30	WI	eP	09 38 30.6	Z	0.5	2.1 (0)	4.7	
		eS	09 39 26	R	0.5	8.2 (0)		
30	10 48 10.3		05.2 S 152.7 E				NEW BRITAIN REGION	
			H =033 KM					

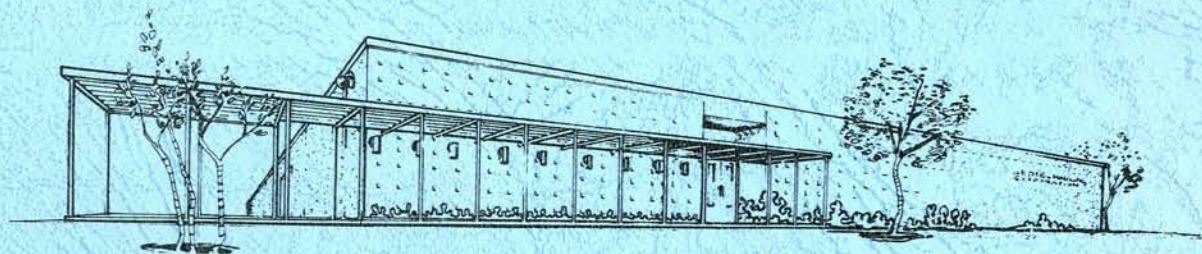
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MV	eP	11 01 10.0	Z	1.5	9.9 (0)	90.0	4.79
		eL	11 30 00	LZ	30	93.0 (1)		
		eL	11 36 00	LZ	20	32.0 (2)		
		eL	11 36 00	LR	20	19.0 (2)		
		eL	11 36 00	LT	20	17.0 (2)		
30	TF	eP	11 01 12.4	Z	1.1	17.0 (0)	91.0	5.26
		eL	11 30 36	LZ	25	12.0 (2)		
		eL	11 35 00	LZ	20	25.0 (2)		
		eL	11 35 00	LR	20	14.0 (2)		
30	MN	eP	11 01 21.0	Z	1.1	10.0 (0)	93.0	5.13
		e	11 27 00	LT	30	70.0 (1)		
		eL	11 30 20	LT	25	52.0 (1)		
		eL	11 36 00	LZ	20	27.0 (2)		
		eL	11 36 00	LT	20	15.0 (2)		
		eL	11 36 00	LR	20	25.0 (2)		
30	WI	eP	11 01 23.6	Z	1.7	28.0 (0)	93.0	5.39
		eL	11 31 50	LT	35	55.0 (1)		
		eL	11 38 40	LZ	20	20.0 (2)		
		eL	11 38 40	LR	18	50.0 (1)		
		eL	11 38 40	LT	20	24.0 (2)		
30	CP	eP	11 01 25.8	Z	1.0	5.9 (0)	94.0	4.90
		eL	11 30 56	LZ	24	93.0 (1)		
30	LC	ePKKP	11 18 31.2	Z	0.7	1.8 (0)	102.0	
		e	11 31 10	LT	30	67.0 (1)		
		eL	11 35 25	LZ	30	77.0 (1)		
		eL	11 41 00	LZ	20	85.0 (1)		
		eL	11 41 00	LR	20	59.0 (1)		
		eL	11 41 00	LT	20	58.0 (1)		
30	FM	eL	11 33 20	LZ	30	54.0 (1)	97.0	
		eL	11 38 15	LZ	20	19.0 (2)		
		eL	11 38 15	LR	20	95.0 (1)		
		eL	11 38 15	LT	20	94.0 (1)		
30	AR	eL	11 37 22	LR	32	46.0 (1)	114.0	
		eL	11 41 50	LZ	27	73.0 (1)		
		eL	11 47 00	LZ	23	11.0 (2)		
		eL	11 47 00	LR	20	66.0 (1)		
		eL	11 47 00	LT	22	67.0 (1)		
30	SJ	eL	11 40 00	LZ	25	70.0 (1)	108.0	
		eL	11 40 00	LR	25	17.0 (2)		
		eL	11 40 00	LT	25	87.0 (1)		
30	DH	eL	11 40 00	LZ	28	73.0 (1)	123.0	
							AVG.	5.09
30	10 58 37.0		05.9 S 151.0 E				S. COAST OF NEW BRITAIN	
			H =050 KM					
30	MV	eP	11 11 42.5	Z	1.0	8.4 (0)	93.0	5.07



DAY	STA	PHASE	TIME	INST	PER	AM			
30	TF	eP	11 11 46.4	Z	0.8	8.0 (0)	93.0		5.15
30	MN	eP	11 11 53.5	Z	0.8	7.1 (0)	95.0		5.15
30	CP	eP	11 11 59.6	Z	0.7	3.7 (0)	97.0		5.07
30	WI	eP	11 12 07.2	Z	1.2	8.6 (0)	98.0		5.26
30	LC	ePKKP	11 28 03.2	Z	0.8	1.5 (0)	105.0		
							AVG.		5.14
30	CP	eP	18 17 06.4	Z	0.7	2.9 (0)			
30	LC	eP	18 18 27.0	Z	0.3	8.9 (0)		1.5	
		eS	18 18 46	R	0.3	7.5 (0)			
30	LC	eP	18 21 15.0	Z	0.3	0.8 (0)			
30	LC	eL	18 23 03	R	0.5	4.9 (0)			
30	CP	eP	19 20 44.5	Z	0.2	1.4 (0)		4.0	
		e	19 20 51	Z	0.5	3.9 (0)			
		eS	19 21 35	Z	0.5	5.6 (0)			
30	MN	eP	19 37 50.5	Z	0.3	4.7 (0)		1.3	
30	WI	eP	19 38 03.3	Z	0.4	5.0 (0)		2.0	
30	MN	eS	19 38 07	T	0.5	13.0 (0)		1.3	
30	WI	eS	19 38 29	R	0.5	12.0 (0)		2.0	
30	FM	eP	20 23 34.1	Z	0.3	6.7 (0)		1.7	
		eS	20 23 57	R	0.5	11.0 (0)			
30	21 57 24.8		18.6 N 120.9 E						NEAR COAST OF LUZON
			H =051 KM						
30	WI	eP	22 11 03.7	Z	1.4	13.0 (0)	100.0		5.37
30	MN	eP	22 11 08.0	Z	1.0	2.4 (0)	101.0		4.73
		eL	22 44 00	LZ	25	51.0 (1)			
30	LC	eP	22 15 57.0	Z	0.5	1.4 (0)	111.0		
		ePKKP	22 26 58	Z	1.0	3.7 (0)			
30	SJ	eP	22 16 14.8	Z	0.8	2.4 (0)	120.0		
30	AR	ePKKP	22 27 02	Z	1.0	19.0 (0)	110.0		
							AVG.		5.05
30	FM	eP	23 44 13.3	Z	0.3	27.0 (0)			
30	WI	eP	23 45 01.0	Z	0.3	0.8 (0)		4.0	
		eS	23 45 50	R	0.5	2.5 (0)			

Bulletin No. 10
October 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM



T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS

GEOTECH

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at eleven of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, The Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);

b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;

c. Arrival time, period, amplitude, and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1301A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

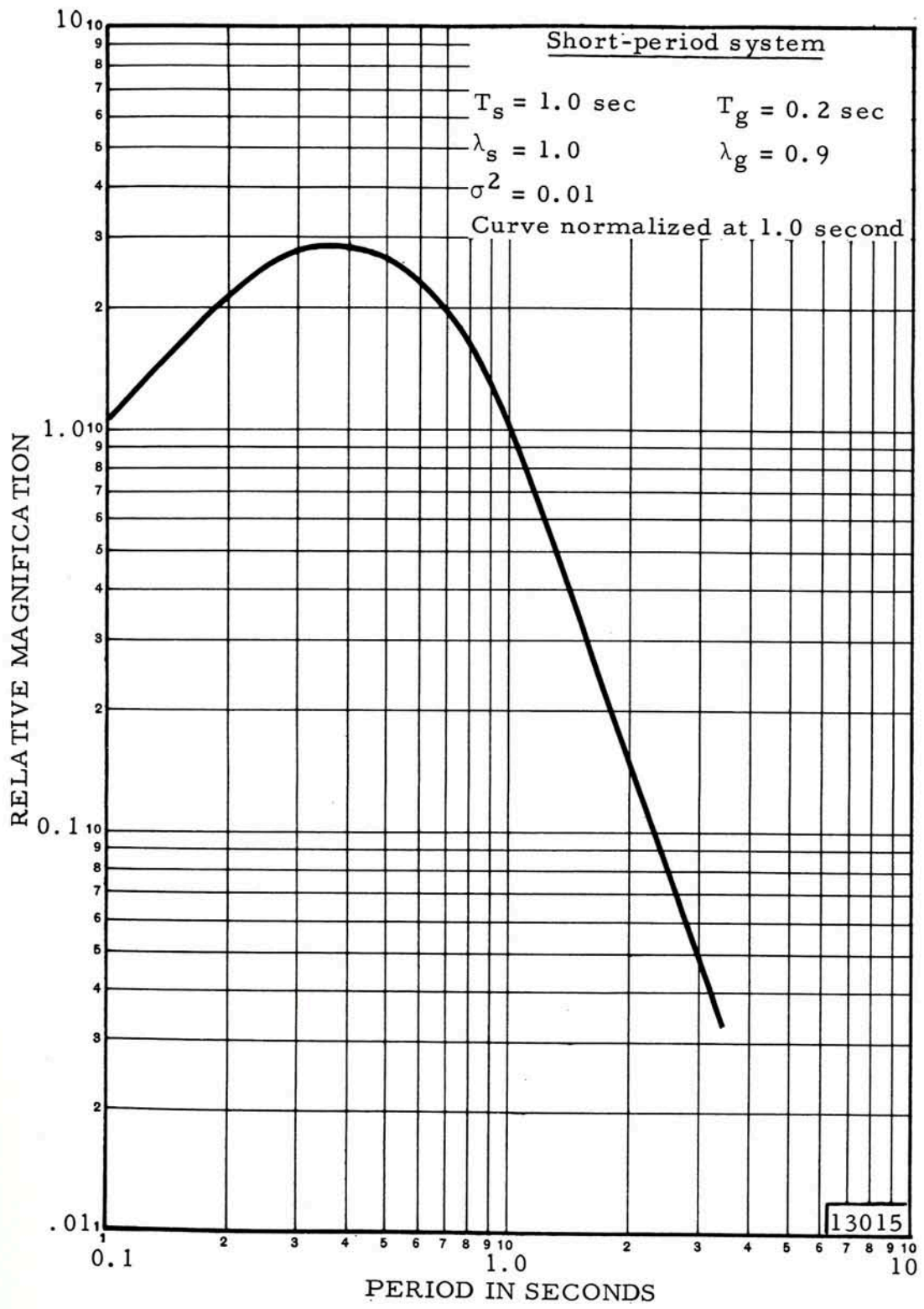


Figure 1. Frequency response of the short-period seismograph system

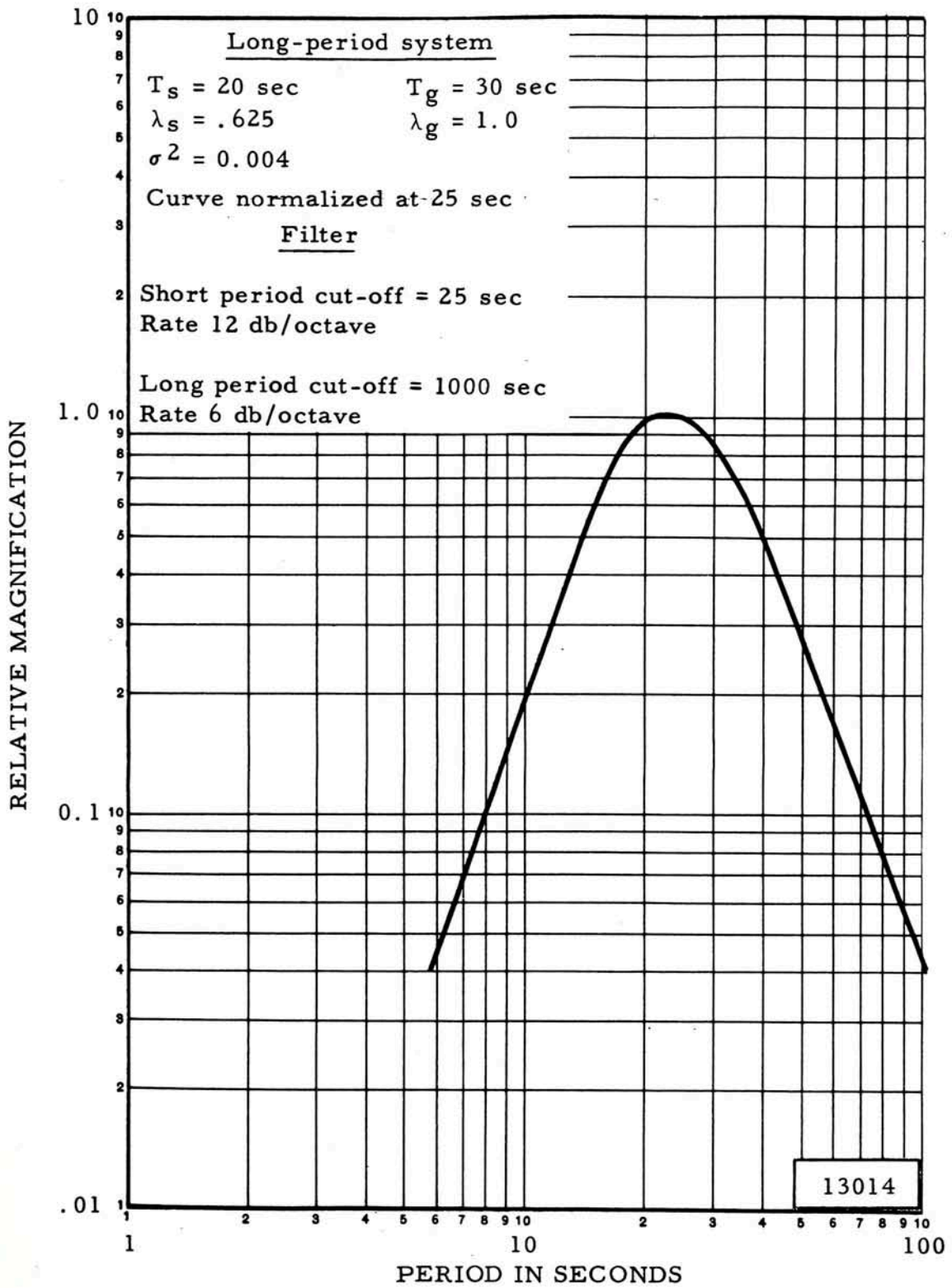


Figure 2. Frequency response of the long-period seismograph system

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table. The locations of the stations are shown in figure 3.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin (13-31 October)
AR	Aurora, Wisconsin (1-5 October)
DH	Delhi, New York
TF	Taft, California

NOTE: The team at Aurora, Wisconsin moved on 5 October 1962 to Niagara, Wisconsin. Niagara, Wisconsin became operational 13 October 1962.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G. C. T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial

arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field; either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

*Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

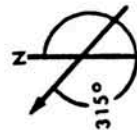
All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

TABLE 1

LRSM SITE INFORMATIONHorizontal seismometer orientation

Site Designation	Site Location	Azimuth from True North in Degrees*			Site Coordinates in deg, min, sec	Elevation in km	Rock Type
		Radial	Trans- verse				
SJ TX	San Jose, Texas	127	217	N 27 36 43	0.114	Limestone	
LC NM	Las Cruces, New Mexico	124	214	W 98 18 46	1.585	Limestone	
CP CL	Campo, California	182	272	N 32 24 08	1.189	Granite	
MV CL	Marysville, California	295	025	W 106 35 58	0.183	Volcanics	
WI NV	Winnemucca, Nevada	346	076	N 32 43 44	1.524	Limestone	
MN NV	Mina, Nevada	308	038	W 116 22 16	1.524	Limestone	
FM UT	Fillmore, Utah	058	148	N 39 12 47	1.890	Limestone	
AR WS	Aurora, Wisconsin	063	153	W 121 17 35	0.366	Gneiss	
NG WS	Niagara, Wisconsin	078	168	N 41 21 02	0.396	Granite	
DH NY	Delhi, New York	095	185	W 117 27 30	0.652	Sandstone	
TF CL	Taft, California	235	325	N 38 26 10	0.792	Sandstone	
				W 118 08 53			
				N 39 13 06			
				W 112 12 25			
				N 45 42 48			
				W 88 08 32			
				N 45 45 27			
				W 88 08 57			
				N 42 14 39			
				W 74 53 18			
				N 35 09 49			
				W 119 58 03			

*When earth moves in direction shown, trace moves up.



3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables.

P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log_{10} A + B$$

where: m = Unified magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival)

B = Log function of distance and depth.

These factors were obtained from the Gutenberg-Richter tables. Computations for distances less than 16° are based on AFTAC extensions of Gutenberg's tables.¹ For this purpose, points from 10° to 16° were read from a curve in the Gutenberg-Richter paper and an inverse cube relationship was used to extrapolate from 2° to 10° .

The average magnitude $\frac{(\text{sum of station magnitudes})}{\text{number of stations}}$ is listed on the last line of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

¹Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: Ann. Geofis., 9, pp. 1-15.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an after-shock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETTIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group:	day of the month
Second group:	origin time of the event
Third group:	geographic coordinates of the epicenter
Fourth group:	geographic description

NOTE

An asterisk (*) following the origin time indicates epicenters believed accurate to $1/2^{\circ}$ in latitude and longitude and to 50 km in depth.

Line 2 (from left to right)

First group:	depth (h) of the hypocenter in kilometers
Second group:	magnitude (MAG) as determined by Pasadena (PAS), Berkeley (BRK), or Palisades (PAL)

NOTE

MAG. (CGS) is M_b of Gutenberg and Richter from the P phase only. The magnitude quoted is an average value determined from data forwarded by cooperating standard stations and other observatories.

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

HQ USAF (AFTAC/TD-1)
Attn: Captain N. G. Maddox
Washington 25, D. C.

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	eP	01 20 11.4	Z	0.7	1.2 (0)		
1	03 56 52.0		17.5 S 178.9 W				FIJI ISLANDS	
			H =550 KM					
1	TF	eP	04 07 48.5	Z	1.0	15.0 (0)	77.0	4.38
		epP	04 09 44	Z	1.2	30.0 (0)		
1	MV	eP	04 07 55.2	Z	1.0	30.0 (0)	78.0	4.68
		epP	04 09 52	Z	1.2	10.0 (0)		
1	CP	eP	04 07 55.6	Z	0.7	19.0 (0)	78.0	4.63
		epP	04 09 52	Z	1.2	18.0 (0)		
1	MN	eP	04 08 04.5	Z	0.9	34.0 (0)	80.0	4.78
		epP	04 09 58	Z	1.5	19.0 (0)		
1	WI	eP	04 08 14.1	Z	0.7	32.0 (0)	82.0	4.96
		e	04 08 32	Z	0.8	8.8 (0)		
		epP	04 10 11	Z	1.2	9.2 (0)		
1	FM	eP	04 08 27.2	Z	1.0	37.0 (0)	84.0	4.97
		epP	04 10 26	Z	1.0	19.0 (0)		
1	LC	eP	04 08 32.8	Z	0.8	11.0 (0)	86.0	4.59
		epP	04 10 30	Z	1.0	16.0 (0)		
							AVG.	4.71
1	AR	eP	06 17 05.8	Z	1.2	25.0 (0)		
1	WI	eP	07 27 03.6	Z	1.0	3.5 (0)		
1	07 50 52.8		06.5 N 095.1 E				NICOBAR ISLANDS REGION	
			H =033 KM					
1	MN	eP†	08 09 57.9	Z	0.5	1.5 (0)	125.0	
1	09 53 32.9		47.3 N 151.5 E				KURILE ISLANDS	
			H =127 KM					
1	WI	eP	10 03 40.1	Z	0.7	8.1 (0)	62.0	4.78
1	MN	eP	10 03 49.4	Z	0.6	11.0 (0)	63.0	4.91
1	TF	eP	10 03 57.5	Z	1.0	15.0 (0)	64.0	4.82
1	FM	eP	10 04 10.4	Z	0.5	5.3 (0)	66.0	4.66
1	CP	eP	10 04 21.8	Z	0.7	2.2 (0)	68.0	4.07
1	AR	eP	10 04 55.0	Z	0.8	25.0 (0)	74.0	5.09
1	LC	eP	10 04 57.8	Z	0.7	3.1 (0)	74.0	4.22
1	DH	eP	10 05 39.0	Z	0.7	42.0 (0)	82.0	5.11
							AVG.	4.71

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	09 57 02.2		17.5 S 167.1 E H =033 KM				NEW HEBRIDES ISLANDS	
1	TF	eP	10 09 45.2	Z	1.0	15.0 (0)	87.0	5.11
1	CP	eP	10 09 55.2	Z	0.9	4.5 (0)	89.0	4.68
		eL	10 38 50	LZ	25	89.0 (1)		
1	MN	eP	10 09 57.4	Z	1.0	21.0 (0)	90.0	5.29
		eL	10 38 12	LZ	27	51.0 (1)		
		eL	10 39 40	LZ	25	47.0 (1)		
		eL	10 39 40	LR	25	32.0 (1)		
		eL	10 39 40	LT	22	56.0 (1)		
1	WI	eP	10 10 05.3	Z	0.8	14.0 (0)	91.0	5.31
		eL	10 38 52	LZ	25	78.0 (1)		
		eL	10 41 15	LZ	22	76.0 (1)		
		eL	10 41 15	LT	24	76.0 (1)		
1	SJ	eL	10 40 00	LT	22	14.0 (2)	103.0	
		eL	10 51 20	LZ	18	69.0 (1)		
		eL	10 51 20	LR	17	29.0 (1)		
		eL	10 51 20	LT	17	14.0 (2)		
1	FM	eL	10 40 35	LZ	35	31.0 (1)	93.0	
		eL	10 43 15	LZ	20	38.0 (1)		
		eL	10 43 15	LR	20	38.0 (1)		
1	AR	eL	10 41 12	LZ	30	55.0 (1)	113.0	
		eL	10 42 12	LZ	25	14.0 (2)		
		eL	10 42 12	LR	25	15.0 (1)		
		eL	10 42 12	LT	25	40.0 (1)		
1	DH	eL	10 55 55	LZ	30	20.0 (1)	122.0	
		eL	11 00 00	LZ	20	29.0 (1)		
		eL	11 00 00	LR	25	40.0 (1)		
							AVG.	5.10

1	12 13 57.4		27.9 N 054.9 E H =016 KM				SOUTHERN IRAN	
1	DH	eP	12 27 26.3	Z	1.2	48.0 (0)	96.0	5.90
		eL	13 05 55	LZ	30	78.0 (1)		
		eL	13 09 08	LZ	24	60.0 (1)		
		eL	13 09 08	LR	23	80.0 (1)		
1	AR	eP	12 27 51.2	Z	1.0	14.0 (0)	100.0	5.55
		eL	13 00 25	LT	40	14.0 (2)		
		eL	13 08 00	LZ	20	36.0 (1)		
		eL	13 08 00	LR	20	17.0 (1)		
		eL	13 08 00	LT	25	64.0 (1)		
1	WI	ePD	12 28 33.1	Z	1.6	7.9 (0)	110.0	5.77
		ePKKP1	12 43 30	Z	1.2	3.5 (0)		
		ePKKP2	12 43 45	Z	1.2	11.0 (0)		
		eL	13 09 45	LT	22	41.0 (1)		
1	MN	eP	12 32 38.1	Z	0.8	5.3 (0)	113.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSKS	12 39 32	T	2.0	22.0 (0)		
		ePKKP	12 43 21	Z	1.2	5.1 (0)		
		eL	13 17 17	LR	22	60.0 (1)		
		eL	13 21 10	LZ	28	84.0 (1)		
		eL	13 24 52	LR	25	69.0 (1)		
		eL	13 24 52	LT	21	13.0 (2)		
1	FM	eP	12 32 38.5	Z	0.8	5.5 (0)	113.0	
		eSKKP	12 47 13	Z	1.4	5.9 (0)		
		eL	13 13 27	LZ	30	47.0 (1)		
		eL	13 24 25	LZ	20	80.0 (1)		
		eL	13 24 25	LR	22	71.0 (1)		
		eL	13 24 25	LT	20	90.0 (1)		
1	LC	eP	12 32 45.0	Z	1.0	6.2 (0)	118.0	
		ePP	12 33 59	Z	1.2	17.0 (0)		
		ePKKP	12 43 14	Z	1.5	12.0 (0)		
		eL	13 22 38	LZ	24	13.0 (2)		
		eL	13 27 35	LZ	18	14.0 (2)		
		eL	13 27 35	LR	20	39.0 (1)		
		eL	13 27 35	LT	20	12.0 (2)		
1	CP	eP	12 32 49.7	Z	0.9	3.9 (0)	120.0	
		e	13 22 28	LZ	25	60.0 (1)		
		eL	13 28 15	LZ	18	53.0 (1)		
		eL	13 28 15	LR	22	61.0 (1)		
1	SJ	eL	13 15 35	LR	30	99.0 (1)	119.0	
		eL	13 27 30	LZ	20	12.0 (1)		
		eL	13 27 30	LR	22	11.0 (2)		
		eL	13 27 30	LT	22	38.0 (2)		
							AVG.	5.74

1	12 49 55.1		49.0 N 157.5 E H =080 KM				SOUTH COAST OF KAMCHATKA	
1	MN	eP	12 59 48.0	Z	0.6	1.7 (0)	59.0	4.25
1	LC	eP	12 25 12.0	Z	1.0	2.5 (0)		
1	MN	eP	12 26 48.7	Z	0.8	0.9 (0)		
1	WI	eP	12 26 53.1	Z	1.0	2.3 (0)		
1	WI	e	12 31 45	Z	1.0	3.5 (0)		
1	DH	eL	12 32 05	LZ	25	26.0 (1)		
1	DH	eL	12 33 50	LZ	20	26.0 (1)		
1	DH	eL	12 33 50	LR	17	19.0 (1)		
1	DH	eL	12 33 50	LT	22	32.0 (1)		
1	WI	eL	12 42 42	LZ	20	39.0 (1)		
1	MN	e	12 43 00	LZ	22	35.0 (1)		
1	WI	eL	12 44 00	LT	22	48.0 (1)		
1	MN	eP	13 04 59.7	Z	0.3	4.1 (0)	3.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	13 05 39	R	0.5	11.0 (0)		
1	13 08 28.2		52.8 N 167.2 W			FOX-ALEUTIAN ISLANDS		
			H =033 KM					
1	MN	eP	13 15 32.1	Z	0.8	1.9 (0)	37.0	3.94
1	TF	eP	13 15 41.4	Z	1.0	20.0 (0)	38.0	4.87
1	CP	eP	13 16 14.8	Z	0.8	3.4 (0)	42.0	4.15
1	LC	eP	13 17 01.8	Z	0.7	2.5 (0)	47.0	4.35
						AVG.		4.33
1	MN	eL	14 17 35	LZ	20	25.0 (1)		
1	MN	eL	14 22 02	LZ	20	35.0 (1)		
1	MN	eL	14 22 02	LR	20	13.0 (1)		
1	MN	eL	14 22 02	LT	20	30.0 (1)		
1	TF	eL	14 36 55	LZ	30	32.0 (1)		
1	AR	eL	15 06 35	LZ	20	23.0 (1)		
1	15 07 22.1		05.5 S 151.9 E			NEW BRITAIN		
			H =049 KM					
1	MN	eP	15 20 35.4	Z	1.0	4.9 (0)	94.0	4.84
		eL	15 52 00	LZ	20	25.0 (1)		
		eL	15 58 05	LZ	20	55.0 (1)		
		eL	15 58 05	LR	20	48.0 (1)		
1	WI	eP	15 20 38.6	Z	1.5	14.0 (0)	95.0	5.17
1	CP	eP	15 20 43.4	Z	1.0	4.4 (0)	96.0	4.94
						AVG.		4.98
1	AR	eL	15 14 15	LZ	22	26.0 (1)		
1	AR	eL	15 14 15	LR	22	24.0 (1)		
1	AR	eL	15 14 15	LT	25	12.0 (1)		
1	20 42 36.5		19.6 S 174.5 W			FIJI ISLANDS REGION		
			H =143 KM					
1	CP	eP	20 54 09.6	Z	1.2	70.0 (0)	76.0	5.32
1	MV	eP	20 54 13.2	Z	1.2	60.0 (0)	77.0	5.26
						AVG.		5.29
1	AR	eL	21 30 25	LZ	30	36.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	AR	eL	21 31 45	LR	25	29.0 (1)		
1	DH	eL	21 34 40	LZ	35	72.0 (1)		
2	03 51 09.6		39.2 N 119.6 W			WESTERN NEVADA		
			H =033 KM					
2	MV	eP	03 51 29.0	Z	999.9	99.9 (9)	1.1	
		eLG	03 51 48	LT	17	32.0 (2)		
2	MN	eP	03 51 30.2	Z	999.9	99.9 (9)	1.2	
		e	03 51 36	LR	12	75.0 (1)		
		eLG	03 51 50	LT	15	47.0 (2)		
2	WI	iP	03 51 48.6C	Z	999.9	99.9 (9)	2.5	
		e	03 52 00	LR	14	35.0 (1)		
		eLG	03 52 33	LR	17	17.0 (2)		
2	TF	eP	03 52 15.2	Z	0.6	22.0 (0)	4.4	4.66
		e	03 52 57	T	0.9	77.0 (0)		
		eLG	03 53 05	T	0.9	90.0 (0)		
		eLG	03 53 08	LT	17	76.0 (1)		
2	FM	eP	03 52 33.1	Z	0.6	20.0 (0)	5.6	4.93
		e	03 52 54	Z	0.8	39.0 (0)		
		eLG	03 54 08	R	0.8	13.0 (1)		
		eLG	03 54 12	LT	16	84.0 (1)		
2	CP	eP	03 53 03.0	Z	1.0	8.8 (0)	8.0	4.75
		eLG	03 54 44	T	1.5	66.0 (0)		
2	LC	eL	03 57 40.4	Z	2.3	34.0 (0)	12.0	
		eL	03 58 05	LT	17	76.0 (1)		
2	SJ	eL	04 02 34	LT	18	12.0 (2)	22.0	
						AVG.		4.78
2	MN	eP	06 55 21.0	Z	0.3	7.4 (0)	1.4	
		eS	06 55 39	T	0.3	17.0 (0)		
2	08 35 49.1		17.6 S 178.7 W			FIJI ISLANDS REGION		
			H =616 KM					
2	MV	eP	08 46 46.1	Z	1.0	5.1 (0)	78.0	3.92
2	MN	eP	08 46 55.1	Z	0.9	5.3 (0)	80.0	3.99
2	WI	eP	08 47 05.6	Z	0.6	3.7 (0)	82.0	4.09
2	LC	eP	08 47 23.5	Z	1.0	4.2 (0)	86.0	4.11
						AVG.		4.03
2	MN	eP	09 58 46.9	Z	0.3	8.7 (0)	1.5	
		eS	09 59 06	T	0.3	11.0 (0)		
2	DH	eP	11 46 29.1	Z	0.7	10.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	12 35	47.7	00.6 S H =033 KM	122.9 E	NORTHERN CELEBES			
2	LC	eP	16 38 33.9	Z	0.7	5.5 (0)		
2	19 30	34.6	10.4 N H =125 KM	126.9 E	LEYTE, PHILIPPINE IS.			
2	19 51	53.4	02.1 N H =035 KM	126.2 E	MOLUCCA PASSAGE			
2	LC	eP	20 29 51.0	Z	0.2	12.0 (0)	1.4	
		eS	20 30 08	T	0.3	16.0 (0)		
2	LC	eP	21 21 40.9	Z	0.6	1.5 (0)		
3	01 16	46.7	40.6 N H =033 KM	029.7 W	AZORES REGION			
3	AR	eP	01 24 38.5	Z	1.0	14.0 (0)	42.0	4.68
3	LC	eP	01 26 55.8	Z	0.7	2.5 (0)	61.0	4.41
3	FM	eP	01 26 59.3	Z	1.0	19.0 (0)	61.0	5.15
3	WI	eP	01 27 14.8	Z	1.0	5.4 (0)	63.0	4.56
3	MN	eP	01 27 27.5	Z	1.0	3.3 (0)	65.0	4.42
3	MV	eP	01 27 37.3	Z	1.0	5.1 (0)	67.0	4.61
3	CP	eP	01 27 41.2	Z	1.0	8.8 (0)	67.0	4.85
							AVG.	4.67
3	01 19	22.5	40.7 N H =033 KM	029.7 W	AZORES REGION			
3	DH	eP	01 26 03.5	Z	1.2	32.0 (0)	34.0	5.09
		eL	01 32 45	LZ	30	10.0 (2)		
		eL	01 36 40	LZ	24	26.0 (2)		
		eL	01 36 40	LR	23	77.0 (1)		
		eL	01 36 40	LT	22	52.0 (1)		
3	AR	eP	01 27 15.0	Z	1.0	27.0 (0)	42.0	4.96
		ePP	01 28 55	LZ	22	28.0 (1)		
		eS	01 33 35	LR	18	36.0 (1)		
		eS	01 33 35	LT	19	26.0 (1)		
		eL	01 38 15	LZ	25	15.0 (2)		
		eL	01 43 00	LZ	20	35.0 (2)		
		eL	01 43 00	LR	20	25.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	LC	eL	01 43 00	LT	20	32.0 (1)		
		eP	01 29 32.0	Z	1.0	9.8 (0)	61.0	4.89
		eS	01 37 55	LT	20	58.0 (1)		
		eS	01 37 55	LR	20	52.0 (1)		
		eL	01 46 56	LT	29	16.0 (2)		
		eL	01 51 35	LZ	25	24.0 (2)		
		eL	01 51 35	LR	25	16.0 (2)		
3	FM	eP	01 29 38.0	Z	1.3	54.0 (0)	61.0	5.59
		eS	01 38 01	LR	23	47.0 (1)		
		eL	01 48 51	LZ	30	13.0 (2)		
		eL	01 54 26	LZ	21	31.0 (2)		
		eL	01 54 26	LR	21	19.0 (2)		
3	WI	eP	01 29 49.0	Z	1.5	64.0 (0)	63.0	5.46
		eS	01 38 35	LT	25	44.0 (1)		
		eS	01 38 35	LR	23	29.0 (1)		
		eL	01 45 30	LR	25	53.0 (1)		
		eL	01 49 00	LZ	32	17.0 (2)		
		eL	01 56 00	LZ	20	23.0 (2)		
		eL	01 56 00	LR	20	87.0 (2)		
3	MN	eP	01 30 03.0	Z	1.5	39.0 (0)	65.0	5.31
		eSS	01 43 30	LT	22	36.0 (1)		
		eL	01 51 55	LT	20	40.0 (1)		
		eL	01 54 20	LZ	22	17.0 (2)		
		eL	01 54 20	LR	20	61.0 (1)		
3	MV	eP	01 30 13.5	Z	1.3	13.0 (0)	67.0	4.90
		eL	01 51 45	LZ	30	15.0 (2)		
		eL	01 58 40	LZ	20	24.0 (2)		
		eL	01 58 40	LR	20	53.0 (1)		
		eL	01 58 40	LT	20	15.0 (2)		
3	CP	eP	01 30 17.0	Z	1.2	18.0 (0)	67.0	5.08
		eL	01 53 00	LZ	30	11.0 (2)		
		eL	01 56 50	LZ	23	10.0 (2)		
		eL	01 56 50	LR	22	20.0 (1)		
3	SJ	eL	01 56 50	LT	23	13.0 (2)		
		eL	01 41 00	LZ	25	14.0 (2)	57.0	
		eL	01 45 00	LZ	25	11.0 (2)		
		eL	01 45 00	LR	24	26.0 (2)		
3	TF	eL	01 45 00	LT	24	27.0 (2)		
		eL	01 54 40	LZ	30	11.0 (2)	68.0	
		eL	01 59 40	LZ	21	34.0 (2)		
		eL	01 59 40	LR	21	29.0 (2)		
		eL	01 59 40	LT	20	58.0 (1)		
							AVG.	5.16
3	WI	eP	02 48 20.0	Z	1.0	6.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	CP	eP	03 03 39.0	Z	0.5	1.7 (0)		
3	MN	eP	05 39 11.5	Z	0.7	0.8 (0)		
3	WI	eP	07 31 25.0	Z	0.8	2.5 (0)		
3	11 57 21.8		04.5 S 144.6 E H =108 KM				NEW GUINEA	
3	LC	eP	12 19 01.2	Z	0.7	3.1 (0)		
3	DH	eL	14 21 30	LZ	30	41.0 (1)		
3	AR	eL	14 27 30	LZ	25	60.0 (1)		
3	FM	eL	14 33 06	LZ	30	26.0 (1)		
3	LC	eL	14 36 00	LZ	25	27.0 (1)		
3	MN	eL	14 39 00	LZ	25	20.0 (1)		
3	DH	eP	16 02 59.1	Z	0.3	7.4 (0)	2.6	
		eS	16 03 25	R	0.5	54.0 (0)		
3	WI	eP	16 33 16.2	Z	0.3	1.2 (0)	3.6	
		e	16 33 20	Z	0.3	2.3 (0)		
		eS	16 34 22	R	0.5	4.9 (0)		
3	17 13 41.5		21.0 S 168.4 E H =033 KM				LOYALTY ISLANDS	
3	TF	eP	17 26 31.0	Z	1.0	13.0 (0)	88.0	5.12
		eP	17 26 41	Z	1.0	13.0 (0)		
3	MV	eP	17 26 34.9	Z	1.0	12.0 (0)	89.0	5.05
		eP	17 26 44	Z	1.2	31.0 (0)		
3	CP	eP	17 26 38.5	Z	0.7	2.2 (0)	90.0	4.47
		eP	17 26 49	Z	0.8	5.2 (0)		
3	MN	eP	17 26 44.1	Z	1.0	8.2 (0)	91.0	4.98
3	WI	eP	17 26 52.0	Z	0.8	3.2 (0)	93.0	4.77
						AVG.		4.88
3	18 48 52.4		57.5 S 026.7 W H =033 KM				SANDWICH ISLANDS	
3	MN	eP†	19 07 49.5	Z	0.7	2.9 (0)	123.0	
3	MV	eP†	19 07 52.6	Z	1.0	8.5 (0)	124.0	
3	WI	eP†	19 07 52.8	Z	0.8	3.2 (0)	124.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	DH	eP	19 19 43.2	Z	0.4	11.0 (0)	1.8	
		eS	19 20 08	R	0.4	27.0 (0)		
3	CP	eP	19 49 39.5	Z	0.2	1.4 (0)	1.5	
		e	19 49 54	Z	0.3	11.0 (0)		
		eS	19 50 02	T	0.3	14.0 (0)		
3	FM	eP	20 11 27.3	Z	0.3	88.0 (0)	1.5	
		eS	20 11 44	R	0.3	93.0 (0)		
3	MN	eP	20 12 34.5	Z	0.5	2.2 (0)	5.0	
		eS	20 13 36	R	0.5	5.7 (0)		
3	DH	eP	20 31 08.3	Z	0.4	11.0 (0)	1.6	
		eS	20 31 31	R	0.4	27.0 (0)		
3	20 59 49.4		21.3 S 168.3 E H =041 KM				LOYALTY ISLANDS	
3	MV	eP	21 12 37.9	Z	0.7	2.5 (0)	89.0	4.51
4	WI	eP	00 07 45.5	Z	1.2	8.3 (0)		
4	DH	eL	00 13 05	LZ	30	91.0 (1)		
4	DH	eL	00 14 33	LZ	25	77.0 (1)		
4	DH	eL	00 14 33	LR	23	23.0 (1)		
4	DH	eL	00 14 33	LT	25	53.0 (1)		
4	AR	eL	00 16 40	LZ	35	41.0 (1)		
4	AR	eL	00 21 18	LZ	22	65.0 (1)		
4	AR	eL	00 21 18	LR	22	45.0 (1)		
4	AR	eL	00 21 18	LT	20	29.0 (1)		
4	WI	eP	00 21 40.7	Z	0.3	10.0 (0)		
4	FM	eL	00 27 26	LZ	25	33.0 (1)		
4	WI	eL	00 27 30	LZ	30	35.0 (1)		
4	FM	eL	00 30 50	LZ	25	25.0 (1)		
4	FM	eL	00 30 50	LR	25	39.0 (1)		
4	FM	eL	00 30 50	LT	20	33.0 (1)		
4	MN	eL	00 32 56	LZ	25	32.0 (1)		
4	WI	eL	00 35 15	LZ	18	60.0 (1)		
4	WI	eL	00 35 15	LR	18	28.0 (1)		
4	WI	eL	00 35 15	LT	18	63.0 (1)		
4	MN	eL	00 35 20	LZ	23	30.0 (1)		
4	MN	eL	00 35 20	LR	20	25.0 (1)		
4	MN	eL	00 35 20	LT	22	30.0 (1)		
4	CP	eP	01 49 22.1	Z	0.3	11.0 (0)	0.7	
		eS	01 49 32	T	0.3	14.0 (0)		
4	WI	eP	04 08 21.7	Z	0.5	3.3 (0)		
4	04 42 05.8		40.4 N 029.5 W H =033 KM				AZORES REGION	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	AR	eP	04 49 49.5	Z	0.7	14.0 (0)	41.0	4.83
		eL	05 02 03	LZ	35	65.0 (1)		
		eL	05 06 03	LZ	23	10.0 (2)		
		eL	05 06 03	LR	20	61.0 (1)		
		eL	05 06 03	LT	22	65.0 (1)		
4	LC	eP	04 52 17.8	Z	1.0	3.7 (0)	61.0	4.44
		eL	05 11 22	LZ	35	73.0 (1)		
		eL	05 14 30	LZ	28	82.0 (1)		
		eL	05 14 30	LR	26	60.0 (1)		
		eL	05 14 30	LT	27	41.0 (1)		
4	FM	eP	04 52 19.7	Z	0.9	7.2 (0)	61.0	4.77
		eL	05 11 37	LZ	33	29.0 (1)		
		eL	05 17 30	LZ	23	59.0 (1)		
		eL	05 17 30	LR	23	59.0 (1)		
		eL	05 17 30	LT	21	41.0 (1)		
4	WI	eP	04 52 35.9	Z	0.9	5.1 (0)	64.0	4.65
		eL	05 14 00	LT	29	55.0 (1)		
		eL	05 20 08	LZ	18	92.0 (1)		
		eL	05 20 08	LR	17	43.0 (1)		
		eL	05 20 08	LT	18	91.0 (1)		
4	MN	eP	04 52 48.0	Z	1.0	4.2 (0)	66.0	4.53
		eL	05 16 56	LZ	22	54.0 (1)		
		eL	05 20 00	LZ	22	54.0 (1)		
		eL	05 20 00	LR	23	28.0 (1)		
		eL	05 20 00	LT	23	44.0 (1)		
4	DH	eL	04 58 13	LZ	31	12.0 (2)	34.0	
		eL	05 00 00	LZ	22	86.0 (1)		
		eL	05 00 00	LR	23	70.0 (1)		
		eL	05 00 00	LT	21	32.0 (1)		
4	SJ	eS	05 00 00	LT	19	57.0 (1)	58.0	
		eL	05 08 43	LR	32	70.0 (1)		
		eL	05 15 23	LR	23	43.0 (1)		
		eL	05 15 23	LT	23	12.0 (2)		
							AVG.	4.64
4	WI	eP	05 22 54.0	Z	999.9	99.9 (9)		
4	LC	eP	06 04 12.0	Z	1.0	2.5 (0)		
4	DH	eL	06 13 31	LZ	28	38.0 (1)		
4	AR	eL	06 17 54	LZ	23	34.0 (1)		
4	AR	eL	06 25 18	LZ	22	46.0 (1)		
4	AR	eL	06 25 18	LR	23	32.0 (1)		
4	AR	eL	06 25 18	LT	22	19.0 (1)		
4	FM	eL	06 29 45	LZ	24	25.0 (1)		
4	WI	eL	06 32 17	LZ	25	37.0 (1)		
4	MN	eL	06 33 14	LZ	24	19.0 (1)		
4	FM	eL	06 36 10	LZ	21	25.0 (1)		
4	FM	eL	06 36 10	LR	25	25.0 (1)		
4	FM	eL	06 36 10	LT	19	18.0 (1)		
4	WI	eL	06 38 05	LZ	20	42.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	WI	eL	06 38 05	LR	20	38.0 (1)		
4	WI	eL	06 38 05	LT	20	39.0 (1)		
4	MN	eL	06 39 25	LZ	21	19.0 (1)		
4	MN	eL	06 39 25	LR	20	25.0 (1)		
4	MN	eL	06 39 25	LT	20	26.0 (1)		
4	07 24	44.3	42.2 N 036.1 E				BLACK SEA	
			H =033 KM					
4	MN	eP	08 32 59.0	Z	0.4	3.4 (0)	1.1	
		eS	08 33 14	R	0.4	11.0 (0)		
4	09 01	54.4	09.1 S 160.4 E				SOLOMON ISLANDS	
			H =138 KM					
4	09 37	53.0	23.3 S 179.0 E				FIJI ISLANDS REGION	
			H =611 KM					
4	CP	eP	10 37 41.0	Z	0.2	6.9 (0)	0.7	
		e	10 37 42	Z	0.2	28.0 (0)		
		e	10 37 45	Z	0.4	14.0 (0)		
		eS	10 37 51	T	0.4	44.0 (0)		
4	DH	eL	12 41 00	LZ	29	34.0 (1)		
4	AR	eL	12 45 13	LZ	23	23.0 (1)		
4	AR	eL	12 48 38	LZ	24	27.0 (1)		
4	AR	eL	12 48 38	LR	22	76.0 (0)		
4	AR	eL	12 48 38	LT	24	13.0 (1)		
4	FM	eL	12 56 05	LZ	29	14.0 (1)		
4	MN	eL	13 01 25	LZ	25	13.0 (1)		
4	13 23	34.4	40.9 N 029.7 W				AZORES REGION	
			H =033 KM					
4	WI	eP	13 34 01.6	Z	1.4	23.0 (0)	63.0	5.05
		eL	13 53 45	LZ	35	64.0 (1)		
		eL	14 01 33	LZ	17	89.0 (1)		
		eL	14 01 33	LR	18	45.0 (1)		
		eL	14 01 33	LT	17	10.0 (2)		
4	MN	eP	13 34 13.1	Z	1.8	28.0 (0)	65.0	5.09
		eL	13 58 20	LZ	23	52.0 (1)		
		eL	14 01 48	LZ	21	56.0 (1)		
		eL	14 01 48	LR	20	49.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	MV	eL	14 01 48	LT	22	52.0 (1)		
		eP	13 34 24.5	Z	1.0	3.4 (0)	67.0	4.43
4	DH	eL	13 39 20	LZ	29	13.0 (2)	34.0	
		eL	13 40 50	LZ	25	86.0 (1)		
		eL	13 40 50	LR	25	81.0 (1)		
		eL	13 40 50	LT	23	37.0 (1)		
4	SJ	eS	13 41 27	LT	20	62.0 (1)	58.0	
		eL	13 50 50	LT	28	67.0 (1)		
		eL	13 57 00	LR	27	29.0 (1)		
		eL	13 57 00	LT	22	11.0 (2)		
4	LC	eS	13 42 15	LT	28	42.0 (1)	61.0	
		eL	13 47 40	LZ	34	12.0 (2)		
		eL	13 55 42	LZ	28	93.0 (1)		
		eL	13 55 42	LR	25	58.0 (1)		
		eL	13 55 42	LT	28	52.0 (1)		
4	AR	eL	13 42 38	LZ	32	49.0 (1)	43.0	
		eL	13 47 28	LZ	21	11.0 (2)		
		eL	13 47 28	LR	20	72.0 (1)		
		eL	13 47 28	LT	20	42.0 (1)		
4	FM	eL	13 52 22	LZ	37	44.0 (1)	61.0	
		eL	13 58 00	LZ	25	58.0 (1)		
		eL	13 58 00	LR	25	49.0 (1)		
		eL	13 58 00	LT	25	16.0 (1)		
4	TF	eL	13 57 34	LZ	25	59.0 (1)	68.0	
							AVG.	4.86
4	FM	eP	13 43 46.0	Z	0.9	11.0 (0)		
4	LC	eP	15 23 03.6	Z	0.7	3.1 (0)		
4	MN	eP	15 24 44.9	Z	0.9	2.6 (0)		
4	WI	eP	15 24 57.9	Z	1.0	4.4 (0)		
4	WI	eP	17 37 22.7	Z	1.1	4.1 (0)		
4	LC	eP	18 59 26.5	Z	0.9	4.7 (0)		
4	LC	e	19 01 15	Z	0.9	1.9 (0)		
4	WI	eP	19 01 34.0	Z	1.0	7.7 (0)		
4	MN	eP	19 01 45.6	Z	1.0	3.3 (0)		
4	DH	eL	19 06 30	LZ	28	99.0 (1)		
4	DH	eL	19 08 20	LZ	24	60.0 (1)		
4	DH	eL	19 08 20	LR	20	23.0 (1)		
4	DH	eL	19 08 20	LT	25	64.0 (1)		
4	AR	eL	19 11 33	LZ	27	49.0 (1)		
4	AR	eL	19 15 03	LZ	23	76.0 (1)		
4	AR	eL	19 15 03	LR	22	53.0 (1)		
4	AR	eL	19 15 03	LT	22	32.0 (1)		
4	FM	eL	19 22 02	LZ	28	37.0 (1)		
4	LC	eL	19 22 23	LZ	27	50.0 (1)		
4	WI	eL	19 23 05	LT	25	34.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eL	19 23 22	LZ	26	48.0 (1)		
4	LC	eL	19 23 22	LR	25	42.0 (1)		
4	LC	eL	19 23 22	LT	27	20.0 (1)		
4	MN	eL	19 25 00	LZ	25	34.0 (1)		
4	FM	eL	19 26 17	LZ	21	50.0 (1)		
4	FM	eL	19 26 17	LR	21	40.0 (1)		
4	FM	eL	19 26 17	LT	23	33.0 (1)		
4	LC	eP	19 26 25.0	Z	0.8	3.6 (0)		
4	MN	eL	19 28 10	LZ	25	34.0 (1)		
4	MN	eL	19 28 10	LR	20	29.0 (1)		
4	MN	eL	19 28 10	LT	25	29.0 (1)		
4	WI	eL	19 28 58	LZ	17	89.0 (1)		
4	WI	eL	19 28 58	LR	18	39.0 (1)		
4	WI	eL	19 28 58	LT	18	80.0 (1)		
4	DH	eL	19 30 08	LZ	30	46.0 (1)		
4	19 46 10.1		38.3 N 022.7 E			GREECE		
			H = 038 KM					
4	DH	eP	19 57 21.0	Z	0.7	10.0 (0)	71.0	4.98
4	WI	eP	19 59 20.5	Z	1.0	4.4 (0)	93.0	4.81
4	LC	eP	19 59 31.9	Z	1.0	3.7 (0)	96.0	4.89
4	MN	eL	20 32 54	LR	30	29.0 (1)	95.0	
		eL	20 41 30	LZ	21	50.0 (1)		
		eL	20 44 30	LZ	20	67.0 (1)		
		eL	20 44 30	LT	20	59.0 (1)		
							AVG.	4.89
4	20 34 38.7		05.1 S 151.9 E			BISMARCK SEA		
			H = 033 KM					
4	MN	eP	20 47 52.0	Z	1.0	8.4 (0)	93.0	5.09
		eL	21 18 09	LZ	24	56.0 (1)		
		eL	21 20 20	LZ	24	58.0 (1)		
		eL	21 20 20	LR	25	57.0 (1)		
		eL	21 20 20	LT	25	26.0 (1)		
4	WI	eP	20 47 55.3	Z	1.4	16.0 (0)	94.0	5.19
		eL	21 17 11	LT	28	27.0 (1)		
		eL	21 22 25	LZ	21	18.0 (1)		
		eL	21 22 55	LR	20	14.0 (1)		
		eL	21 22 55	LT	20	44.0 (1)		
4	TF	eL	21 16 49	LZ	32	77.0 (1)	93.0	
4	FM	eL	21 20 31	LZ	28	46.0 (1)	98.0	
		eL	21 22 45	LZ	25	42.0 (1)		
		eL	21 22 45	LR	25	29.0 (1)		
		eL	21 22 45	LT	25	33.0 (1)		
4	AR	eL	21 29 13	LZ	28	29.0 (1)	114.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	21 33 51	LZ	23	27.0 (1)		
		eL	21 33 51	LR	23	15.0 (1)		
		eL	21 33 51	LT	24	19.0 (1)		
							AVG.	5.14
4	MN	eP	22 14 13.5	Z	0.3	6.0 (0)	1.5	
		eS	22 14 32	R	0.3	27.0 (0)		
4	CP	eP	22 38 32.5	Z	0.2	14.0 (0)	1.2	
		eS	22 38 48	T	999.9	99.9 (9)		
4	22 47 35.5		04.1 N 076.2 W			CENTRAL COLOMBIA		
			H = 067 KM					
4	LC	eP	22 55 07.4	Z	0.7	3.7 (0)	40.0	4.26
4	MN	eP	22 56 35.1	Z	1.0	3.3 (0)	51.0	4.29
							AVG.	4.28
4	MN	eP	23 20 50.8	Z	1.0	4.2 (0)		
4	DH	eL	23 26 18	LZ	28	66.0 (1)		
4	DH	eL	23 27 25	LZ	27	64.0 (1)		
4	DH	eL	23 27 25	LR	26	60.0 (1)		
4	DH	eL	23 27 25	LT	20	21.0 (1)		
4	AR	eL	23 30 23	LZ	31	28.0 (1)		
4	AR	eL	23 34 23	LZ	20	61.0 (1)		
4	AR	eL	23 34 23	LR	20	42.0 (1)		
4	AR	eL	23 34 23	LT	20	26.0 (1)		
4	WI	eL	23 39 15	LT	22	24.0 (1)		
4	WI	eL	23 42 00	LT	30	51.0 (1)		
4	MN	e	23 43 10	LT	35	51.0 (1)		
4	MN	eL	23 45 20	LZ	21	28.0 (1)		
4	MN	eL	23 47 55	LZ	23	28.0 (1)		
4	MN	eL	23 47 55	LR	23	16.0 (1)		
4	MN	eL	23 47 55	LT	25	18.0 (1)		
5	04 14 39.1		40.2 N 029.5 W			AZORES REGION		
			H = 033 KM					
5	TF	eL	04 53 05	LZ	20	34.0 (1)	69.0	
		eL	04 54 36	LZ	20	53.0 (1)		
		eL	04 54 36	LR	20	48.0 (1)		
		eL	04 54 36	LT	17	33.0 (1)		
5	08 39 32.2		40.7 N 029.8 W			AZORES REGION		
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	DH	eL	08 55 35	LZ	31	92.0 (1)	34.0	
5	AR	eL	08 59 30	LZ	35	32.0 (1)	42.0	
		eL	09 03 25	LZ	21	73.0 (1)		
		eL	09 03 25	LR	23	58.0 (1)		
		eL	09 03 25	LT	20	31.0 (1)		
5	FM	eL	09 07 06	LZ	40	32.0 (1)	61.0	
		eL	09 12 54	LZ	25	48.0 (1)		
		eL	09 12 54	LR	25	33.0 (1)		
		eL	09 12 54	LT	17	22.0 (1)		
5	LC	eL	09 08 36	LZ	36	52.0 (1)	61.0	
		eL	09 13 45	LZ	20	41.0 (1)		
		eL	09 13 45	LR	16	22.0 (1)		
		eL	09 13 45	LT	20	51.0 (1)		
5	WI	eL	09 09 53	LZ	37	45.0 (1)	63.0	
		eL	09 17 15	LZ	16	94.0 (1)		
		eL	09 17 15	LR	14	57.0 (1)		
		eL	09 17 15	LT	16	11.0 (2)		
5	LC	eP	10 23 45.0	Z	0.5	12.0 (0)		
5	10 24 30.3		39.0 N 140.2 E			E. COAST OF HONSHU, JAPAN		
			H = 200 KM					
5	LC	eL	10 25 40	R	0.5	8.9 (0)		
5	10 39 17.5		14.0 N 145.2 E			MARIANA ISLANDS		
			H = 131 KM					
5	13 03 19.4		09.2 S 160.7 E			SOLOMON ISLANDS		
			H = 223 KM					
5	CP	eP	15 29 14.0	Z	999.9	99.9 (9)		
5	TF	eP	15 30 33.2	Z	0.4	20.0 (1)		
5	17 44 57.0		37.9 N 143.2 E			E. COAST OF HONSHU, JAPAN		
			H = 044 KM					
5	21 59 40.2		06.1 S 130.8 E			BANDA SEA		
			H = 031 KM					
6	FM	eP	02 47 56.2	Z	0.5	7.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	03 17 07.2		40.8 N H =033 KM	029.5 W	AZORES REGION			
6	LC	eP	03 27 17.0	Z	1.0	7.4 (0)	61.0	4.74
		ePPP	03 30 57	LZ	20	28.0 (1)		
		eS	03 35 40	LR	22	18.0 (2)		
		eS	03 35 40	LT	20	12.0 (2)		
		eLR	03 45 46	LZ	30	39.0 (2)		
		eL	03 49 15	LZ	30	45.0 (2)		
		eL	03 49 15	LR	26	45.0 (2)		
		eL	03 49 15	LT	26	16.0 (2)		
6	FM	eP	03 27 19.8	Z	1.5	55.0 (0)	61.0	5.43
		ePPP	03 31 09	LZ	20	41.0 (1)		
		eS	03 35 35	LR	23	15.0 (2)		
		eLR	03 45 58	LZ	45	29.0 (2)		
		eL	03 51 04	LZ	24	35.0 (2)		
		eL	03 51 04	LR	24	27.0 (2)		
		eL	03 51 04	LT	20	29.0 (2)		
6	WI	eP	03 27 35.3	Z	1.5	44.0 (0)	63.0	5.30
		ePPP	03 31 26	LZ	20	38.0 (1)		
		eS	03 36 14	LR	30	52.0 (1)		
		eS	03 36 14	LT	32	15.0 (2)		
		eLR	03 46 46	LZ	40	33.0 (2)		
		eL	03 53 40	LZ	23	51.0 (2)		
		eL	03 53 40	LR	19	37.0 (2)		
		eL	03 53 40	LT	23	43.0 (2)		
6	MN	eP	03 27 48.5	Z	1.2	1.3 (0)	65.0	5.00
		eS	03 36 45	LT	30	72.0 (1)		
		eLR	03 47 50	LZ	45	16.0 (2)		
		eL	03 54 00	LZ	24	25.0 (2)		
		eL	03 54 00	LR	20	18.0 (2)		
		eL	03 54 00	LT	25	16.0 (2)		
6	MV	eP	03 27 58.0	Z	1.5	25.0 (0)	67.0	5.12
		eS	03 37 00	LT	34	76.0 (1)		
		eLR	03 49 00	LZ	32	28.0 (2)		
		eL	03 56 20	LZ	20	40.0 (2)		
		eL	03 56 20	LR	20	25.0 (2)		
		eL	03 56 20	LT	20	32.0 (2)		
6	CP	eP	03 28 02.1	Z	1.2	13.0 (0)	68.0	4.92
		eLR	03 49 45	LZ	40	50.0 (2)		
		eL	03 54 40	LZ	25	31.0 (2)		
		eL	03 54 40	LR	18	39.0 (1)		
		eL	03 54 40	LT	22	15.0 (2)		
6	DH	eS	03 29 20	LR	20	14.0 (2)	34.0	
		eS	03 29 20	LT	18	55.0 (1)		
		eLR	03 32 55	LZ	35	99.9 (9)		
		eL	03 34 10	LR	25	48.0 (2)		
		eL	03 34 10	LT	20	22.0 (2)		
6	SJ	eS	03 34 50	LT	20	27.0 (2)	57.0	
		eL	03 44 33	LT	35	17.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	03 50 00	LZ	25	15.0 (2)		
		eL	03 50 00	LR	24	25.0 (2)		
		eL	03 50 00	LT	17	66.0 (2)		
6	TF	eL	03 50 02	LR	35	17.0 (2)	68.0	
		eL	03 57 15	LZ	22	30.0 (2)		
		eL	03 57 15	LR	22	22.0 (2)		
		eL	03 57 15	LT	15	20.0 (2)		
							AVG.	5.09
6	03 54 58.3		40.5 N H =033 KM	029.5 W	AZORES REGION			
6	LC	eP	04 05 09.6	Z	0.8	2.2 (0)	61.0	4.31
		eLR	04 23 50	LZ	33	21.0 (2)		
		eL	04 27 08	LZ	27	19.0 (2)		
		eL	04 27 08	LR	26	22.0 (2)		
		eL	04 27 08	LT	27	89.0 (1)		
6	FM	eP	04 05 13.8	Z	0.8	11.0 (0)	61.0	5.01
		eLR	04 24 24	LZ	45	19.0 (2)		
		eL	04 30 04	LZ	21	17.0 (2)		
		eL	04 30 04	LR	21	13.0 (2)		
		eL	04 30 04	LT	23	12.0 (2)		
6	WI	eP	04 05 27.7	Z	2.0	70.0 (0)	64.0	5.43
		eP	04 05 27.7	Z	2.0	67.0 (0)		5.43
		eLR	04 25 32	LZ	40	14.0 (2)		
		eL	04 32 40	LZ	17	37.0 (2)		
		eL	04 32 40	LR	18	13.0 (2)		
		eL	04 32 40	LT	18	33.0 (2)		
6	MN	eP	04 05 40.7	Z	1.0	8.4 (0)	66.0	4.83
		eL	04 28 00	LR	25	49.0 (1)		
		eLR	04 29 50	LZ	25	83.0 (1)		
		eL	04 32 53	LZ	22	13.0 (2)		
		eL	04 32 53	LR	21	11.0 (2)		
		eL	04 32 53	LT	20	96.0 (1)		
6	MV	eP	04 05 52.4	Z	1.1	6.3 (0)	67.0	4.66
		eLR	04 27 00	LZ	31	14.0 (2)		
		eL	04 34 25	LZ	17	22.0 (2)		
		eL	04 34 25	LR	20	15.0 (2)		
		eL	04 34 25	LT	18	18.0 (2)		
6	CP	eP	04 05 57.6	Z	1.0	7.3 (0)	68.0	4.73
		eLR	04 28 47	LZ	35	20.0 (2)		
6	DH	eLR	04 10 45	LZ	28	31.0 (2)	34.0	
		eL	04 12 04	LR	25	22.0 (2)		
		eL	04 12 04	LT	25	10.0 (2)		
6	SJ	eL	04 22 27	LT	29	11.0 (2)	57.0	
		eL	04 28 05	LR	24	61.0 (1)		
		eL	04 28 05	LT	24	31.0 (2)		
6	TF	eL	04 29 30	LZ	30	60.0 (1)	68.0	
							AVG.	4.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	04 23 24.1		17.4 S H =033 KM	167.7 E			NEW HEBRIDES ISLANDS	
6	MV	eP	04 36 04.5	Z	1.0	12.0 (0)	86.0	4.91
		eP	04 36 06	LZ	20	39.0 (2)		
		ePP	04 39 40	Z	2.5	15.0 (1)		
		eSKS	04 46 18	LT	24	55.0 (2)		
		ePS	04 47 48	LR	28	61.0 (2)		
		e	04 48 47	LT	20	99.9 (9)		
		eSS	04 52 00	LT	22	59.0 (2)		
		eSSS	04 56 00	LZ	23	28.0 (2)		
		eLQ	04 59 38	LT	37	86.0 (2)		
		eLR	05 02 40	LZ	999.9	99.9 (9)		
6	TF	eP	04 36 07.8	Z	1.3	18.0 (0)	87.0	5.08
		eP	04 36 11	LZ	18	62.0 (2)		
		eS	04 46 50	LR	35	99.9 (9)		
		eS	04 46 50	LT	22	22.0 (2)		
		ePS	04 47 42	LT	20	55.0 (2)		
		e	04 50 55	LR	25	51.0 (2)		
		eSS	04 52 27	LT	25	32.0 (2)		
		eLQ	04 58 40	LT	34	98.0 (2)		
		eLR	05 02 38	LZ	23	41.0 (2)		
6	CP	eP	04 36 11.0	Z	1.5	17.0 (0)	88.0	5.09
		eP	04 36 11	LZ	18	61.0 (2)		
		e	04 37 28	Z	2.0	64.0 (0)		
		ePP	04 39 45	LZ	20	24.0 (2)		
		ePP	04 39 49	Z	2.5	16.0 (1)		
		eSKS	04 46 25	LT	25	34.0 (2)		
		ePS	04 48 10	LT	20	13.0 (3)		
		eSS	04 52 20	LT	25	51.0 (2)		
		e	04 53 20	LT	20	80.0 (2)		
		eLQ	04 59 30	LR	45	25.0 (3)		
		eLR	05 03 20	LZ	999.9	99.9 (9)		
6	MN	eP	04 36 14.0	Z	2.0	42.0 (0)	88.0	5.32
		ePP	04 39 56	Z	2.0	68.0 (0)		
		eS	04 46 54	R	2.5	43.0 (0)		
		eS	04 46 54	T	2.5	43.0 (0)		
		eP ⁱ P ⁱ	05 02 03	Z	1.2	5.1 (0)		
6	WI	eP	04 36 21.5	Z	1.0	11.0 (0)	90.0	5.01
		eP	04 36 23	LZ	16	44.0 (2)		
		ePP	04 40 00	LZ	20	18.0 (2)		
		ePP	04 40 09	Z	1.6	59.0 (0)		
		eS	04 47 03	R	2.4	46.0 (0)		
		eS	04 47 03	T	2.5	53.0 (0)		
		eS	04 47 03	LR	20	29.0 (2)		
		eS	04 47 03	LT	23	48.0 (2)		
		ePS	04 48 35	LT	23	90.0 (2)		
		eSS	04 53 25	LR	23	51.0 (2)		
		eLQ	05 00 12	LR	28	41.0 (2)		
		eLR	05 04 30	LZ	35	12.0 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	FM	eP	04 36 29	LZ	20	24.0 (2)	92.0	
		ePP	04 39 54	LZ	23	13.0 (2)		
		e	04 43 39	LZ	18	11.0 (2)		
		eS	04 47 14	LR	25	39.0 (2)		
		eS	04 47 14	LT	25	21.0 (2)		
		ePS	04 48 59	LR	25	94.0 (2)		
		e	04 52 24	LR	25	21.0 (2)		
		e	04 54 34	LR	24	71.0 (2)		
		eL	05 05 54	LR	35	94.0 (2)		
6	LC	eP	04 36 50.0	Z	1.0	3.7 (0)	96.0	4.87
		eP	04 36 50	LZ	21	21.0 (2)		
		ePP	04 40 41	LZ	23	23.0 (2)		
		ePP	04 40 50	Z	3.0	26.0 (1)		
		eSKS	04 47 32	LR	27	25.0 (2)		
		ePS	04 49 20	LR	22	10.0 (3)		
		eSS	04 54 20	LT	999.9	99.9 (9)		
		eSSS	04 58 35	LR	27	43.0 (2)		
		e	05 01 58	LR	21	45.0 (2)		
		eLQ	05 03 00	LR	28	81.0 (2)		
		eLR	05 07 14	LZ	31	10.0 (3)		
		eL	05 18 45	LZ	999.9	99.9 (9)		
		eL	05 18 45	LR	17	57.0 (2)		
		eL	05 18 45	LT	17	11.0 (3)		
6	SJ	eP	04 37 15	LZ	16	39.0 (2)	102.0	
		ePP	04 41 30	LZ	17	94.0 (2)		
		eSKS	04 48 05	LT	25	46.0 (2)		
		ePS	04 50 20	LT	25	10.0 (3)		
		eSSS	05 00 00	LR	25	59.0 (2)		
		e	05 02 35	LR	25	32.0 (2)		
		eG	05 06 20	LR	30	14.0 (3)		
		eLR	05 09 33	LZ	25	90.0 (2)		
6	DH	eP	04 38 50	LZ	17	66.0 (1)	122.0	
		ePP	04 43 45	LZ	22	22.0 (2)		
		e	04 45 25	LR	22	12.0 (2)		
		eSKS	04 49 23	LR	18	11.0 (2)		
		eSKKS	04 50 50	LR	20	11.0 (2)		
		ePS	04 53 32	LR	22	40.0 (2)		
		ePSPS	05 01 15	LR	25	99.9 (9)		
		e	05 09 20	LZ	25	99.9 (9)		
		eLR	05 20 22	LZ	45	99.9 (9)		
		eL	05 25 40	LZ	999.9	99.9 (9)		
		eL	05 25 40	LR	25	13.0 (3)		
		eL	05 25 40	LT	22	85.0 (2)		
							AVG.	5.05
6	04 35 02.5		17.4 S H =033 KM	167.8 E			NEW HEBRIDES ISLANDS	
6	MV	eP	04 47 45.0	Z	0.9	3.7 (0)	87.0	4.55

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	MN	eP	04 47 53.6	Z	1.0	3.4 (0)	89.0	4.50
6	WI	eP	04 48 01.2	Z	1.3	12.0 (0)	90.0	4.93
							AVG.	4.66
6	CP	eP	05 30 26.2	Z	999.9	99.9 (9)		
6	05 38 40.3		26.2 N 126.9 E				RYUKYU ISLANDS	
			H = 122 KM					
6	MV	eP	05 51 22.9	Z	1.4	45.0 (0)	89.0	5.37
6	WI	eP	05 51 29.6	Z	1.5	41.0 (0)	91.0	5.39
6	MN	eP	05 51 35.5	Z	1.5	32.0 (0)	91.0	5.29
6	TF	eP	05 51 39.0	Z	1.2	17.0 (0)	92.0	5.19
6	CP	eP	05 51 55.9	Z	1.2	27.0 (0)	96.0	5.61
		e	05 52 10	Z	1.2	18.0 (0)		
							AVG.	5.37
6	WI	eP	07 16 12.2	Z	1.5	9.4 (0)		
6	MN	eP	07 16 25.6	Z	1.2	5.1 (0)		
6	07 17 03.3		17.4 S 167.8 E				NEW HEBRIDES ISLANDS	
			H = 033 KM					
6	MV	eP	07 29 41.0	Z	0.9	3.9 (0)	86.0	4.47
		eL	07 57 00	LZ	25	98.0 (1)		
6	MN	eP	07 29 54.5	Z	1.2	5.1 (0)	89.0	4.60
		eL	07 57 12	LZ	22	91.0 (1)		
		eL	07 57 12	LR	20	49.0 (1)		
		eL	07 57 12	LT	20	52.0 (1)		
6	WI	eP	07 30 00.5	Z	0.8	1.9 (0)	90.0	4.34
		eLR	07 58 00	LZ	25	71.0 (1)		
		eL	08 02 00	LZ	21	12.0 (2)		
		eL	08 02 00	LR	20	49.0 (0)		
		eL	08 02 00	LT	21	11.0 (2)		
6	TF	eLR	07 56 38	LZ	25	14.0 (2)	87.0	
		eL	07 59 40	LZ	20	20.0 (2)		
		eL	07 59 40	LR	22	17.0 (2)		
		eL	07 59 40	LT	18	61.0 (1)		
6	CP	eLR	07 57 10	LZ	22	13.0 (2)	88.0	
6	SJ	eL	08 04 20	LT	22	97.0 (1)	102.0	
		eL	08 08 00	LR	21	14.0 (2)		
		eL	08 08 00	LZ	21	12.0 (2)		
		eL	08 08 00	LT	21	19.0 (2)		
6	DH	eL	08 16 25	LZ	25	29.0 (1)	122.0	
		eL	08 19 10	LZ	23	41.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	08 19 10	LR	25	36.0 (1)	AVG.	4.47
6	07 56 20.4		17.4 S 167.9 E				NEW HEBRIDES ISLANDS	
			H = 033 KM					
6	MV	eP	08 09 03.1	Z	1.5	23.0 (0)	87.0	5.12
		ePS	08 21 31	LT	23	10.0 (2)		
		eSS	08 25 40	LT	24	13.0 (2)		
		eSSS	08 28 55	LT	20	18.0 (2)		
		e	08 28 55	LT	20	18.0 (2)		
		eLR	08 35 31	LZ	24	29.0 (2)		
		eL	08 39 15	LZ	20	38.0 (2)		
		eL	08 39 15	LR	21	21.0 (2)		
		eL	08 39 15	LT	22	27.0 (2)		
6	CP	eP	08 09 07.8	Z	1.2	4.5 (0)	88.0	4.57
6	CP	eSSS	08 29 05	LT	22	30.0 (2)	89.0	
6	CP	eL	08 36 25	LZ	25	55.0 (2)	88.0	
6	MN	eP	08 09 12.8	Z	1.0	5.0 (0)	89.0	4.67
6	WI	eP	08 09 20.0	Z	1.0	5.4 (0)	90.0	4.70
		ePS	08 21 31	LT	22	12.0 (2)		
		eLR	08 37 42	LZ	30	24.0 (2)		
		eL	08 41 00	LZ	22	45.0 (2)		
		eL	08 41 00	LR	23	21.0 (2)		
		eL	08 41 00	LT	21	40.0 (2)		
6	LC	eSKS	08 20 36	LR	23	53.0 (1)	96.0	
		ePS	08 22 17	LR	22	13.0 (2)		
		eLR	08 40 08	LZ	26	96.0 (1)		
6	TF	ePS	08 20 50	LR	22	18.0 (2)	88.0	
		eL	08 35 45	LZ	35	60.0 (2)		
6	DH	eL	08 55 20	LZ	25	12.0 (2)	122.0	
							AVG.	4.77
6	08 03 31.7		17.2 S 168.0 E				NEW HEBRIDES ISLANDS	
			H = 033 KM					
6	MV	eP	08 16 14.6	Z	1.0	12.0 (0)	87.0	5.01
		eP	08 16 18	LZ	21	12.0 (2)		
6	TF	eP	08 16 18.0	Z	1.0	13.0 (0)	88.0	4.11
		eSKS	08 26 57	LR	22	21.0 (2)		
		ePS	08 28 00	LR	22	34.0 (2)		
6	MN	eP	08 16 24.5	Z	1.2	3.9 (0)	89.0	4.48
6	CP	eP	08 16 26.6	Z	1.0	4.4 (0)	89.0	4.61
		ePS	08 28 25	LT	22	21.0 (2)		
6	WI	eP	08 16 31.6	Z	1.1	13.0 (0)	91.0	5.14
		ePP	08 20 03	Z	1.2	3.3 (0)		
		ePS	08 28 40	LT	22	27.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	ePP eSKS ePS eSS	08 20 40 08 28 00 08 29 23 08 35 00	Z LT LR LT	3.5 23 24 24	77.0 (0) 11.0 (2) 23.0 (2) 26.0 (2)	96.0	
						AVG.		4.67
6	MV	e	08 21 31	LT	23	10.0 (2)		
6	MV	e	08 27 00	LT	24	13.0 (2)		
6	MV	e	08 28 55	LT	20	18.0 (2)		
6	MV	e	08 29 05	LZ	22	23.0 (2)		
6	CP	e	08 29 05	LT	22	30.0 (2)		
6	08 31 50.1		17.3 S 167.8 E				NEW HEBRIDES ISLANDS	
			H =033 KM					
6	MN	eP	08 44 40.5	Z	1.1	3.1 (0)	89.0	4.42
6	WI	eP	08 44 53.0	Z	1.0	5.3 (0)	91.0	4.79
						AVG.		4.61
6	WI	eP	08 44 53.0	Z	1.0	3.2 (0)	91.0	4.57
6	LC	eP	08 46 23.0	Z	1.0	2.5 (0)		
6	WI	eP	08 46 41.2	Z	1.0	5.4 (0)		
6	MN	eP	09 02 55.1	Z	0.2	40.0 (0)	0.8	
		eS	09 03 06	T	0.3	26.0 (0)		
6	MV	eP	09 03 34.0	Z	0.7	4.3 (0)		
6	WI	eP	09 03 47.5	Z	0.3	0.7 (0)	3.4	
6	MN	eP	09 04 27.5	Z	0.2	34.0 (0)	1.2	
6	WI	eS	09 04 30	T	0.5	13.0 (0)	3.4	
6	MN	eS	09 04 43	T	0.4	23.0 (0)	1.2	
6	LC	eP	09 05 48.0	Z	1.0	1.2 (0)		
6	09 28 17.4		43.6 N 110.8 W				TETON COUNTY, WYOMING	
			H =033 KM					
6	FM	eP	09 29 24.8	Z	0.3	3.4 (0)	4.5	4.30
		e	09 29 39	Z	0.5	21.0 (0)		
		eS	09 30 17	R	0.5	19.0 (0)		
6	WI	eP	09 29 37.6	Z	0.5	1.2 (0)	5.4	3.72
		e	09 29 44	Z	0.6	40.0 (0)		
		eLG	09 31 00	R	0.8	87.0 (0)		
6	MN	eP	09 30 11.0	Z	0.9	3.2 (0)	8.0	4.35
		eL	09 32 16	Z	1.0	14.0 (0)		
						AVG.		4.12

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	09 31 51.0	Z	0.7	0.6 (0)		
6	LC	eL	09 34 23	T	1.1	3.2 (0)		
6	WI	eL	10 21 05	LZ	22	40.0 (1)		
6	MN	eL	10 23 00	LZ	23	57.0 (1)		
6	MN	eL	10 23 00	LR	23	40.0 (1)		
6	MN	eL	10 23 00	LT	23	44.0 (1)		
6	WI	eL	10 29 00	LZ	22	57.0 (1)		
6	WI	eL	10 29 00	LR	22	15.0 (1)		
6	WI	eL	10 29 00	LT	20	51.0 (1)		
6	11 00 52.8		13.3 S 167.3 E				NEW HEBRIDES ISLANDS	
			H =209 KM					
6	TF	eP	11 13 03.2	Z	1.0	13.0 (0)	84.0	4.62
		epP	11 13 51	Z	1.0	13.0 (0)		
6	MV	eP	11 13 04.5	Z	1.0	20.0 (0)	85.0	4.81
		epP	11 13 53	Z	1.0	27.0 (0)		
6	CP	eP	11 13 12.5	Z	0.8	7.7 (0)	86.0	4.58
		epP	11 14 02	Z	1.0	16.0 (0)		
6	MN	eP	11 13 15.0	Z	1.0	14.0 (0)	87.0	4.76
		epP	11 14 07	Z	1.4	44.0 (0)		
		ePKKP	11 31 10	Z	0.8	1.4 (0)		
		eP'P'	11 39 18	Z	1.0	5.0 (0)		
6	WI	eP	11 13 22.0	Z	1.2	20.0 (0)	88.0	4.83
		epP	11 14 11	Z	1.2	23.0 (0)		
		eP'P'	11 39 10	Z	1.4	10.0 (0)		
6	LC	eP	11 13 49.5	Z	0.8	1.5 (0)	94.0	4.45
		epP	11 14 37	Z	1.0	4.9 (0)		
		ePP	11 17 36	Z	1.0	3.7 (0)		
		eS	11 24 50	LR	20	21.0 (1)		
		eSP	11 26 07	LZ	20	28.0 (1)		
		ePKKP	11 30 52	Z	0.8	1.5 (0)		
		eL	11 44 46	LZ	25	37.0 (1)		
		eL	11 46 25	LZ	25	28.0 (1)		
		eL	11 46 25	LR	25	11.0 (1)		
		eL	11 46 25	LT	25	19.0 (1)		
6	FM	epP	11 14 26	Z	1.0	19.0 (0)	91.0	
		ePKKP	11 30 59	Z	0.7	9.4 (0)		
						AVG.		4.68
6	11 59 42.3		17.4 S 167.8 E				NEW HEBRIDES ISLANDS	
			H =017 KM					
6	MV	eP	12 12 24.7	Z	0.7	1.7 (0)	86.0	4.25
		eLR	12 39 12	LZ	27	68.0 (1)		
6	MN	eP	12 12 37.2	Z	1.0	1.7 (0)	89.0	4.21

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	12 40 40	LZ	30	48.0 (1)		
		eL	12 45 00	LZ	18	61.0 (1)		
		eL	12 45 00	LR	19	39.0 (1)		
		eL	12 45 00	LT	20	37.0 (1)		
6	WI	eP	12 12 45.1	Z	0.9	2.5 (0)	91.0	4.53
		eLR	12 41 20	LZ	30	56.0 (1)		
		eL	12 44 00	LZ	23	85.0 (1)		
		eL	12 44 00	LR	20	20.0 (1)		
		eL	12 44 00	LT	23	85.0 (1)		
6	LC	ePS	12 25 38	LT	25	19.0 (1)	96.0	
		e	12 31 25	LT	23	28.0 (1)		
		eL	12 43 50	LZ	24	19.0 (1)		
		eL	12 51 10	LZ	18	44.0 (1)		
		eL	12 51 10	LR	18	13.0 (1)		
		eL	12 51 10	LT	18	33.0 (1)		
6	TF	eLR	12 39 15	LZ	22	12.0 (2)	86.0	
		eL	12 42 52	LZ	20	18.0 (2)		
		eL	12 42 52	LR	20	12.0 (2)		
		eL	12 42 52	LT	20	57.0 (1)		
6	FM	eL	12 42 44	LZ	30	29.0 (1)	93.0	
		eL	12 45 04	LZ	22	33.0 (1)		
		eL	12 45 04	LR	20	29.0 (1)		
		eL	12 45 04	LT	20	80.0 (0)		
6	SJ	eL	12 47 10	LT	25	72.0 (1)	102.0	
		eL	12 51 00	LZ	20	12.0 (2)		
		eL	12 51 00	LR	20	74.0 (1)		
		eL	12 51 00	LT	20	15.0 (2)		
6	DH	eL	12 57 35	LZ	30	26.0 (1)	122.0	
		eL	13 01 25	LZ	25	26.0 (1)		
		eL	13 01 25	LR	25	30.0 (1)		
							AVG.	4.33
6	LC	eP	13 41 27.4	Z	0.6	11.0 (0)		
6	MN	eP	13 42 54.0	Z	0.8	4.9 (0)		
6	WI	eP	13 42 57.1	Z	0.5	6.5 (0)		
6	14 05 24.0		01.5 S 077.4 W				ECUADOR	
			H =149 KM					
6	LC	eP	14 13 15.8	Z	0.8	11.0 (0)	44.0	4.49
6	MN	eP	14 14 40.2	Z	0.5	3.2 (0)	55.0	4.46
6	WI	eP	14 14 48.8	Z	0.6	3.1 (0)	56.0	4.37
							AVG.	4.44
6	MV	eP	16 53 26.4	Z	0.3	6.1 (0)	1.1	
		eS	16 53 41	R	0.3	16.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	17 35 25.2		44.4 N 148.2 E				KURILE ISLANDS	
			H =029 KM					
6	LC	eP	17 38 37.0	Z	0.2	4.7 (0)	3.0	
		eS	17 39 15	T	0.4	7.1 (0)		
6	18 01 05.4		17.6 S 168.0 E				NEW HEBRIDES ISLANDS	
			H =033 KM					
6	MV	eP	18 13 49.0	Z	0.9	3.9 (0)	87.0	4.57
		eL	18 39 25	LT	25	45.0 (1)		
		eLR	18 41 45	LZ	23	10.0 (2)		
		eL	18 44 23	LZ	19	69.0 (1)		
		eL	18 44 23	LR	20	50.0 (1)		
		eL	18 44 23	LT	22	83.0 (1)		
6	MN	eP	18 13 58.8	Z	1.0	5.0 (0)	89.0	4.67
		eL	18 42 00	LZ	30	24.0 (1)		
		eL	18 45 00	LZ	21	45.0 (1)		
		eL	18 45 00	LR	25	27.0 (1)		
		eL	18 45 00	LT	20	38.0 (1)		
6	CP	eP	18 13 58.9	Z	1.1	7.2 (0)	89.0	4.78
6	WI	eP	18 14 06.5	Z	1.0	5.4 (0)	91.0	4.80
		e	18 14 37	Z	1.0	14.0 (0)		
		eLR	18 42 25	LZ	30	33.0 (1)		
		eL	18 45 40	LZ	23	12.0 (2)		
		eL	18 45 40	LR	20	39.0 (1)		
		eL	18 45 40	LT	23	11.0 (2)		
6	TF	eLR	18 41 38	LZ	25	69.0 (1)	86.0	
		eL	18 43 20	LZ	22	20.0 (2)		
		eL	18 43 20	LR	22	14.0 (2)		
		eL	18 43 20	LT	20	94.0 (1)		
6	FM	eL	18 43 50	LZ	25	16.0 (1)	93.0	
6	LC	eL	18 44 31	LZ	25	28.0 (1)	96.0	
		eL	18 52 50	LZ	18	55.0 (1)		
		eL	18 52 50	LR	17	27.0 (1)		
		eL	18 52 50	LT	20	37.0 (1)		
6	DH	eL	18 59 50	LZ	25	20.0 (1)	122.0	
		eL	19 04 35	LZ	22	37.0 (1)		
		eL	19 04 35	LR	22	30.0 (1)		
							AVG.	4.71
6	21 37 57.4		05.3 S 145.0 E				NEW GUINEA	
			H =043 KM					
6	WI	eP	22 39 09.0	Z	0.3	15.0 (0)	0.6	
		eS	22 39 17	R	0.3	16.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	22 54 13.6	Z	0.6	2.6 (0)		
6	LC	eP	22 58 26.0	Z	1.0	2.5 (0)		
6 23 31 27.7 17.5 S 167.6 E NEW HEBRIDES ISLANDS H =042 KM								
6	TF	eP	23 44 05.6	Z	1.0	8.8 (0)	86.0	4.76
		eP	23 44 08	LZ	20	11.0 (2)		
		eS	23 54 53	LR	22	23.0 (2)		
		ePS	23 55 47	LR	21	40.0 (2)		
6	MV	eP	23 44 07.6	Z	0.9	5.2 (0)	87.0	4.68
		eS	23 54 40	LT	25	12.0 (2)		
		e	23 56 49	LT	22	19.0 (2)		
7	MV	eSS	00 01 00	LT	20	13.0 (2)	87.0	
6	CP	eP	23 44 15.6	Z	1.0	5.8 (0)	88.0	4.81
		eP	23 44 18	LZ	15	20.0 (2)		
		eS	23 55 00	LR	25	91.0 (1)		
		eS	23 55 00	LT	28	66.0 (1)		
		e	23 56 15	LT	21	25.0 (2)		
7	CP	eSS	00 00 20	LT	20	14.0 (2)	88.0	
		e	00 01 20	LT	18	24.0 (2)		
		eLR	00 11 35	LZ	25	39.0 (2)		
		eL	00 14 06	LZ	20	53.0 (2)		
		eL	00 14 06	LR	23	11.0 (2)		
		eL	00 14 06	LT	20	36.0 (2)		
6	MN	eP	23 44 19.0	Z	1.2	10.0 (0)	89.0	4.87
		eP	23 44 20	LZ	20	61.0 (1)		
		eS	23 55 00	LR	21	36.0 (1)		
		eS	23 55 00	LT	23	14.0 (2)		
		ePS	23 56 28	LT	20	18.0 (2)		
6	WI	eP	23 44 25.1	Z	1.0	6.4 (0)	90.0	4.76
		eP	23 44 28	LZ	17	13.0 (2)		
		ePP	23 48 00	LZ	20	48.0 (1)		
		eSKS	23 55 00	LT	20	76.0 (1)		
		ePS	23 56 20	LT	23	33.0 (2)		
7	WI	e	00 01 40	LR	23	10.0 (2)	90.0	
		eL	00 08 15	LR	24	86.0 (2)		
		eL	00 12 40	LZ	999.9	99.9 (9)		
6	LC	eP	23 44 50.5	Z	1.0	1.7 (0)	96.0	4.53
		eP	23 44 56	LZ	20	38.0 (1)		
		ePP	23 48 43	Z	3.0	89.0 (0)		
		ePP	23 48 44	LZ	21	47.0 (1)		
		eSKS	23 55 30	LR	25	42.0 (1)		
		ePS	23 57 35	LR	22	27.0 (2)		
7	LC	eSS	00 02 23	LT	23	28.0 (2)	96.0	
6	DH	ePP	23 51 55	LZ	22	46.0 (1)	122.0	
7	DH	ePS	00 01 50	LR	22	85.0 (1)	122.0	
		ePSPS	00 09 17	LR	25	25.0 (2)		
		eL	00 30 00	LZ	29	13.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	00 32 25	LR	23	24.0 (2)		
		eL	00 32 25	LT	22	77.0 (1)		
6	FM	eSKS	23 55 22	LR	23	76.0 (1)	93.0	
		e	23 57 09	LR	25	19.0 (2)		
7	FM	e	00 02 34	LR	25	14.0 (2)	93.0	
		eLR	00 13 48	LZ	29	18.0 (2)		
		eL	00 17 28	LZ	21	24.0 (2)		
		eL	00 17 28	LR	21	16.0 (2)		
		eL	00 17 28	LT	20	21.0 (2)		
6	SJ	ePS	23 58 25	LT	21	20.0 (2)	102.0	
7	SJ	eL	00 19 40	LT	25	39.0 (2)	102.0	
AVG. 4.74								
7	WI	eP	00 11 30.0	Z	1.3	6.2 (0)		
7 00 46 55.4 17.7 S 167.8 E NEW HEBRIDES ISLANDS H =033 KM								
7	TF	eL	01 28 16	LZ	22	71.0 (1)	86.0	
		eL	01 30 52	LZ	22	25.0 (2)		
		eL	01 30 52	LR	22	23.0 (2)		
		eL	01 30 52	LT	22	59.0 (1)		
7	MV	eL	01 28 46	LT	25	59.0 (1)	88.0	
		eL	01 30 58	LZ	24	17.0 (2)		
		eL	01 30 58	LR	23	11.0 (2)		
		eL	01 30 58	LT	22	13.0 (2)		
7	MN	eL	01 29 46	LZ	25	90.0 (1)	88.0	
		eL	01 31 22	LZ	24	87.0 (1)		
		eL	01 31 22	LR	21	65.0 (1)		
		eL	01 31 22	LT	22	98.0 (1)		
7	CP	eL	01 29 48	LZ	25	13.0 (2)	88.0	
		eL	01 31 42	LZ	21	15.0 (2)		
		eL	01 31 42	LR	24	48.0 (1)		
		eL	01 31 42	LT	20	10.0 (2)		
7	WI	eL	01 30 40	LZ	30	13.0 (2)	92.0	
		eL	01 33 22	LZ	23	22.0 (2)		
		eL	01 33 22	LR	23	51.0 (1)		
		eL	01 33 22	LT	22	18.0 (2)		
7	LC	eL	01 33 20	LZ	32	59.0 (1)	97.0	
		eL	01 39 22	LZ	19	74.0 (1)		
		eL	01 39 22	LR	18	54.0 (1)		
		eL	01 39 22	LT	19	61.0 (1)		
7	SJ	eL	01 36 25	LT	25	10.0 (2)	102.0	
		eL	01 39 17	LZ	20	12.0 (2)		
		eL	01 39 17	LR	23	15.0 (2)		
		eL	01 39 17	LT	21	27.0 (2)		
7	DH	eL	01 38 20	LZ	20	65.0 (1)	121.0	
		eL	01 39 35	LZ	24	50.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	01 39 35	LR	22	66.0 (1)		
		eL	01 39 35	LT	15	41.0 (1)		
7	MN	eP	01 01 55.2	Z	1.5	4.9 (0)		
7	MN	e	01 02 27	Z	1.5	22.0 (0)		
7	05 47 33.0		17.5 S 168.0 E				NEW HEBRIDES ISLANDS	
			H =017 KM					
7	WI	eP	06 00 36.3	Z	1.0	2.2 (0)	91.0	4.43
7	06 45 13.8		40.5 N 029.2 W				AZORES REGION	
			H =033 KM					
7	WI	eP	06 55 44.6	Z	0.6	1.4 (0)	64.0	3.97
		eL	07 17 25	LT	32	32.0 (1)		
		eL	07 22 42	LZ	16	68.0 (1)		
		eL	07 22 42	LR	18	30.0 (1)		
		eL	07 22 42	LT	17	66.0 (1)		
7	MN	eP	06 55 57.2	Z	0.7	0.8 (0)	66.0	3.98
7	CP	eP	06 56 12.0	Z	1.0	2.9 (0)	68.0	4.33
7	LC	eL	07 14 25	LZ	40	48.0 (1)	60.0	
		eL	07 17 12	LZ	25	32.0 (1)		
		eL	07 17 12	LR	25	41.0 (1)		
		eL	07 17 12	LT	25	28.0 (1)		
7	FM	eL	07 15 20	LZ	35	13.0 (1)	61.0	
		eL	07 20 23	LZ	21	27.0 (1)		
		eL	07 20 23	LR	22	28.0 (1)		
		eL	07 20 23	LT	20	25.0 (1)		
							AVG.	4.09
7	CP	eP	08 56 47.7	Z	0.2	6.3 (0)	0.7	
		eS	08 56 58	R	999.9	99.9 (9)		
7	MN	eP	09 00 23.3	Z	0.7	5.5 (0)		
7	WI	eP	09 00 33.0	Z	1.0	6.5 (0)		
7	09 49 25.9		40.2 N 029.2 W				AZORES REGION	
			H =033 KM					
7	LC	eP	09 59 40.5	Z	0.8	1.5 (0)	61.0	4.14
7	WI	eP	09 59 55.2	Z	1.5	16.0 (0)	63.0	4.86

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MN	eP	10 00 15.8	Z	1.7	13.0 (0)	67.0	4.78
							AVG.	4.59
7	CP	eP	10 15 40.8	Z	0.4	5.9 (0)	0.8	
		eS	10 15 52	T	999.9	99.9 (9)		
7	10 20 24.4		19.9 S 169.4 E				NEW HEBRIDES ISLANDS	
			H =033 KM					
7	LC	eP	11 21 02.4	Z	1.0	16.0 (0)		
7	MN	eP	11 22 29.5	Z	0.7	1.7 (0)		
7	12 35 30.9		04.9 S 144.3 E				NEW GUINEA	
			H =075 KM					
7	LC	eP	13 12 32.0	Z	0.7	1.2 (0)		
7	13 51 54.4		17.3 S 167.8 E				NEW HEBRIDES ISLANDS	
			H =017 KM					
7	FM	eL	15 19 15	LZ	30	22.0 (1)		
7	FM	eL	15 23 58	LZ	20	47.0 (1)		
7	FM	eL	15 23 58	LR	21	51.0 (1)		
7	FM	eL	15 23 58	LT	19	55.0 (1)		
7	16 00 20.2		57.8 S 025.5 W				SANDWICH ISLANDS	
			H =033 KM					
7	CP	eP	16 19 03.6	Z	0.7	3.6 (0)	118.0	
7	MN	eP	16 19 14.2	Z	0.7	6.2 (0)	124.0	
7	MV	eP	16 19 17.6	Z	1.0	12.0 (0)	125.0	
7	WI	eP	16 19 18.0	Z	0.6	9.1 (0)	125.0	
7	16 47 22.7		17.7 S 167.5 E				NEW HEBRIDES ISLANDS	
			H =033 KM					
7	16 52 19.4		17.9 S 167.4 E				NEW HEBRIDES ISLANDS	
			H =039 KM					
7	MN	eP	18 47 00.7	Z	1.0	3.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	LC	eP	18 47 30.0	Z	0.7	5.5 (0)		
8	05 14 20.4		40.5 N 029.5 W H =033 KM			AZORES REGION		
8	LC	eP	05 24 31.3	Z	1.0	4.3 (0)	59.0	4.43
		ePPS	05 32 58	LT	26	26.0 (1)		
		eLR	05 43 12	LZ	32	70.0 (1)		
		eL	05 46 40	LZ	28	69.0 (1)		
		eL	05 46 40	LR	24	58.0 (1)		
		eL	05 46 40	LT	28	35.0 (1)		
8	FM	eP	05 24 33.9	Z	1.1	23.0 (0)	61.0	5.19
		ePS	05 33 02	LR	25	29.0 (1)		
		eL	05 44 22	LZ	31	26.0 (1)		
		eL	05 50 39	LZ	20	47.0 (1)		
		eL	05 50 39	LR	20	54.0 (1)		
		eL	05 50 39	LT	23	41.0 (1)		
8	WI	eP	05 24 50.0	Z	1.2	17.0 (0)	64.0	5.05
		eL	05 45 10	LT	29	56.0 (1)		
		eL	05 52 13	LZ	18	10.0 (2)		
		eL	05 52 13	LR	16	12.0 (2)		
		eL	05 52 13	LT	18	52.0 (1)		
8	MN	eP	05 25 04.2	Z	1.0	6.6 (0)	66.0	4.72
		eSS	05 38 15	LT	18	16.0 (1)		
		eL	05 42 25	LZ	21	51.0 (1)		
		eL	05 42 25	LR	20	43.0 (1)		
		eL	05 42 25	LT	21	49.0 (1)		
		eL	05 45 40	LZ	29	14.0 (1)		
8	MV	eP	05 25 12.0	Z	1.1	4.2 (0)	67.0	4.48
		eL	05 47 30	LZ	34	53.0 (2)		
8	CP	eP	05 25 17.1	Z	1.0	7.3 (0)	68.0	4.73
8	DH	eL	05 30 08	LZ	29	14.0 (2)	34.0	
		eL	05 31 40	LZ	26	10.0 (2)		
		eL	05 31 40	LR	26	77.0 (1)		
		eL	05 31 40	LT	20	37.0 (0)		
						AVG.		4.77
8	LC	eP	07 03 41.8	Z	1.1	6.2 (0)		
8	13 20 32.7		17.8 S 167.8 E H =033 KM			NEW HEBRIDES ISLANDS		
8	MN	eP	15 04 56.4	Z	0.4	3.4 (0)	1.1	
		eS	15 05 30	T	0.9	18.0 (0)		
8	CP	eP	15 05 47.5	Z	0.3	4.2 (0)		
8	TF	eP	15 05 58.5	Z	0.6	7.6 (0)	3.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MV	eP	15 06 24.0	Z	0.7	5.1 (0)	5.0	
8	WI	eP	15 06 29.3	Z	0.5	8.4 (0)	4.6	
8	TF	eS	15 06 41	T	0.7	30.0 (0)	3.4	
8	MV	eS	15 07 25	T	0.7	5.0 (0)	5.0	
8	WI	eS	15 07 26	T	0.8	53.0 (0)	4.6	
8	15 11 12.8		42.2 N 024.1 E H =033 KM			BULGARIA		
8	MN	eP	15 59 24.3	Z	999.9	99.9 (9)		
8	LC	eP	16 14 23.4	Z	0.2	7.2 (0)	3.1	
		eS	16 15 02	R	0.4	9.3 (0)		
8	LC	eP	17 34 28.4	Z	0.5	3.8 (0)	3.5	
		eS	17 35 15	T	0.5	6.7 (0)		
8	17 53 28.6		18.7 S 176.8 W H =243 KM			FIJI ISLANDS		
8	MV	eP	18 04 58.5	Z	0.8	4.0 (0)	77.0	4.20
8	TF	eP	18 04 50.6	Z	1.0	18.0 (0)	76.0	4.76
8	CP	eP	18 04 56.7	Z	1.0	12.0 (0)	77.0	4.58
8	MN	tP	18 05 07.5D	Z	1.0	23.0 (0)	79.0	4.91
8	WI	eP	18 05 18.7	Z	1.0	13.0 (0)	81.0	4.66
8	FM	eP	18 05 30.2	Z	0.8	17.0 (0)	84.0	4.97
8	LC	tP	18 05 34.5D	Z	0.8	38.0 (0)	84.0	5.22
						AVG.		4.76
8	LC	eP	18 41 27.7	Z	0.2	4.8 (0)	3.0	
		eS	18 42 06	R	0.3	7.7 (0)		
8	18 54 36.9		10.3 S 161.4 E H =079 KM			SOLOMON ISLANDS		
8	MN	eP	19 07 24.5	Z	1.0	5.0 (0)	89.0	4.62
8	WI	eP	19 07 30.6	Z	1.0	6.6 (0)	90.0	4.74
						AVG.		4.68
8	21 56 22.2		24.3 N 121.7 E H =029 KM			EAST COAST OF FORMOSA		
						MAG 6.00- PAS		
8	MV	eP	22 09 36.6	Z	1.0	31.0 (0)	93.0	5.66

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	22 09 39	LZ	17	10.0 (1)		
		ePP	22 13 29	LZ	19	71.0 (1)		
		eSKS	22 20 13	R	5.0	78.0 (1)		
		eSKS	22 20 15	LR	18	12.0 (2)		
		eS	22 20 49	LT	15	28.0 (2)		
		eS	22 20 49	LR	14	13.0 (2)		
		eSS	22 27 14	LT	25	12.0 (2)		
		e	22 33 48	LT	31	18.0 (2)		
		eLQ	22 35 45	LT	37	72.0 (2)		
		eL	22 40 15	LZ	33	41.0 (2)		
		eL	23 05 05	LZ	21	30.0 (2)		
		eL	23 05 05	LR	20	15.0 (2)		
		eL	23 05 05	LT	21	35.0 (2)		
8	WI	eP	22 09 43.0	Z	1.0	44.0 (0)	95.0	5.84
		eP	22 09 45	LZ	15	14.0 (2)		
		eSKS	22 20 22	LT	15	21.0 (2)		
		eSKS	22 20 24	R	2.0	79.0 (0)		
		eS	22 20 58	LR	20	21.0 (2)		
		eS	22 20 58	LR	19	10.0 (2)		
		ePS	22 22 26	LT	24	19.0 (2)		
		eSS	22 27 52	LT	36	23.0 (2)		
		eSSS	22 30 13	LR	24	11.0 (2)		
		eL	22 36 32	LR	23	24.0 (2)		
		eL	22 40 55	LZ	25	27.0 (2)		
8	MN	eP	22 09 48.8	Z	1.3	41.0 (0)	96.0	5.80
		eP	22 09 50	LZ	17	87.0 (1)		
		ePP	22 13 33	Z	2.4	70.0 (0)		
		ePP	22 13 40	LZ	21	68.0 (1)		
		eSKS	22 20 29	R	3.6	22.0 (1)		
		eSKS	22 20 30	LR	15	31.0 (2)		
		eS	22 21 12	LT	16	18.0 (2)		
		eS	22 21 12	LT	14	25.0 (2)		
		ePS	22 22 31	LR	18	23.0 (2)		
		eSS	22 28 00	LR	24	15.0 (1)		
		eSSS	22 31 25	LR	30	27.0 (2)		
		e	22 35 11	LR	22	26.0 (2)		
		eL	22 36 56	LT	35	99.9 (9)		
		eL	22 41 10	LZ	999.9	99.9 (9)		
8	TF	eP	22 09 53.5	Z	1.0	23.0 (0)	97.0	5.73
		eP	22 09 54	LZ	16	12.0 (2)		
		ePP	22 13 56	LZ	25	68.0 (1)		
		eSKS	22 20 33	LT	15	99.9 (9)		
		ePS	22 22 43	LT	24	99.9 (9)		
		eSS	22 28 16	LT	24	99.9 (9)		
		e	22 36 54	LR	30	52.0 (2)		
		eL	22 40 09	LZ	29	52.0 (2)		
		eL	22 49 42	LZ	999.9	99.9 (9)		
		eL	22 49 42	LR	19	75.0 (2)		
		eL	22 49 42	LT	20	99.9 (9)		
8	FM	eP	22 10 04.3	Z	999.9	99.9 (9)	99.0	
		eP	22 10 05	LZ	17	65.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	22 14 05	LZ	20	59.0 (1)		
		eSKS	22 20 48	LT	15	40.0 (2)		
		ePS	22 23 04	LT	21	23.0 (2)		
		eSS	22 28 49	LT	34	23.0 (2)		
		eSSS	22 32 32	LT	29	29.0 (2)		
		eL	22 43 22	LT	28	41.0 (2)		
		eL	23 02 40	LZ	19	99.9 (9)		
		eL	23 02 40	LR	15	36.0 (2)		
		eL	23 02 40	LT	19	53.0 (2)		
8	CP	eP	22 10 11.2	Z	2.0	55.0 (0)	101.0	5.77
		eSKS	22 20 54	T	4.8	59.0 (1)		
		eSKS	22 20 55	LT	15	18.0 (2)		
		ePS	22 23 25	LR	23	33.0 (2)		
		eSSS	22 32 40	LT	25	11.0 (2)		
		eLQ	22 38 40	LR	29	43.0 (2)		
		eL	22 42 47	LZ	28	99.9 (9)		
		eL	22 51 23	LZ	20	99.9 (9)		
		eL	22 51 23	LR	19	18.0 (2)		
		eL	22 51 23	LT	20	46.0 (2)		
8	LC	ePD	22 10 34.5	Z	0.8	0.7 (0)	107.0	5.86
		eP	22 10 40	LZ	20	36.0 (1)		
		ePP	22 15 05	Z	1.5	22.0 (0)		
		ePP	22 15 05	LZ	23	63.0 (1)		
		eSKS	22 21 25	LR	16	18.0 (2)		
		ePS	22 24 30	LR	22	23.0 (2)		
		e	22 28 45	LR	19	90.0 (1)		
		eSS	22 30 47	LR	25	16.0 (2)		
		eSSS	22 34 16	LR	31	29.0 (2)		
		eLQ	22 40 00	LT	25	33.0 (2)		
		eL	22 46 55	LZ	34	39.0 (2)		
		eLR	22 50 10	LZ	22	23.0 (2)		
		eL	23 08 30	LZ	15	40.0 (2)		
		eL	23 08 30	LR	18	76.0 (2)		
		eL	23 08 30	LT	21	27.0 (2)		
8	DH	ePD	22 10 58	LZ	17	28.0 (1)	112.0	
		ePP	22 15 40	LZ	19	13.0 (2)		
		eSKS	22 21 40	LT	15	10.0 (2)		
		ePS	22 25 00	LT	15	28.0 (2)		
		eSPP	22 26 22	LZ	19	37.0 (2)		
		eSS	22 31 37	LT	41	93.0 (2)		
		eL	22 35 32	LZ	31	14.0 (2)		
		eL	22 56 45	LZ	999.9	99.9 (9)		
		eL	22 56 45	LR	25	11.0 (1)		
		eL	22 56 45	LT	30	49.0 (2)		
8	SJ	ePP	22 16 02	LZ	18	14.0 (2)	116.0	
		ePS	22 25 51	LR	22	49.0 (2)		
		e	22 31 21	LR	34	19.0 (3)		
		eSSS	22 36 45	LR	30	35.0 (2)		
		eL	22 46 12	LT	26	35.0 (2)		
							AVG.	5.78

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	22 24	06.5	24.1 N H = 039 KM	121.8 E	NEAR E. COAST OF FORMOSA			
8	MV	eP	22 37 22.6	Z	0.9	12.0 (0)	95.0	5.32
8	WI	eP	22 37 28.3	Z	1.0	8.8 (0)	96.0	5.24
8	MN	eP	22 37 35.1	Z	1.3	7.9 (0)	97.0	5.14
8	TF	eP	22 37 38.2	Z	0.9	11.0 (0)	98.0	5.51
						AVG.		5.30
9	03 13	44.8	17.4 S H = 033 KM	167.6 E	NEW HEBRIDES ISLANDS			
9	MV	eP	03 26 28.1	Z	0.8	2.0 (0)	87.0	4.33
9	MN	eP	03 26 37.5	Z	1.0	2.5 (0)	89.0	4.37
9	WI	eP	03 26 45.5	Z	0.8	1.9 (0)	91.0	4.44
		eL	03 56 00	LT	25	19.0 (1)		
						AVG.		4.38
9	04 28	36.1	46.2 N H = 284 KM	143.1 E	HOKKAIDO, JAPAN			
9	WI	eP	04 39 01.9	Z	0.6	2.8 (0)	67.0	4.17
9	MN	eP	04 39 11.7	Z	0.8	9.9 (0)	68.0	4.59
9	LC	eP	04 40 14.0	Z	0.7	2.5 (0)	79.0	4.14
						AVG.		4.30
9	MV	eP	07 38 29.1	Z	0.3	22.0 (0)	2.0	
9	MN	eP	07 38 40.3	Z	0.4	7.9 (0)	1.3	
9	MV	eS	07 38 56	R	0.3	21.0 (0)	2.0	
9	MN	eS	07 38 57	R	0.5	28.0 (0)	1.3	
9	WI	eP	07 39 03.5	Z	0.4	2.2 (0)	2.8	
		eS	07 39 41	R	0.6	21.0 (0)		
9	MN	e	07 40 10	R	0.5	3.2 (0)	1.3	
9	WI	eP	08 55 50.0	Z	1.0	3.3 (0)		
9	LC	eP	09 17 47.8	Z	0.8	2.2 (0)		
9	MN	eP	13 36 31.0	Z	0.2	5.6 (0)	0.7	
		eS	13 36 41	R	0.3	9.6 (0)		
9	TF	eP	14 08 04.1	Z	0.2	13.0 (0)	1.6	
		eS	14 08 25	R	0.3	44.0 (0)		
9	CP	eP	14 08 30.6	Z	0.5	1.1 (0)	3.7	
		eS	14 09 16	R	0.5	4.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	15 59	17.5	36.4 N H = 241 KM	071.3 E	HINDU KUSH			
9	LC	eP	16 08 54.5	Z	0.3	4.4 (0)	3.1	
		eS	16 09 33	R	0.3	8.3 (0)		
9	DH	eP	16 18 41.7	Z	0.4	10.0 (0)	1.8	
		eS	16 19 06	R	0.4	27.0 (0)		
9	DH	eP	17 02 22.5	Z	0.4	10.0 (0)	1.5	
		eS	17 02 42	R	0.5	34.0 (0)		
9	CP	eP	18 38 58.8	Z	0.5	3.3 (0)	2.8	
		eS	18 39 29	R	0.5	6.3 (0)		
9	DH	eP	18 40 06.5	Z	0.4	14.0 (0)	2.0	
		eS	18 40 33	R	0.4	27.0 (0)		
9	MN	eP	18 51 56.2	Z	0.6	4.6 (0)	2.5	
		eS	18 52 28	R	0.6	6.3 (0)		
9	MN	eP	19 09 01.0	Z	0.5	3.5 (0)	2.4	
		eS	19 09 32	R	0.5	3.2 (0)		
9	LC	eP	19 35 47.0	Z	0.3	1.8 (0)	3.0	
		e	19 35 52	Z	0.3	4.4 (0)		
		eS	19 36 25	R	0.5	8.7 (0)		
9	20 14	38.3	03.2 S H = 033 KM	148.2 E	BISMARK SEA MAG 6.25- PAS			
9	MV	eP	20 27 36.5	Z	1.1	12.0 (0)	90.0	5.01
		eSS	20 45 10	LR	24	41.0 (2)		
		eL	20 52 25	LT	25	86.0 (2)		
		eL	20 56 15	LZ	30	12.0 (3)		
		eL	21 00 30	LZ	20	13.0 (3)		
		eL	21 00 30	LR	22	12.0 (3)		
		eL	21 00 30	LT	22	10.0 (3)		
9	TF	eP	20 27 53.3	Z	1.2	14.0 (0)	94.0	5.20
		e	20 30 00	LZ	18	94.0 (1)		
		eSKS	20 38 34	LR	22	12.0 (2)		
		ePS	20 40 10	LR	25	48.0 (2)		
		eSS	20 45 20	LR	23	54.0 (2)		
		eG	20 52 55	LR	30	94.0 (2)		
		eL	20 56 55	LZ	30	14.0 (3)		
		eL	20 58 30	LZ	24	12.0 (3)		
		eL	20 58 30	LR	24	11.0 (3)		
		eL	20 58 30	LT	24	11.0 (3)		
9	MN	eP	20 27 58.3	Z	1.0	8.4 (0)	95.0	5.12
		e	20 29 12	LZ	18	30.0 (1)		
		e	20 30 05	LZ	18	41.0 (1)		
		ePP	20 31 56	Z	1.9	28.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSKS	20 38 43	LR	25	83.0 (1)		
		ePS	20 40 25	LR	25	27.0 (2)		
		eSS	20 45 40	LT	25	56.0 (2)		
		eSSS	20 49 18	LT	25	15.0 (2)		
		eL	20 57 25	LZ	25	34.0 (2)		
9	CP	eP	20 28 05.5	Z	1.0	7.3 (0)	96.0	5.16
		e	20 30 30	LZ	19	99.9 (9)		
		eSKS	20 38 50	LT	20	87.0 (1)		
		ePS	20 40 50	LT	20	38.0 (2)		
		eSS	20 46 05	LT	24	56.0 (2)		
		eG	20 54 10	LR	30	59.0 (2)		
		eL	20 58 15	LZ	999.9	99.9 (9)		
9	SJ	eSKS	20 40 07	LR	22	10.0 (2)	113.0	
		e	20 41 55	LT	22	12.0 (2)		
		ePS	20 43 45	LR	30	29.0 (2)		
		eSS	20 50 00	LR	32	58.0 (2)		
		eLQ	21 00 30	LT	35	93.0 (2)		
		eLR	21 05 55	LZ	35	23.0 (3)		
		eL	21 11 00	LZ	23	93.0 (2)		
		eL	21 11 00	LR	23	15.0 (3)		
		eL	21 11 00	LT	23	11.0 (3)		
9	FM	ePS	20 41 10	LR	35	30.0 (2)	100.0	
		eSS	20 46 50	LR	30	42.0 (2)		
		eSSS	20 50 30	LR	25	21.0 (2)		
		eL	20 59 30	LZ	27	37.0 (2)		
		eL	20 06 00	LZ	20	63.0 (2)		
		eL	20 06 00	LR	20	53.0 (2)		
		eL	20 06 00	LT	20	52.0 (2)		
9	LC	ePS	20 42 10	LR	26	28.0 (2)	105.0	
		e	20 44 30	LR	22	77.0 (1)		
		eSS	20 48 05	LR	30	48.0 (2)		
		eSSS	20 51 30	LR	30	29.0 (2)		
		eG	20 57 45	LT	45	17.0 (3)		
		eL	21 02 40	LZ	30	10.0 (3)		
		eL	21 08 00	LZ	20	15.0 (3)		
		eL	21 08 00	LR	20	12.0 (3)		
		eL	21 08 00	LT	20	61.0 (2)		
9	DH	eSS	20 52 10	LR	30	34.0 (2)	125.0	
		eLQ	21 04 20	LT	35	54.0 (2)		
		eLR	21 13 40	LZ	35	68.0 (2)		
		eL	21 19 00	LZ	21	49.0 (2)		
		eL	21 19 00	LR	24	22.0 (2)		
		eL	21 19 00	LT	23	17.0 (2)		
							AVG.	5.12
9	LC	eP	20 44 47.3	Z	1.0	2.5 (0)		
9	21 19 19.0		17.6 S 167.6 E				NEW HEBRIDES ISLANDS	
			H =019 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	LC	eP	21 35 54.8	Z	0.3	5.3 (0)	1.5	
		eS	21 36 13	R	0.5	14.0 (0)		
10	CP	eP	02 33 58.6	Z	0.2	5.6 (0)	2.1	
		eS	02 34 20	T	0.3	19.0 (0)		
10	04 41 46.9		01.6 S 066.8 E				INDIAN OCEAN	
			H =033 KM					
10	MN	eP	05 01 16.7	Z	1.2	3.9 (0)	145.0	
10	TF	eP	05 01 25.3	Z	1.3	26.0 (0)	147.0	
10	LC	eP	05 01 30.0	Z	1.0	2.5 (0)	148.0	
10	CP	eP	05 01 33.8	Z	1.3	8.4 (0)	148.0	
10	SJ	eP	05 01 40.0	Z	1.0	34.0 (0)	151.0	
10	CP	eP	05 30 34.0	Z	0.2	7.0 (0)	1.5	
		eS	05 30 55	T	0.3	44.0 (0)		
10	07 50 18.1		31.2 N 131.5 E				KYUSHU, JAPAN	
			H =033 KM					
10	MV	eP	08 02 40.0	Z	0.8	3.0 (0)	83.0	4.48
10	WI	eP	08 02 46.5	Z	1.0	3.3 (0)	85.0	4.92
10	MN	eP	08 02 52.7	Z	1.0	4.0 (0)	85.0	4.50
							AVG.	4.63
10	MV	eP	07 50 49.2	Z	0.3	15.0 (0)		
10	WI	eP	07 51 32.6	Z	0.3	1.6 (0)	3.5	
		eS	07 52 30	R	0.5	12.0 (0)		
10	LC	eP	08 08 24.1	Z	0.6	1.9 (0)		
10	09 20 40.8		22.2 S 179.6 W				FIJI ISLANDS	
			H =558 KM					
10	CP	eP	09 32 01.5	Z	0.9	5.6 (0)	82.0	4.09
10	MV	eP	09 32 03.0	Z	0.8	7.0 (0)	82.0	4.24
10	MN	eP	09 32 10.8	Z	1.0	9.2 (0)	84.0	4.36
10	WI	eP	09 32 21.0	Z	0.6	1.8 (0)	86.0	4.04
10	LC	eP	09 32 35.3	Z	0.9	7.6 (0)	88.0	4.48
							AVG.	4.24

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	11 12	37.4	10.1 S H =034 KM	161.3 E	SOLOMON ISLANDS			
10	11 42	39.8	03.2 S H =115 KM	077.7 W	PERU-ECUADOR BORDER			
10	SJ	eP	11 49 37.0	Z	0.6	14.0 (0)	37.0	5.02
10	LC	eP	11 50 44.6	Z	0.8	2.9 (0)	45.0	4.01
10	WI	eP	11 52 17.5	Z	0.6	1.4 (0)	57.0	4.12
						AVG.		4.38
10	13 33	10.3	08.9 S H =033 KM	110.3 E	SOUTH COAST OF JAVA			
10	MV	eP	13 52 09.1	Z	0.7	4.2 (0)	126.0	
10	WI	eP	13 52 13.8	Z	1.0	6.5 (0)	127.0	
10	MN	eP	13 52 14.5	Z	1.0	5.0 (0)	127.0	
10	TF	eP	13 52 16.8	Z	0.7	4.6 (0)	128.0	
10	CP	eP	13 52 21.9	Z	0.9	4.5 (0)	131.0	
10	LC	eP	13 52 25.2	Z	0.8	1.5 (0)	139.0	
		eSKP	13 56 06	Z	1.0	3.5 (0)		
10	DH	eP	13 52 50.0	Z	0.8	59.0 (0)	147.0	
10	SJ	eP	13 52 54.0	Z	0.9	62.0 (0)	148.0	
10	13 33	11.6	08.9 S H =041 KM	110.4 E	JAVA			
10	14 32	57.3	17.9 S H =034 KM	167.8 E	NEW HEBRIDES ISLANDS			
10	CP	eP	14 45 48.4	Z	1.0	2.9 (0)	89.0	4.43
10	MN	eP	14 45 51.8	Z	1.0	2.5 (0)	90.0	4.37
10	WI	eP	14 46 00.3	Z	1.0	4.3 (0)	91.0	4.70
						AVG.		4.50
10	LC	eP	16 31 45.4	Z	1.0	3.7 (0)		
10	17 16	07.0	18.0 S H =033 KM	167.7 E	NEW HEBRIDES ISLANDS			
10	WI	eP	17 31 25.0	Z	1.0	3.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	LC	eP	17 49 07.7	Z	0.9	2.8 (0)		
10	CP	eP	18 28 06.0	Z	0.2	24.0 (0)	0.9	
		eS	18 28 18	T	0.3	43.0 (0)		
10	MN	eP	19 25 27.9	Z	1.0	2.5 (0)		
10	WI	eP	19 25 38.1	Z	1.1	2.7 (0)		
10	LC	eP	19 25 55.3	Z	0.9	1.9 (0)		
10	LC	eP	20 16 43.9	Z	0.3	16.0 (0)	1.5	
		eS	20 17 01	T	0.3	19.0 (0)		
10	20 43	36.6	27.9 N H =047 KM	054.8 E	IRAN			
10	MN	eP	20 45 35.5	Z	999.9	99.9 (9)		
10	WI	eP	20 46 01.5	Z	0.5	1.6 (0)	2.5	
		e	20 46 06	Z	0.5	9.1 (0)		
10	MV	eP	20 46 06.1	Z	0.5	6.4 (0)	2.9	
10	WI	eS	20 46 35	T	0.6	38.0 (0)	2.5	
10	MV	eS	20 46 42	R	0.5	30.0 (0)	2.9	
10	20 53	34.5	34.9 S H =137 KM	070.1 W	MENDOZA PROV., ARGENTINA			
10	SJ	eP	21 04 19.4	Z	0.8	48.0 (0)	68.0	5.34
10	LC	iP	21 05 03.6D	Z	0.7	46.0 (0)	75.0	5.38
		epP	21 05 25	Z	1.0	27.0 (0)		
		eL	21 30 14	LZ	31	35.0 (1)		
		eL	21 32 30	LZ	24	23.0 (1)		
		eL	21 32 30	LR	25	16.0 (1)		
		eL	21 32 30	LT	23	14.0 (1)		
10	DH	eP	21 05 14.0	Z	1.1	37.0 (0)	77.0	5.09
10	CP	eP	21 05 30.6	Z	1.0	26.0 (0)	80.0	4.93
10	FM	eP	21 05 45.5	Z	0.9	51.0 (0)	83.0	5.38
10	TF	eP	21 05 50.3	Z	1.0	37.0 (0)	84.0	5.19
10	MN	eP	21 05 58.0	Z	1.0	23.0 (0)	85.0	4.99
10	WI	eP	21 06 07.7	Z	1.0	15.0 (0)	88.0	4.90
10	MV	eP	21 06 08.0	Z	1.2	26.0 (0)	88.0	5.06
						AVG.		5.14
10	MN	eP	21 52 00.4	Z	0.4	6.2 (0)	1.3	
		eS	21 52 17	T	0.3	6.1 (0)		
10	21 52	36.8	15.1 S H =033 KM	173.3 W	SAMOA ISLANDS REGION			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	TF	eP	22 03 55.2	Z	1.0	23.0 (0)	71.0	5.16
		eLR	22 24 58	LZ	22	38.0 (2)		
		eL	22 26 18	LT	24	33.0 (2)		
		eL	22 26 18	LR	23	27.0 (2)		
10	CP	eP	22 04 01.7	Z	1.0	20.0 (0)	72.0	5.10
		eLR	22 25 25	LZ	25	21.0 (2)		
		eL	22 26 45	LZ	23	21.0 (2)		
		eL	22 26 45	LT	23	16.0 (2)		
10	MV	eP	22 04 03.3	Z	1.2	36.0 (0)	73.0	5.28
10	MN	iP	22 04 12.9D	Z	1.2	49.0 (0)	74.0	5.34
10	WI	iP	22 04 25.1D	Z	1.1	75.0 (0)	76.0	5.67
		eS	22 14 15	LT	20	39.0 (1)		
		eS	22 14 15	LR	18	22.0 (1)		
		eLR	22 27 27	LZ	30	16.0 (2)		
		eL	22 30 00	LZ	21	13.0 (2)		
		eL	22 30 00	LR	20	61.0 (1)		
		eL	22 30 00	LT	23	10.0 (2)		
10	FM	eP	22 04 35.5	Z	1.3	15.0 (1)	78.0	5.86
		eLR	22 28 28	LZ	25	19.0 (2)		
		eL	22 31 00	LZ	23	99.9 (9)		
		eL	22 31 00	LR	24	12.0 (2)		
		eL	22 31 00	LT	23	23.0 (1)		
10	LC	iP	22 04 42.6D	Z	1.0	11.0 (1)	80.0	5.70
		eS	22 14 47	LR	21	44.0 (1)		
		eS	22 14 47	LT	20	94.0 (0)		
		eLR	22 27 42	LZ	30	12.0 (2)		
		eL	22 31 00	LZ	23	12.0 (2)		
		eL	22 31 00	LR	23	44.0 (1)		
		eL	22 31 00	LT	23	84.0 (1)		
10	SJ	eP	22 05 08.0	Z	1.0	8.1 (0)	85.0	5.80
10	DH	eLR	22 42 43	LZ	30	93.0 (1)	106.0	
		eL	22 49 08	LZ	21	14.0 (2)		
		eL	22 49 08	LR	22	94.0 (1)		
		eL	22 49 08	LT	22	28.0 (1)		
							AVG.	5.37

11 00 52 23.4 52.0 N 170.0 W FOX IS., ALEUTIAN ISLANDS
H =033 KM

11	MV	eP	00 59 20.8	Z	0.8	2.0 (0)	36.0	4.03
11	WI	eP	00 59 29.5	Z	0.7	2.2 (0)	37.0	4.06
11	MN	eP	00 59 41.5	Z	1.0	4.2 (0)	38.0	4.19
11	CP	eP	01 00 20.6	Z	0.8	2.6 (0)	43.0	4.01
11	LC	eP	01 01 10.0	Z	0.8	2.2 (0)	49.0	4.21
							AVG.	4.10

11 03 40 05.5 52.0 N 171.3 W FOX-ALEUTIAN ISLANDS
H =033 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MV	eP	03 47 09.5	Z	0.8	2.0 (0)	37.0	3.96
11	WI	eP	03 47 12.0	Z	0.6	1.8 (0)	37.0	4.04
11	MN	eP	03 47 30.5	Z	0.6	1.4 (0)	39.0	3.87
11	LC	eP	03 48 58.7	Z	0.7	1.2 (0)	50.0	3.93
							AVG.	3.95
11	TF	eP	03 46 36.3	Z	0.3	30.0 (0)	0.8	
		eS	03 46 47	R	0.3	77.0 (0)		
11	05 40 59.9		08.5 S 083.7 W				COAST OF N. PERU	
			H =033 KM					
11	LC	eP	05 49 31.2	Z	0.7	1.2 (0)	47.0	4.04
11	WI	eP	05 51 02.2	Z	0.8	1.9 (0)	60.0	4.21
							AVG.	4.13
11	06 22 45.9		01.4 S 080.6 W				NEAR CENTRAL ECUADOR	
			H =033 KM					
11	SJ	eP	06 29 28.1	Z	0.7	9.9 (0)	34.0	4.82
11	LC	eP	06 30 34.6	Z	0.8	2.9 (0)	42.0	4.09
11	DH	eP	06 30 39.5	Z	0.8	12.0 (0)	43.0	4.68
11	CP	eP	06 31 25.5	Z	0.7	1.5 (0)	48.0	4.13
11	FM	eP	06 31 35.5	Z	999.9	99.9 (9)	50.0	
11	MN	eP	06 32 00.0	Z	1.0	3.3 (0)	53.0	4.25
11	WI	eP	06 32 12.1	Z	1.0	2.2 (0)	54.0	4.14
							AVG.	4.35
11	WI	eP	11 34 54.2	Z	0.2	6.2 (0)		
11	WI	eS	11 35 07	R	0.3	19.0 (0)		

11 16 02 33.6 24.3 N 121.6 E NEAR E. COAST OF FORMOSA
H =032 KM

11	MV	eP	16 15 48.1	Z	0.7	4.2 (0)	94.0	4.91
11	TF	eP	16 15 51.9	Z	0.6	7.7 (0)	94.0	5.24
11	WI	eP	16 15 55.2	Z	0.5	2.1 (0)	95.0	4.82
11	MN	eP	16 16 01.1	Z	1.0	5.0 (0)	97.0	5.07
							AVG.	5.01

11 CP eP 16 38 11.3 Z 0.5 3.9 (0) 0.8
eS 16 38 22 R 0.5 57.0 (0)

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	CP	eP eS	19 52 43.6 19 53 06	Z T	0.3 0.5	5.1 (0) 9.0 (0)	1.6	
12	00 10	04.8	04.1 S 080.3 W H =195 KM			COAST OF ECUADOR		
12	01 44	49.4	33.1 S 178.2 W H =037 KM			KERMADEC ISLANDS		
12	07 56	08.4	20.4 S 068.9 W H =139 KM			NORTHERN CHILE		
12	DH	eP	08 06 19.0	Z	0.8	12.0 (0)	62.0	4.86
12	LC	eP	08 06 26.9	Z	1.0	10.0 (0)	64.0	4.62
		epP	08 07 03	Z	1.2	7.7 (0)		
12	CP	eP	08 07 05.5	Z	0.5	1.6 (0)	70.0	4.74
12	FM	eP	08 07 18.3	Z	1.0	44.0 (0)	72.0	5.20
		epP	08 07 46	Z	1.2	19.0 (0)		
12	TF	eP	08 07 28.5	Z	1.0	19.0 (0)	74.0	4.84
12	MN	eP	08 07 34.6	Z	1.0	18.0 (0)	75.0	4.82
12	WI	eP	08 07 43.0	Z	1.0	40.0 (0)	76.0	5.16
		epP	08 08 10	Z	1.0	18.0 (0)		
						AVG.		4.89
12	09 08	15.9	27.4 N 129.1 E H =025 KM			RYUKYU ISLANDS		
12	10 48	43.2	17.9 S 178.0 W H =600 KM			FIJI ISLANDS REGION		
12	11 43	32.3	18.8 S 177.1 W H =223 KM			FIJI ISLANDS REGION		
12	LC	eP	11 55 42.2	Z	0.8	3.7 (0)	84.0	4.14
12	16 53	33.6	28.0 S 070.6 W H =025 KM			NORTHERN CHILE		
12	FM	eL eL	17 33 25 17 35 00	LZ LZ	23 25	63.0 (1) 49.0 (1)	77.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL eL	17 35 00 17 35 00	LR LT	22 22	28.0 (1) 66.0 (1)		
12	FM	eP	17 20 25.9	Z	0.7	6.3 (0)		
12	19 03	54.4	28.9 S 177.1 W H =134 KM			KERMADEC ISLANDS		
12	20 38	58.0	27.2 S 178.0 W H =152 KM			KERMADEC ISLANDS REGION		
13	CP	eP e eS	00 33 03.1 00 33 14 00 34 02	Z Z T	0.3 0.5 0.6	1.1 (0) 5.5 (0) 7.7 (0)	5.0	
13	CP	eP e eS	02 25 32.5 02 25 49 02 26 37	Z Z R	0.3 0.3 0.5	1.1 (0) 4.2 (0) 7.4 (0)	5.5	
13	CP	eP	07 02 51.7	Z	0.5	3.3 (0)		
13	07 33	48.8	16.7 S 167.9 E H =033 KM			NEW HEBRIDES ISLANDS		
13	FM	eP	08 02 18.5	Z	1.0	13.0 (0)	93.0	5.30
13	08 28	34.6	38.2 S 175.9 E H =184 KM			NEAR N. COAST NEW ZEALAND		
13	10 23	38.2	35.5 N 049.8 E H =033 KM			NORTHWESTERN IRAN		
13	DH	eP eLQ eLR eL eL	10 36 24.5 11 04 27.0 11 10 50 11 10 50 11 10 50	Z T LZ LR LT	0.8 38.0 24 22 25	35.0 (0) 51.0 (1) 97.0 (1) 75.0 (1) 59.0 (1)	88.0	5.65
13	FM	ePP eLR eL eL eL	10 41 55 11 18 50 11 31 00 11 31 00 11 31 00	Z LZ LZ LR LT	1.6 30 18 21 18	65.0 (0) 47.0 (1) 75.0 (1) 40.0 (1) 67.0 (1)	104.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	LC	ePP	10 42 33	Z	1.0	6.0 (0)	109.0	
		eLR	11 24 00	LZ	26	93.0 (1)		
13	MN	eLQ	11 17 40	LR	30	60.0 (1)	104.0	
		eLR	11 28 00	LZ	21	87.0 (1)		
		eL	11 28 00	LR	21	91.0 (1)		
		eL	11 28 00	LT	22	46.0 (1)		
13	TF	eLR	11 21 00	LZ	30	45.0 (1)	110.0	
		eL	11 30 00	LZ	21	12.0 (2)		
		eL	11 30 00	LR	20	62.0 (1)		
		eL	11 30 00	LT	23	13.0 (2)		
13	CP	eL	11 27 00	LR	25	33.0 (1)	112.0	
						AVG.		5.65
13	WI	eL	11 16 00	LR	32	51.0 (1)		
13	11 25 58.9		17.4 S 167.5 E				NEW HEBRIDES ISLANDS	
			H = 033 KM					
13	11 41 54.6		17.3 S 167.6 E				NEW HEBRIDES ISLANDS	
			H = 033 KM					
13	FM	eP	12 57 34.5	Z	0.7	6.3 (0)		
13	WI	eP	12 57 40.1	Z	0.5	9.0 (0)		
13	WI	e	12 57 44	Z	0.5	7.0 (0)		
13	WI	eL	12 59 00	R	0.6	19.0 (0)		
13	FM	eL	12 59 07	Z	1.1	23.0 (0)		
13	13 41 21.7		15.0 N 092.7 W				CHIAPAS, MEXICO	
			H = 170 KM					
13	SJ	eP	13 44 25.3	Z	0.8	12.0 (0)	13.0	4.38
13	LC	eP	13 45 53.2	Z	0.9	13.0 (0)	21.0	4.26
13	MN	eP	13 47 36.3	Z	0.8	5.3 (0)	33.0	4.45
13	WI	eP	13 47 51.0	Z	0.8	7.0 (0)	34.0	4.44
		eL	13 59 55	LR	18	35.0 (1)		
		eL	13 59 55	LT	18	60.0 (1)		
						AVG.		4.38
13	FM	eP	14 07 08.2	Z	0.7	6.3 (0)		
13	TF	eP	17 49 59.2	Z	999.9	99.9 (9)		
13	MN	eP	17 50 25.0	Z	0.5	2.2 (0)		
13	CP	eP	17 50 50.5	Z	0.2	2.8 (0)	4.6	
13	WI	eP	17 51 17.5	Z	0.7	4.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	FM	eP	17 51 43.8	Z	0.7	6.3 (0)		
13	CP	eS	17 51 46	R	0.5	14.0 (0)	4.6	
13	WI	eL	17 52 30	R	0.7	18.0 (0)		
13	FM	eL	17 53 17	Z	0.9	29.0 (0)		
13	CP	eP	18 15 06.0	Z	0.2	3.5 (0)	1.5	
		eS	18 15 26	T	0.3	20.0 (0)		
13	18 47 44.5		12.6 S 166.6 E				SANTA CRUZ ISLANDS	
			H = 033 KM					
13	CP	eP	19 00 26.0	Z	0.7	2.9 (0)	86.0	4.42
		eP	19 00 27	LZ	15	36.0 (1)		
		eS	19 11 00	LT	25	55.0 (1)		
		eLQ	19 22 30	LR	25	87.0 (1)		
		eLR	19 26 50	LZ	30	25.0 (2)		
		eL	19 31 20	LZ	20	27.0 (2)		
		eL	19 31 20	LR	25	11.0 (2)		
		eL	19 31 20	LT	21	24.0 (2)		
13	WI	eP	19 00 35.1	Z	0.8	3.0 (0)	88.0	4.57
		eLQ	19 24 08	LR	40	24.0 (2)		
		eLR	19 27 36	LZ	28	17.0 (2)		
		eL	19 30 00	LZ	23	17.0 (2)		
		eL	19 30 00	LR	24	74.0 (1)		
		eL	19 30 00	LT	24	13.0 (2)		
13	FM	eP	19 00 50.7	Z			92.0	
		ePS	19 13 05	LR	23	28.0 (1)		
		eSS	19 18 25	LR	25	64.0 (1)		
		eLQ	19 25 20	LT	32	16.0 (2)		
		eLR	19 29 00	LZ	30	23.0 (2)		
		eL	19 32 20	LZ	23	32.0 (2)		
		eL	19 32 20	LR	23	22.0 (2)		
		eL	19 32 20	LT	24	11.0 (2)		
13	LC	eP	19 01 00.0	Z	0.8	2.0 (0)	94.0	4.50
		ePS	19 13 32	LR	23	67.0 (1)		
		eSS	19 19 05	LR	25	71.0 (1)		
		eLQ	19 26 55	LT	32	84.0 (1)		
		eLR	19 30 30	LZ	31	16.0 (1)		
		eL	19 33 30	LZ	23	27.0 (2)		
		eL	19 33 30	LR	23	17.0 (2)		
		eL	19 33 30	LT	23	14.0 (2)		
13	TF	eSKS	19 10 40	LR	21	10.0 (2)	85.0	
		ePS	19 11 53	LR	28	17.0 (2)		
		eLQ	19 22 21	LT	30	32.0 (2)		
		eLR	19 28 00	LZ	23	38.0 (2)		
		eL	19 28 00	LR	23	31.0 (2)		
		eL	19 28 00	LT	23	97.0 (1)		
13	MN	eSKS	19 11 00	LT	23	55.0 (2)	88.0	
		ePS	19 12 17	LT	27	76.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	19 16 36	LT	26	44.0 (1)		
		eLQ	19 23 41	LT	28	89.0 (1)		
		eSSS	19 20 40	LT	25	52.0 (2)		
		eLR	19 27 10	LZ	30	36.0 (2)		
		eL	19 30 00	LZ	21	40.0 (2)		
		eL	19 30 00	LR	22	18.0 (2)		
		eL	19 30 00	LT	22	22.0 (2)		
13	SJ	ePS	19 15 00	LR	28	14.0 (2)	100.0	
		eSS	19 20 00	LT	21	76.0 (1)		
		eLQ	19 33 42	LT	31	17.0 (2)		
		eLR	19 39 00	LZ	20	50.0 (2)		
		eL	19 39 00	LR	21	27.0 (2)		
13	DH	eLR	19 43 20	LZ	42	17.0 (2)	119.0	
		eL	19 49 00	LZ	25	16.0 (2)		
13	SJ	eL	19 39 00	LT	22	25.0 (1)	100.0	
13	DH	eL	19 49 00	LR	23	17.0 (2)	119.0	
		eL	19 49 00	LT	24	89.0 (1)		
							AVG.	4.50
13	LC	eP	20 50 27.4	Z	0.2	14.0 (0)	1.5	
		eS	20 50 47	R	0.3	9.0 (0)		
13	21	49 38.6	44.0 N 146.4 E	N. OF HOKKAIDO, JAPAN				
			H =103 KM					
14	00	29 56.0	33.4 S 179.3 W	KERMADEC ISLANDS				
			H =033 KM					
14	TF	eP	00 42 44.4	Z	0.7	19.0 (0)	88.0	5.43
14	CP	eP	00 42 46.8	Z	1.0	32.0 (0)	89.0	5.47
14	MN	eP	00 42 59.5	Z	1.0	13.0 (0)	91.0	5.18
14	WI	eP	00 43 10.4	Z	1.0	17.0 (0)	94.0	5.36
14	DH	eP	00 48 50.0	Z	0.5	7.4 (0)	122.0	
		eL	01 27 20	LZ	30	53.0 (1)		
		eL	01 31 47	LZ	22	40.0 (1)		
		eL	01 31 47	LR	25	58.0 (1)		
		eL	01 31 47	LT	25	19.0 (1)		
14	LC	eL	01 13 22	LZ	30	34.0 (1)	95.0	
		eL	01 13 45	LR	15	40.0 (1)		
		eL	01 13 45	LT	25	28.0 (1)		
							AVG.	5.36
14	01	38 38.8	01.5 N 099.0 E	W. COAST OF SUMATRA				
			H =100 KM					
14	SJ	eP	01 58 09.6	Z	1.0	30.0 (0)	146.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	FM	eSKP	02 00 45	Z	1.4	37.0 (0)	130.0	
14	NG	eSKP	02 00 51	Z	1.0	15.0 (0)	133.0	
14	LC	eSKP	02 01 12	Z	1.2	11.0 (0)	138.0	
14	02	00 57.6	54.4 N 159.8 E	CENTRAL KAMCHATKA				
			H =120 KM					
14	WI	eP	02 43 50.3	Z	1.0	6.7 (0)		
14	LC	eP	04 46 08.0	Z	0.8	4.4 (0)		
14	05	03 25.8	17.5 S 167.7 E	NEW HEBRIDES				
			H =033 KM					
14	WI	eP	05 16 24.8	Z	0.7	1.7 (0)	90.0	4.35
		e	05 16 31	Z	0.9	4.3 (0)		
14	LC	eP	07 02 21.2	Z	0.7	1.8 (0)		
14	FM	eP	07 36 06.4	Z	0.6	25.0 (0)		
14	MN	eP	07 36 25.7	Z	1.0	3.3 (0)		
14	MN	e	07 36 33	Z	1.2	15.0 (0)		
14	WI	eP	07 36 36.0	Z	1.8	21.0 (0)		
14	LC	eP	07 36 54.5	Z	0.7	1.8 (0)		
14	LC	e	07 37 04	Z	1.0	9.8 (0)		
14	09	07 20.0	36.2 N 070.5 E	HINDU KUSH				
			H =234 KM					
14	09	41 09.6	38.8 N 123.5 W	NORTHERN CALIFORNIA				
			H =033 KM					
14	MN	eP	09 42 13.3	Z	0.5	2.8 (0)	4.0	3.85
14	TF	eP	09 42 16.6	Z	0.4	15.0 (0)	4.5	4.84
14	WI	eP	09 42 28.8	Z	0.5	1.7 (0)	5.5	3.93
							AVG.	4.21
14	10	14 32.4	38.7 N 124.0 W	OFF N. COAST OF CALIFORNIA				
			H =033 KM					
14	MN	eP	10 15 38.9	Z	0.4	8.4 (0)	4.5	4.59

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	TF	eL	10 17 00	LR	17	50.0 (2)	4.5	
		eL	10 17 20	LZ	18	16.0 (2)		
		eL	10 17 20	LR	17	50.0 (2)		
		eL	10 17 20	LT	20	24.0 (2)		
		eP	10 15 40.6	Z	999.9	99.9 (9)		
14	WI	eP	10 15 52.8	Z	0.5	4.2 (0)	5.5	4.33
		e	10 16 18	Z	0.5	14.0 (0)		
		eLG	10 17 13	R	0.9	51.0 (0)		
14	CP	eP	10 16 33.2	Z	0.7	4.4 (0)	8.0	4.60
		eL	10 19 08	LR	19	16.0 (2)		
		eL	10 19 08	LT	19	13.0 (2)		
14	LC	eP	10 18 15.0	Z	1.5	18.0 (0)	16.0	4.01
		eL	10 22 40	LT	22	42.0 (1)		
		eL	10 23 08	LT	18	60.0 (1)		
14	FM	eL	10 19 31	Z	3.5	79.0 (1)	9.0	
							AVG.	4.38
14	MN	eP	11 11 30.7	Z	0.5	1.6 (0)		
14	14 08 11.3		01.0 S 127.2 E				HALMAHERA ISLAND REGION	
			H =033 KM					
14	15 08 59.5		31.8 N 131.5 E				NEAR KYUSHU, JAPAN	
			H =033 KM					
14	WI	eP	15 21 25.6	Z	1.0	11.0 (0)	84.0	4.94
14	MN	eP	15 21 32.4	Z	1.0	8.2 (0)	85.0	4.82
14	FM	eP	15 21 38.4	Z	0.9	11.0 (0)	86.0	4.92
14	DH	eL	16 10 55	LZ	22	39.0 (1)	113.0	
		eL	16 15 00	LZ	18	45.0 (1)		
		eL	16 15 00	LT	15	50.0 (1)		
							AVG.	4.89
14	19 32 17.3		75.5 N 005.8 E				ARCTIC OCEAN	
			H =042 KM					
14	LC	eP	19 42 51.0	Z	0.8	2.2 (0)	64.0	4.31
14	WI	eP	20 34 46.8	Z	0.6	2.3 (0)		
14	21 13 44.2		39.1 N 141.1 E				N. CENTRAL HONSHU, JAPAN	
			H =085 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	MN	eP	21 25 11.9	Z	1.0	3.3 (0)	86.0	4.25
14	LC	eP	21 26 11.5	Z	0.7	2.5 (0)	85.0	4.30
							AVG.	4.28
15	00 25 21.3		22.1 S 172.1 E				LOYALTY ISLANDS REGION	
			H =040 KM					
15	MN	eP	00 30 16.9	Z	0.8	11.0 (0)		
15	02 56 11.5		74.7 N 002.6 E				ARCTIC OCEAN	
			H =026 KM					
15	FM	eP	03 06 17.0	Z	0.9	4.8 (0)	60.0	4.55
		eL	03 29 42	LZ	16	16.0 (1)		
		eL	03 30 55	LZ	17	17.0 (1)		
		eL	03 30 55	LR	20	20.0 (1)		
		eL	03 30 55	LT	21	35.0 (1)		
15	LC	eP	03 06 45.9	Z	0.8	1.5 (0)	64.0	4.20
		e	03 06 53	Z	1.3	9.4 (0)		
15	SJ	eL	03 28 25	LT	20	44.0 (1)	67.0	
		eL	03 31 35	LR	25	64.0 (1)		
		eL	03 31 35	LT	23	91.0 (1)		
							AVG.	4.38
15	SJ	eP	03 20 13.3	Z	0.8	24.0 (0)		
15	LC	eP	03 21 33.2	Z	1.0	3.7 (0)		
15	MN	eP	03 23 13.7	Z	0.7	1.2 (0)		
15	MN	e	03 25 22.0	Z	0.9	2.5 (0)		
15	MN	eP	04 48 12.4	Z	1.0	4.9 (0)		
15	08 08 38.0		16.3 S 173.5 W				SAMOA ISLANDS REGION	
			H =050 KM					
15	MN	eP	08 20 16.8	Z	1.0	6.6 (0)	75.0	4.52
		e	08 20 30	Z	1.2	8.1 (0)		
15	FM	eP	08 20 41.4	Z	1.0	6.3 (0)	80.0	4.45
15	LC	eP	08 20 45.4	Z	1.0	3.7 (0)	81.0	4.37
							AVG.	4.45
15	MN	eP	11 10 47.0	Z	0.2	5.9 (0)	2.6	
		eS	11 10 52	R	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	CP	eP eS	12 04 45.8 12 05 03	Z T	0.3 0.3	6.3 (0) 17.0 (0)	1.4	
15	13 59 54.9		33.1 S 178.5 W H =089 KM				KERMADEC ISLANDS	
15	17 30 20.8		28.8 S 176.4 W H =040 KM				KERMADEC ISLANDS REGION	
15	MN	eP	17 42 59.9	Z	1.0	3.3 (0)	87.0	4.44
15	20 17 16.4		17.7 S 168.3 E H =065 KM				NEW HEBRIDES ISLANDS	
15	21 26 20.7		65.0 S 178.2 E H =033 KM				N E OF BALLENY ISLANDS	
15	23 36 35.0		43.5 S 169.8 E H =033 KM				NEW ZEALAND	
16	TF	eLR eL eL	00 23 00 00 23 00 00 23 00	LZ LR LT	20 20 20	14.0 (2) 14.0 (2) 14.0 (2)	100.0	
16	LC	eLR	00 28 00	LZ	23	45.0 (1)	107.0	
16	SJ	eLR	00 29 33	LZ	20	16.0 (2)	110.0	
16	FM	eLR	00 30 25	LR	21	41.0 (1)	108.0	
16	DH	eLR eL eL	00 44 30 00 44 30 00 44 30	LZ LR LT	23 23 23	77.0 (1) 60.0 (1) 37.0 (1)	134.0	
16	01 08 47.1		17.0 S 167.5 E H =033 KM				NEW HEBRIDES ISLANDS	
16	WI	eP	01 21 47.5	Z	1.0	3.3 (0)	91.0	4.62
16	02 46 44.6		17.0 S 167.7 E H =019 KM				NEW HEBRIDES ISLANDS	
16	MN	eP	02 59 42.0	Z	1.0	2.4 (0)	90.0	4.39
16	WI	eP	02 59 47.8	Z	0.9	1.7 (0)	91.0	4.28

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.34
16	02 49 37.0		17.1 S 167.7 E H =033 KM				NEW HEBRIDES ISLANDS	
16	MN	eP	03 02 28.5	Z	1.4	12.0 (0)	89.0	4.92
16	WI	eP	03 02 37.0	Z	0.9	3.4 (0)	91.0	4.58
							AVG.	4.75
16	04 58 49.7		39.4 N 073.4 E H =033 KM				TADZHIK, S.S.R.	
16	05 21 26.5		17.1 S 167.6 E H =033 KM				NEW HEBRIDES ISLANDS	
16	CP	eP	05 34 12.5	Z	1.0	4.4 (0)	88.0	4.64
16	MN	eP	05 34 18.0	Z	1.0	8.1 (0)	89.0	4.91
16	TF	eP	05 34 25.8	Z			90.0	
16	WI	eP	05 34 26.6	Z	0.8	3.9 (0)	91.0	4.69
							AVG.	4.75
16	MN	eP	05 23 23.1	Z	1.0	4.1 (0)		
16	LC	eP	05 23 49.8	Z	0.6	1.0 (0)		
16	LC	e	05 24 04	Z	0.7	1.5 (0)		
16	FM	eP eS	06 47 04.9 06 47 09	Z R	0.2 0.3	48.0 (0) 18.0 (1)	0.1	
16	07 15 32.7		28.3 S 062.5 E H =033 KM				MASCARENE ISLANDS	
16	FM	eP ¹ eP ²	07 35 38.5 07 36 46	Z Z	1.0 1.0	19.0 (0) 19.0 (0)	169.0	
16	LC	eP ¹ eP ² ePP	07 35 39.1 07 36 54.0 07 40 46	Z Z Z	1.0 1.0 1.0	2.5 (0) 3.7 (0) 3.7 (0)	171.0	
16	WI	eP ² ePP	07 36 41.2 07 40 30	Z Z	1.3 0.9	11.0 (0) 2.6 (0)	167.0	
16	MN	eP ²	07 36 53.0	Z	1.0	3.2 (0)	170.0	
16	FM	eP	08 28 42.0	Z	0.2	48.0 (0)	0.5	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	08 28 49	R	0.3	17.0 (1)		
16	WI	eP	09 32 42.4	Z	999.9	99.9 (9)		
16	MN	eP	09 33 03.7	Z	0.4	20.0 (0)		
16	FM	eP	09 33 34.5	Z	0.3	11.0 (0)	5.7	
		e	09 33 47	Z	0.5	12.0 (0)		
16	TF	eP	09 34 06.2	Z	0.7	4.4 (0)		
16	FM	eS	09 34 42	R	0.5	16.0 (1)	5.7	
16	CP	eP	09 34 53.1	Z	0.5	1.3 (0)		
16	TF	eL	09 35 24	R	0.8	9.4 (0)		
16	LC	eP	09 36 10.0	Z	1.2	3.8 (0)		
16	CP	eL	09 36 36	T	0.5	2.7 (0)		
16	LC	e	09 39 48	Z	1.2	3.8 (0)		
16	09 50 47.3		18.9 S 169.4 E				NEW HEBRIDES ISLANDS	
			H =261 KM					
16	CP	eP	10 03 08.5	Z	0.7	3.6 (0)	89.0	4.42
16	MN	eP	10 03 12.8	Z	0.9	4.4 (0)	89.0	4.39
16	WI	eP	10 03 21.4	Z	0.6	2.8 (0)	91.0	4.38
							AVG.	4.40
16	WI	eP	10 06 14.0	Z	0.2	6.9 (0)	0.7	
		eS	10 06 24	R	0.4			
16	MN	eP	10 32 47.2	Z	0.6	1.7 (0)		
16	11 58 45.6		30.6 N 057.3 E				IRAN	
			H =033 KM					
16	WI	eP	12 13 56.9	Z	0.5	3.0 (0)		
16	WI	eS	12 14 57	R	0.7			
16	WI	eP	15 16 35.3	Z	0.2	13.0 (0)		
16	18 02 32.9		51.6 N 175.8 W				NEAR ISLANDS, ALEUTIAN IS.	
			H =027 KM				MAG 5.25- PAL	
16	MV	eP	18 10 08.0	Z	1.0	17.0 (0)	40.0	4.68
16	WI	eP	18 10 11.4	Z	0.9	5.1 (0)	41.0	4.26
		e	18 10 17	Z	0.9	15.0 (0)		
		ePCP	18 12 16	Z	0.8	9.2 (0)		
		eSCP	18 15 59	Z	0.9	4.3 (0)		
		eS	18 16 18	LT	20	15.0 (3)		
		eSCS	18 20 25	LT	25	16.0 (3)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	18 21 53	LZ	30	52.0 (3)		
		eL	18 25 00	LZ	20	41.0 (3)		
		eL	18 25 00	LR	20	24.0 (3)		
		eL	18 25 00	LT	20	35.0 (3)		
16	MN	eP	18 10 21.8	Z	1.0	5.2 (0)	42.0	4.19
		e	18 10 36	Z	0.7	8.9 (0)		
		eSCP	18 16 05	Z	1.0	6.5 (0)		
16	TF	eP	18 10 33.3	Z	0.9	10.0 (0)	43.0	4.55
		e	18 10 44	Z	1.0	40.0 (0)		
16	FM	eP	18 10 47.3	Z	1.2	29.0 (0)	45.0	5.03
		eP	18 10 50	LZ	10	18.0 (2)		
		e	18 11 02	Z	1.5	31.0 (1)		
		eSCP	18 16 16	Z	1.0	19.0 (0)		
		eS	18 17 30	LR	20	15.0 (2)		
		eS	18 17 30	LT	20	92.0 (1)		
		e	18 21 58	LR	20	19.0 (2)		
		eLQ	18 22 15	LR	30	23.0 (2)		
		eLR	18 24 15	LZ	30	33.0 (2)		
		eL	18 26 00	LZ	22	37.0 (2)		
		eL	18 26 00	LR	22	16.0 (2)		
		eL	18 26 00	LT	22	36.0 (2)		
16	CP	eP	18 11 02.6	Z	0.8	6.0 (0)	47.0	4.69
		e	18 11 15	Z	0.8	13.0 (0)		
16	LC	eP	18 11 47.4	Z	1.0	9.9 (0)	53.0	4.72
		e	18 11 57	Z	1.0	25.0 (0)		
		eSCP	18 16 51	Z	1.0	3.7 (0)		
16	SJ	eP	18 12 48.5	Z	0.8	20.0 (0)	61.0	5.27
		e	18 13 00	Z	1.0	60.0 (0)		
16	DH	eP	18 13 06.5	Z	0.7	49.0 (0)	64.0	5.75
		e	18 13 23	Z	0.7	59.0 (0)		
		eLR	18 34 00	LZ	23	25.0 (2)		
		eL	18 41 00	LZ	20	34.0 (2)		
		eL	18 41 00	LR	20	27.0 (2)		
		eL	18 41 00	LT	20	18.0 (2)		
							AVG.	4.79
16	LC	eP	20 03 55.6	Z	0.2	9.5 (0)	1.5	
		eS	20 04 14	T	0.5	6.2 (0)		
16	WI	eP	21 24 50.0	Z	0.8	2.6 (0)		
16	MN	eP	21 25 01.5	Z	0.7	2.4 (0)		
16	LC	eP	21 26 31.0	Z	0.8	2.2 (0)		
17	MN	eP	04 18 55.6	Z	999.9	99.9 (9)	1.7	
		eS	04 19 00	R	999.9	99.9 (9)		
17	MN	eP	04 25 36.7	Z	0.4	4.7 (0)	1.5	
17	WI	eP	04 25 38.5	Z	0.4	2.3 (0)	1.6	
17	MN	eS	04 25 57	R	999.9	99.9 (9)	1.5	
17	WI	eS	04 26 00	R	0.5	17.0 (0)	1.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	09 44	05.5	17.2 S 167.7 E H =033 KM				NEW HEBRIDES ISLANDS	
17	CP	eP eS	10 48 44.1 10 48 55	Z T	0.2 999.9	4.2 (0) 99.9 (9)	0.8	
17	12 39	12.0	33.3 N 137.7 E H =335 KM				SOUTH OF HONSHU, JAPAN	
17	MV	eP	12 50 32.0	Z	0.8	11.0 (0)	77.0	4.64
17	WI	eP	12 50 39.4	Z	0.8	7.2 (0)	79.0	4.52
17	MN	eP	12 50 45.5	Z	0.6	3.4 (0)	80.0	4.32
17	TF	eP	12 50 59.0	Z	0.8	7.8 (0)	82.0	4.56
17	FM	eP	12 51 03.5	Z	0.8	13.0 (0)	83.0	4.78
17	CP	eP	12 51 07.4	Z	0.6	6.7 (0)	84.0	4.62
							AVG.	4.57
17	WI	eP	17 22 25.1	Z	0.5	3.0 (0)		
17	WI	eL	17 23 38	T	0.7	5.2 (0)		
18	02 00	04.5	28.4 N 097.3 E H =077 KM				CHINA INDIA-BURMA AREA	
18	04 06	00.4	08.9 S 117.0 E H =033 KM				SUMBAWA	
18	08 40	55.5	46.5 N 149.6 E H =140 KM				KURILE ISLANDS	
18	WI	eP epP ePCP	08 51 11.6 08 51 48 08 52 06	Z Z Z	0.6 0.6 1.0	8.5 (0) 6.6 (0) 16.0 (0)	63.0	4.77
18	MV	eP epP	08 51 04.7 08 51 43	Z Z	0.5 0.6	5.2 (0) 6.4 (0)	62.0	4.70
18	MN	eP epP ePCP	08 51 20.8 08 51 57 08 52 15	Z Z Z	0.8 1.0 1.0	14.0 (0) 15.0 (0) 13.0 (0)	64.0	4.86
18	TF	eP	08 51 27.6	Z	0.9	13.0 (0)	66.0	4.78
18	FM	eP epP	08 51 40.1 08 52 17	Z Z	0.7 1.0	24.0 (0) 38.0 (0)	68.0	5.09
18	CP	eP	08 51 51.1	Z	1.0	13.0 (0)	69.0	4.67
18	NG	eP epP	08 52 23.0 08 53 01	Z Z	1.0 0.9	22.0 (0) 17.0 (0)	75.0	4.90

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	LC	eP epP	08 52 27.7 08 53 05	Z Z	0.9 1.0	13.0 (0) 9.7 (0)	76.0	4.72
18	DH	eP epP	08 53 07.5 08 53 46	Z Z	0.5 1.0	11.0 (0) 50.0 (0)	83.0	4.90
							AVG.	4.82
18	CP	eP eS	09 39 23.0 09 39 42	Z T	0.3 0.3	15.0 (0) 23.0 (0)	1.5	
18	CP	eP	10 00 30.3	Z	0.2	7.0 (0)		
18	CP	e	10 00 34	Z	0.3	19.0 (0)		
18	CP	e	10 00 43	T	0.4	14.0 (0)		
18	CP	e	10 00 50	T	0.5	19.0 (0)		
18	11 22	40.2	46.5 N 149.5 E H =128 KM				KURILE ISLANDS	
18	MV	eP epP	11 32 51.0 11 33 29	Z Z	0.5 0.6	8.4 (0) 5.7 (0)	63.0	4.87
18	WI	eP epP	11 32 57.9 11 33 34	Z Z	0.5 1.0	12.4 (0) 9.0 (0)	63.0	5.03
18	MN	eP	11 33 07.1	Z	0.9	16.0 (0)	65.0	4.89
18	TF	eP	11 33 13.2	Z	1.0	17.0 (0)	66.0	4.87
18	FM	eP	11 33 26.2	Z	0.6	25.0 (0)	68.0	5.19
18	CP	eP	11 33 37.3	Z	1.0	15.0 (0)	70.0	4.75
18	NG	eP	11 34 09.3	Z	0.6	26.0 (0)	75.0	5.21
18	LC	eP epP	11 34 13.8 11 34 51	Z Z	0.9 2.0	13.0 (0) 38.0 (0)	76.0	4.73
18	DH	eP	11 34 53.3	Z	0.8	53.0 (0)	83.0	5.46
							AVG.	5.00
18	MN	eP	11 31 21.5	Z	1.0	4.1 (0)		
18	WI	eP eS	17 04 13.1 17 04 59	Z Z	0.3 0.4	4.1 (0) 16.0 (0)	3.7	
18	18 03	18.5	44.3 N 115.3 W H =033 KM				IDAHO	
18	MN	eP	18 40 34.2	Z	0.4	6.7 (0)		
18	WI	eP	18 40 49.1	Z	0.3	3.3 (0)		
18	TF	eP	18 50 29.4	Z	0.2	10.0 (0)	1.6	
18	MV	eP	18 50 46.5	Z	0.4	12.0 (0)	2.4	
18	TF	eS	18 50 51	R	0.5	34.0 (0)	1.6	
18	MN	eP	18 51 00.6	Z	0.4	2.8 (0)	3.1	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MV	eS	18 51 06	Z	0.4	8.4 (0)		
18	MN	eS	18 51 17	R	0.6	27.0 (0)	2.4	
18	MN	eS	18 51 40	R	0.5	17.0 (0)	3.1	
18	18 56 32.3		44.6 N 116.0 W				IDAHO	
			H = 033 KM					
18	WI	eP	18 57 31.1	Z	0.5	5.3 (0)	3.9	4.13
		eS	18 58 16	R	0.8	12.0 (0)		
18	MN	eP	18 59 05.0	Z	0.5	1.9 (0)	6.3	3.98
		eL	19 00 35	T	0.7	5.7 (0)		
							AVG.	4.06
18	19 49 59.2		16.2 N 093.5 W				CHIAPAS, MEXICO	
			H = 179 KM					
18	SJ	eP	19 52 45.9	Z	0.5	13.0 (1)	12.0	5.66
18	LC	eP	19 54 19.3D	Z	0.8	33.0 (0)	20.0	4.87
		e	19 54 54	Z	1.0	53.0 (0)		
		e	19 59 21	R	0.8	71.0 (0)		
18	CP	eP	19 55 26.0	Z	0.8	6.0 (0)	27.0	4.33
		e	19 55 47	Z	1.0	20.0 (0)		
		epP	19 56 02	Z	1.0	32.0 (0)		
18	FM	eP	19 55 38.5	Z	0.6	11.0 (0)	29.0	4.74
		e	19 56 04	Z	0.9	9.8 (0)		
18	MN	eP	19 56 03.1	Z	1.0	25.0 (0)	31.0	4.90
		e	19 56 28	Z	1.0	11.0 (0)		
		epP	19 56 42	Z	1.2	18.0 (0)		
		ePCP	19 58 55	Z	0.8	4.8 (0)		
		e	19 59 57	Z	0.7	5.7 (0)		
18	TF	eP	19 56 12.0	Z	1.0	6.9 (0)	32.0	4.26
18	NG	eP	19 56 16.0	Z	1.0	18.0 (0)	33.0	4.70
18	WI	eP	19 56 16.3	Z	0.8	28.0 (0)	33.0	4.99
		e	19 56 42	Z	0.8	12.0 (0)		
		epP	19 56 55	Z	0.8	16.0 (0)		
18	DH	epP	19 56 25	Z	0.7	30.0 (0)	30.0	
							AVG.	4.81
18	SJ	eP	19 54 50	Z	0.5	70.0 (0)		
18	20 31 07.1		44.3 N 115.2 W				IDAHO	
			H = 033 KM					
18	WI	eP	20 31 59.0	Z	0.3	1.6 (0)	3.5	3.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	FM	eP	20 32 02	Z	999.9	99.9 (9)		
		eL	20 32 38.1	Z	0.5	4.8 (0)	6.2	4.39
		eL	20 33 48	R	0.5	9.3 (0)		
18	MN	eP	20 32 42.8	Z	0.5	2.5 (0)	6.5	4.33
		e	20 34 18	R	0.9	12.0 (0)		
		eL	20 34 24	R	0.5	10.0 (0)		
							AVG.	4.18
18	MN	eP	21 12 28.2	Z	0.9	1.9 (0)		
18	21 26 13.3		38.4 N 073.3 E				TADZHIK S. S. R.	
			H = 186 KM					
18	LC	eP	21 52 10.0	Z	0.3	9.6 (0)	1.5	
		eS	21 52 29	T	0.3	11.0 (0)		
18	CP	eP	22 42 17.7	Z	0.6	3.7 (0)		
18	FM	eP	23 52 05.1	Z	0.5	24.0 (0)		
19	01 34 14.4		03.4 S 129.1 E				CERAM	
			H = 058 KM					
19	LC	eP	03 15 48.0	Z	1.0	3.6 (0)		
19	04 13 03.6		31.0 S 069.4 W				SAN JUAN PROV. ARGENTINA	
			H = 120 KM					
19	LC	eP	04 42 38.2	Z	0.9	1.9 (0)		
19	LC	eL	04 44 16	T	0.7	2.5 (0)		
19	LC	eP	07 15 04.5	Z	0.6	1.0 (0)		
19	09 17 12.4		30.6 N 097.3 E				CHINA	
			H = 029 KM					
19	09 39 41.9		56.3 S 026.2 W				SANDWICH ISLANDS	
			H = 086 KM					
19	FM	eP	09 40 42.3	Z	0.3	8.8 (0)	1.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	09 41 05	R	0.3	45.0 (0)		
19	10 43	25.0	44.6 N 115.6 W H =033 KM	IDAHO				
19	10 44	51.9	10.6 N 125.2 E H =050 KM	PHILIPPINE ISLANDS				
19	MN	eL	11 33 02	LZ	30	27.0 (1)	107.0	
		eL	11 37 42	LZ	20	20.0 (1)		
		eL	11 37 42	LR	20	31.0 (1)		
		eL	11 37 42	LT	20	13.0 (1)		
19	SJ	eL	11 35 05	LZ	15	25.0 (1)	123.0	
19	11 47	24.1	30.8 N 070.8 E H =041 KM	WEST PAKISTAN				
19	CP	eP	13 53 02.9	Z	0.3	7.9 (0)	1.6	
		eS	13 53 24	T	0.4	18.0 (0)		
19	14 44	56.2	18.9 S 066.0 W H =211 KM	BOLIVIA				
19	WI	eP	14 56 26.0	Z	0.7	4.6 (0)	77.0	4.32
19	17 14	07.1	32.9 S 179.9 E H =192 KM	KERMADEC ISLAND REGION				
19	LC	eP	19 58 46.5	Z	0.2	10.0 (0)	1.5	
		eS	19 59 05	R	0.3	4.3 (0)		
19	21 21	48.8	19.8 N 108.3 W H =053 KM	JALISCO, MEXICO				
19	SJ	eP	21 24 40.0	Z	1.6	71.0 (0)	12.0	5.38
		eP	21 24 46	LZ	12	20.0 (2)		
		eLQ	21 27 13	LR	23	11.0 (3)		
		eLR	21 28 06	LZ	20	56.0 (2)		
		eL	21 28 37	R	3.5	12.0 (2)		
19	LC	eP	21 24 50.5	Z	1.2	28.0 (0)	13.0	5.00

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	21 24 53	LZ	13	10.0 (2)		
		e	21 25 00	Z	1.8	19.0 (1)		
		e	21 25 17	Z	1.6	84.0 (0)		
		eL	21 28 20	LZ	15	29.0 (2)		
		eL	21 28 30	LR	17	13.0 (3)		
		eL	21 28 30	LT	18	42.0 (2)		
		eL	21 29 09	R	5.5	38.0 (2)		
19	CP	eP	21 25 14.5	Z	999.9	99.9 (9)	15.0	
		eP	21 25 15	LZ	13	13.0 (2)		
		eL	21 28 00	LR	29	38.0 (2)		
		eL	21 29 48	LZ	23	99.9 (9)		
		eL	21 29 48	LR	23	78.0 (2)		
		eL	21 29 48	LT	20	62.0 (2)		
19	TF	eP	21 26 00.9	Z	1.4	14.0 (1)	19.0	5.05
		eP	21 26 04	LZ	15	10.0 (2)		
		eS	21 29 34	LR	27	33.0 (2)		
		eS	21 29 34	LT	13	21.0 (2)		
		eL	21 30 51	LT	24	25.0 (2)		
		eL	21 32 56	LZ	18	42.0 (2)		
		eL	21 32 56	LR	16	32.0 (2)		
		eL	21 32 56	LT	14	58.0 (2)		
19	FM	eP	21 26 15.4	Z	1.0	30.0 (0)	21.0	4.87
		eP	21 26 17	LZ	22	40.0 (1)		
		e	21 26 28	Z	1.6	15.0 (1)		
		eS	21 30 10	LR	18	17.0 (2)		
		eS	21 30 10	LT	12	19.0 (2)		
		eL	21 31 54	LZ	25	21.0 (2)		
		eL	21 32 55	LR	20	31.0 (2)		
		eL	21 32 55	LT	19	11.0 (3)		
19	MN	eP	21 26 23.7	Z	1.0	29.0 (0)	21.0	4.56
		eP	21 26 24	LZ	20	45.0 (1)		
		eS	21 30 24	LR	21	65.0 (1)		
		eS	21 30 24	LT	14	39.0 (1)		
		eLQ	21 31 21	LT	30	12.0 (2)		
		eLR	21 32 00	LZ	999.9	99.9 (9)		
19	MV	eP	21 26 43.2	Z	1.5	32.0 (0)	23.0	4.52
		eS	21 31 01	LR	15	93.0 (1)		
		eS	21 31 01	LT	12	15.0 (2)		
		eLQ	21 31 45	LR	33	16.0 (2)		
		eL	21 34 17	LR	22	11.0 (2)		
		eL	21 34 17	LT	18	18.0 (2)		
19	WI	eP	21 26 48.8	Z	1.4	65.0 (0)	23.0	4.86
		eP	21 26 50	LZ	20	24.0 (1)		
		e	21 26 57	Z	1.2	64.0 (0)		
		eS	21 31 05	LR	14	23.0 (2)		
		eL	21 33 34	LZ	29	15.0 (2)		
19	DH	eP	21 28 44.9	Z	1.2	30.0 (0)	36.0	5.05
		e	21 37 00	LZ	30	72.0 (1)		
		eL	21 39 57	LZ	38	11.0 (2)		
		eL	21 41 26	LZ	25	38.0 (1)		
		eL	21 41 26	LR	16	10.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
	eL		21 41 26	LT	18	31.0 (2)	AVG.	4.91
19	23 42	34.9	05.7 S 130.3 E	BANDA SEA		H = 177 KM		
19	LC	eP†	24 01 07.8	Z	0.9	7.5 (0)	120.0	
20	MV	eP	02 04 55.6	Z	0.4	1.7 (0)	4.4	
		eS	02 05 49	T	0.5	1.9 (0)		
20	WI	eP	02 23 25.6	Z	0.5	6.1 (0)	3.7	
		eS	02 24 11	R	0.7	27.0 (0)		
20	FM	eP	02 35 59.0	Z	1.0	12.0 (0)		
20	MN	eP	03 04 09.7	Z	0.4	22.0 (0)	1.8	
		eS	03 04 34	R	0.5	23.0 (0)		
20	TF	eP	03 04 38.0	Z	0.5	3.2 (0)		
20	FM	eP	03 04 56.5	Z	0.2	5.8 (0)	4.7	
20	WI	eP	03 04 59.3	Z	0.5	3.1 (0)	4.5	
20	FM	eS	03 05 53	R	0.5	6.9 (0)	4.7	
20	WI	eS	03 05 54	R	0.5	12.5 (0)	4.5	
20	03 35	54.8	21.0 S 178.8 W	FIJI ISLANDS REGION		H = 580 KM		
20	MV	eP	03 47 10.1	Z	999.9	99.9 (9)	81.0	
20	MN	eP	03 47 18.0	Z	0.6	3.4 (0)	83.0	4.00
		epP	03 49 21	Z	1.5	97.0 (0)		
20	WI	eP	03 47 28.3	Z	1.0	4.6 (0)	85.0	4.10
20	LC	eP	03 47 43.0	Z	1.0	3.6 (0)	88.0	4.21
		epP	03 49 47	Z	1.2	5.6 (0)		
				AVG.				4.10
20	05 30	42.2	06.7 S 130.1 E	BANDA SEA		H = 167 KM		
20	MV	eP†	05 48 53.0	Z	1.0	3.3 (0)	110.0	
20	WI	eP†	05 48 58.4	Z	0.8	2.0 (0)	112.0	
		ePP	05 49 38	Z	1.1	3.3 (0)		
		ePKKP	05 59 54	Z	0.7	1.7 (0)		
20	CP	eP†	05 49 03.2	Z	0.6	3.7 (0)	114.0	
20	FM	eP†	05 49 08.6	Z	1.0	18.0 (0)	117.0	
20	LC	eP†	05 49 18.5	Z	0.7	4.2 (0)	124.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	NG	ePKKP	05 59 19	Z	0.9	2.8 (0)		
		eP†	05 49 30.9	Z	0.8	11.0 (0)	135.0	
20	DH	eP†	05 49 48.7	Z	0.7	9.6 (0)	138.0	
20	CP	eP	05 46 19.3	Z	0.3	8.5 (0)	0.7	
		eS	05 46 29	T	0.3	12.2 (0)		
20	06 33	29.2	17.2 S 069.7 W	PERU-BOLIVIA BORDER		H = 153 KM		
20	WI	eP	06 44 45.5	Z	0.5	2.2 (0)	73.0	4.11
20	CP	eP	07 05 54.1	Z	0.3	13.0 (0)	1.2	
		eS	07 06 09	T	0.3	34.0 (0)		
20	WI	eP	11 12 41.5	Z	0.7	1.7 (0)		
20	CP	eP	14 38 15.0	Z	0.5	15.0 (0)	1.8	
		eS	14 38 39	T	0.5	30.0 (0)		
20	TF	eP	14 38 46.5	Z	0.3	3.0 (0)	3.1	
		eS	14 39 25	T	0.4	8.9 (0)		
20	MN	eP	15 56 57.3	Z	0.7	1.6 (0)		
20	MN	eP	16 28 14.7	Z	0.6	1.4 (0)		
20	LC	eP	16 29 44.5	Z	1.0	2.4 (0)		
20	CP	eP	17 45 32.7	Z	0.6	3.1 (0)		
20	MN	eP	22 27 07.0	Z	0.2	0.7 (0)	3.2	
		e	22 27 14	Z	0.6	9.0 (0)		
		eS	22 27 47	R	0.6	5.6 (0)		
21	MN	eP	00 36 56.7	Z	0.9	3.9 (0)		
21	WI	eP	00 37 08.0	Z	0.9	3.5 (0)		
21	LC	eP	00 37 16.5	Z	1.0	3.6 (0)		
21	02 05	22.7	61.1 N 149.7 W	ANCHORAGE ALASKA VICINITY		H = 080 KM		
21	WI	eP	02 11 05.6	Z	1.0	21.0 (0)	28.0	4.76
		eP	02 11 06	LZ	20	29.0 (1)		
		e	02 11 17	Z	1.0	44.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eS	02 16 10	LT	18	38.0 (1)	28.0	4.83
		eS	02 16 10	LR	18	29.0 (1)		
		eLQ	02 18 15	LT	26	17.0 (2)		
		eLR	02 19 05	LZ	23	72.0 (1)		
		eL	02 19 05	LR	23	89.0 (1)		
		eL	02 19 05	LT	23	10.0 (1)		
		eSCS	02 21 41	T	3.0	17.0 (1)		
		eP	02 11 07.0	Z	0.7	17.0 (0)		
		e	02 11 20	Z	0.7	8.3 (0)		
		e	02 14 33	LR	22	35.0 (1)		
21	MN	ePCP	02 14 39	Z	0.7	3.3 (0)	30.0	4.79
		eL	02 17 42	LT	31	14.0 (2)		
		eL	02 18 24	Z	1.0	5.0 (0)		
		eP	02 11 25.3	Z	0.7	13.0 (0)		
		eP	02 11 25	LZ	22	23.0 (1)		
		e	02 11 38	Z	1.4	57.0 (0)		
		e	02 11 38	Z	0.7	4.3 (0)		
		ePCP	02 14 41	LT	22	26.0 (1)		
		eS	02 16 25	LR	26	39.0 (1)		
		eS	02 16 25	Z	1.4	8.1 (0)		
21	FM	eL	02 18 31	LT	31	17.0 (2)	32.0	4.60
		eLQ	02 18 33	LZ	28	65.0 (1)		
		eLR	02 20 15	LZ	20	63.0 (1)		
		eL	02 20 50	LR	23	72.0 (1)		
		eL	02 20 50	LT	20	11.0 (2)		
		eL	02 20 50	Z	0.8	9.2 (0)		
		eP	02 11 41.6	Z	0.8	17.0 (0)		
		e	02 11 55	LZ	20	28.0 (1)		
		eP	02 12 00	Z	0.8	7.7 (0)		
		ePCP	02 14 53	LT	15	39.0 (1)		
21	TF	eS	02 16 53	LR	25	99.0 (1)	32.0	4.97
		eL	02 19 30	Z	0.7	19.0 (0)		
		eP	02 11 44.0	Z	1.0	51.0 (0)		
		e	02 11 57	Z	0.8	7.5 (0)		
		ePCP	02 14 44	LR	21	31.0 (1)		
		eS	02 17 02	LR	33	21.0 (2)		
		eL	02 19 00	Z	0.7	15.0 (0)		
		eP	02 12 14.4	Z	0.7	15.0 (0)		
		e	02 12 29	LZ	15	26.0 (1)		
		e	02 12 30	Z	0.7	21.0 (0)		
21	CP	e	02 12 46	LT	15	49.0 (1)	36.0	5.01
		ePCS	02 18 20	LT	28	57.0 (1)		
		eL	02 21 00	Z	0.6	14.0 (0)		
		eP	02 12 36.1	Z	0.7	28.0 (0)		
		e	02 12 49	R	2.1	68.0 (0)		
		e	02 24 50	Z	0.8	13.0 (0)		
		eP	02 12 51.0	Z	1.0	22.0 (0)		
		e	02 13 04	LZ	15	30.0 (1)		
		e	02 13 10	LZ	16	40.0 (1)		
		ePP	02 14 40	Z	0.7	3.6 (0)		
21	NG	ePCP	02 15 10	Z	0.7	3.6 (0)	38.0	5.02
		eL	02 22 21	LZ	22	38.0 (1)		
		e	02 12 36.1	Z	0.7	28.0 (0)		
		e	02 12 49	R	2.1	68.0 (0)		
		e	02 24 50	Z	0.8	13.0 (0)		
		eP	02 12 51.0	Z	1.0	22.0 (0)		
		e	02 13 04	LZ	15	30.0 (1)		
		e	02 13 10	LZ	16	40.0 (1)		
		ePP	02 14 40	Z	0.7	3.6 (0)		
		ePCP	02 15 10	Z	0.7	3.6 (0)		
21	LC	eL	02 22 21	LZ	22	38.0 (1)	40.0	4.77
		e	02 12 36.1	Z	0.7	28.0 (0)		
		e	02 12 49	R	2.1	68.0 (0)		
		eP	02 12 51.0	Z	1.0	22.0 (0)		
		e	02 13 04	LZ	15	30.0 (1)		
		e	02 13 10	LZ	16	40.0 (1)		
		ePP	02 14 40	Z	0.7	3.6 (0)		
		ePCP	02 15 10	Z	0.7	3.6 (0)		
		eL	02 22 21	LZ	22	38.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	A						
21	DH	eP	02 13 47.8	Z	0.6	8.1 (0)	47.0	4.79				
		eS	02 20 43	LR	18	39.0 (1)						
		eS	02 20 43	LT	18	41.0 (1)						
		e	02 24 18	LR	20	11.0 (2)						
		eLQ	02 26 12	LT	40	15.0 (2)						
		eL	02 30 00	LZ	20	53.0 (1)						
		eL	02 30 00	LR	24	23.0 (2)						
		eL	02 30 00	LT	20	22.0 (2)						
		eP	02 13 54.3	Z	0.5	7.6 (0)						
		e	02 14 08	Z	0.7	20.0 (0)						
21	SJ	e	02 21 45	LR	22	61.0 (1)	48.0	4.84				
		eL	02 27 50	LR	40	12.0 (2)						
									AVG.	4.84		
		21	WI	eP	03 22 36.2	Z			0.7	3.4 (0)	5.0	
				eS	03 23 47	T			0.7	6.8 (0)		
		21	MN	eP	06 09 45.5	Z			0.2	24.0 (0)	0.1	
				eS	06 09 49	R			0.3	13.0 (0)		
		21	08 17 13.0	20.8 S 177.8 W	FIJI ISLANDS REGION							
				H =469 KM								
		21	LC	eP	10 39 42.3	Z			0.7	1.8 (0)		
21	DH	eP	11 18 14.0	Z	0.7	9.6 (0)						
21	DH	eP	11 35 49.0	Z	1.0	29.0 (0)						
21	12 32 27.4	01.5 N 127.2 E	HALMAHERA ISLAND REGION									
		H =111 KM										
21	13 07 27.9	15.5 S 172.3 W	SAMOA ISLANDS REGION									
		H =033 KM										
21	MN	eP	13 19 02.5	Z	0.8	3.0 (0)	74.0	4.30				
21	WI	eP	13 19 14.2	Z	0.8	2.0 (0)	76.0	4.20				
21	FM	eP	13 19 27.7	Z	0.6	2.2 (0)	78.0	4.37				
21	LC	eP	13 19 31.0	Z	0.7	3.0 (0)	78.0	4.50				
							AVG.	4.34				
21	NG	eP	15 20 41.0	Z	1.0	14.0 (0)						
21	15 25 11.5	10.3 S 162.1 E	SOLOMON ISLANDS									
		H =033 KM										

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MN	eP	15 38 03.2	Z	0.7	1.7 (0)	89.0	4.45
21	WI	eP	15 38 08.5	Z	0.6	0.9 (0)	90.0	4.18
						AVG.		4.32
21	LC	eP	16 02 19.5	Z	0.3	1.3 (0)	3.0	
		e	16 02 25	Z	0.5	4.6 (0)		
		eS	16 02 57	T	0.5	6.5 (0)		
21	CP	eP	16 46 10.2	Z	0.8	1.7 (0)		
21	CP	e	16 46 53	Z	0.8	3.4 (0)		
21	FM	eP	20 08 16.1	Z	0.7	2.6 (0)		
21	WI	eP	20 08 38.7	Z	0.7	3.5 (0)		
21	23	10 52.2	55.9 S 027.8 W	SANDWICH ISLANDS REGION				
			H =033 KM					
22	01	09 50.9	18.1 S 177.9 W	FIJI ISLANDS REGION				
			H =612 KM					
22	LC	eP	02 46 15.3	Z	1.0	2.5 (0)		
22	MN	eP	02 47 00.3	Z	0.8	2.5 (0)		
22	WI	eP	02 47 14.8	Z	1.2	3.4 (0)		
22	04	34 38.9	03.4 S 145.3 E	BISMARK SEA				
			H =036 KM					
22	MN	eP	04 48 10.0	Z	0.8	1.5 (0)	97.0	4.64
		eSS	05 06 34	LR	25	22.0 (1)		
		eL	05 18 48	LZ	27	13.0 (2)		
		eL	05 22 21	LZ	24	15.0 (2)		
		eL	05 22 21	LR	23	10.0 (2)		
		eL	05 22 21	LT	24	74.0 (1)		
22	LC	ePKKP	05 04 38.8	Z	1.0	3.7 (0)	120.0	
		eL	05 23 35	LZ	35	90.0 (1)		
		eL	05 26 38	LR	25	44.0 (1)		
		eL	05 26 38	LZ	25	48.0 (1)		
22	MV	eL	05 17 45	LZ	25	13.0 (2)	96.0	
22	TF	eL	05 18 15	LZ	27	93.0 (1)	96.0	
22	WI	eL	05 19 00	LZ	28	12.0 (2)	98.0	
		eL	05 21 45	LZ	25	10.0 (2)		
		eL	05 21 45	LR	24	29.0 (1)		
		eL	05 21 45	LT	25	10.0 (2)		
22	CP	eL	05 19 50	LZ	27	94.0 (1)	99.0	
		eL	05 21 00	LZ	25	89.0 (1)		
		eL	05 21 00	LT	25	37.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	FM	eL	05 21 25	LZ	25	10.0 (2)	102.0	
22	DH	eL	05 34 55	LZ	35	89.0 (1)	127.0	
		eL	05 44 30	LZ	20	10.0 (2)		
		eL	05 44 30	LT	20	96.0 (1)		
						AVG.		4.64
22	05	03 03.9	45.2 N 111.3 W	SOUTHWESTERN MONTANA				
			H =033 KM					
22	WI	eP	05 04 33.2	Z	0.5	1.3 (0)	6.0	3.82
		eLG	05 05 54	R	0.8	16.0 (0)		
22	05	55 44.0	05.1 S 151.7 E	NEW BRITAIN				
			H =059 KM					
22	MN	eP	06 08 54.2	Z	1.0	2.5 (0)		
22	09	06 10.1	73.4 N 054.9 E	NOVAYA ZEMLYA				
			MAG	5.00-5.25 PAL				
22	WI	eP	09 16 56.8	Z	1.2	8.6 (0)	65.0	4.86
		eP	09 17 00	LZ	20	15.0 (1)		
		eL	09 37 30	LZ	35	97.0 (1)		
		eL	09 44 05	LZ	23	16.0 (2)		
		eL	09 44 05	LR	25	13.0 (2)		
		eL	09 44 05	LT	18	41.0 (1)		
22	LC	eP	09 17 47.8	Z	1.1	6.1 (0)	74.0	4.54
		eL	09 36 35	LZ	22	34.0 (1)		
		eL	09 41 50	LZ	40	82.0 (1)		
		eL	09 50 45	LZ	25	15.0 (2)		
		eL	09 50 45	LR	20	61.0 (1)		
		eL	09 50 45	LT	21	16.0 (2)		
		e	16 26 38	LZ	300	24.0 (4)		
22	MN	eL	09 34 20	LZ	27	24.0 (1)	68.0	
		eL	09 39 02	LZ	40	13.0 (2)		
		eL	09 45 38	LZ	25	14.0 (2)		
		eL	09 45 38	LT	24	11.0 (2)		
22	FM	eL	09 38 15	LZ	45	19.0 (2)	68.0	
		eL	09 45 05	LZ	25	33.0 (1)		
		eL	09 45 05	LR	22	80.0 (1)		
		eL	09 45 05	LT	18	22.0 (1)		
		e	16 20 20	LZ	80	67.0 (2)		
22	MV	eL	09 40 20	LZ	30	11.0 (2)	68.0	
22	TF	eL	09 40 55	LZ	40	11.0 (2)	72.0	
		e	16 19 00	LZ	100	97.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	CP	eL	09 41 30	LZ	35	38.0 (1)	75.0	
		eL	09 51 22	LZ	22	11.0 (2)		
		eL	09 51 22	LR	20	77.0 (1)		
		e	16 27 35	LZ	290	13.0 (4)		
22	DH	e	15 54 20	LZ	270	14.0 (4)	59.0	4.70
						AVG.		
22	CP	eP	11 11 05.7	Z	999.9	99.9 (9)		
22	MN	eP	11 12 30.8	Z	0.3	1.2 (0)		
22	MN	e	11 12 43	Z	0.5	3.9 (0)		
22	MN	eL	11 13 57	T	1.0	13.0 (0)		
22	15 23 32.9		49.8 N 155.8 E				NORTH KURILE ISLANDS	
			H =019 KM					
22	WI	eP	15 33 26.8	Z	1.0	13.0 (0)	58.0	4.91
		eS	15 41 28	LR	28	70.0 (1)		
		eS	15 41 28	LT	20	71.0 (1)		
		ePS	15 42 03	LR	32	83.0 (1)		
		eL	15 51 20	LZ	27	46.0 (2)		
		eL	15 53 10	LZ	25	32.0 (2)		
		eL	15 53 10	LR	23	13.0 (2)		
		eL	15 53 10	LT	25	30.0 (2)		
22	MV	eP	15 33 29.8	Z	0.8	8.8 (0)	59.0	4.84
		eL	15 50 30	LZ	30	28.0 (2)		
		eL	15 52 35	LZ	22	12.0 (2)		
		eL	15 52 35	LR	23	90.0 (1)		
22	MN	eP	15 33 36.8	Z	1.0	12.0 (0)	60.0	4.90
		eS	15 41 50	LT	25	50.0 (1)		
		eS	15 41 50	LR	22	55.0 (1)		
		ePPS	15 42 27	LR	28	13.0 (2)		
		eSS	15 45 40	LR	25	12.0 (2)		
		eLQ	15 49 08	LR	35	20.0 (2)		
		eLR	15 51 35	LZ	34	99.9 (9)		
		eL	15 54 43	LZ	24	13.0 (2)		
		eL	15 54 43	LR	24	11.0 (2)		
		eL	15 54 43	LT	23	94.0 (1)		
22	TF	eP	15 33 44.0	Z	1.0	13.0 (0)	60.0	4.93
		eP	15 33 45	LZ	15	54.0 (1)		
		eS	15 42 00	LR	25	89.0 (1)		
		eLQ	15 48 55	LR	40	38.0 (2)		
		eLR	15 51 22	LZ	30	29.0 (2)		
22	FM	eP	15 33 56.9	Z	0.8	9.5 (0)	63.0	4.94
		eP	15 34 00	LZ	20	47.0 (1)		
		eS	15 42 38	LR	22	69.0 (1)		
		eS	15 42 38	LT	20	43.0 (1)		
		eSS	15 46 50	LT	30	64.0 (1)		
		eL	15 53 20	LZ	25	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	15 55 05	LR	25	40.0 (1)		
		eL	15 55 05	LT	25	22.0 (2)		
22	CP	eP	15 34 09.8	Z	0.8	3.4 (0)	64.0	4.57
		eS	15 42 15	LT	30	80.0 (1)		
		eL	15 53 30	LZ	30	18.0 (2)		
		eL	15 56 38	LZ	20	13.0 (2)		
		eL	15 56 38	LT	22	11.0 (2)		
22	LC	eP	15 34 48.0	Z	1.3	21.0 (0)	71.0	5.05
		eP	15 34 50	LZ	20	29.0 (1)		
		eS	15 44 12	LR	25	66.0 (1)		
		eS	15 44 12	LT	28	40.0 (1)		
		eSS	15 48 40	LR	30	10.0 (2)		
		eLQ	15 54 25	LT	42	27.0 (2)		
		eLR	15 57 40	LZ	30	23.0 (2)		
		eL	15 59 35	LZ	25	77.0 (1)		
		eL	15 59 35	LR	25	94.0 (1)		
		eL	15 59 35	LT	25	64.0 (1)		
22	DH	eP	15 35 31.8	Z	0.8	40.0 (0)	79.0	5.46
		eP	15 35 32	LZ	18	56.0 (1)		
		eL	16 05 40	LZ	30	75.0 (1)		
		eL	16 07 25	LZ	25	14.0 (2)		
		eL	16 07 25	LR	25	17.0 (2)		
		eL	16 07 25	LT	20	90.0 (1)		
						AVG.		4.95
22	18 12 29.7		21.0 S 168.5 E				NEW HEBRIDES IS. REGION	
			H =033 KM					
22	22 18 50.3		37.9 N 141.7 E				HONSHU, JAPAN	
			H =038 KM					
22	MN	eP	22 30 25.3	Z	1.2	5.2 (0)	75.0	4.36
22	FM	eP	22 30 43.6	Z	0.8	3.5 (0)	78.0	4.43
22	LC	eP	22 31 25.3	Z	1.0	3.7 (0)	86.0	4.39
						AVG.		4.39
23	00 26 00.3		15.2 S 173.0 W				SAMOA ISLANDS REGION	
			H =033 KM					
23	TF	eP	00 37 15.9	Z	1.0	8.6 (0)	71.0	4.74
		eL	00 58 13	LZ	25	77.0 (1)		
		eL	00 59 20	LZ	25	68.0 (1)		
		eL	00 59 20	LR	25	64.0 (1)		
23	CP	eP	00 37 23.1	Z	1.1	5.4 (0)	72.0	4.49
		eL	00 58 50	LZ	26	52.0 (1)		
23	MV	eP	00 37 27.0	Z	1.0	3.3 (0)	73.0	4.32

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	MN	eL	00 59 15	LZ	26	77.0 (1)	74.0	4.37
		eL	01 00 45	LZ	25	68.0 (1)		
		eL	01 00 45	LR	22	18.0 (1)		
		eL	01 00 45	LT	23	31.0 (1)		
		eP	00 37 34.5	Z	1.0	4.3 (0)		
		eL	01 00 00	LZ	30	86.0 (1)		
		eL	01 01 45	LZ	23	70.0 (1)		
		eL	01 01 45	LR	25	20.0 (1)		
		eL	01 01 45	LT	24	57.0 (1)		
		eL	01 01 45	Z	1.0	4.5 (0)		
23	WI	eP	00 37 47.6	Z	1.0	4.5 (0)	76.0	4.45
		eL	01 00 53	LZ	28	51.0 (1)		
		eL	01 02 13	LZ	26	40.0 (1)		
		eL	01 02 13	LR	29	18.0 (1)		
		eL	01 02 13	LT	25	36.0 (1)		
		eL	01 02 13	Z	1.0	9.2 (0)		
		eP	00 38 00.2	Z	0.8	5.1 (0)		
		eP	00 38 04.6	Z	0.8	5.1 (0)		
		eL	01 02 35	LZ	30	34.0 (1)		
		eL	01 04 05	LZ	24	29.0 (1)		
23	FM	eP	00 38 00.2	Z	0.8	5.1 (0)	78.0	4.77
		eL	01 02 35	LZ	30	34.0 (1)		
		eL	01 04 05	LZ	24	29.0 (1)		
		eL	01 04 05	LR	25	11.0 (1)		
		eL	01 04 05	LT	22	23.0 (1)		
		eL	01 04 05	Z	1.0	9.2 (0)		
		eP	00 38 04.6	Z	0.8	5.1 (0)		
		eP	00 38 00.2	Z	0.8	5.1 (0)		
		eL	01 02 35	LZ	30	34.0 (1)		
		eL	01 04 05	LZ	24	29.0 (1)		
23	LC	eP	00 38 04.6	Z	0.8	5.1 (0)	79.0	4.54
		eL	01 02 35	LZ	30	34.0 (1)		
		eL	01 04 05	LZ	24	29.0 (1)		
		eL	01 04 05	LR	25	11.0 (1)		
		eL	01 04 05	LT	22	23.0 (1)		
		eL	01 04 05	Z	1.0	9.2 (0)		
		eP	00 38 04.6	Z	0.8	5.1 (0)		
		eP	00 38 00.2	Z	0.8	5.1 (0)		
		eL	01 02 35	LZ	30	34.0 (1)		
		eL	01 04 05	LZ	24	29.0 (1)		
AVG.								4.53

23	00 47 27.2	46.2 N 153.2 E	KURILE ISLANDS	H = 033 KM
23	FM eP	00 58 06.4	Z 0.4	29.0 (0) 65.0
23	LC eP	02 45 08.5	Z 1.0	2.5 (0)
23	06 46 49.9	15.1 S 173.4 W	SAMOA ISLANDS REGION	H = 033 KM
23	MN eP	06 58 26.0	Z 1.0	3.4 (0) 74.0 4.27
23	WI eP	07 56 41.4	Z 0.4	2.3 (0) 1.5
	eS	07 57 01	R 0.5	16.0 (0)
23	09 02 02.2	09.5 N 070.0 W	NORTH CENTRAL VENEZUELA	H = 033 KM
23	SJ eP	09 08 29.3	Z 0.7	15.0 (0) 32.0 4.97

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	NG	eP	09 09 30.3	Z	0.8	10.0 (0)	39.0	4.51
23	LC	fP	09 09 42.5D	Z	0.7	17.0 (0)	41.0	4.92
23	FM	eP	09 10 49.5	Z	0.8	9.1 (0)	48.0	4.86
		e	09 21 18	LZ	20	22.0 (1)		
		eL	09 25 40	LZ	29	42.0 (1)		
		eL	09 30 10	LZ	26	46.0 (1)		
		eL	09 30 10	LR	25	37.0 (1)		
		eL	09 30 10	LT	27	24.0 (1)		
23	MN	eP	09 11 09.0	Z	1.0	5.1 (0)	52.0	4.44
		eSS	09 22 32	LR	21	24.0 (1)		
		eL	09 27 00	LZ	40	28.0 (1)		
		eL	09 33 27	LZ	27	18.0 (1)		
		eL	09 33 27	LR	21	20.0 (1)		
		eL	09 33 27	LT	22	42.0 (1)		
23	TF	eP	09 11 10.9	Z	0.6	3.6 (0)	52.0	4.51
23	WI	eP	09 11 13.5	Z	1.0	15.0 (0)	52.0	4.91
23	MV	eP	09 11 27.4	Z	0.6	1.4 (0)	54.0	4.17
AVG.								4.66
23	MN	eP	09 29 23.9	Z	1.0	2.0 (0)		
23	09 57 41.0	18.4 N 145.6 E	N. MARIANA ISLANDS	H = 150 KM				
23	MV	eP	10 09 40.6	Z	999.9	99.9 (9)	81.0	
23	WI	eP	10 09 52.0	Z	0.6	3.8 (0)	83.0	4.40
		epP	10 10 29	Z	1.0	9.0 (0)		
23	TF	eP	10 09 52.0	Z	0.7	4.3 (0)	83.0	4.40
23	MN	eP	10 09 54.2	Z	0.7	4.3 (0)	84.0	4.39
		epP	10 10 31	Z	1.0	8.5 (0)		
23	CP	eP	10 10 09.9	Z	0.8	17.0 (0)	86.0	3.98
		epP	10 10 48	Z	1.0	5.8 (0)		
23	FM	eP	10 10 13.8	Z	0.8	3.6 (0)	87.0	4.35
		epP	10 10 51	Z	0.8	4.7 (0)		
23	LC	epP	10 11 24	Z	0.9	2.5 (0)	94.0	
AVG.								4.30
23	LC	eP	12 32 51.9	Z	1.0	4.9 (0)		
23	CP	eP	12 33 53.1	Z	1.0	2.9 (0)		
23	SJ	eLQ	12 34 10	LR	16	26.0 (2)		
23	MN	eP	12 34 36.8	Z	1.0	3.4 (0)		
23	WI	eP	12 34 52.0	Z	1.0	4.5 (0)		
23	SJ	eL	12 37 30	LZ	15	16.0 (2)		
23	SJ	eL	12 37 30	LR	16	26.0 (2)		
23	SJ	eL	12 37 30	LT	12	14.0 (2)		
23	LC	eLQ	12 38 03	LT	19	10.0 (2)		
23	LC	eL	12 39 15	LR	18	78.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	LC	eL	12 39 15	LT	19	10.0 (2)		
23	FM	eLQ	12 42 18	LR	19	90.0 (1)		
23	MN	eLQ	12 43 35	LT	18	70.0 (1)		
23	FM	eL	12 43 47	LZ	17	28.0 (1)		
23	FM	eL	12 43 47	LR	19	90.0 (1)		
23	FM	eL	12 43 47	LT	18	27.0 (1)		
23	WI	eLQ	12 44 48	LT	21	64.0 (1)		
23	MN	eL	12 45 08	LZ	18	77.0 (0)		
23	MN	eL	12 45 08	LR	18	13.0 (1)		
23	WI	eL	12 45 55	LR	21	35.0 (1)		
23	WI	eL	12 45 55	LT	21	64.0 (1)		
23	MN	eL	12 45 08	LT	18	70.0 (1)		
23	CP	eP	14 07 50.1	Z	0.3	9.4 (0)	1.2	
		eS	14 08 06	T	0.3	22.0 (0)		
23	16 15 58.6	16.9 S 178.8 W	FIJI ISLANDS REGION					
		H = 576 KM						
23	TF	eP	17 19 23.6	Z	0.5	3.3 (0)		
23	LC	eP	17 58 07.0	Z	0.5	3.7 (0)		
23	LC	eL	17 59 39	R	0.6	11.0 (0)		
23	20 10 57.6	36.7 N 071.1 E	HINDU KUSH					
		H = 216 KM						
23	LC	eP	21 04 32.7	Z	0.3	7.1 (0)	1.5	
		eS	21 04 52	T	0.5	13.0 (0)		
23	NG	eP	21 41 17.0	Z	1.0	34.0 (0)		
24	01 50 06.2	19.4 N 067.0 W	MONA PASSAGE					
		H = 033 KM						
24	LC	eP	01 57 21.5	Z	0.7	7.4 (0)	38.0	4.59
24	CP	eP	01 58 25.6	Z	1.2	4.5 (0)	46.0	4.31
24	WI	eP	01 58 44.5	Z	0.7	2.2 (0)	48.0	4.31
24	MN	eP	01 58 45.0	Z	0.7	5.1 (0)	48.0	4.66
24	TF	eP	01 58 54.2	Z	0.8	7.4 (0)	49.0	4.73
							AVG.	4.52
24	CP	eP	02 43 13.5	Z	0.2	2.8 (0)	0.8	
		eS	02 43 24	T	0.3	6.1 (0)		
24	CP	eP	03 18 00.5	Z	0.3	6.8 (0)	1.4	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	03 18 17	R	0.3	13.0 (0)		
24	05 03 21.4	17.3 S 167.6 E	NEW HEBRIDES ISLANDS					
		H = 033 KM						
24	MV	eP	05 16 04.0	Z	0.8	2.0 (0)	87.0	4.33
24	MN	eP	05 16 13.4	Z	1.3	6.5 (0)	90.0	4.67
24	WI	eP	05 16 21.3	Z	0.9	3.4 (0)	91.0	4.64
							AVG.	4.55
24	06 24 16.3	19.4 N 108.2 W	OFF COAST JALISCO, MEXICO					
		H = 033 KM						
24	SJ	eP	06 27 13.5	Z	999.9	99.9 (9)	12.0	
		eL	06 30 50	LT	20	73.0 (1)		
		eL	06 31 30	LZ	16	99.9 (9)		
		eL	06 31 30	LR	16	99.9 (9)		
		eL	06 31 30	LT	16	28.0 (2)		
24	LC	eP	06 27 24.3	Z	1.2		13.0	5.02
		eL	06 31 00	LZ	25	96.0 (1)		
		eL	06 31 00	LR	16	57.0 (1)		
		eL	06 31 00	LT	22	96.0 (1)		
24	CP	eP	06 27 50.0	Z	1.0	67.0 (0)	15.0	4.02
		eL	06 32 02	LZ	22	83.0 (1)		
		eL	06 32 02	LR	22	63.0 (1)		
		eL	06 32 02	LT	20	64.0 (1)		
24	TF	eP	06 28 34.3	Z	1.6	67.0 (0)	19.0	4.65
		eS	06 32 14	LR	17	51.0 (1)		
		eL	06 34 12	LZ	17	50.0 (1)		
		eL	06 34 12	LR	17	77.0 (1)		
		eL	06 34 12	LT	15	33.0 (1)		
24	FM	eP	06 28 49.3	Z	0.8	11.0 (0)	20.0	4.11
		eL	06 34 20	LZ	28	36.0 (1)		
		eL	06 35 40	LZ	20	39.0 (1)		
		eL	06 35 40	LR	18	23.0 (1)		
		eL	06 35 40	LT	20	47.0 (1)		
24	MN	eP	06 28 57.1	Z	0.8	7.5 (0)	21.0	4.07
		eL	06 33 08	LZ	18	12.0 (1)		
		eL	06 33 08	LR	15	18.0 (1)		
		eL	06 33 08	LT	20	29.0 (1)		
24	MV	eP	06 29 17.5	Z	1.2	7.9 (0)	23.0	4.05
		eL	06 35 40	LT	22	99.9 (9)		
24	WI	eP	06 29 23.3	Z	1.0	7.8 (0)	23.0	4.13
		eS	06 33 55	LR	13	25.0 (1)		
		eS	06 33 55	LT	15	25.0 (1)		
		eL	06 38 08	LZ	18	31.0 (1)		
		eL	06 38 40	LZ	15	96.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	06 38 40	LR	15	55.0	{1}	
		eL	06 38 40	LT	12	32.0	{1}	
							AVG.	4.29
24	DH	eP	06 48 03.0	Z	1.0	29.0	(0)	
24	DH	eP	08 28 02.0	Z	0.8	29.0	(0)	
24	MV	eP	10 27 52.3	Z	0.5	2.6	(0)	
24	WI	eP	10 28 40.6	Z	0.8	2.6	(0)	
24	LC	eP	11 51 10.6	Z	0.8	2.2	(0)	
24	CP	eP	12 25 40.2	Z	0.2	34.0	(0)	0.7
		eS	12 25 50	T	0.3	54.0	(0)	
24	LC	eP	12 39 20.5	Z	0.9	2.8	(0)	
24	FM	eP	12 40 52.3	Z	0.6	2.6	(0)	
24	MN	eP	12 41 07.2	Z	1.1	3.1	(0)	
24	WI	eP	12 41 22.7	Z	0.8	3.3	(0)	
24	CP	eP	17 13 48.3	Z	0.2	59.0	(0)	1.3
		eS	17 14 05	T	0.3	48.0	(0)	
24	LC	eP	17 55 54.5	Z	1.0	4.9	(0)	
24	LC	eP	17 55 56	LZ	14	35.0	(1)	
24	CP	eP	17 56 20.3	Z	1.1	5.4	(0)	
24	CP	eP	17 56 21	LZ	14	38.0	(1)	
24	TF	eP	17 57 03.3	Z	1.0	10.0	(0)	
24	TF	eP	17 57 12	LZ	13	53.0	(1)	
24	FM	eP	17 57 20.5	Z	1.0	9.2	(0)	
24	MN	eP	17 57 28.0	Z	1.0	6.8	(0)	
24	MN	e	17 57 38	LR	20	16.0	(1)	
24	WI	eP	17 57 53.6	Z	1.0	3.3	(0)	
24	LC	e	17 58 35	LZ	15	91.0	(1)	
24	LC	eL	17 59 10	LZ	15	27.0	(2)	
24	LC	eL	17 59 10	LR	20	48.0	(2)	
24	LC	eL	17 59 10	LT	16	20.0	(2)	
24	SJ	eL	17 59 30	LT	20	10.0	(3)	
24	CP	eL	18 00 15	LZ	24	23.0	(2)	
24	CP	eL	18 00 15	LR	25	19.0	(2)	
24	CP	eL	18 00 15	LT	25	13.0	(2)	
24	DH	e	18 00 16	LZ	20	36.0	(1)	
24	TF	eL	18 00 40	LR	31	17.0	(2)	
24	FM	e	18 01 20	LR	23	43.0	(1)	
24	MN	e	18 01 28	LR	20	29.0	(1)	
24	WI	e	18 02 12	LR	15	97.0	(1)	
24	TF	eL	18 02 20	LZ	21	59.0	(1)	
24	TF	eL	18 02 20	LR	20	80.0	(1)	
24	TF	eL	18 02 20	LT	21	52.0	(1)	
24	MN	eLR	18 03 00	LZ	25	11.0	(2)	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	MN	eL	18 03 00	LR	25	89.0	(1)	
24	MN	eL	18 03 00	LT	25	95.0	(1)	
24	FM	eL	18 03 00	LZ	30	87.0	(1)	
24	WI	e	18 03 02	LR	24	13.0	(2)	
24	FM	eL	18 04 00	LZ	23	82.0	(1)	
24	FM	eL	18 04 00	LR	23	76.0	(1)	
24	FM	eL	18 04 00	LT	21	10.0	(2)	
24	DH	e	18 11 50	LT	20	82.0	(1)	
24	DH	eP	18 27 30.6	Z	0.3	10.0	(0)	1.8
		eS	18 27 55	R	0.5	35.0	(0)	
24	DH	eP	20 11 07.8	Z	1.0	39.0	(0)	
24	DH	eP	20 31 06.2	Z	0.3	7.0	(0)	5.0
		eS	20 32 07	R	0.4	41.0	(0)	
24	LC	eP	21 25 23.3	Z	0.3	0.9	(0)	
24	LC	e	21 25 50	Z	0.5	2.3	(0)	
24	LC	eL	21 27 32	R	0.5	10.0	(0)	
24	CP	eP	22 18 29.3	Z	0.3	37.0	(0)	0.8
		eS	22 18 40	T	0.3	46.0	(0)	
24	22 53 09.9		17.9 S 168.4 E				NEW HEBRIDES ISLANDS	
			H =041 KM					
25	03 38 48.9		17.8 S 167.7 E				NEW HEBRIDES ISLANDS	
			H =033 KM					
25	MV	eP	03 51 33.1	Z	1.0	5.1	(0)	87.0
25	MN	eP	03 51 40.4	Z	1.0	5.7	(0)	89.0
25	WI	eP	03 51 50.6	Z	1.3	11.0	(0)	91.0
							AVG.	4.79
25	MN	eP	07 17 46.3	Z	1.1	3.0	(0)	
25	FM	eP	07 47 41.2	Z	0.9	9.1	(0)	
25	MN	eP	07 47 56.5	Z	1.0	4.9	(0)	
25	WI	eP	07 48 05.6	Z	1.0	13.0	(0)	
25	FM	e	07 48 09	Z	0.9	6.8	(0)	
25	WI	e	07 48 33	Z	1.0	11.0	(0)	
25	09 34 14.6		03.0 N 126.7 E				MOLUCCA PASSAGE	
			H =033 KM					
25	MV	eP	09 48 19.7	Z	999.9	99.9	(9)	105.0
		ePP	09 52 35	Z	2.0	32.0	(0)	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
25	WI	ePD	09 48 28.8	Z	1.0	3.6 (0)	107.0	5.45				
		e	09 51 29	Z	1.0	2.9 (0)						
		ePP	09 52 53	LZ	15	24.0 (1)						
		ePP	09 52 54	Z	1.6	38.0 (0)						
		eSKS	09 59 08	LT	20	32.0 (1)						
		ePS	10 02 10	LT	19	56.0 (1)						
		ePKKP1	10 03 54	Z	1.2	14.0 (0)						
		ePKKP2	10 04 08	Z	1.6	62.0 (0)						
		eSKKP	10 07 53	Z	1.5	9.8 (0)						
		eLQ	10 18 35	LR	43	13.0 (2)						
		eLR	10 23 42	LZ	35	32.0 (2)						
		eL	10 27 00	LZ	27	19.0 (2)						
		eL	10 27 00	LR	26	48.0 (1)						
		eL	10 27 00	LT	27	14.0 (2)						
		25	MN	ePD	09 48 30.8	Z			1.2	7.6 (0)	108.0	5.60
				e	09 51 39	Z			1.1	2.0 (0)		
				ePP	09 52 50	Z			2.0	10.0 (1)		
				eSKS	09 59 08	LR			20	24.0 (1)		
ePS	10 02 15			LR	21	62.0 (1)						
ePKKP	10 03 53			Z	1.2	5.0 (0)						
ePSPS	10 08 50			LR	27	62.0 (1)						
eSSS	10 12 41			LR	28	47.0 (1)						
eLQ	10 18 50			LT	40	13.0 (2)						
eLR	10 23 55			LZ	999.9	99.9 (9)						
eL	10 26 20			LZ	25	11.0 (2)						
eL	10 26 20			LR	26	11.0 (2)						
eL	10 26 20			LT	25	77.0 (1)						
25	TF			ePP	09 52 56	Z	2.0	11.0 (1)	107.0			
				ePS	10 02 13	LZ	22	41.0 (1)				
				eL	10 23 30	LZ	28	90.0 (1)				
				eL	10 30 02	LZ	20	22.0 (2)				
				eL	10 30 02	LR	20	14.0 (2)				
		eL	10 30 02	LT	20	14.0 (2)						
25	LC	eP†	09 52 59.3	Z	1.0	17.0 (0)	118.0					
		ePP	09 54 10	Z	1.9	51.0 (0)						
		ePKKP	10 03 15.9	Z	1.1	15.0 (0)						
		ePS	10 04 00	LR	23	66.0 (1)						
		eSKKP	10 06 51	Z	1.0	3.7 (0)						
		eLR	10 35 05	LZ	20	11.0 (2)						
25	SJ	eP†	09 53 19.0	Z	1.0	40.0 (0)	128.0					
		ePP	09 55 15	Z	2.0	25.0 (1)						
		eL	10 35 36	LR	25	12.0 (2)						
25	FM	ePP	09 53 21	Z	1.6	31.0 (0)	112.0					
		ePS	10 02 58	LT	16	78.0 (1)						
		ePKKP	10 03 39.5	Z	1.0	4.7 (0)						
		eLR	10 26 16	LZ	35	30.0 (2)						
		eL	10 27 50	LZ	28	21.0 (2)						
		eL	10 27 50	LR	29	14.0 (2)						
25	DH	eP†	09 53 24.5	Z	1.5	57.0 (0)	130.0					
		eSKP	09 56 41	Z	1.5	17.0 (1)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	10 38 13	LZ	38	85.0 (1)		
		eL	10 44 53	LZ	25	13.0 (2)		
		eL	10 44 53	LR	27	12.0 (2)		
		eL	10 44 53	LT	24	34.0 (1)		
AVG.								5.53
25	12 36	54.4	15.4 S 179.0 W	FIJI ISLANDS REGION				
H = 392 KM								
25	TF	eP	12 47 56.7	Z	0.6	19.0 (0)	75.0	5.00
25	MV	eP	12 48 03.0	Z	0.9	21.0 (0)	76.0	4.87
25	MN	eP	12 48 12.1	Z	0.8	18.0 (0)	78.0	4.86
		epP	12 49 44	Z	1.0	4.1 (0)		
25	WI	eP	12 48 23.0	Z	0.7	17.0 (0)	80.0	4.89
25	FM	eP	12 48 36.6	Z	0.8	7.4 (0)	83.0	4.47
		epP	12 50 14	Z	1.9	50.0 (0)		
25	LC	eP	12 48 43.4	Z	0.7	14.0 (0)	84.0	4.81
		epP	12 50 08	Z	1.3	9.5 (0)		
AVG.								4.82
25	LC	eP	14 16 13.1	Z	1.0	2.5 (0)		
25	15 29	06.0	16.9 S 167.5 E	NEW HEBRIDES ISLANDS				
H = 033 KM								
25	15 52	29.2	08.4 N 082.6 W	PANAMA-COSTA RICA BORDER				
H = 051 KM								
25	SJ	eP	15 57 52.0	Z	1.0	80.0 (0)	25.0	5.25
		eS	16 02 00	LT	30	18.0 (2)		
		eL	16 03 36	LT	34	11.0 (3)		
25	LC	eP	15 58 58.2	Z	0.8	4.3 (0)	32.0	4.34
		eS	16 04 25	LR	27	19.0 (2)		
		eL	16 08 30	LR	27	30.0 (2)		
25	DH	eP	15 59 12.1	Z	0.9	19.0 (0)	34.0	4.97
		eS	16 04 46	LT	24	32.0 (2)		
		eLQ	16 07 33	LR	36	88.0 (2)		
		eLR	16 11 50	LZ	26	49.0 (2)		
		eL	16 11 50	LR	25	16.0 (3)		
		eL	16 11 50	LT	22	94.0 (2)		
25	FM	eP	16 00 06.1	Z	1.3	23.0 (0)	41.0	4.79
		eP	16 00 08	LZ	18	36.0 (1)		
		ePP	16 01 50	LZ	18	59.0 (1)		
		ePCP	16 02 07	Z	0.9	6.8 (0)		
		eS	16 06 03	LT	22	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	MN	eLQ	16 10 00	LR	36	31.0 (2)	44.0	4.93
		eLR	16 17 20	LZ	25	24.0 (1)		
		eL	16 17 20	LR	23	86.0 (1)		
		eL	16 17 20	LT	26	37.0 (2)		
		eP	16 00 29.6	Z	1.0	27.0 (0)		
		eP	16 00 31	LZ	16	56.0 (1)		
		ePP	16 02 22	LZ	21	18.0 (1)		
		eS	16 07 10	LR	19	48.0 (1)		
		eS	16 07 10	LT	30	57.0 (1)		
		eL	16 11 11	LZ	999.9	99.9 (9)		
25	TF	eP	16 00 29.7	Z	1.0	34.0 (0)	44.0	5.04
		eP	16 00 34	LZ	15	81.0 (1)		
		eS	16 07 11	LT	24	22.0 (2)		
		eLQ	16 11 31	LR	36	36.0 (2)		
		eLR	16 15 11	LZ	24	54.0 (2)		
		eL	16 17 06	LZ	24	54.0 (2)		
		eL	16 17 06	LR	25	46.0 (2)		
		eL	16 17 06	LT	23	33.0 (2)		
		eP	16 00 41.5	Z	0.9	11.0 (0)		
		eP	16 00 45	LZ	17	50.0 (1)		
25	WI	eS	16 07 30	LR	24	94.0 (1)	45.0	4.69
		eS	16 07 30	LT	21	60.0 (1)		
		e	16 10 53	LT	29	68.0 (1)		
		eLQ	16 13 08	LT	29	26.0 (2)		
		eLR	16 16 25	LR	30	22.0 (2)		
		eL	16 20 05	LZ	25	28.0 (2)		
		eL	16 20 05	LR	24	26.0 (2)		
		eL	16 20 05	LT	26	32.0 (2)		
		eP	16 00 51.0	Z	0.9	5.3 (0)		
				AVG.				
							4.86	
25	SJ	eP	16 02 20.2	Z	1.1	37.0 (0)		
25	LC	eP	16 03 33.5	Z	1.1	9.1 (0)		
25	DH	eP	16 03 50.4	Z	1.0	35.0 (0)		
25	FM	eP	16 04 40.8	Z	1.3	15.0 (0)		
25	TF	eP	16 05 03.2	Z	1.2	27.0 (0)		
25	MN	eP	16 05 06.5	Z	1.5	48.0 (0)		
25	WI	eP	16 05 16.4	Z	1.0	6.7 (0)		
25	MV	eP	16 05 25.0	Z	1.3	12.0 (0)		
25	FM	e	16 06 43	Z	1.0	8.9 (0)		
25	MN	eP	17 35 51.4	Z	0.5	2.5 (0)	3.4	
		eS	17 36 34	Z	0.7	7.4 (0)		
25	20 06 10.0	61.4 S 154.9 E	S.W. OF MACQUARIE ISLANDS					
		H = 033 KM						
25	MN	eP	20 25 00.0	Z	0.8	1.9 (0)	122.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
25	MV	e	20 34 45	LR	24	27.0 (1)	44.0	4.93	
		ePS	20 36 38	LT	23	37.0 (1)			
		e	20 40 44	LR	20	24.0 (1)			
		eSS	20 43 27	LR	23	15.0 (2)			
		eSSS	20 47 44	LR	26	99.0 (1)			
		e	20 50 40	LR	29	55.0 (1)			
		e	20 54 05	LR	29	58.0 (1)			
		eLQ	20 56 15	LR	41	32.0 (2)			
		eLR	21 00 40	LZ	999.9	99.9 (9)			
		eP	20 25 00.0	Z	0.9	4.8 (0)			121.0
25	LC	eP	20 25 01.8	Z	0.8	1.5 (0)	44.0	5.04	
		eSS	20 43 35	LR	26	15.0 (2)			
		eSSS	20 47 55	LR	23	66.0 (1)			
		eLQ	20 57 20	LR	38	43.0 (2)			
		eLR	21 02 14	LZ	28	25.0 (2)			
		eP	20 25 06.9	Z	1.2	10.0 (0)			124.0
		ePS	20 37 09	LT	20	20.0 (1)			
		eSS	20 43 50	LR	26	13.0 (2)			
		eSSS	20 48 18	LT	23	10.0 (2)			
		e	20 51 40	LR	33	59.0 (1)			
25	WI	e	20 55 00	LT	31	69.0 (1)	45.0	4.69	
		eLQ	20 57 40	LR	55	72.0 (2)			
		eLR	21 02 24	LZ	25	15.0 (2)			
		eL	21 08 00	LZ	20	27.0 (2)			
		eL	21 08 00	LR	20	14.0 (2)			
		eL	21 08 00	LT	21	26.0 (2)			
		eP	20 25 42.5	Z	1.0	87.0 (0)			145.0
		ePS	20 39 45	LR	38	22.0 (2)			
		eSSS	20 53 10	LT	35	23.0 (2)			
		eLQ	21 09 20	LR	35	23.0 (2)			
25	DH	eLR	21 16 12	LZ	30	27.0 (2)	45.0	4.69	
		eL	21 19 03	LZ	24	10.0 (2)			
		eL	21 19 03	LR	24	12.0 (2)			
		eL	21 19 03	LT	30	11.0 (2)			
		ePS	20 36 15	LR	23	49.0 (1)			117.0
		eSS	20 42 45	LT	27	21.0 (2)			
		e	20 44 06	LR	20	90.0 (1)			
		eLQ	20 54 33	LT	28	27.0 (2)			
		eLR	21 00 19	LZ	23	35.0 (2)			
		eL	21 05 01	LZ	19	59.0 (2)			
25	FM	eL	21 05 01	LR	19	40.0 (2)	45.0	4.69	
		eL	21 05 01	LT	20	15.0 (2)			
		ePS	20 37 08	LZ	17	20.0 (1)			125.0
		eSS	20 44 09	LT	27	18.0 (2)			
		eSSS	20 48 44	LT	25	16.0 (2)			
		eLQ	20 58 15	LT	37	56.0 (2)			
		eLR	21 04 20	LZ	26	14.0 (2)			
		eL	21 09 45	LZ	20	20.0 (2)			
		eL	21 09 45	LR	20	14.0 (2)			
		eL	21 09 45	LT	20	14.0 (2)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	LC	eP	20 38 24.5	Z	0.2	20.0 (0)	1.3	
		eS	20 38 41	T	0.4	16.0 (0)		
25	MV	eP	21 31 24.0	Z	0.9	5.3 (0)		
25	MN	eP	21 31 27.4	Z	0.7	2.5 (0)		
25	LC	eP	21 31 51.3	Z	1.0	4.9 (0)		
25	21 49 37.5		33.3 N 046.1 E H =033 KM				IRAQ-IRAN BORDER	
25	LC	eP	23 44 30.9	Z	1.0	2.5 (0)		
26	07 20 25.8		17.7 S 167.5 E H =033 KM				NEW HEBRIDES ISLANDS	
26	TF	eP	07 33 08.4	Z	1.0	19.0 (0)	87.0	5.21
		eP	07 33 09	LZ	15	56.0 (1)		
		eS	07 43 45	LT	20	52.0 (1)		
		eS	07 43 45	LR	26	41.0 (1)		
		ePS	07 44 55	LR	22	79.0 (1)		
		eLQ	07 56 20	LT	30	18.0 (2)		
		eLR	08 01 15	LZ	21	27.0 (2)		
		eL	08 01 15	LR	21	20.0 (2)		
		eL	08 01 15	LT	20	62.0 (1)		
26	MV	eP	07 33 10.0	Z	0.8	9.7 (0)	87.0	5.02
26	MN	eP	07 33 15	LZ	15	30.0 (1)	89.0	
		eS	07 44 03	LR	20	28.0 (1)		
		eS	07 44 03	LT	17	55.0 (1)		
		ePS	07 45 21	LT	21	47.0 (1)		
		eSS	07 50 06	LT	21	54.0 (1)		
		eSSS	07 53 30	LT	20	30.0 (1)		
		eLQ	07 56 50	LR	30	68.0 (1)		
		eLR	08 01 10	LZ	25	39.0 (1)		
		eL	08 07 00	LZ	18	12.0 (2)		
		eL	08 07 00	LR	18	71.0 (1)		
		eL	08 07 00	LT	18	90.0 (1)		
26	MN	eL	09 43 00	LZ	25	20.0 (1)	271.0	
26	CP	eP	07 33 15.2	Z	0.8	6.7 (0)	89.0	5.86
		eP	07 33 17	LZ	20	23.0 (1)		
		eS	07 44 03	LT	18	60.0 (1)		
		eS	07 44 03	LR	17	25.0 (1)		
		ePS	07 45 15	LT	21	64.0 (1)		
		eSS	07 50 35	LT	18	10.0 (1)		
		eLQ	07 56 45	LR	25	17.0 (2)		
		eLR	08 00 17	LZ	20	70.0 (1)		
26	WI	eP	07 33 27.5	Z	1.0	13.0 (0)	91.0	5.18

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	07 33 30	LZ	15	25.0 (1)		
		eS	07 44 25	LR	16	73.0 (1)		
		eS	07 44 25	LT	15	31.0 (1)		
		ePS	07 45 40	LT	22	76.0 (1)		
		eSS	07 50 28	LR	25	32.0 (1)		
		eLQ	07 57 31	LR	25	59.0 (1)		
		eLR	08 02 00	LZ	30	83.0 (1)		
		eL	08 06 25	LZ	20	98.0 (1)		
		eL	08 06 25	LR	16	50.0 (1)		
		eL	08 06 25	LT	21	10.0 (2)		
26	WI	eL	09 45 25	LZ	22	24.0 (1)	269.0	
26	FM	eP	07 33 45	LZ	15	18.0 (1)	95.0	
		eS	07 44 55	LT	18	58.0 (1)		
		ePS	07 46 15	LR	21	60.0 (1)		
		eLQ	07 58 32	LT	35	82.0 (1)		
		eLR	08 05 40	LZ	21	82.0 (1)		
		eL	08 05 40	LR	20	51.0 (1)		
		eL	08 05 40	LT	20	41.0 (1)		
		eL	09 40 30	LZ	20	23.0 (1)		
26	LC	eS	07 45 21	LT	25	37.0 (1)	97.0	
		eS	07 45 21	LR	20	24.0 (1)		
		ePS	07 46 44	LR	20	40.0 (1)		
		eSS	07 52 10	LR	20	72.0 (1)		
		eLQ	08 00 45	LT	26	95.0 (1)		
		eLR	08 06 05	LZ	20	56.0 (1)		
		eL	08 06 05	LR	20	24.0 (1)		
		eL	08 06 05	LT	22	37.0 (1)		
26	DH	eSS	07 58 00	LR	23	75.0 (1)	123.0	
		eLQ	08 15 00	LT	25	98.0 (1)		
		eLR	08 20 05	LZ	20	36.0 (1)		
		eL	08 25 00	LZ	18	10.0 (2)		
		eL	08 25 00	LR	20	47.0 (1)		
		eL	08 25 00	LT	20	23.0 (1)		
26	SJ	eL	08 03 00	LT	35	14.0 (2)	100.0	
		eL	08 06 30	LZ	15	37.0 (1)		
		eL	08 06 30	LR	18	38.0 (1)		
		eL	08 06 30	LT	18	15.0 (2)		
							AVG.	5.32
26	FM	eP	09 48 06.8	Z	0.3	6.2 (0)	2.4	
		eS	09 48 38	R	0.3	14.0 (0)		
26	11 26 12.4		33.7 N 027.9 E H =033 KM				EASTERN MEDITERRANEAN SEA	
26	WI	eL	12 13 20	LZ	50	25.0 (1)	99.0	
26	MN	eL	12 15 00	LZ	45	63.0 (1)	102.0	
		eL	12 21 15	LZ	25	20.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	12 21 15	LR	25	20.0 (1)		
		eL	12 21 15	LT	25	22.0 (1)		
26	CP	eP	12 57 16.2	Z	0.3	8.2 (0)	1.2	
		eS	12 57 31	T	0.4	60.0 (0)		
26	LC	eP	15 04 35.5	Z	0.2	14.0 (0)	1.4	
		eS	15 04 52	T	0.3	6.9 (0)		
26	LC	eP	15 15 59.0	Z	0.5	2.3 (0)	1.9	
		eS	15 16 25	T	0.5	4.6 (0)		
26	15 58 34.8		55.5 S 026.5 W				SANDWICH ISLANDS	
			H = 033 KM					
26	MV	ePKP	16 17 31.2	Z	1.0	8.2 (0)	124.0	
26	MN	ePS	16 28 55	LR	25	18.0 (1)	122.0	
		ePPS	16 30 20	LR	20	20.0 (1)		
		eSS	16 35 55	LR	20	20.0 (1)		
		eL	16 58 40	LZ	24	49.0 (1)		
		eL	17 07 10	LZ	20	32.0 (1)		
		eL	17 07 10	LR	20	32.0 (1)		
		eL	17 07 10	LT	20	28.0 (1)		
26	SJ	eL	16 50 35	LR	20	89.0 (1)	103.0	
26	DH	eL	16 54 30	LZ	20	55.0 (1)	107.0	
		eL	16 56 00	LZ	21	10.0 (2)		
		eL	16 56 00	LR	21	47.0 (1)		
		eL	16 56 00	LT	21	41.0 (1)		
26	LC	eL	16 55 22	LZ	25	75.0 (1)	112.0	
		eL	16 55 22	LR	25	63.0 (1)		
		eL	16 55 22	LT	25	46.0 (1)		
26	CP	eL	16 55 48	LZ	27	82.0 (1)	116.0	
		eL	16 59 00	LZ	20	56.0 (0)		
		eL	16 59 00	LR	20	35.0 (1)		
		eL	16 59 00	LT	20	38.0 (0)		
26	TF	eL	16 58 12	LZ	23	51.0 (1)	119.0	
26	WI	eL	16 58 36	LZ	35	67.0 (1)	124.0	
		eL	17 03 10	LZ	23	94.0 (1)		
		eL	17 03 10	LR	23	83.0 (1)		
		eL	17 03 10	LT	25	36.0 (1)		
26	FM	eL	17 00 05	LZ	24	50.0 (1)	120.0	
		eL	17 04 30	LZ	18	59.0 (1)		
		eL	17 04 30	LR	15	32.0 (1)		
		eL	17 04 30	LT	20	70.0 (1)		
26	20 22 58.6		00.1 N 124.1 E				NORTHERN CELEBES	
			H = 112 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	DH	eP	21 19 40.0	Z	0.5	15.0 (0)	5.0	
		eS	21 20 00	R	0.5	23.0 (0)		
26	22 09 05.0		55.7 S 026.5 W				SANDWICH ISLANDS	
			H = 033 KM					
27	CP	eP	02 11 23.8	Z	0.7	5.7 (0)		
27	FM	eP	02 11 37.7	Z	0.7	8.5 (0)		
27	WI	eP	02 12 01.7	Z	0.5	7.7 (0)		
27	LC	eP	06 13 55.6	Z	0.9	0.9 (0)		
27	SJ	eL	06 40 12	LR	25	71.0 (1)		
27	CP	eL	06 42 23	LZ	25	61.0 (1)		
27	TF	eL	06 43 18	LZ	22	81.0 (1)		
27	MN	eL	06 44 50	LZ	28	67.0 (1)		
27	FM	eL	06 46 01	LZ	30	50.0 (1)		
27	WI	eL	06 46 35	LZ	24	68.0 (1)		
27	MN	eL	06 46 35	LZ	21	55.0 (1)		
27	MN	eL	06 46 35	LR	22	38.0 (1)		
27	MN	eL	06 46 35	LT	23	42.0 (1)		
27	FM	eL	06 47 57	LZ	22	43.0 (1)		
27	FM	eL	06 47 57	LR	20	19.0 (1)		
27	FM	eL	06 47 57	LT	21	42.0 (1)		
27	WI	eL	06 48 40	LZ	20	50.0 (1)		
27	WI	eL	06 48 40	LR	20	44.0 (1)		
27	WI	eL	06 48 40	LT	20	37.0 (1)		
27	08 10 24.5		14.0 N 090.4 W				GUATEMALA BORDER	
			H = 107 KM					
27	SJ	eP	08 13 54.6	Z	0.7	86.0 (0)	15.0	5.10
		eS	08 16 58	LR	22	15.0 (2)		
		eL	08 18 17	LR	20	99.9 (9)		
		eL	08 18 53	LR	28	54.0 (2)		
27	LC	eP	08 15 25.6	Z	0.5	53.0 (0)	24.0	5.24
		ePCP	08 19 27	Z	1.0	17.0 (0)		
		eL	08 19 23	LZ	27	60.0 (1)		
		eL	08 25 10	LZ	25	47.0 (1)		
		eL	08 25 10	LR	25	67.0 (1)		
		eL	08 25 10	LT	17	36.0 (1)		
27	CP	eP	08 16 25.9	Z	0.8	10.0 (0)	30.0	4.60
		epP	08 16 40	Z	0.8	20.0 (0)		
		ePCP	08 19 26	Z	0.8	14.0 (0)		
		epPCP	08 19 42	Z	0.8	14.0 (0)		
		eL	08 26 25	LZ	25	11.0 (2)		
		eL	08 28 05	LR	20	86.0 (1)		
		eL	08 28 05	LZ	23	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	DH	eP	08 16 37.0	Z	0.7	29.0 (0)	31.0	5.12
		epP	08 16 52	Z	0.9	10.0 (1)		
		eL	08 26 11	LZ	30	95.0 (1)		
		eL	08 29 10	LZ	24	23.0 (2)		
		eL	08 29 10	LR	23	68.0 (1)		
27	NG	eL	08 29 10	LT	24	13.0 (2)	32.0	4.75
		eP	08 16 39.4	Z	0.6	11.0 (0)		
		epP	08 16 55	Z	0.5	9.8 (0)		
		e	08 17 37	Z	1.0	17.0 (0)		
		ePCP	08 19 30	Z	0.7	11.0 (0)		
27	FM	eP	08 16 40.1	Z	0.6	40.0 (0)	32.0	5.31
		ePCP	08 19 31	Z	0.9	13.0 (0)		
		eL	08 26 19	LZ	30	55.0 (1)		
		eL	08 30 30	LZ	26	40.0 (1)		
		eL	08 30 30	LR	20	19.0 (1)		
27	TF	eL	08 30 30	LT	25	50.0 (1)	34.0	4.63
		eP	08 16 59.2	Z	0.8	9.0 (0)		
		ePCP	08 19 36	Z	0.7	12.0 (0)		
		epPCP	08 19 52	Z	0.9	22.0 (0)		
		eL	08 28 10	LZ	24	15.0 (2)		
27	MN	eP	08 17 06.0	Z	0.8	65.0 (0)	35.0	5.59
		eS	08 22 41	LR	20	24.0 (1)		
		eSS	08 25 30	LZ	22	22.0 (1)		
		eL	08 27 30	LZ	38	64.0 (1)		
		eL	08 30 35	LZ	25	66.0 (1)		
27	WI	eL	08 30 35	LR	24	85.0 (1)	36.0	5.85
		eL	08 30 35	LT	20	13.0 (2)		
		eP	08 17 18.0	Z	0.8	12.0 (1)		
		epP	08 17 32	Z	0.7	90.0 (0)		
		ePCP	08 19 42	Z	0.8	14.0 (0)		
27	MV	epPCP	08 19 59	Z	0.6	14.0 (0)	38.0	4.65
		eP	08 17 25.6	Z	0.8	7.5 (0)		
		ePCP	08 19 46	Z	1.0	11.0 (0)		
		epPCP	08 20 01	Z	1.0	25.0 (0)		
27	LC	eP	10 41 52.0	Z	1.0	2.5 (0)		
27	CP	eP	12 49 59.6	Z	999.9	99.9 (9)		
27	13 33 03.6	18.0 S 167.4 E	NEW HEBRIDES ISLANDS					
		H =033 KM						
27	13 52 51.2	11.5 N 086.4 W	W. COAST OF NICARAGUA					
		H =080 KM						
27	SJ	eP	13 57 14.5	Z	1.0	23.0 (1)	20.0	5.45

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
27	LC	eP	13 58 35.0	Z	1.0	20.0 (0)	28.0	4.74				
		epP	13 58 36	LZ	21	19.0 (1)						
		ePCP	14 01 50	Z	1.0	8.6 (0)						
		e	14 03 50	LR	20	42.0 (1)						
		eS	14 03 25	LR	20	42.0 (1)						
		eSCP	14 05 30	Z	1.5	14.0 (0)						
		eLQ	14 07 35	LT	29	95.0 (1)						
		eLR	14 15 15	LZ	18	18.0 (2)						
		eL	14 15 15	LR	18	19.0 (2)						
		eL	14 15 15	LT	20	47.0 (1)						
27	DH	eP	13 59 14.6	Z	0.9	48.0 (0)	32.0	5.27				
		eS	14 04 55	LT	23	11.0 (2)						
		eLQ	14 08 08	LR	39	19.0 (2)						
		eLR	14 10 00	LR	21	12.0 (2)						
		eL	14 11 50	LZ	25	15.0 (2)						
		eL	14 11 50	LR	20	25.0 (2)						
		eL	14 11 50	LT	20	13.0 (2)						
		27	NG	eP	13 59 29.5	Z			0.6	13.0 (0)	34.0	4.95
				27	CP	eP			13 59 36.2	Z		
		eLQ	14 09 07			LR			35	18.0 (2)		
eLR	14 15 00	LZ	20			19.0 (2)						
eL	14 15 00	LR	20			96.0 (1)						
eL	14 15 00	LT	20			23.0 (2)						
27	FM	eP	13 59 45.7			Z	0.6	5.8 (0)	36.0	4.67		
		eS	14 05 35			LT	28	46.0 (1)				
		eLR	14 11 38			LZ	28	64.0 (1)				
		eL	14 16 50	LZ	21	14.0 (2)						
		eL	14 16 50	LR	22	48.0 (1)						
27	TF	eL	14 16 50	LT	20	15.0 (2)	39.0	4.40				
		eP	14 00 08.6	Z	0.5	2.9 (0)						
		eL	14 13 37	LZ	25	27.0 (2)						
		27	MN	eP	14 00 14	LZ			16	14.0 (1)	39.0	
				eS	14 06 17	LR			28	30.0 (1)		
eL	14 09 30			LT	32	47.0 (1)						
27	WI	eP	14 00 22.8	Z	0.8	8.2 (0)	40.0	4.57				
		eLQ	14 12 45	LT	30	10.0 (2)						
		eLR	14 17 10	LZ	25	61.0 (1)						
		eL	14 17 10	LR	21	10.0 (2)						
		eL	14 17 10	LT	23	16.0 (2)						
27	MV	eP	14 00 33.0	Z	1.2	6.5 (0)	42.0	4.31				
		ePCP	14 02 28.8	Z	1.1	10.0 (0)						
							AVG.	4.80				
27	16 02 04.8	38.6 N 070.4 E	TADZHIK, S.S.R.									
		H =135 KM										
27	16 19 30.7	52.1 N 171.1 W	RAT IS., ALEUTIAN ISLANDS									
		H =060 KM										

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	CP	eP	16 27 31.1	Z	1.0	5.7 (0)	44.0	4.26
27	LC	eP	16 28 19.3	Z	1.0	4.9 (0)	50.0	4.39
27	NG	eP	16 28 35.0	Z	1.0	17.0 (0)	52.0	4.99
27	DH	eP	16 29 42.3	Z	0.8	20.0 (0)	61.0	5.24
							AVG.	4.72
27	CP	eP	20 59 36.0	Z	999.9	99.9 (9)		
27	LC	eP	21 26 10.0	Z	1.0	3.2 (0)		
27	LC	eP	22 23 10.6	Z	1.0	3.7 (0)		
27	22 28 56.5		07.4 S 156.5 E				SOLOMON ISLANDS	
			H = 014 KM					
27	CP	eL	23 11 12	LZ	25	53.0 (1)	93.0	
27	LC	eL	23 15 24	LZ	30	33.0 (1)	100.0	
		eL	23 16 45	LZ	25	37.0 (1)		
		eL	23 16 45	LR	25	33.0 (1)		
		eL	23 16 45	LT	25	19.0 (1)		
28	MN	eP	01 15 12.5	Z	1.3	8.0 (0)		
28	CP	eP	09 00 01.0	Z	999.9	99.9 (9)		
28	CP	eP	09 01 41.5	Z	999.9	99.9 (9)	0.9	
		eS	09 01 53	T	999.9	99.9 (9)		
28	12 06 21.5		14.8 N 110.7 E				OFF W. COAST LUZON, P. I.	
			H = 115 KM					
28	MN	eP	12 07 24.9	Z	1.0	2.5 (0)		
28	MV	eP	13 03 43.0	Z	0.9	2.6 (0)		
28	CP	eP	13 05 25.0	Z	1.0	5.7 (0)		
28	LC	eP	13 06 38.9	Z	0.9	1.9 (0)		
28	DH	eL	13 29 00	LR	23	60.0 (1)		
28	LC	eL	13 39 38	LZ	28	37.0 (1)		
28	LC	eL	13 45 06	LZ	20	44.0 (1)		
28	LC	eL	13 45 06	LR	19	55.0 (1)		
28	LC	eL	13 45 06	LT	20	19.0 (1)		
28	WI	eL	13 47 33	LT	18	63.8 (1)		
28	WI	eL	13 50 00	LZ	21	45.0 (1)		
28	WI	eL	13 50 00	LR	15	30.0 (1)		
28	WI	eL	13 50 00	LT	21	43.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	14 01 11.2		32.3 S 178.8 W				KERMADEC ISLANDS REGION	
			H = 033 KM					
28	15 00 17.0		00.1 N 123.6 E				NORTHERN CELEBES	
			H = 061 KM					
28	WI	eP	15 18 46.7	Z	1.0	4.4 (0)	112.0	
		ePKKP	15 29 52	Z	1.0	6.7 (0)		
28	MN	eP	15 18 47.8	Z	0.9	2.6 (0)	112.0	
28	CP	eP	15 18 53.5	Z	0.7	5.0 (0)	115.0	
28	LC	eP	15 19 09.1	Z	1.0	20.0 (0)	122.0	
		e	15 19 43	Z	1.0	4.9 (0)		
28	17 49 32.0		37.2 N 141.8 E				NEAR HONSHU, JAPAN	
			H = 048 KM					
28	MN	eP	18 01 09.0	Z	1.2	5.0 (0)	75.0	4.33
28	22 53 01.3		16.0 N 093.6 W				CHIAPAS, MEXICO	
			H = 110 KM					
28	SJ	eP	22 55 54.8	Z	0.8	99.9 (9)	12.0	
		eP	22 55 55	LZ	12	25.0 (2)		
		eS	22 58 05	T	0.9	14.8 (1)		
		eS	22 58 14	LR	14	15.0 (2)		
		eLQ	22 59 20	LR	30	50.0 (2)		
28	LC	eP	22 57 28.0	Z	999.9	99.9 (9)	20.0	
		eP	22 57 28	LZ	14	35.0 (1)		
		eS	23 01 23	LT	23	12.0 (1)		
		eS	23 01 23	LR	20	76.0 (1)		
		eL	23 03 35	LZ	33	18.0 (2)		
		eL	23 04 45	LR	17	91.0 (1)		
		eL	23 04 45	LT	25	13.0 (2)		
28	CP	eP	22 58 29.6	Z	0.7	7.2 (0)	27.0	4.35
		eL	23 05 22	LT	25	64.0 (1)		
		eL	23 08 07	LZ	17	10.0 (2)		
		eL	23 08 07	LR	13	22.0 (2)		
		eL	23 08 07	LT	18	17.0 (2)		
28	FM	eP	22 58 46.1	Z	0.5	11.0 (0)	28.0	4.75
		eP	22 58 47	LZ	17	20.0 (1)		
		eS	23 03 36	LT	25	80.0 (1)		
		eS	23 04 21	LR	20	37.0 (1)		
		e	23 07 21	LZ	38	13.0 (1)		
		eLR	23 10 21	LZ	25	50.0 (1)		
		eL	23 12 31	LZ	17	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
		eL	23 12 31	LR	15	72.8 (1)			
		eL	23 12 31	LT	15	16.0 (2)			
28	TF	eP	22 59 03.5	Z	1.0	6.7 (0)	30.0	4.44	
		eS	23 04 10	LT	23	99.9 (9)			
		eS	23 04 10	LR	20	44.0 (1)			
		eLQ	23 07 37	LR	32	20.0 (2)			
		eLR	23 09 27	LZ	25	88.0 (1)			
		eL	23 09 27	LR	25	22.0 (2)			
		eL	23 09 27	LT	16	99.9 (9)			
28	NG	eP	22 59 05.0	Z	0.7	26.0 (0)	30.0	5.07	
28	DH	eP	22 59 08.0	Z	0.5	7.5 (0)	31.0	4.67	
		eS	23 04 11	LT	22	44.0 (1)			
		eLQ	23 05 55	LT	20	58.0 (1)			
		eLR	23 08 06	LT	42	23.6 (2)			
		eL	23 10 15	LT	25	18.6 (2)			
		eL	23 10 15	LR	25	70.0 (1)			
28	MN	eP	22 59 11.0	Z	0.9	39.0 (0)	31.0	5.13	
		epP	22 59 41	Z	0.8	20.0 (0)			
28	WI	eP	22 59 24.7	Z	999.9	99.9 (9)	33.0		
		epP	22 59 52	Z	1.3	11.0 (1)			
		eS	23 04 37	LT	21	49.0 (1)			
		eS	23 04 40	T	3.6	99.9 (9)			
		e	23 07 25	LZ	25	54.0 (1)			
		e	23 09 40	LZ	37	17.0 (2)			
		eLQ	23 10 52	LT	20	78.0 (1)			
		eLR	23 14 00	LZ	20	19.0 (2)			
28	MV	eP	22 59 31.6	Z	0.7	3.0 (0)	33.0	4.26	
							AVG.	4.67	
29	00	19 39.7	07.1 N 082.6 W	OFF SOUTH COAST OF PANAMA					
			H = 021 KM						
29	LC	eP	00 26 21.8	Z	1.0	18.0 (0)	34.0	4.94	
		ePCP	00 29 01	Z	1.0	15.0 (0)			
29	DH	eP	00 26 39.5	Z			36.0		
		eL	00 35 05	LR	40	27.0 (2)			
		eL	00 38 50	LZ	25	13.0 (2)			
		eL	00 38 50	LR	25	20.0 (2)			
		eL	00 38 50	LT	28	59.0 (1)			
29	NG	eP	00 27 03.6	Z	0.8	26.0 (0)	39.0	4.97	
29	CP	eP	00 27 19.5	Z	1.0	13.0 (0)	41.0	4.63	
		ePCP	00 29 21	Z	1.0	10.0 (0)			
29	FM	iP	00 27 29.8C	Z	1.0	69.0 (0)	42.0	5.36	
		ePCP	00 29 25	Z	0.9	15.0 (0)			
29	TF	eP	00 27 50.6	Z	1.0	15.0 (0)	44.0	4.68	
		ePCP	00 29 35	Z	1.0	13.0 (0)			
29	MN	iP	00 27 55.1C	Z	999.9	99.9 (9)	45.0		
		ePCP	00 29 35	Z	1.0	17.0 (0)			
29	WI	eP	00 28 04.5	Z			46.0		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
							AVG.	4.92	
29	02	42 56.1	34.3 N 117.0 W	SAN BERNARDINO CTY. CALIF.					
			H = 033 KM	MAG 4.75-5.00 PAS					
29	CP	iP	02 43 22.6D	Z	999.9	99.9 (9)	1.6		
		eP	02 43 23	LZ	15	42.0 (2)			
29	TF	eP	02 43 36.6	Z	0.2	37.0 (0)	2.6		
		eP	02 43 40	LZ	20	13.0 (2)			
		eLG	02 44 10	LT	999.9	99.9 (9)			
29	MN	iP	02 43 59.4D	Z	0.8	24.0 (0)	4.2	4.89	
		eP	02 44 00	LZ	20	67.0 (1)			
		eLG	02 45 00	LT	999.9	99.9 (9)			
29	MV	eP	02 44 24.0	Z	0.5	6.9 (0)	6.0	4.54	
		e	02 44 44	Z	0.6	29.0 (0)			
		eLG	02 45 51	LT	999.9	99.9 (9)			
		eLG	02 45 59	T	999.9	99.9 (9)			
29	FM	eP	02 44 27.4	Z	0.5	17.0 (0)	6.0	5.00	
		e	02 44 47	Z	0.7	46.0 (0)			
		eLG	02 45 50	LT	999.9	99.9 (9)			
		eLG	02 46 07	T	0.7	13.0 (0)			
29	WI	eP	02 44 39.0	Z	0.6	13.0 (0)	7.0	4.97	
		eLG	02 46 16	LR	999.9	99.9 (9)			
29	LC	eP	02 45 01.3	Z	0.5	42.0 (0)	9.0	4.93	
		eLG	02 47 00	LT	22	53.0 (2)			
		e	02 47 20	Z	1.5	10.0 (1)			
		eLG	02 47 28	T	1.5	27.0 (1)			
		eL	02 48 00	LZ	23	18.0 (2)			
		eL	02 48 00	LR	17	30.0 (2)			
		eL	02 48 00	LT	22	53.0 (2)			
29	SJ	eP	02 47 01.0	Z	1.0	41.0 (0)	18.0	4.54	
		eL	02 52 00	LR	14	53.0 (2)			
29	NG	eP	02 48 17.5	Z	0.8	13.0 (0)	25.0	4.61	
		eL	02 55 47	R	2.0	91.0 (0)			
29	DH	eP	02 49 38.0	Z			34.0		
		ePP	02 51 10	Z	1.3	76.0 (0)			
		eL	03 01 15	LT	15	42.0 (2)			
							AVG.	4.78	
29	CP	eP	03 02 08.4	Z	0.2	59.0 (0)	1.6		
29	TF	eP	03 02 22.6	Z	0.3	3.1 (0)	2.8		
		e	03 02 28	Z	0.4	10.0 (0)			
29	CP	eS	03 02 29	T	0.3	9.5 (0)	1.6		
29	TF	eS	03 02 58	T	0.7	27.0 (0)	2.8		
29	MN	eP	03 02 59.0	Z	0.6	6.3 (0)	4.6		
29	WI	eP	03 03 51.0	Z	0.5	2.1 (0)			
29	MN	eS	03 03 55	Z	0.7	5.9 (0)	4.6		
29	WI	eL	03 05 21	T	0.8	5.9 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	CP	eP	03 07 41.0	Z	0.2	57.0 (0)	1.6	
29	TF	eP	03 07 55.6	Z	0.3	11.0 (0)	3.2	
29	CP	eS	03 08 03	T	0.3	48.0 (0)	1.6	
29	MN	eP	03 08 29.3	Z	0.5	5.1 (0)	4.7	
29	TF	eS	03 08 35	T	0.7	71.0 (0)	3.2	
29	MN	eS	03 09 26	T	0.7	4.0 (0)	4.7	
29	FM	eP	03 10 26.8	Z	0.7	2.3 (0)		
29	TF	eL	03 33 30	LZ	30	80.0 (1)		
29	TF	eL	03 39 35	LZ	25	9.7 (1)		
29	TF	eL	03 39 35	LT	23	10.0 (2)		
29	CP	eP	05 35 34.0	Z	999.9	99.9 (9)		
29	TF	eP	05 35 48.3	Z	0.3	7.8 (0)	2.8	
		e	05 35 53	Z	0.3	53.0 (0)		
29	MN	eP	05 36 11.1	Z	0.4	0.5 (0)	6.0	
		e	05 36 24	Z	0.5	13.0 (0)		
29	TF	eS	05 36 24	T	0.5	11.0 (1)	2.8	
29	MV	eP	05 36 49.0	Z	0.4	1.1 (0)		
29	WI	eP	05 37 16.2	Z	0.5	5.0 (0)		
29	MN	eS	05 37 21	T	0.9	17.0 (0)	6.0	
29	MV	eL	05 38 10	R	0.6	10.0 (0)		
29	WI	eL	05 38 48	R	0.6	8.4 (0)		
29	MN	eP	07 37 00.0	Z	1.0	5.8 (0)		
29	FM	eL	08 22 36	LZ	40	66.0 (1)		
29	CP	eL	08 32 50	LZ	32	49.0 (1)		
29	WI	eL	08 35 53	LZ	25	10.0 (2)		
29	FM	eL	08 39 21	LZ	24	35.0 (1)		
29	FM	eL	08 39 21	LR	24	29.0 (1)		
29	FM	eL	08 39 21	LT	23	55.0 (1)		
29	CP	eP	09 25 17.4	Z	0.4	14.0 (0)	1.6	
		eS	09 25 39	T	0.5	57.0 (0)		
29	09 30 48.2		33.9 S 070.7 W			CENTRAL CHILE		
			H =033 KM					
29	LC	eP	09 42 23.4	Z	1.0	15.0 (0)	74.0	4.91
29	CP	eP	09 42 51.2	Z	0.9	4.5 (0)	79.0	4.43
29	FM	eP	09 43 08.6	Z	0.9	66.0 (0)	82.0	4.67
29	MN	eP	09 43 19.3	Z	0.9	2.6 (0)	85.0	4.36
29	WI	eP	09 43 28.3	Z	1.0	2.2 (0)	86.0	4.17
29	MV	eP	09 43 31.3	Z	1.4	7.9 (0)	87.0	4.68
						AVG.		4.54
29	MN	eP	10 34 15.5	Z	1.5	15.0 (0)		
29	WI	eP	10 34 35.0	Z	1.5	16.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	NG	eP	10 46 08.5	Z	0.7	5.2 (0)		
29	LC	eP	10 46 47.6	Z	0.9	4.7 (0)		
29	10 53 29.9		13.0 N 088.4 W			NEAR COAST OF EL SAVADOR		
			H =043 KM					
29	SJ	eP	10 57 31.9	Z	0.6	48.0 (0)	17.0	4.84
		eP AS	10 57 42.7	Z	0.8	79.0 (0)		4.92
		eS	11 00 55	LR	21	57.0 (1)		
		eLQ	11 02 37	LR	31	12.0 (2)		
		eLR	11 05 27	LR	22	24.0 (2)		
29	LC	eP	10 58 56.4	Z	0.7	7.4 (0)	25.0	4.39
		eP AS	10 59 09.6	Z	0.8	8.7 (0)		4.41
29	DH	eP	10 59 52.0	Z	0.6	25.0 (0)	32.0	5.01
		eP AS	11 00 04.0	Z	0.8	23.0 (0)		5.08
29	CP	eP	10 59 56.4	Z	0.6	4.3 (0)	32.0	4.46
		eP AS	11 00 08.3	Z	0.8	16.0 (0)		4.90
		ePCP	11 02 45	Z	0.6	4.9 (0)		
		ePCP AS	11 03 00	Z	0.7	8.1 (0)		
		eL	11 11 37	LZ	25	45.0 (1)		
29	NG	eP	11 00 03.1	Z	0.5	2.6 (0)	33.0	4.38
		eP AS	11 00 15.7	Z	0.8	7.7 (0)		4.64
29	FM	eP	11 00 10.4	Z	0.8	5.1 (0)	34.0	4.46
29	FM	eP AS	11 00 21.6	Z	0.8	51.0 (0)	32.0	4.46
		ePCP	11 02 49	Z	0.8	4.1 (0)	34.0	
		ePCP AS	11 03 03	Z	1.0	5.7 (0)		
29	TF	eP	11 00 30.4	Z	0.6	5.4 (0)	36.0	4.59
		eP AS	11 00 42.1	Z	0.8	7.6 (0)		4.62
		eL	11 13 42	LZ	25	58.0 (1)		
		eL	11 14 55	LZ	25	58.0 (1)		
		eL	11 14 55	LR	18	50.0 (1)		
		eL	11 14 55	LT	25	54.0 (1)		
29	MN	eP	11 00 34.0	Z	0.5	1.3 (0)	37.0	4.01
		eP AS	11 00 46.8	Z	0.8	5.9 (0)		4.45
		ePCP	11 02 58	Z	0.7	7.5 (0)		
		ePCP AS	11 03 11	Z	0.8	7.9 (0)		
		eL	11 12 10	LZ	30	27.0 (1)		
		eL	11 16 50	LZ	22	55.0 (1)		
		eL	11 16 50	LR	20	52.0 (1)		
		eL	11 16 50	LT	20	41.0 (1)		
29	WI	eP	11 00 45.5	Z	0.6	5.5 (0)	38.0	4.55
		eP AS	11 00 58.2	Z	0.8	5.2 (0)		4.40
		ePCP	11 03 01.5	Z	1.0	6.6 (0)		
		ePCP AS	11 03 16	Z	1.0	6.6 (0)		
29	MV	ePCP	11 03 05	Z	1.0	6.6 (0)	38.0	
		ePCP AS	11 03 19	Z	1.0	6.6 (0)		
						AVG.		4.52
						AS .		4.56



DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	13 20 52.4		06.5 S H =064 KM	156.3 E	SOLOMON ISLANDS			
29	CP	eP	14 42 09.1	Z	0.4	26.0 (0)	1.6	
29	TF	eP	14 42 23.7	Z	0.3	3.1 (0)	3.3	
		e	14 42 29	Z	0.4	12.0 (0)		
29	CP	eS	14 42 30	T	999.9	99.9 (9)	1.6	
29	MN	eP	14 42 46.5	Z	0.4	0.4 (0)	5.8	
		e	14 42 59	Z	0.8	2.4 (0)		
29	TF	eS	14 43 05	T	0.5	17.0 (0)	3.3	
29	MN	eS	14 43 55	T	0.8	4.3 (0)	5.8	
29	LC	eP	16 16 27.9	Z	1.8	71.0 (0)		
29	CP	eP	16 16 29.1	Z	1.5	43.0 (0)		
29	TF	eP	16 16 48.3	Z	1.5	51.0 (0)		
29	MN	eP	16 17 08.5	Z	1.4	52.0 (0)		
29	FM	eP	16 17 13.1	Z	1.5	51.0 (0)		
29	MV	eP	16 17 16.5	Z	1.5	24.0 (0)		
29	WI	eP	16 17 28.2	Z	1.5	65.0 (0)		
29	NG	eP	16 18 13.8	Z	1.3	50.0 (0)		
29	SJ	e	16 23 35	LR	34	14.0 (2)		
29	SJ	eL	16 30 43	LR	27	11.0 (2)		
29	MN	e	16 33 17	LR	30	34.0 (1)		
29	LC	eLR	16 34 30	LZ	24	11.0 (2)		
29	TF	eL	16 34 50	LZ	25	97.0 (1)		
29	TF	eL	16 35 25	LZ	23	98.0 (1)		
29	TF	eL	16 35 25	LR	24	43.0 (1)		
29	TF	eL	16 35 25	LT	25	72.0 (1)		
29	LC	eL	16 35 28	LZ	23	11.0 (2)		
29	LC	eL	16 35 28	LR	20	33.0 (1)		
29	LC	eL	16 35 28	LT	21	48.0 (1)		
29	MN	eLR	16 36 44	LZ	24	62.0 (1)		
29	MV	eL	16 36 58	LZ	22	92.0 (1)		
29	MN	eL	16 37 25	LZ	24	62.0 (1)		
29	MN	eL	16 37 25	LR	24	63.0 (1)		
29	MN	eL	16 37 25	LT	25	41.0 (1)		
29	FM	eL	16 37 32	LZ	27	54.0 (1)		
29	MV	eL	16 37 42	LZ	22	92.0 (1)		
29	MV	eL	16 37 42	LR	23	24.0 (1)		
29	MV	eL	16 37 42	LT	23	61.0 (1)		
29	FM	eL	16 38 00	LZ	27	54.0 (1)		
29	FM	eL	16 38 00	LR	25	19.0 (1)		
29	FM	eL	16 38 00	LT	23	39.0 (1)		
29	MN	eP	20 39 49.2	Z	1.1	6.8 (0)		
29	MN	e	20 40 37	Z	1.4	10.0 (0)		
29	21 01 28.5		23.3 S H =033 KM	111.5 W	EASTER ISLAND REGION			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	LC	eP	21 11 04.5	Z	1.5	51.0 (0)	56.0	5.33
		eS	21 19 03	LR	24	77.0 (1)		
		eS	21 19 03	LT	27	51.0 (1)		
		eSS	21 22 55	LT	20	48.0 (1)		
		eLQ	21 25 21	LR	30	16.0 (2)		
		eLR	21 29 06	LZ	23	33.0 (2)		
		eL	21 30 25	LZ	20	33.0 (2)		
		eL	21 30 25	LR	22	65.0 (1)		
		eL	21 30 25	LT	19	17.0 (2)		
29	CP	eP	21 11 05.8	Z	1.5	52.0 (0)	56.0	5.34
		e	21 11 58	Z	2.4	94.0 (0)		
		eLQ	21 25 35	LT	25	20.0 (2)		
		eLR	21 27 58	LZ	25	19.0 (2)		
29	TF	eP	21 11 25.8	Z	1.4	82.0 (0)	59.0	5.57
		eS	21 19 42	LT	25	93.0 (1)		
		eS	21 19 42	LR	26	60.0 (1)		
		eLQ	21 26 35	LR	30	11.0 (2)		
		eLR	21 29 26	LZ	25	29.0 (2)		
		eL	21 30 00	LZ	25	24.0 (2)		
		eL	21 30 00	LR	24	13.0 (2)		
		eL	21 30 00	LT	25	27.0 (2)		
29	MN	eP	21 11 46.3	Z	1.5	89.0 (0)	62.0	5.70
		eS	21 20 24	LR	20	32.0 (1)		
		eSCS	21 21 15	LT	35	75.0 (1)		
		eSS	21 24 33	LR	25	44.0 (1)		
		eLQ	21 27 57	LR	30	12.0 (2)		
		eLR	21 30 58	LZ	999.9	99.9 (9)		
29	FM	eP	21 11 49.7	Z	1.5	68.0 (0)	62.0	5.59
		eS	21 20 24	LT	23	47.0 (1)		
		eSS	21 23 49	LT	20	78.0 (1)		
		e	21 27 59	LT	27	50.0 (1)		
		eLQ	21 29 09	LT	28	60.0 (1)		
		eLR	21 32 02	LZ	27	15.0 (2)		
		eL	21 32 49	LZ	25	14.0 (2)		
		eL	21 32 49	LR	25	76.0 (1)		
		eL	21 32 49	LT	25	13.0 (1)		
29	MV	eP	21 11 53.0	Z	1.4	28.0 (0)	63.0	5.13
		eSS	21 24 55	LR	22	23.0 (1)		
		eLQ	21 28 10	LR	24	44.0 (1)		
		eLR	21 31 35	LZ	23	26.0 (2)		
		eL	21 32 22	LZ	21	21.0 (2)		
		eL	21 32 22	LR	25	15.0 (2)		
		eL	21 32 22	LT	25	14.0 (2)		
29	WI	eP	21 12 05.1	Z	1.4	58.0 (0)	65.0	5.52
		eLQ	21 29 33	LT	33	13.0 (2)		
		eLR	21 32 52	LZ	25	17.0 (2)		
29	NG	eP	21 12 50.0	Z	1.0	44.0 (0)	72.0	5.44
29	DH	eP	21 13 00.0	Z	1.4	16.0 (1)	74.0	5.79
						AVG.		5.49
29	LC	eP	21 30 37.6	Z	0.4	4.2 (0)	0.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	21 30 46	T	0.6	20.0 (0)		
30	MN	eP	00 10 46.5	Z	0.7	3.7 (0)		
30	LC	eP	01 05 42.3	Z	1.0	5.0 (0)		
30	MV	eP	01 06 03.2	Z	1.0	5.0 (0)		
30	TF	eP	01 06 03.8	Z	1.0	8.6 (0)		
30	CP	eP	01 41 11.2	Z	0.4	8.8 (0)	1.5	
		eS	01 41 32	T	0.5	36.0 (0)		

30 01 46 32.7 54.2 S 009.1 E BOUVET ISLAND REGION
H = 033 KM

30	MN	eP*1	02 05 55.2	Z	0.9	1.3 (0)	143.0	
		e	02 06 10	Z	0.9	6.3 (0)		
		ePPS	02 21 40	LR	22	24.0 (1)		
		eSS	02 27 20	LR	24	49.0 (1)		
		eSSS	02 33 35	LR	22	57.0 (1)		
		eLQ	02 46 30	LT	40	11.0 (2)		
		eLR	02 55 55	LZ	28	73.0 (1)		
		eL	02 58 00	LZ	20	43.0 (1)		
		eL	02 58 00	LR	22	51.0 (1)		
		eL	02 58 00	LT	25	73.0 (1)		
30	WI	eP*1	02 06 00.0	Z	0.7	1.1 (0)	142.0	
		e	02 06 04	Z	0.7	3.4 (0)		
		eL	02 46 12	LR	30	69.0 (1)		
		eL	03 02 37	LZ	22	11.0 (2)		
		eL	03 02 37	LR	22	85.0 (1)		
		eL	03 02 37	LT	25	60.0 (1)		
30	DH	eL	02 36 30	LR	30	92.0 (1)	120.0	
		eL	02 42 00	LZ	25	58.0 (1)		
		eL	02 47 00	LZ	21	96.0 (1)		
		eL	02 47 00	LR	20	56.0 (1)		
		eL	02 47 00	LT	22	46.0 (1)		
30	LC	eL	02 42 32	LT	32	54.0 (1)	130.0	
		eL	02 55 17	LZ	25	72.0 (1)		
		eL	02 55 17	LR	25	83.0 (1)		
		eL	02 55 17	LT	24	54.0 (1)		
30	TF	e	02 51 45	LT	35	14.0 (2)	140.0	
		eL	02 54 20	LT	35	18.0 (2)		
		eL	02 59 55	LZ	18	12.0 (2)		
		eL	02 59 55	LR	20	93.0 (1)		
		eL	02 59 55	LT	15	47.0 (1)		
30	CP	eL	02 52 35	LZ	38	15.0 (2)	136.0	
30	WI	eP	05 17 14.4	Z	0.5	2.1 (0)		
30	MN	eP	05 17 27.0	Z	0.7	1.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	CP	eP	05 46 27.2	Z	0.3	25.0 (0)	1.5	
		eS	05 46 47	T	0.6	50.0 (0)		
30	CP	eP	06 12 12.0	Z	0.4	21.0 (0)	1.5	
		eS	06 12 30	R	0.5	43.0 (0)		
30	TF	eP	06 12 31.4	Z	0.6	9.1 (0)	2.9	
		eS	06 13 08	T	0.7	29.0 (0)		
30	WI	eP	06 13 55.7	Z	0.5	0.8 (0)		
30	WI	eL	06 15 28	R	0.7	5.5 (0)		

30 08 31 51.8 12.5 N 088.0 W W. COAST OF NICARAGUA
H = 080 KM

30	LC	eP	08 37 19.4	Z	1.0	14.0 (1)	26.0	5.47
		ePCS	08 44 25	Z	1.2	9.6 (0)		
		e	08 42 32	LR	18	12.0 (2)		
		eL	08 43 54	LT	40	40.0 (2)		
		eL	08 47 57	LZ	25	29.0 (1)		
		eL	08 47 57	LT	25	14.0 (2)		
30	DH	eP	08 38 10.0	Z	0.6	65.0 (0)	32.0	4.58
		e	08 38 21	Z	0.7	29.0 (0)		
		ePCS	08 44 10	LT	27	18.0 (2)		
		eLQ	08 47 15	LR	29	23.0 (2)		
		eLR	08 49 00	LZ	25	18.0 (2)		
		eL	08 52 00	LZ	20	33.0 (2)		
		eL	08 52 00	LR	18	30.0 (2)		
		eL	08 52 00	LT	20	25.0 (2)		
30	NG	eP	08 38 19.6	Z	0.6	13.0 (0)	33.0	4.96
		e	08 39 36	Z	1.0	32.0 (0)		
30	CP	eP	08 38 20.5	Z	0.8	9.3 (0)	33.0	4.69
		ePCP	08 41 04	Z	0.8	14.0 (0)		
		ePCS	08 44 47	Z	1.4	24.0 (0)		
		eLQ	08 45 00	LR	45	36.0 (2)		
		eLR	08 49 25	LZ	25	20.0 (2)		
		eL	08 51 15	LZ	25	30.0 (2)		
		eL	08 51 15	LR	22	25.0 (2)		
		eL	08 51 15	LT	25	22.0 (2)		
30	TF	eP	08 38 53.3	Z	1.0	17.0 (0)	37.0	4.89
		ePCP	08 41 16	Z	0.9	13.0 (0)		
		eLQ	08 48 52	LT	40	27.0 (2)		
		eLR	08 51 50	LZ	25	27.0 (2)		
		eL	08 53 00	LT	25	38.0 (2)		
30	MN	eP	08 38 58.0	Z	0.7	21.0 (0)	37.0	5.14
		ePCP	08 41 17	Z	0.7	13.0 (0)		
		eSCP	08 45 01	Z	1.0	5.7 (0)		
		ePCS	08 45 10	LT	22	39.0 (1)		
		eL	08 56 00	LZ	20	77.0 (1)		
		eL	08 56 00	LR	20	90.0 (1)		
		eL	08 56 00	LT	20	17.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	WI	eP	08 39 08.7	Z	0.8	27.0 (0)	39.0	5.17
		eSCP	08 45 05.0	Z	1.0	3.4 (0)		
		ePCS	08 45 32	LT	25	56.0 (1)		
		eL	08 49 40	LT	30	23.0 (2)		
		eL	08 54 35	LZ	25	71.0 (1)		
		eL	08 54 35	LR	22	42.0 (1)		
		eL	08 54 35	LT	25	17.0 (2)		
30	MV	eP	08 39 18.0	Z	1.0	6.7 (0)	40.0	4.39
		ePCP	08 41 25	Z	1.0	15.0 (0)		
		eL	08 45 25	LT	35	16.0 (2)		
		eL	08 51 28	LZ	22	22.0 (2)		
		eL	08 51 28	LR	20	20.0 (2)		
		eL	08 51 28	LT	20	20.0 (2)		
						AVG.		4.91
30	CP	eP	11 29 12.6	Z	0.4	8.8 (0)	1.5	
		eS	11 29 33	T	0.5	28.0 (0)		
30	CP	eP	12 58 25.7	Z	0.3	20.0 (0)	1.6	
		eS	12 58 47	T	0.5	37.0 (0)		
30	DH	eP	14 21 28.3	Z	1.0	39.0 (0)		
30	LC	eP	15 24 26.7	Z	0.7	3.8 (0)		
30	CP	eP	15 25 27.0	Z	0.7	5.0 (0)		
30	MN	eP	15 26 05.8	Z	1.0	9.8 (0)		
30	WI	eP	15 26 16.9	Z	0.8	2.7 (0)		
30	TF	eP	15 32 19.0	Z	1.2	20.0 (0)		
30	MN	eP	15 32 32.4	Z	0.7	4.1 (0)		
30	WI	e	15 32 44	Z	2.1	32.0 (0)		
30	LC	e	15 32 57	Z	1.0	6.3 (0)		
30	MN	eL	15 40 00	LZ	35	28.0 (1)		
30	MN	eL	15 41 00	LZ	25	21.0 (1)		
30	MN	eL	15 41 00	LR	23	28.0 (1)		
30	MN	eL	15 41 00	LT	20	31.0 (1)		
30	MN	eP	15 54 51.0	Z	1.0	2.5 (0)		
30	MN	eL	15 59 37	LZ	20	18.0 (1)		
30	CP	e	16 11 35	LZ	15	76.0 (1)		
30	16 13 25.6		26.6 W 093.3 E			EASTERN INDIA		
			H =033 KM					
30	CP	eLR	16 26 00	LZ	28	35.0 (2)		
30	CP	eL	16 27 20	LZ	24	33.0 (2)		
30	CP	eL	16 27 20	LR	24	95.0 (1)		
30	CP	eL	16 27 20	LT	24	23.0 (2)		
30	DH	eP	16 29 09.2	Z	1.0	58.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	DH	e	16 29 39	Z	1.0	39.0 (0)		
30	DH	eL	16 45 00	LZ	25	12.0 (2)		
30	DH	eL	16 50 25	LZ	18	16.0 (2)		
30	DH	eL	16 50 25	LR	18	14.0 (2)		
30	DH	eL	16 50 25	LT	18	63.0 (1)		
30	CP	eP	20 10 29.5	Z	0.5	5.5 (0)		
30	CP	eP	21 03 14.5	Z	0.8	2.5 (0)		
30	CP	e	21 03 21	Z	0.8	20.0 (0)		
30	MV	eP	21 07 01.5	Z	1.0	8.4 (0)		
30	FM	eP	21 07 05.8	Z	1.0	14.0 (0)		
30	MN	eP	21 07 09.8	Z	0.8	15.0 (0)		
30	LC	eP	21 07 37.3	Z	0.8	15.0 (0)		
30	CP	eP	21 21 10.5	Z	0.5	2.7 (0)		
30	CP	e	21 21 15	Z	0.5	11.0 (0)		
31	MV	eP	00 48 55.3	Z	0.3	6.0 (0)	3.9	
31	WI	eP	00 49 23.9	Z	0.5	11.0 (0)		
31	MV	eS	00 49 43	R	0.3	26.0 (0)	3.9	
31	MV	eP	01 09 34.7	Z	0.3	2.4 (0)		
31	WI	eP	01 10 02.8	Z	0.5	6.7 (0)		
31	MN	eP	01 10 05	Z	0.4	0.2 (0)		
31	MV	e	01 10 24	R	0.3	17.0 (0)		
31	05 22 57.1		05.5 S 150.6 E			BISMARK SEA		
			H =046 KM					
31	CP	eP	05 49 21.0	Z	0.4	6.9 (0)	1.5	
		eS	05 49 41	T	0.4	33.0 (0)		
31	FM	eP	08 05 45.5	Z	0.3	4.1 (0)	0.5	
		eS	08 05 53	R	0.5	34.0 (0)		
31	CP	eP	08 52 56.9	Z	0.3	1.6 (0)	2.9	
		eS	08 53 33	LT	.5	30.0 (1)		
31	11 32 29.0		05.6 N 082.6 W			SOUTH OF PANAMA		
			H =033 KM			PAS		
			MAG 6.50-					
31	LC	iP	11 39 19.0C	Z	1.0	79.0 (0)	35.0	5.60
		eP	11 39 21	LZ	19	94.0 (1)		
		ePP	11 40 41	Z	1.0	47.0 (0)		
		ePP	11 40 41	LZ	17	33.0 (2)		
		eS	11 44 52	LR	23	61.0 (2)		
		eS	11 44 52	LT	25	28.0 (2)		
		eS	11 45 04	R	4.4	33.0 (1)		

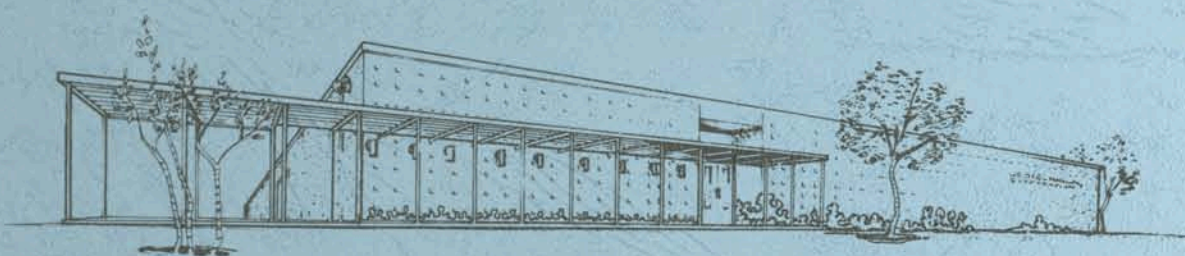
DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	11 46 50	LZ	23	33.0 (2)		
		eLQ	11 48 40	LT	31	35.0 (2)		
		eLR	11 50 02	LZ	32	98.0 (2)		
		eL	11 52 18	LZ	29	75.0 (2)		
		eL	11 52 18	LR	23	58.0 (2)		
		eL	11 52 18	LT	27	41.0 (2)		
31	DH	eP	11 39 38.6	Z	9.0	41.0 (2)		
		eP	11 39 40	Z	1.0	22.0 (1)	37.0	5.91
		ePP	11 41 10	LZ	16	48.0 (1)		
		eS	11 45 30	LZ	16	91.0 (1)		
		eS	11 45 30	LR	23	22.0 (2)		
		eLQ	11 48 00	LT	23	32.0 (2)		
31	NG	eP	11 40 02.8	LR	36	21.0 (3)		
		ePP	11 41 53	Z	1.0	11.0 (1)	40.0	5.51
31	CP	eP	11 40 15.1	Z	1.3	67.0 (0)		
		eP	11 40 15	Z	1.0	47.0 (0)	42.0	5.21
		ePP	11 41 56	LZ	18	73.0 (1)		
		ePP	11 42 03	Z	2.4	19.0 (1)		
		eS	11 46 38	LZ	16	14.0 (2)		
		eS	11 46 38	LR	20	42.0 (2)		
		eSS	11 49 32	LT	23	58.0 (2)		
		eLR	11 53 27	LT	23	30.0 (2)		
		eL	11 54 10	LZ	28	99.9 (9)		
		eL	11 54 10	LZ	28	99.9 (9)		
		eL	11 54 10	LR	31	71.0 (2)		
31	FM	iP	11 40 27.2C	LT	27	81.0 (2)		
		eP	11 40 28	Z	0.9	71.0 (0)	43.0	5.40
		ePP	11 42 03	LZ	18	73.0 (1)		
		ePP	11 42 09	LZ	14	16.0 (2)		
		eS	11 46 47	Z	1.5	11.0 (1)		
		eSCS	11 50 04	LR	19	94.0 (2)		
		eLQ	11 51 38	LR	35	21.0 (2)		
		eL	11 57 23	LT	37	57.0 (2)		
		eL	11 57 23	LZ	26	66.0 (2)		
		eL	11 57 23	LR	25	31.0 (2)		
31	TF	eL	11 57 23	LT	25	99.9 (9)		
		eSS	11 50 52	LT	18	35.0 (2)	45.0	
		eP	11 40 44.3	Z	1.0	60.0 (0)		5.41
		eP	11 40 48	LZ	16	12.0 (2)		
		ePP	11 42 35	LZ	19	84.0 (1)		
		ePP	11 42 39	Z	2.0	11.0 (1)		
		eS	11 47 38	LR	23	25.0 (2)		
		eS	11 47 38	LT	25	69.0 (2)		
		eL	11 53 13	LR	34	44.0 (2)		
		eLR	11 55 13	LZ	27	15.0 (3)		
		eL	11 57 30	LZ	23	12.0 (3)		
		eL	11 57 30	LR	23	70.0 (2)		
31	MN	iP	11 40 51.0C	LT	24	71.0 (2)		
		eP	11 40 53	Z	1.0	15.0 (1)	46.0	5.90
		ePP	11 42 44	LZ	20	64.0 (1)		
				LZ	23	48.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	11 47 45	LR	999.9	99.9 (9)		
		eS	11 47 45	LT	23	83.0 (1)		
		eSS	11 50 35	LT	26	15.0 (2)		
31	WI	eLR	11 54 48	LZ	999.9	99.9 (9)		
		iP	11 41 00.9C	Z	0.8	48.0 (0)	47.0	5.58
		eP	11 41 03	LZ	18	63.0 (1)		
		ePP	11 42 55	Z	3.0	38.0 (1)		
		ePP	11 42 55	LZ	18	63.0 (1)		
		ePPP	11 43 48	LZ	15	11.0 (2)		
		eS	11 47 56	LR	999.9	99.9 (9)		
		eSS	11 51 48	LR	22	21.0 (2)		
31	MV	eLQ	11 54 08	LT	40	51.0 (2)		
		eP	11 41 08.9	Z	1.0	33.0 (0)	48.0	5.32
		eP	11 41 10	LZ	19	58.0 (1)		
		ePP	11 43 11	LZ	19	66.0 (1)		
		eS	11 48 10	LR	999.9	99.9 (9)		
		eS	11 48 10	LT	23	14.0 (2)		
		eSS	11 52 03	LT	26	14.0 (2)		
		eLQ	11 53 00	LZ	29	13.0 (2)		
		eLR	11 55 46	LZ	27	23.0 (2)		
		eL	11 59 40	LZ	999.9	99.9 (9)		
		eL	11 59 40	LR	26	62.0 (1)		
		eL	11 59 40	LT	20	49.0 (2)		
							AVG.	5.54
31	13 27 25.0		51.6 N 177.3 E					
			H =083 KM					
31	MV	eP	13 35 20.9	Z	0.7	5.0 (0)	43.0	4.35
31	WI	eP	13 35 29.8	Z	0.5	2.5 (0)	45.0	4.23
31	MN	eP	13 35 40.8	Z	0.8	3.9 (0)	46.0	4.32
31	FM	eP	13 36 06.0	Z	0.4	1.4 (0)	49.0	4.26
31	CP	eP	13 36 17.7	Z	0.6	2.4 (0)	51.0	4.38
31	LC	eP	13 37 03.4	Z	0.8	3.9 (0)	57.0	4.49
31	DH	eL	14 03 18	LZ	25	19.0 (1)	68.0	
		eL	14 05 20	LZ	27	20.0 (1)		
		eL	14 05 20	LT	22	24.0 (1)		
							AVG.	4.34
31	FM	eP	13 48 06.4	Z	0.9	6.6 (0)		
31	CP	eP	15 27 39.2	Z	0.4	15.0 (0)	2.5	
31	TF	eP	15 28 03.5	Z	0.3	3.1 (0)	3.2	
		e	15 28 08	Z	0.4	13.0 (0)		
31	CP	eS	15 28 11	T	999.9	99.9 (9)	2.5	
31	MN	eP	15 28 38.7	Z	0.7	5.8 (0)	4.3	
31	TF	eS	15 28 44	T	0.4	24.0 (0)	3.2	
31	MN	eS	15 29 31	T	0.9	6.2 (0)	4.3	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	WI	eP	17 16 57.0	Z	0.6	2.8 (0)		
31	MN	eP	19 08 13.9	Z	1.0	2.5 (0)		
31	MN	e	19 09 30	Z	1.5	8.3 (0)		
31	MN	eP	19 36 20.0	Z	1.0	2.8 (0)		
31	MN	eP	22 23 09.5	Z	0.6	4.9 (0)		
31	MN	eP	23 17 56.1	Z	0.9	15.0 (0)		
31	MN	e	23 18 08	Z	0.8	12.0 (0)		
31	MN	eP	23 26 39.9	Z	0.9	3.2 (0)	4.5	
		eS	23 27 35	T	1.1	5.9 (0)		

Bulletin No. 11
November 1962

SEISMOLOGICAL BULLETIN
LONG-RANGE SEISMIC MEASUREMENTS PROGRAM



H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

This is a copy of the monthly earthquake bulletin being produced for the Air Force Technical Applications Center by The Geotechnical Corporation. The bulletin was initiated in January 1962. If you would care to be on routine distribution for this, please forward your request and your correct address to:

HQ USAF (AFTAC/TD-1)
ATTN: Captain N. G. Maddox
Washington 25, D. C.

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, the Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

- a. Data on all of the phases that have been associated with epicenters reported by the U.S. Coast and Geodetic Survey (USC&GS);
- b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;
- c. Arrival time, period, amplitude, and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Each of the forty teams is equipped with standardized long- and short-period seismograph systems. The long-period system uses the Sprengnether moving-coil seismometer. The short-period system uses the Benioff variable-reluctance seismometer. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1301A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G.C.T.).

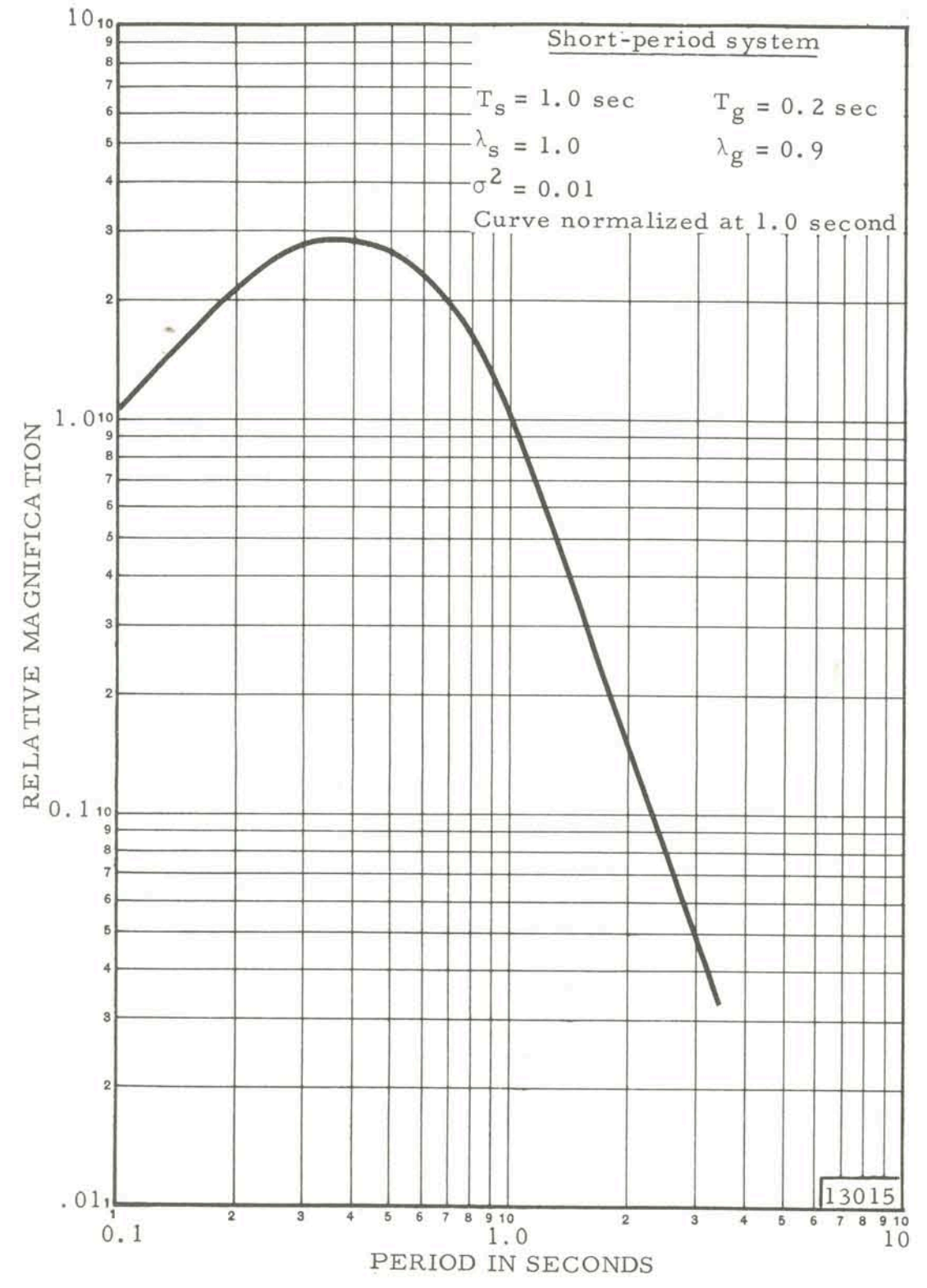


Figure 1. Frequency response of the short-period seismograph system

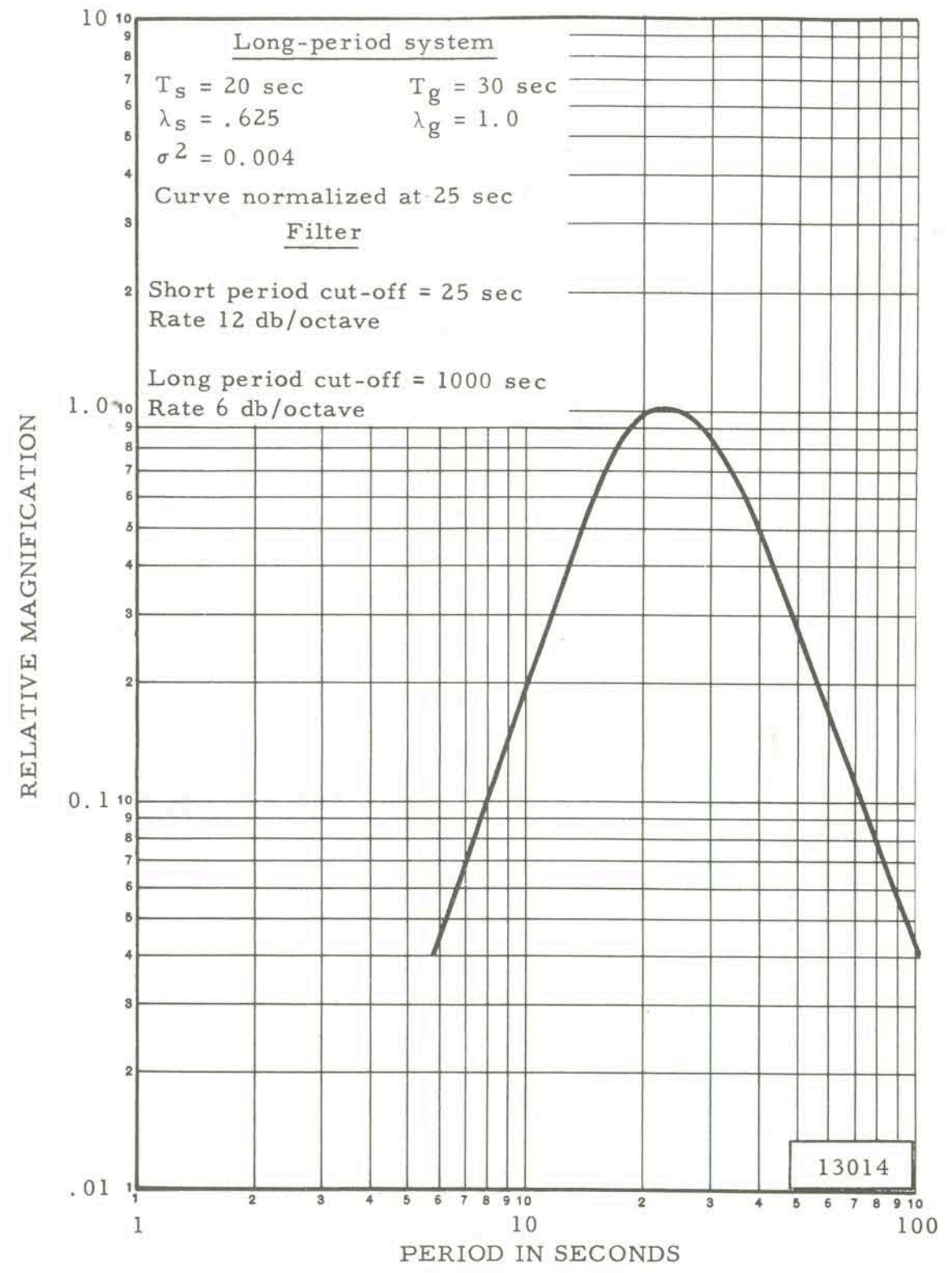


Figure 2. Frequency response of the long-period seismograph system

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 3.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G.C.T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field, either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

All amplitudes are corrected for instrument response and are reported as one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

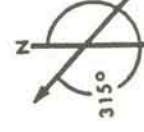
3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables.

TABLE 1
LRSM SITE INFORMATION

Horizontal seismometer orientation

Site Designation	Site Location	Azimuth from True North in Degrees*		Site Coordinates in deg, min, sec	Elevation in km	Rock Type
		Radial	Transverse			
SJ TX	San Jose, Texas	127	217	N 27 36 43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98 18 46	1.585	Limestone
CP CL	Campo, California	182	272	N 32 24 08	1.189	Granite
MV CL	Marysville, California	295	025	W 106 35 58	0.183	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32 43 44	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116 22 16	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39 12 47	1.890	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121 17 35	0.396	Granite
DH NY	Delhi, New York	095	185	N 41 21 02	0.652	Sandstone
TF CL	Taft, California	235	325	W 117 27 30	0.792	Sandstone

*When earth moves in direction shown, trace moves up.



P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log_{10} A + B$$

where: M = Unified magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival)

B = Log function of distance and depth.

These factors were obtained from the Gutenberg-Richter tables. Computations for distances less than 16° are based on AFTAC extensions of Gutenberg's tables.¹ For this purpose, points from 10° to 16° were read from a curve in the Gutenberg-Richter paper and an inverse cube relationship was used to extrapolate from 2° to 10° .

The average magnitude $\frac{(\text{sum of station magnitudes})}{\text{number of stations}}$ is listed on the last line of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

¹ Gutenberg, B., and Richter, C.F., 1956, Magnitude and energy of earthquakes: Ann. Geofis., 9, pp. 1-15

The notation AS located between these columns calls attention at an aftershock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND
GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group:	day of the month
Second group:	origin time of the event
Third group:	geographic coordinates of the epicenter
Fourth group:	geographic description

NOTE

An asterisk (*) following the origin time indicates epicenters believed accurate to $1/2^{\circ}$ in latitude and longitude and to 50 km in depth.

Line 2 (from left to right)

First group:	depth (h) of the hypocenter in kilometers
Second group:	magnitude (MAG) as determined by Pasadena (PAS), Berkeley (BRK), or Palisades (PAL)

NOTE

MAG. (CGS) is M_b of Gutenberg and Richter from the P phase only. The Magnitude quoted is an average value determined from data forwarded by cooperating Standard stations and other observatories.

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of :

HQ USAF (AFTAC/TD-1)
Attn: Captain N.G. Maddox
Washington 25, D.C.

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	03 59 49.9		41.8 N 144.8 E H =091 KM				S. OF HOKKAIDO, JAPAN	
1	MN	eP	04 10 51.6	Z	0.7	1.1 (0)	69.0	3.84
1	LC	eP	04 11 58.5	Z	0.7	2.5 (0)	82.0	4.18
							AVG.	4.01
1	MN	eP	07 02 16.5	Z	0.3	4.2 (0)	1.0	
		eS	07 02 30	R	999.9	99.9 (9)		
1	WI	eP	07 02 31.5	Z	0.3	1.6 (0)	2.4	
		eS	07 03 02	R	0.4	6.5 (0)		
1	09 16 44.7		29.0 N 128.7 E H =164 KM				RYUKYU ISLANDS	
1	CP	eP	09 17 52.7	Z	0.9	3.4 (0)		
1	MN	eP	09 18 30.8	Z	0.8	3.9 (0)		
1	WI	eP	09 18 42.7	Z	0.7	2.2 (0)		
1	09 47 15.6		23.7 S 179.6 W H =525 KM				FIJI ISLANDS REGION	
1	CP	eP	09 58 46.1	Z	1.0	7.3 (0)	83.0	4.16
1	MV	eP	09 58 47.3	Z	0.9	7.9 (0)	83.0	4.24
1	MN	eP	09 58 55.7	Z	1.0	4.2 (0)	85.0	4.02
1	WI	eP	09 59 06.2	Z	1.0	5.6 (0)	87.0	4.25
1	FM	eP	09 59 16.5	Z	1.0	5.5 (0)	89.0	4.34
1	LC	eP	09 59 19.1	Z	0.8	3.6 (0)	89.0	4.25
							AVG.	4.21
1	11 31 48.7		01.5 S 077.8 W H =181 KM				ECUADOR	
1	LC	eP	11 39 35.5	Z	0.8	5.8 (0)	43.0	4.30
		eSCP	11 44 56	Z	1.0	2.5 (0)		
1	DH	eP	11 39 36.5	Z	0.8	23.0 (0)	44.0	4.72
1	NG	eP	11 40 08.5	Z	0.5	9.8 (0)	48.0	4.57
1	CP	eP	11 40 25.4	Z	0.6	2.4 (0)	50.0	3.89
1	FM	eP	11 40 37.5	Z	0.9	4.3 (0)	51.0	4.07
1	MN	eP	11 40 59.5	Z	0.7	2.1 (0)	54.0	3.96
		epP	11 41 40	Z	0.8	1.5 (0)		
1	WI	eP	11 41 08.6	Z	0.6	1.9 (0)	56.0	4.06
							AVG.	4.22

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	13 22 47.1		17.5 S 168.5 E H =033 KM				NEW HEBRIDES ISLANDS	
1	13 46 43.4		37.2 N 070.0 E H =132 KM				HINDU KUSH REGION	
1	13 51 37.0		17.6 S 168.5 E H =021 KM				NEW HEBRIDES ISLANDS	
1	TF	eP	14 04 17.9	Z	1.3	22.0 (0)	86.0	5.09
1	MV	eP	14 04 20.5	Z	1.1	8.4 (0)	87.0	4.84
1	MN	eP	14 04 27.5	Z	1.1	8.2 (0)	88.0	4.91
1	WI	eP	14 04 35.0	Z	1.0	6.7 (0)	90.0	4.81
							AVG.	4.91
1	14 06 40.5		14.5 S 167.6 E H =204 KM				NEW HEBRIDES ISLANDS	
1	15 26 56.1		37.4 N 070.0 E H =124 KM				HINDU KUSH REGION	
1	WI	eP	15 28 44.6	Z	0.5	5.9 (0)		
1	MN	eP	15 28 57.6	Z	0.8	3.4 (0)		
1	LC	eP	15 30 27.7	Z	1.0	4.9 (0)		
1	15 33 22.6		01.9 N 133.0 E H =056 KM				OFF COAST OF NEW GUINEA	
1	WI	eP	15 47 21.0	Z	1.1	5.5 (0)	104.0	5.36
		ePP	15 51 36	Z	1.0	4.4 (0)		
		eSKS	15 58 15	LT	20	31.0 (1)		
		ePS	16 00 55	LT	25	53.0 (1)		
		eSS	16 06 56	LT	30	63.0 (1)		
		eSSS	16 09 25	LT	21	58.0 (1)		
		eLQ	16 16 24	LT	33	14.0 (2)		
		eLR	16 20 35	LZ	33	31.0 (2)		
		eL	16 23 05	LZ	26	23.0 (2)		
		eL	16 23 05	LR	25	48.0 (1)		
		eL	16 23 05	LT	25	22.0 (2)		
1	MN	eP	15 47 28.8	Z	1.0	3.3 (0)	104.0	5.18
		eSKS	15 58 04	LT	20	19.0 (1)		
		ePS	16 00 47	LT	23	47.0 (1)		
		eSS	16 06 54	LT	25	49.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSSS	16 09 40	LT	27	65.0 (1)		
		eLQ	16 14 00	LT	21	24.0 (1)		
		eLR	16 19 47	LZ	32	12.5 (2)		
1	CP	ePP	15 51 56	Z	1.5	17.0 (0)	106.0	
		ePS	16 01 20	LT	32	17.0 (2)		
		e	16 04 33	LT	28	15.0 (2)		
		eSS	16 06 50	LT	25	23.0 (2)		
		eLR	16 21 40	LZ	28	29.0 (2)		
		eL	16 26 14	LZ	20	50.0 (2)		
		eL	16 26 14	LT	23	46.0 (2)		
1	LC	eP	15 52 00.0	Z	1.0	2.5 (0)	114.0	
		ePS	16 02 38	LR	25	88.0 (1)		
		ePPS	16 04 20	LR	25	59.0 (1)		
		eSS	16 08 20	LR	34	21.0 (2)		
		eSSS	16 12 20	LR	23	89.0 (1)		
		eLQ	16 19 55	LT	35	15.0 (2)		
		eLR	16 25 05	LZ	27	13.0 (2)		
		eL	16 31 33	LZ	20	31.0 (2)		
		eL	16 31 33	LR	22	28.0 (2)		
		eL	16 31 33	LT	20	48.0 (1)		
1	MV	ePS	16 00 20	LT	22	49.0 (1)	101.0	
		eSS	16 06 13	LT	22	53.0 (1)		
		eSSS	16 09 39	LT	23	38.0 (1)		
		eLQ	16 14 57	LR	36	13.0 (2)		
		eLR	16 18 54	LZ	31	19.0 (2)		
		eL	16 23 33	LZ	23	14.0 (2)		
		eL	16 23 33	LR	24	10.0 (2)		
		eL	16 23 33	LT	22	75.0 (1)		
1	TF	ePS	16 00 47	LT	25	70.0 (1)	102.0	
		eSS	16 06 41	LT	22	12.0 (2)		
		eLQ	16 15 38	LT	33	18.0 (2)		
		eLR	16 20 12	LZ	30	33.0 (2)		
		eL	16 27 53	LZ	20	35.0 (2)		
		eL	16 27 53	LR	20	22.0 (2)		
		eL	16 27 53	LT	20	21.0 (2)		
1	FM	ePS	16 01 40	LT	25	49.0 (1)	108.0	
		eSS	16 08 00	LT	31	81.0 (1)		
		eSSS	16 11 29	LR	25	74.0 (1)		
		eLQ	16 18 18	LT	34	20.0 (2)		
		eLR	16 22 23	LZ	31	17.0 (2)		
		eL	16 33 35	LZ	20	17.0 (2)		
		eL	16 33 35	LR	20	84.0 (1)		
		eL	16 33 35	LT	22	12.0 (2)		
1	DH	eLQ	16 24 29	LR	25	12.0 (2)	130.0	
		eLR	16 34 05	LZ	50	35.0 (2)		
		eL	16 52 05	LZ	20	29.0 (2)		
		eL	16 52 05	LR	20	18.0 (2)		
		eL	16 52 05	LT	18	70.0 (1)		
							AVG.	5.27
1	15 52 43.2		01.7 N 132.9 E H =058 KM				OFF COAST OF NEW GUINEA	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	FM	eP	17 25 25.8	Z	0.6	3.5 (0)		
1	MN	eP	17 25 40.8	Z	1.0	2.5 (0)		
1	WI	eP	17 25 49.5	Z	1.0	11.0 (0)		
1	17 52 20.2		01.9 N 132.8 E				N. OF WESTERN NEW GUINEA	
			H = 036 KM					
1	MN	eP	18 06 17.0	Z	1.5	7.4 (0)	103.0	5.23
		e	18 39 50	LZ	31	10.0 (2)		
		eLR	18 41 12	LZ	25	15.0 (2)		
		eL	18 42 42	LZ	26	13.0 (2)		
		eL	18 42 42	LR	24	13.0 (2)		
		eL	18 42 42	LT	23	62.0 (1)		
1	LC	eP	18 11 00.0	Z	1.0	2.5 (0)	114.0	
		eLQ	18 39 05	LT	35	10.0 (2)		
		eLR	18 44 17	LZ	28	11.0 (2)		
		eL	18 50 20	LZ	21	20.0 (2)		
		eL	18 50 20	LR	21	19.0 (2)		
		eL	18 50 20	LT	23	38.0 (1)		
1	CP	ePP	18 11 00	Z	1.5	17.0 (0)	106.0	
		eLR	18 40 46	LZ	26	21.0 (2)		
		eL	18 45 40	LZ	22	37.0 (2)		
		eL	18 45 40	LT	22	33.0 (2)		
1	MV	eLQ	18 33 54	LR	35	71.0 (1)	101.0	
		eLR	18 38 13	LZ	33	15.0 (2)		
		eL	18 40 45	LZ	26	11.0 (2)		
		eL	18 40 45	LR	25	53.0 (1)		
		eL	18 40 45	LT	25	68.0 (1)		
1	WI	eLQ	18 35 25	LR	35	10.0 (2)	104.0	
		eLR	18 39 32	LZ	34	27.0 (2)		
		eL	18 48 20	LZ	23	20.0 (2)		
		eL	18 48 20	LR	22	40.0 (1)		
		eL	18 48 20	LT	22	18.0 (2)		
1	FM	eLQ	18 37 18	LT	37	16.0 (2)	108.0	
		eLR	18 41 21	LR	31	31.0 (2)		
		eL	18 52 31	LZ	22	13.0 (2)		
		eL	18 52 31	LR	21	74.0 (1)		
		eL	18 52 31	LT	23	90.0 (1)		
1	TF	eLR	18 38 28	LZ	28	26.0 (2)	102.0	
		eL	18 44 41	LZ	22	30.0 (2)		
		eL	18 44 41	LR	21	17.0 (2)		
		eL	18 44 41	LT	20	18.0 (2)		
1	LC	eP	20 20 02.1	Z	0.8	8.7 (0)		
1	FM	eP	20 20 35.8	Z	0.8	6.5 (0)		
1	WI	eP	20 21 02.0	Z	0.9	3.4 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MV	eP	22 51 48.5	Z	0.4	7.0 (0)	2.6	
		eS	22 52 22	R	0.4	9.3 (0)		
1	23 20 59.6		43.9 N 145.2 E				KURILE ISLANDS	
			H = 131 KM					
1	MV	eP	23 31 35.4	Z	0.6	5.7 (0)	66.0	4.62
1	WI	eP	23 31 42.5	Z	0.7	6.7 (0)	67.0	4.62
1	FM	eP	23 32 09.6	Z	0.7	11.0 (0)	72.0	4.77
1	CP	eP	23 32 19.8	Z	1.0	7.3 (0)	74.0	4.44
1	LC	eP	23 32 55.1	Z	0.8	7.3 (0)	80.0	4.53
							AVG.	4.60
2	CP	eP	02 48 17.8	Z	999.9	99.9 (9)	2.5	
		eS	02 48 50	R	999.9	99.9 (9)		
2	TF	eP	02 49 07.9	Z	0.2	6.2 (0)	3.6	
2	MN	eP	02 49 30.0	Z	0.3	0.3 (0)	8.0	
		e	02 49 48	Z	0.5	5.0 (0)		
2	TF	eS	02 49 52	T	0.6	41.0 (0)	3.6	
2	MN	eS	02 51 04	T	0.8	6.7 (0)	8.0	
2	MV	eP	02 51 56.0	Z	1.0	9.9 (0)		
2	LC	eP	02 52 06.5	Z	0.3	7.2 (0)	2.2	
		eS	02 52 35	R	0.3	18.0 (0)		
2	CP	eP	02 52 42.5	Z	0.2	9.7 (0)	1.6	
		eS	02 53 04	T	0.3	30.0 (0)		
2	CP	eP	03 14 34.8	Z	0.3	24.0 (0)	0.4	
		eS	03 14 41	R	0.4	39.0 (0)		
2	CP	eP	04 18 02.1	Z	0.3	11.0 (0)	0.8	
		eS	04 18 13	R	0.3	33.0 (0)		
2	CP	eP	04 31 06.0	Z	0.3	23.0 (0)	1.5	
		eS	04 31 25	R	0.4	46.0 (0)		
2	MN	eP	04 32 36.0	Z	0.7	2.1 (0)		
2	CP	eP	05 21 40.0	Z	0.2	11.0 (0)	0.5	
		eS	05 21 47	R	0.2	21.0 (0)		
2	CP	eP	05 43 35.0	Z	0.3	6.3 (0)	0.1	
		eS	05 43 42	R	0.3	12.0 (0)		
2	06 54 19.9		17.7 S 167.5 E				NEW HEBRIDES ISLANDS	
			H = 032 KM					
2	MV	eP	07 07 04.4	Z	1.0	5.0 (0)	87.0	4.64
2	MN	eP	07 07 14.0	Z	1.2	3.8 (0)	89.0	4.47
		eL	07 35 18	LZ	20	20.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	TF	eL	07 35 02	LZ	22	51.0 (1)	42.0 AVG.	4.56
2	MV	eP	07 17 02.5	Z	0.5	1.9 (0)		
2	CP	eP	07 17 09.0	Z	0.3	17.0 (0)	0.5	
		eS	07 17 17	R	0.3	34.0 (0)		
2	WI	eP	07 17 25.0	Z	0.8	6.9 (0)		
2	LC	eP	07 19 56.8	Z	1.0	3.8 (0)		
2	13 23	01.0	36.5 N 071.4 E	HINDU KUSH				
			H =033 KM					
2	14 46	39.2	10.0 S 117.8 E	SOUTH OF SUMBAWA				
			H =033 KM					
2	MV	eP [†]	15 05 30.1	Z	1.0	6.6 (0)	121.0	
		ePS	15 16 45	LR	20	52.0 (1)		
		eL	15 46 55	LZ	20	38.0 (1)		
2	WI	eP [†]	15 05 35.0	Z	0.9	6.8 (0)	122.0	
		eL	15 35 25	LZ	22	32.0 (1)		
2	TF	eP [†]	15 05 35.2	Z	1.0	8.6 (0)	123.0	
		eL	15 35 04	LZ	25	71.0 (1)		
2	MN	eP [†]	15 05 35.8	Z	1.0	6.6 (0)	123.0	
		ePP	15 07 10	Z	1.1	10.0 (0)		
		ePP	15 07 13	LZ	15	34.0 (1)		
		ePS	15 17 20	LR	18	99.9 (9)		
		eL	15 35 10	LZ	24	34.0 (1)		
2	CP	eP [†]	15 05 41.4	Z	0.8	5.1 (0)	125.0	
		eL	15 36 30	LZ	28	46.0 (1)		
2	FM	eP [†]	15 05 44.5	Z	1.0	7.7 (0)	127.0	
2	LC	eP [†]	15 05 56.2	Z	1.0	6.3 (0)	133.0	
		ePP	15 08 21	Z	2.0	31.0 (0)		
		eSKP	15 09 25	Z	1.0	6.3 (0)		
		ePP	15 08 30	LZ	20	29.0 (1)		
		eL	15 41 10	LZ	30	34.0 (1)		
2	NG	eP [†]	15 06 02.5	Z	1.0	11.0 (0)	139.0	
2	DH	eP [†] 1	15 06 18.5	Z	1.2	24.0 (1)	145.0	
		eP [†] 1	15 06 19	LZ	15	98.0 (1)		
		ePP	15 09 30	LZ	20	31.0 (1)		
		e	15 14 55	LZ	20	25.0 (1)		
2	15 00	25.4	36.7 N 141.1 E	NEAR COAST HONSHU, JAPAN				
			H =075 KM					
2	MV	eP	15 11 48.0	Z	0.8	5.8 (0)	73.0	4.44

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	WI	eP	15 11 56.5	Z	999.9	99.9 (9)	74.0	
2	MN	eP	15 12 03.2	Z	0.7	4.5 (0)	75.0	4.46
2	TF	eP	15 12 06.7	Z	0.8	10.0 (0)	76.0	4.77
2	FM	eP	15 12 21.8	Z	0.8	14.0 (0)	79.0	4.89
2	CP	eP	15 12 27.8	Z	0.8	8.6 (0)	80.0	4.66
2	LC	eP	15 13 03.2	Z	1.0	6.1 (0)	87.0	4.64
2	NG	eP	15 13 13.2	Z	1.0	10.0 (0)	89.0	4.96
						AVG.		4.69
2	15 12	37.2	10.2 S 117.6 E	SOUTH OF SUMBAWA				
			H =033 KM					
2	MN	eP [†]	15 31 44.2	Z	1.2	2.5 (0)	123.0	
2	WI	eP [†]	15 31 44.8	Z	1.3	6.3 (0)	124.0	
2	DH	eP [†] 1	15 32 19.2	Z	1.2	45.0 (0)	147.0	
2	19 06	54.3	52.5 N 170.7 W	FOX-ALEUTIAN ISLANDS				
			H =084 KM					
2	WI	eP	19 13 58.8	Z	1.0	9.9 (0)	37.0	4.46
2	MN	eP	19 14 10.5	Z	0.7	2.9 (0)	39.0	4.27
2	TF	eP	19 14 19.0	Z	0.8	7.6 (0)	40.0	4.21
2	FM	eP	19 14 36.5	Z	1.2	18.0 (0)	41.0	4.76
2	CP	eP	19 14 49.8	Z	0.7	5.8 (0)	43.0	4.42
2	LC	eP	19 15 38.6	Z	0.7	5.0 (0)	50.0	4.55
2	NG	eP	19 15 53.3	Z	0.8	8.0 (0)	52.0	4.78
						AVG.		4.49
2	DH	eP	21 11 19.6	Z	1.1	24.0 (0)		
2	CP	eP	22 35 59.5	Z	0.3	23.0 (0)	1.5	
		eS	22 36 20	T	0.4	19.0 (0)		
3	01 00	24.9	07.9 S 158.3 E	SOLOMON ISLANDS				
			H =086 KM					
3	MV	eP	01 13 08.4	Z	1.0	8.4 (0)	88.0	4.76
		eLR	01 40 45	LZ	25	33.0 (1)		
		eL	01 42 00	LZ	24	29.0 (1)		
		eL	01 42 00	LR	25	13.0 (1)		
		eL	01 42 00	LT	23	21.0 (1)		
3	MN	eP	01 13 19.3	Z	1.1	21.0 (0)	90.0	5.20
		eLR	01 41 51	LZ	25	27.0 (1)		
		eL	01 47 30	LZ	21	37.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	01 47 30	LR	23	39.0 (1)		
		eL	01 47 30	LT	23	29.0 (1)		
3	CP	eP	01 13 22.5	Z	1.1	13.0 (0)	91.0	5.11
		eLR	01 41 50	LZ	25	11.0 (2)		
3	WI	eP	01 13 24.5	Z	1.2	27.0 (0)	91.0	5.36
3	FM	eP	01 13 41.7	Z	1.1	8.7 (0)	95.0	5.10
		eLR	01 44 28	LZ	30	23.0 (1)		
3	TF	eLR	01 40 40	LZ	23	70.0 (1)	88.0	
3	LC	eLR	01 45 54	LZ	24	75.0 (1)	98.0	
		eL	01 49 25	LZ	22	85.0 (1)		
		eL	01 49 25	LR	22	69.0 (1)		
		eL	01 49 25	LT	22	29.0 (1)		
							AVG.	5.11
3	WI	eP	01 02 40.3	Z	0.2	4.3 (0)	1.3	
		eS	01 02 57	R	0.4	22.0 (0)		
3	01 35 10.6		06.7 S 104.7 W				SW OF GALAPAGOS ISLANDS	
			H =033 KM					
3	LC	eP	01 42 35.8	Z	1.0	12.0 (0)	39.0	4.59
3	FM	eP	01 43 34.0	Z	1.3	14.0 (0)	46.0	4.77
3	WI	eP	01 43 57.0	Z	1.0	13.0 (0)	49.0	4.88
3	DH	eP	01 44 46.5	Z	0.9	15.0 (0)	56.0	5.02
							AVG.	4.82
3	03 12 37.8		10.3 S 117.8 E				SOUTH OF SUMBAWA	
			H =033 KM					
3	DH	eP*2	03 32 27.5	Z	1.0	30.0 (0)	147.0	
3	04 34 09.6		02.7 S 147.4 E				ADMIRALTY ISLANDS	
			H =033 KM					
3	05 00 29.7		10.3 S 117.8 E				SOUTH OF SUMBAWA	
			H =033 KM					
3	DH	eP*1	05 20 09.4	Z	1.0	40.0 (0)	147.0	
		eP*2	05 20 20.2	Z	0.8	18.0 (0)		
3	FM	eP	06 51 46.2	Z	1.3	14.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	MN	eP	06 51 57.1	Z	1.0	3.2 (0)		
3	WI	eP	06 52 27.8	Z	1.0	3.3 (0)		
3	LC	eP	07 03 00.0	Z	0.6	1.0 (0)		
3	CP	eP	10 25 56.8	Z	999.9	99.9 (9)		
3	MN	eP	11 27 32.9	Z	0.7	2.4 (0)		
3	MN	eL	11 28 50	R	1.0	5.9 (0)		
3	WI	eP	11 59 42.5	Z	1.0	5.6 (0)		
3	14 22 14.7		72.1 N 002.5 E				ARCTIC OCEAN	
			H =045 KM					
3	WI	eP	14 32 12.8	Z	1.1	4.0 (0)	60.0	4.41
3	FM	eP	14 32 18.3	Z	1.0	3.5 (0)	61.0	4.40
							AVG.	4.41
3	14 28 15.2		15.0 S 167.4 E				NEW HEBRIDES ISLANDS	
			H =134 KM					
3	MV	eP	14 40 39.4	Z	1.0	6.7 (0)	86.0	4.49
3	MN	eP	14 40 47.0	Z	1.0	5.6 (0)	87.0	4.48
							AVG.	4.49
3	15 01 39.6		37.1 N 095.5 E				TSINGHAI PROVINCE, CHINA	
			H =033 KM					
3	15 38 09.3		02.6 S 139.5 E				NEAR COAST OF NEW GUINEA	
			H =094 KM					
3	CP	eP	15 55 34.5	Z	999.9	99.9 (9)		
3	LC	eP	15 56 16.4	Z	0.5	0.9 (0)		
3	LC	e	15 58 15	Z	1.0	7.4 (0)		
3	CP	eP	16 41 25.8	Z	0.5	6.7 (0)	3.3	
		eS	16 42 07	T	0.6	22.0 (0)		
3	CP	eP	17 16 38.2	Z	0.5	4.4 (0)	3.2	
		eS	17 17 18	T	0.6	9.2 (0)		
3	18 05 06.2		37.6 S 179.5 E				NORTH ISLAND, NEW ZEALAND	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	19 04	20.8	04.5 S H =033 KM	103.4 E	SOUTHERN SUMATRA			
3	MV	eP	19 23 23.5	Z	0.8	3.0 (0)	127.0	
3	LC	eP	19 52 33.4	Z	0.3	3.5 (0)	2.5	
		e	19 52 38	Z	0.4	4.6 (0)		
		eS	19 53 05	R	0.4	6.9 (0)		
		eL	19 53 10	T	0.4	9.2 (0)		
3	20 26	07.0	02.8 S H =041 KM	129.2 E	CERAM			
3	MN	eP	22 45 05.1	Z	0.4	8.8 (0)	0.6	
		eS	22 45 14	T	0.6	16.0 (0)		
4	MN	eP	02 44 48.5	Z	0.7	2.1 (0)		
4	WI	eP	06 14 19.2	Z	0.4	0.7 (0)		
4	WI	e	06 14 23	Z	0.5	5.1 (0)		
4	WI	eL	06 15 43	R	0.8	11.0 (0)		
4	06 18	31.3	44.2 N H =033 KM	110.2 W	YELLOWSTONE NATIONAL PARK			
4	FM	eP	06 19 50.2	Z	0.5	2.6 (0)	5.0	3.98
4	WI	eP	06 20 00.5	Z	0.4	1.5 (0)	6.0	3.98
		e	06 20 07	Z	0.5	16.0 (0)		
		eLG	06 21 26	R	0.7	45.0 (0)		
4	MN	eP	06 20 33.9	Z	0.7	1.7 (0)	8.0	4.10
						AVG.		4.02
4	10 57	04.2	40.3 N H =033 KM	077.7 E	SINKIANG PROVINCE, CHINA			
4	WI	eP	12 03 10.0	Z	0.5	1.7 (0)		
4	MN	eP	12 03 11.2	Z	0.5	0.9 (0)		
4	CP	eP	12 04 27.2	Z	999.9	99.9 (9)		
4	TF	eP	12 05 21.5	Z	0.7	4.3 (0)		
4	MN	e	12 06 04	Z	0.5	3.8 (0)		
4	LC	eP	12 06 20.3	Z	0.5	1.4 (0)		
4	MN	eL	12 08 20	T	2.0	11.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	WI	eL	12 08 45	R	0.8	7.4 (0)		
4	LC	eP	15 48 09.8	Z	1.0	4.9 (0)		
4	21 07	37.4	23.1 S H =033 KM	176.5 W	TONGA ISLANDS REGION			
4	22 53	34.2	43.2 S H =033 KM	075.6 W	OFF COAST SOUTHERN CHILE 5.75-6.00 PAS			
4	LC	eP	23 05 44.2	Z	1.3	71.0 (0)	80.0	5.40
		eP	23 05 47	LZ	17	16.0 (2)		
		ePP	23 08 49	Z	1.2	9.5 (0)		
		ePP	23 08 53	LZ	21	66.0 (1)		
		eS	23 15 53	LT	22	38.0 (2)		
		eS	23 15 53	LR	17	38.0 (2)		
		ePS	23 16 42	LR	22	38.0 (2)		
		eSS	23 21 22	LR	22	34.0 (2)		
		eSSS	23 24 37	LR	20	21.0 (2)		
		eLQ	23 27 12	LT	28	32.0 (2)		
		eLR	23 33 00	LR	35	56.0 (2)		
		eL	23 34 00	LZ	23	29.0 (2)		
		eL	23 37 00	LR	16	10.0 (3)		
		eL	23 37 00	LT	16	38.0 (2)		
4	CP	eP	23 06 04.7	Z	1.2	25.0 (0)	84.0	5.22
		eP	23 06 08	LZ	15	19.0 (2)		
		ePP	23 09 25	LZ	15	64.0 (1)		
		eS	23 16 35	LR	22	32.0 (2)		
		eS	23 16 35	LT	18	14.0 (2)		
		ePS	23 17 30	LT	20	24.0 (2)		
		eSS	23 22 22	LR	22	44.0 (2)		
		eSSS	23 25 47	LR	20	31.0 (2)		
		eLQ	23 29 12	LT	33	35.0 (2)		
		eLR	23 33 37	LZ	22	48.0 (2)		
		eL	23 34 03	LZ	24	34.0 (2)		
		eL	23 34 03	LR	23	18.0 (2)		
		eL	23 34 03	LT	23	27.0 (2)		
4	DH	eP	23 06 08.0	Z	1.2	16.0 (1)	85.0	5.63
		eP	23 06 10	LZ	15	19.0 (2)		
		ePP	23 09 30	LZ	18	70.0 (1)		
		eS	23 16 30	LT	25	49.0 (2)		
		eS	23 16 30	LR	25	31.0 (2)		
		ePS	23 17 35	LT	15	38.0 (2)		
		eSS	23 22 25	LT	23	45.0 (2)		
		eLQ	23 27 57	LR	35	74.0 (2)		
		eL	23 39 00	LR	22	21.0 (2)		
		eL	23 39 00	LT	25	30.0 (2)		
4	TF	eP	23 06 22.5	Z	1.3	41.0 (0)	88.0	5.50

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	23 06 25	LZ	17	17.0 (2)		
		ePP	23 10 05	LZ	14	15.0 (2)		
		eS	23 17 10	LR	23	19.0 (2)		
		eS	23 17 10	LT	15	15.0 (2)		
		ePS	23 18 12	LT	23	99.9 (9)		
		eSS	23 23 15	LT	22	47.0 (2)		
		eSSS	23 26 35	LT	22	34.0 (2)		
		eLQ	23 29 55	LR	28	22.0 (2)		
		eLR	23 34 45	LZ	25	48.0 (2)		
		eL	23 36 15	LZ	23	91.0 (2)		
		eL	23 36 15	LR	25	20.0 (2)		
		eL	23 36 15	LT	25	64.0 (2)		
4	FM	eP	23 06 25.3	Z	1.5	15.0 (1)	89.0	5.97
		eP	23 06 27	LZ	16	11.0 (2)		
		ePP	23 09 48	LZ	18	62.0 (1)		
		eS	23 16 57	LT	17	28.0 (2)		
		eS	23 16 57	LR	22	12.0 (2)		
		ePS	23 18 10	LT	25	45.0 (2)		
		eSS	23 23 03	LT	18	52.0 (2)		
		eSSS	23 26 35	LT	27	31.0 (2)		
		eLQ	23 32 20	LR	35	48.0 (2)		
		eL	23 38 00	LR	20	94.0 (1)		
		eL	23 38 00	LT	25	39.0 (2)		
4	NG	eP	23 06 28.0	Z	1.1	10.0 (1)	90.0	5.93
4	MN	eP	23 06 31.7	Z	1.2	68.0 (0)	90.0	5.72
		e	23 07 00	Z	1.2	13.0 (0)		
		eP P	23 32 18	Z	1.0	1.7 (0)		
4	WI	eP	23 06 42.0	Z	1.5	95.0 (0)	92.0	5.90
		eP	23 06 44	LZ	15	95.0 (1)		
		ePP	23 10 30	LZ	15	93.0 (1)		
		eSS	23 24 00	LT	18	99.9 (9)		
		eSSS	23 27 27	LT	24	16.0 (2)		
		eLQ	23 31 30	LT	25	15.0 (2)		
4	MV	eP	23 06 42.2	Z	1.2	13.0 (0)	92.0	5.13
		eP	23 06 43	LZ	15	12.0 (2)		
		ePP	23 10 25	LZ	17	10.0 (2)		
		eS	23 17 47	LT	20	15.0 (2)		
		eS	23 17 47	LR	19	94.0 (1)		
		ePS	23 18 50	LR	25	99.9 (9)		
		eSS	23 23 47	LR	25	30.0 (2)		
		eSSS	23 27 33	LR	26	25.0 (2)		
		eLQ	23 37 15	LT	30	37.0 (2)		
		eLR	23 39 07	LZ	24	41.0 (2)		
		eL	23 39 07	LR	23	20.0 (2)		
		eL	23 39 07	LT	23	18.0 (2)		
							AVG.	5.60
5	SJ	eL	01 01 20	LT	20	24.0 (2)		
5	DH	eL	01 16 50	LZ	22	82.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	DH	eL	01 16 50	LR	25	21.0 (1)		
5	DH	eL	01 16 50	LT	20	50.0 (1)		
5	CP	eP	05 15 41.8	Z	0.3	25.0 (0)	0.4	
		eS	05 15 48	T	0.3	26.0 (0)		
5	MV	eP	05 23 40.8	Z	0.5	2.5 (0)	3.1	
		eS	05 24 18	T	0.5	13.0 (0)		
5	WI	eP	05 24 22.5	Z	0.5	1.7 (0)		
5	MN	eP	05 24 22.6	Z	0.8	1.9 (0)	6.1	
		eS	05 25 35	T	1.0	5.7 (0)		
5	MV	eP	06 32 27.8	Z	0.5	2.5 (0)	2.4	
		eS	06 32 58	T	0.5	9.8 (0)		
5	WI	eP	06 33 05.3	Z	0.4	1.5 (0)		
5	MN	eP	06 33 05.4	Z	0.6	1.0 (0)		
5	LC	eP	10 43 41.5	Z	0.8	11.0 (0)		
5	FM	eP	10 44 41.5	Z	0.5	2.5 (0)		
5	MN	eP	10 45 08.9	Z	0.6	1.4 (0)		
5	WI	eP	10 45 14.5	Z	0.5	2.1 (0)		
5	11 46 12.1		66.4 N 006.8 E				OFF COAST OF NORWAY	
			H =033 KM					
5	WI	eP	11 56 48.2	Z	1.0	3.3 (0)	65.0	4.42
5	LC	eP	11 57 17.8	Z	0.8	1.5 (0)	69.0	4.14
5	CP	eP	11 57 43.5	Z	1.0	2.9 (0)	74.0	4.20
5	DH	eL	12 12 20	LZ	23	19.0 (1)	49.0	
5	SJ	eL	12 36 15	LT	20	52.0 (1)	71.0	
							AVG.	4.25
5	WI	eP	12 24 12.5	Z	0.5	1.3 (0)		
5	MN	eP	12 39 16.5	Z	0.3	3.6 (0)	0.6	
		eS	12 39 25	R	0.3	14.0 (0)		
5	CP	eP	13 40 18.1	Z	0.2	17.0 (0)	0.1	
		eS	13 40 22	T	0.3	28.0 (0)		
5	WI	eP	16 57 26.6	Z	1.0	4.5 (0)		
5	MV	eP	17 08 47.0	Z	0.4	2.3 (0)	0.8	
		eS	17 08 58	R	0.4	55.0 (0)		
5	MN	eP	17 09 31.6	Z	0.5	3.5 (0)	3.7	
		eS	17 10 17	R	0.5	3.8 (0)		
5	CP	eP	18 16 03.0	Z	0.2	29.0 (0)	2.6	
		eS	18 16 08	T	0.3	34.0 (0)		
5	TF	eP	18 16 10.3	Z	1.0	8.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	DH	eP	19 08 37.3	Z	0.4	13.0 (0)	1.5	
		eS	19 08 58	R	0.4	22.0 (0)		
5	LC	eP	19 51 58.5	Z	0.2	10.0 (0)	1.3	
		eS	19 52 15	R	0.3	8.7 (0)		
5	LC	eP	20 10 18.3	Z	0.4	0.8 (0)	2.9	
		eS	20 10 55	T	0.5	1.9 (0)		
5	20 54 41.1		49.8 S 114.9 W					SOUTH PACIFIC OCEAN
			H = 033 KM					
5	CP	eP	21 07 00.2	Z	1.1	7.2 (0)	82.0	4.62
		eL	21 33 40	LZ	22	41.0 (1)		
5	LC	eP	21 07 04.6	Z	1.0	3.7 (0)	83.0	4.47
		eL	21 35 10	LZ	23	48.0 (1)		
		eL	21 35 10	LR	24	17.0 (1)		
		eL	21 35 10	LT	24	38.0 (1)		
5	TF	eL	21 35 00	LZ	20	65.0 (1)	85.0	
		eL	21 35 00	LR	20	60.0 (1)		
		eL	21 35 00	LT	20	52.0 (1)		
5	SJ	eL	21 35 40	LR	21	89.0 (1)	78.0	
5	MV	eL	21 36 30	LZ	20	36.0 (1)	89.0	
5	MN	eL	21 36 40	LZ	24	51.0 (1)	90.0	
		eL	21 36 40	LR	22	39.0 (1)		
		eL	21 36 40	LT	24	46.0 (1)		
5	FM	eL	21 37 45	LZ	25	24.0 (1)	89.0	
5	DH	eL	21 40 40	LZ	35	57.0 (1)	99.0	
							AVG.	4.55
5	LC	eP	21 26 58.5	Z	0.2	10.0 (0)	1.5	
		eS	21 27 18	T	0.3	5.9 (0)		
5	CP	eP	22 40 06.1	Z	0.2	35.0 (0)	0.6	
		eS	22 40 15	T	0.3	32.0 (0)		
5	SJ	eP	23 18 15.0	Z	0.8	76.0 (0)		
5	LC	eP	23 19 47.0	Z	0.5	0.9 (0)	2.0	
		eS	23 20 15	R	0.6	7.0 (0)		
5	FM	eP	23 21 27.8	Z	0.6	2.8 (0)		
5	MN	eP	23 21 52.1	Z	0.7	1.7 (0)		
6	00 09 47.2		28.0 N 055.6 E					SOUTHERN IRAN
			H = 033 KM					
6	WI	ePP	00 28 54	Z	1.5	13.0 (0)	110.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	WI	eL	01 09 36	LZ	32	48.0 (1)	110.0	
		eL	01 14 15	LZ	22	32.0 (1)		
		eL	01 14 15	LR	25	46.0 (1)		
		eL	01 14 15	LT	25	76.0 (1)		
6	LC	ePP	00 29 38	Z	1.2	5.7 (0)	118.0	
		eL	01 06 06	LT	30	45.0 (1)		
		eL	01 15 25	LZ	23	28.0 (1)		
		eL	01 15 25	LR	25	31.0 (1)		
		eL	01 15 25	LT	25	10.0 (2)		
6	MV	ePPS	00 40 42	LT	35	87.0 (1)	113.0	
		eL	01 05 05	LZ	25	32.0 (1)		
		eL	01 14 46	LR	22	46.0 (1)		
		eL	01 14 46	LT	25	70.0 (1)		
6	SJ	ePPS	00 41 34	LT	20	72.0 (1)	120.0	
		eL	01 08 59	LT	20	46.0 (1)		
6	MN	eSSS	00 49 17	LT	30	28.0 (1)	113.0	
		eL	01 04 35	LT	18	32.0 (1)		
		eL	01 21 00	LZ	23	52.0 (1)		
		eL	01 21 00	LR	17	31.0 (1)		
		eL	01 21 00	LT	23	65.0 (1)		
6	DH	eL	00 53 57	LZ	35	10.0 (2)	97.0	
		eL	01 08 21	LZ	20	90.0 (1)		
		eL	01 08 21	LR	22	61.0 (1)		
		eL	01 08 21	LT	21	35.0 (1)		
6	FM	eLQ	01 06 07	LT	32	65.0 (1)	113.0	
		eLR	01 08 15	LZ	31	64.0 (1)		
		eL	01 16 35	LZ	18	30.0 (1)		
		eL	01 16 35	LR	23	39.0 (1)		
		eL	01 16 35	LT	24	50.0 (1)		
6	TF	eL	01 12 25	LT	36	90.0 (1)	118.0	
		eL	01 19 30	LZ	25	75.0 (1)		
		eL	01 19 30	LR	20	64.0 (1)		
		eL	01 19 30	LT	23	85.0 (1)		
6	CP	eL	01 15 05	LZ	27	39.0 (1)	120.0	
		eL	01 19 03	LZ	25	57.0 (1)		
		eL	01 19 03	LR	22	90.0 (1)		
		eL	01 19 03	LT	22	64.0 (1)		
6	03 36 46.9		45.8 N 122.5 W					WASHINGTON-OREGON BORDER
			H = 044 KM					MAG 5.25-5.50 PAL
6	WI	eP	03 38 10.6	Z	999.9	99.9 (9)	5.6	
		eP	03 38 11	LZ	13	87.0 (1)		
		eL	03 39 18	LT	12	61.0 (2)		
6	MV	eP	03 38 23.3	Z	0.5	25.0 (0)	7.0	5.28
		eP	03 38 27	LZ	15	82.0 (1)		
		eL	03 39 52	LR	999.9	99.9 (9)		
		eL	03 40 17	R	1.5	32.0 (1)		
6	MN	eP	03 38 43.5	Z	999.9	99.9 (9)	8.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	MN	eP	03 38 56	LZ	10	18.0 (2)	8.0	
		eL	03 41 16	R	999.9	99.9 (9)		
6	FM	eP	03 39 11.8	Z			10.0	
		eP	03 39 12	LZ	15	50.0 (1)		
		eL	03 41 20	LR	15	68.0 (2)		
		eL	03 42 04	R	2.5	14.0 (2)		
6	TF	eP	03 39 22.4	Z	1.0	30.0 (0)	11.0	5.42
		e	03 39 31	Z	0.8	43.0 (0)		
		e	03 40 02	LT	28	66.0 (1)		
		eLQ	03 42 02	LT	28	30.0 (2)		
		eL	03 42 45	LZ	16	31.0 (2)		
		eL	03 42 45	LR	17	12.0 (3)		
		eL	03 42 45	LT	19	11.0 (2)		
		eL	03 43 00	R	2.5	77.0 (1)		
		eLR	03 43 37	LZ	16	64.0 (2)		
6	CP	eP	03 40 02.7	Z	1.4	17.0 (0)	14.0	4.42
		e	03 40 09	Z	1.4	90.0 (0)		
		eP	03 40 10	LZ	13	46.0 (1)		
		e	03 40 18	Z	1.5	10.0 (1)		
		eLQ	03 43 50	LT	15	84.0 (2)		
		eL	03 44 03	T	4.0	23.0 (2)		
		eL	03 45 50	LZ	16	99.9 (9)		
		eL	03 45 50	LR	15	21.0 (3)		
		eL	03 45 50	LT	18	30.0 (2)		
6	LC	eP	03 40 57.5	Z	1.2	15.0 (0)	18.0	4.04
		eP	03 40 58	LZ	16	73.0 (1)		
		e	03 44 45	LZ	18	11.0 (2)		
		eL	03 45 39	LT	34	26.0 (2)		
		eL	03 46 28	T	4.5	10.0 (2)		
6	NG	eP	03 41 55.6	Z	1.3	59.0 (0)	24.0	4.91
		e	03 42 05	Z	1.0	61.0 (0)		
		eL	03 49 19	T	2.8	60.0 (0)		
6	SJ	eP	03 42 22.0	Z	1.0	55.0 (0)	27.0	5.15
		eS	03 47 00	LR	17	18.0 (2)		
		eL	03 49 15	LT	36	17.0 (2)		
		eL	03 51 32	LR	19	15.0 (2)		
		eL	03 51 32	LT	23	77.0 (2)		
6	DH	eLQ	03 53 06	LT	38	14.0 (2)	34.0	
		eL	03 55 13	LZ	21	50.0 (1)		
		eL	03 55 13	LR	18	22.0 (2)		
		eL	03 55 13	LT	16	66.0 (2)		
		eLR	03 55 57	LZ	25	46.0 (2)		
							AVG.	4.87
6	WI	eP	04 17 36.6	Z	0.8	1.3 (0)		
6	WI	eL	04 18 50	R	1.0	4.4 (0)		
6	CP	eP	05 59 29.6	Z	0.2	99.9 (9)	0.8	
		eS	05 59 40	T	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	CP	eP	06 08 52.0	Z	0.2	99.9 (9)	1.5	
		eS	06 09 02	T	0.3	99.9 (9)		
6	CP	eP	06 22 11.6	Z	999.9	99.9 (9)	0.4	
		eS	06 22 18	T	999.9	99.9 (9)		
6	MN	eP	06 36 07.1	Z	1.0	3.3 (0)		
6	MN	eP	10 02 40.4	Z	0.6	1.0 (0)		
6	LC	eP	10 10 38.8	Z	1.0	2.5 (0)		
6	11 57 17.0		37.5 N 119.0 W			NEVADA-CALIFORNIA BORDER		
			H = 033 KM					
6	MN	eP	11 57 34.9	Z	999.9	99.9 (9)	1.0	
		eL	11 57 46	LT	13	12.0 (2)		
6	TF	eP	11 58 00.2	Z	0.4	23.0 (0)	2.8	
6	MV	eP	11 58 00.5C	Z	0.5	10.0 (0)	2.8	
		eL	11 58 47	LT	10	33.0 (1)		
		eLG	11 59 16	R	999.9	99.9 (9)		
6	WI	eP	11 58 20.6	Z	999.9	99.9 (9)	4.0	
6	CP	eP	11 58 37.8	Z			5.5	
		e	11 58 50	Z	0.5	14.0 (0)		
		eL	11 59 58	T	999.9	99.9 (9)		
6	FM	eP	11 58 42.6	Z			6.0	
		e	11 58 55	Z	0.3	9.9 (0)		
		eLG	12 00 02	R	0.4	13.0 (0)		
6	12 23 24.6		04.0 S 079.8 W			NEAR COAST OF ECUADOR		
			H = 101 KM					
6	LC	eP	12 31 26.7	Z	1.0	3.9 (0)	45.0	4.23
		epP	12 31 48	Z	1.0	6.2 (0)		
6	DH	eP	12 32 02.2	Z	1.0	19.0 (0)	49.0	4.97
6	MN	eP	12 32 49.4	Z	0.8	1.5 (0)	55.0	4.07
		epP	12 33 12	Z	1.0	4.1 (0)		
6	FM	eP	12 32 51.0	Z	0.5	1.3 (0)	55.0	4.21
6	WI	eP	12 32 59.2	Z	1.0	3.3 (0)	57.0	4.32
							AVG.	4.36
6	15 07 35.8		12.1 N 124.1 E			NEAR W. COAST SAMAR, P. I.		
			H = 200 KM					
6	15 08 05.1		17.3 N 068.3 W			MONA PASSAGE		
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	15 15 19.0	Z	1.0	4.9 (0)	38.0	4.26
		eP AS	15 15 30.1	Z	0.9	4.7 (0)		4.28
6	FM	eP	15 16 11.5	Z			44.0	
6	MN	eP	15 16 45.3	Z	0.5	1.3 (0)	48.0	4.22
		eP AS	15 16 55.8	Z	0.6	1.7 (0)		4.25
6	WI	eP	15 16 46.0	Z	0.5	3.4 (0)	48.0	4.63
		eP AS	15 16 56.7	Z	0.8	5.9 (0)		4.66
6	MV	eP	15 17 04.0	Z	0.5	1.4 (0)	51.0	4.18
							AS :	4.40
							AVG.	4.32
6	MN	eP	19 46 59.0	Z	1.2	5.1 (0)		
6	20 48 42.4		10.5 N 121.9 E				NEAR W. COAST PANAY; P. I.	
			H = 033 KM					
6	21 26 47.8		04.9 S 152.7 E				NEAR COAST OF NEW IRELAND	
			H = 068 KM					
6	MN	eP	23 41 44.0	Z	1.0	1.7 (0)		
7	MN	eL	00 38 21	LZ	25	18.0 (1)		
7	03 56 38.5		13.3 N 144.8 E				MARIANA ISLANDS	
			H = 121 KM					
7	WI	eP	04 09 12.6	Z	0.5	2.1 (0)	88.0	4.48
7	MN	eP	04 09 14.0	Z	1.0	3.3 (0)	88.0	4.28
7	CP	eP	04 09 27.5	Z	0.7	2.9 (0)	91.0	4.70
							AVG.	4.49
7	05 12 17.3		19.9 S 178.5 W				FIJI ISLANDS REGION	
			H = 600 KM					
7	CP	eP	05 23 22.3	Z	0.9	4.5 (0)	79.0	3.90
7	MV	eP	05 23 24.0	Z	1.0	3.3 (0)	79.0	3.72
7	MN	eP	05 23 32.5	Z	0.9	2.5 (0)	81.0	3.64
7	WI	eP	05 23 43.0	Z	0.6	2.8 (0)	83.0	3.92
7	LC	eP	05 23 59.0	Z	0.9	2.8 (0)	86.0	3.99
							AVG.	3.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	06 22 16.0		23.2 S 179.9 W				FIJI ISLANDS REGION	
			H = 534 KM					
7	CP	eP	06 33 43.2	Z	1.0	7.3 (0)	82.0	4.16
7	MV	eP	06 33 45.2	Z	0.9	7.6 (0)	82.0	4.43
7	MN	eP	06 33 52.2	Z	1.0	4.1 (0)	84.0	4.01
7	WI	eP	06 34 03.3	Z	0.9	3.4 (0)	86.0	4.01
7	FM	eP	06 34 13.6	Z	0.7	3.4 (0)	89.0	4.29
7	LC	eP	06 34 16.5	Z	0.7	4.3 (0)	89.0	4.39
							AVG.	4.22
7	MN	eP	06 30 16.5	Z	0.8	1.9 (0)		
7	NG	eP	09 55 32.8	Z	1.2	47.0 (0)		
7	LC	eP	10 08 42.6	Z	1.0	3.7 (0)		
7	NG	eP	10 26 12.5	Z	1.0	40.0 (0)		
7	11 44 37.3		20.0 S 169.5 E				LOYALTY ISLANDS REGION	
			H = 091 KM					
7	12 57 45.7		40.5 N 029.4 W				AZORES	
			H = 033 KM					
7	LC	eP	13 07 57.4	Z	1.1	14.0 (0)	61.0	4.97
		ePCP	13 08 42	Z	1.0	4.9 (0)		
		eLR	13 26 40	LZ	45	13.0 (2)		
		eL	13 32 00	LZ	20	11.0 (2)		
		eL	13 32 00	LR	18	84.0 (1)		
		eL	13 32 00	LT	20	11.0 (2)		
7	FM	eP	13 08 00.3	Z	1.0	24.0 (0)	61.0	5.25
		eLR	13 27 00	LZ	40	59.0 (1)		
		eL	13 33 00	LZ	22	87.0 (1)		
		eL	13 33 00	LR	23	86.0 (1)		
		eL	13 33 00	LT	22	61.0 (1)		
7	WI	eP	13 08 16.0	Z	1.3	42.0 (0)	64.0	5.41
		eSSS	13 23 50	LR	25	25.0 (1)		
		eLR	13 27 50	LZ	45	87.0 (1)		
		eL	13 36 00	LZ	18	12.0 (2)		
		eL	13 36 00	LR	19	55.0 (1)		
		eL	13 36 00	LT	20	19.0 (2)		
7	MN	eP	13 08 29.2	Z	1.1	16.0 (0)	66.0	5.06
		e	13 10 24	Z	1.5	9.7 (0)		
		eLR	13 32 30	LZ	23	70.0 (1)		
		eL	13 32 30	LR	20	47.0 (1)		
		eL	13 32 30	LT	23	55.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MV	eP	13 08 38.2	Z	1.2	18.0 (0)	67.0	5.08
		eLR	13 29 30	LZ	40	60.0 (1)		
		eL	13 36 25	LZ	23	89.0 (1)		
7	CP	eL	13 36 25	LR	22	59.0 (1)	68.0	5.22
		eL	13 36 25	LT	24	63.0 (1)		
		eP	13 08 42.2	Z	1.2	27.0 (0)		
		eLR	13 30 50	LZ	40	37.0 (1)		
7	DH	eL	13 38 00	LZ	18	76.0 (1)	34.0	
		eL	13 38 00	LR	20	72.0 (1)		
		eL	13 38 00	LT	20	57.0 (1)		
		eLR	13 13 25	LZ	30	16.0 (2)		
		eL	13 15 20	LZ	21	13.0 (2)		
7	SJ	eL	13 15 20	LR	20	98.0 (1)	57.0	
		eL	13 15 20	LT	20	63.0 (1)		
		eLR	13 26 00	LR	30	78.0 (1)		
		eL	13 31 00	LZ	25	34.0 (1)		
7	TF	eL	13 31 00	LR	24	63.0 (1)	69.0	
		eL	13 31 00	LT	24	18.0 (2)		
		eLR	13 36 00	LZ	23	90.0 (1)		
		eL	13 36 00	LR	20	51.0 (1)		
							AVG.	5.17

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	16 03 04.1		07.8 S 119.8 E				FLORES SEA	
			H = 156 KM					
7	MV	eP	16 21 32.5	Z	1.2	15.0 (0)	118.0	
7	TF	eP	16 21 37.0	Z	1.0	26.0 (0)	119.0	
7	WI	eP	16 21 37.1	Z	0.5	11.0 (0)	120.0	
		ePP	16 22 59	Z	1.5	16.0 (0)		
		eSKKP	16 35 39	Z	1.0	3.3 (0)		
7	MN	eP	16 21 38.2	Z	1.0	8.3 (0)	120.0	
		ePP	16 23 02	Z	1.5	24.0 (0)		
		eP	16 21 43.6	Z	0.9	28.0 (0)	123.0	
7	FM	eP	16 21 47.1	Z	1.0	17.0 (0)	124.0	
7	LC	eP	16 22 00.8	Z	1.0	21.0 (0)	131.0	
		eP	16 22 50	Z	1.0	4.9 (0)		
		eSKP	16 25 04	Z	0.9	38.0 (0)		
		eSKP	16 26 29	Z	1.2	7.6 (0)		
		eP	16 22 05.6	Z	1.0	31.0 (0)	136.0	
7	NG	eSKP	16 25 20	Z	1.0	17.0 (0)		
		eP	16 22 06.0	Z	1.4	96.0 (0)	139.0	
7	SJ	ePP	16 25 32	Z	1.0	40.0 (0)		
		eP	16 22 18.4	Z	0.7	43.0 (0)	144.0	
		ePP	16 25 42	Z	1.5	14.0 (1)		
7	DH	eP	16 22 18.4	Z	0.7	43.0 (0)	144.0	
		eSKKP	16 33 50	Z	1.0	29.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MN	eP	17 29 51.2	Z	1.0	4.1 (0)		
7	20 02 12.8		20.4 N 122.1 E				BATAN ISLANDS, P.I. REGION	
			H = 057 KM					
7	21 57 17.5		15.5 N 120.3 E				NEAR CENTRAL LUZON, P.I.	
			H = 095 KM					
7	22 26 33.8		51.5 N 176.1 E				RAT-ALEUTIAN ISLANDS	
			H = 043 KM					
7	MV	eP	22 34 41.5	Z	0.7	2.5 (0)	44.0	4.05
7	WI	eP	22 34 50.7	Z	0.7	1.7 (0)	46.0	4.10
7	MN	eP	22 35 00.5	Z	1.0	4.1 (0)	47.0	4.41
7	FM	eP	22 35 26.6	Z	0.8	40.0 (0)	50.0	4.40
7	LC	eP	22 36 23.5	Z	0.9	3.8 (0)	58.0	4.43
							AVG.	4.28
7	DH	eP	23 11 16.4	Z	0.7	19.0 (0)		
8	00 02 08.6		15.1 S 075.6 W				NEAR COAST SOUTHERN PERU	
			H = 033 KM					
8	LC	eP	00 11 46.0	Z	0.8	3.6 (0)	56.0	4.45
		eLR	00 38 25	LZ	20	75.0 (1)		
		eL	00 38 35	LZ	20	71.0 (1)		
		eL	00 38 35	LR	20	56.0 (1)		
		eL	00 38 35	LT	18	18.0 (1)		
8	DH	eP	00 11 53.7	Z	0.8	44.0 (0)	57.0	5.54
		eL	00 33 20	LZ	20	24.0 (1)		
8	FM	eP	00 12 43.6	Z	1.0	6.8 (0)	64.0	4.73
8	SJ	eL	00 29 16	LT	23	56.0 (1)	48.0	
8	MN	eLR	00 36 55	LZ	25	30.0 (1)	68.0	
		eLR	00 37 00	LZ	30	36.0 (1)	69.0	
8	WI	eL	00 41 22	LZ	20	23.0 (1)		
		eL	00 41 22	LR	18	42.0 (1)		
		eL	00 41 22	LT	18	17.0 (1)		
8	MV	eL	00 37 20	LZ	22	20.0 (1)	67.0	
							AVG.	4.91
8	00 33 13.8		04.4 S 105.5 W				S.W. OF GALAPAGOS ISLANDS	
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	LC	eP	00 40 21.2	Z	1.5	18.0 (0)	37.0	4.65
8	CP	eP	00 40 40.0	Z	1.0	8.7 (0)	39.0	4.41
		eS	00 46 40	LR	18	23.0 (2)		
		eS	00 46 40	LT	26	82.0 (1)		
		eSS	00 49 40	LT	999.9	99.9 (9)		
8	TF	eP	00 41 02.0	Z	1.0	30.0 (0)	42.0	5.01
		eS	00 47 26	LT	17			
		eS	00 47 26	LR	22	14.0 (2)		
		eSS	00 50 52	LR	25	99.9 (9)		
		eLR	00 52 50	LZ	999.9	99.9 (9)		
8	FM	eP	00 41 20.0	Z	1.0	6.8 (0)	44.0	4.33
		eLR	00 55 10	LZ	24	29.0 (2)		
		eL	00 55 49	LZ	24	29.0 (2)		
		eL	00 55 49	LR	23	15.0 (2)		
		eL	00 55 49	LT	25	32.0 (2)		
8	MN	eP	00 41 23.0	Z	1.5	19.0 (0)	44.0	4.60
		eS	00 48 05	LR	25	94.0 (1)		
		eS	00 48 05	LT	27	20.0 (2)		
		eSS	00 51 25	LT	30	17.0 (2)		
		eLQ	00 52 35	LT	32	99.9 (9)		
		eLR	00 54 28	LZ	999.9	99.9 (9)		
8	MV	eP	00 41 36.0	Z	1.3	13.0 (0)	46.0	4.73
		eS	00 48 30	LR	13	14.0 (2)		
		eS	00 48 30	LT	21	18.0 (2)		
		eSS	00 52 00	LT	23	86.0 (1)		
		eLQ	00 52 45	LT	30	23.0 (2)		
		eLR	00 55 00	LZ	24	99.9 (9)		
8	WI	eP	00 41 42.0	Z	0.9	12.0 (0)	47.0	4.93
		eSS	00 52 18	LT	25	99.9 (9)		
		eLQ	00 53 42	LT	33	99.9 (9)		
		eLR	00 56 04	LZ	30	99.9 (9)		
8	DH	eLR	00 55 22	LZ	18	60.0 (1)	54.0	
		eL	01 04 08	LZ	999.9	99.9 (9)		
		eL	01 04 08	LR	21	15.0 (2)		
		eL	01 04 08	LT	21	31.0 (2)		
				AVG.				4.67
8	TF	eP	02 38 39.2	Z	1.0	8.6 (0)		
8	WI	eP	02 39 21.5	Z	1.2	5.1 (0)		
8	CP	eL	02 49 25	LZ	21	81.0 (1)		
8	TF	eL	02 50 48	LZ	18	13.0 (2)		
8	MN	eL	02 52 38	LZ	27	69.0 (1)		
8	MN	eL	02 52 55	LZ	24	65.0 (1)		
8	MN	eL	02 52 55	LR	35	46.0 (1)		
8	MN	eL	02 52 55	LT	22	62.0 (1)		
8	MV	eL	02 53 00	LZ	20	67.0 (1)		
8	WI	eL	02 54 00	LZ	25	64.0 (1)		
8	LC	eP	03 31 15.2	Z	0.7	2.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	07 48 44.7		20.1 S 168.6 E				LOYALTY ISLANDS REGION	
			H = 033 KM					
8	MV	eP	08 01 32.8	Z	1.1	8.4 (0)	88.0	4.88
8	MN	eP	08 01 42.3	Z	1.2	8.8 (0)	90.0	4.83
		eLR	08 32 30	LZ	20	20.0 (1)		
		eL	08 40 55	LZ	17	22.0 (1)		
		eL	08 40 55	LR	18	22.0 (1)		
		eL	08 40 55	LT	15	20.0 (1)		
8	CP	eP	08 01 45.0	Z	1.0	2.9 (0)	91.0	4.53
8	WI	eP	08 01 50.3	Z	1.1	5.5 (0)	92.0	4.80
							AVG.	4.76
8	DH	eL	09 11 50	LZ	20	18.0 (1)		
8	10 03 22.8		14.7 S 167.1 E				NEW HEBRIDES ISLANDS	
			H = 086 KM					
8	MV	eP	10 15 53.2	Z	0.8	3.0 (0)	86.0	4.30
8	MN	eP	10 16 03.2	Z	1.0	3.3 (0)	88.0	4.36
8	WI	eP	10 16 10.5	Z	1.0	2.2 (0)	89.0	4.26
							AVG.	4.31
8	WI	eP	10 06 57.0	Z	1.0	3.3 (0)		
8	WI	e	10 07 22	Z	0.8	2.0 (0)		
8	MV	eP	13 30 48.2	Z	0.3	1.2 (0)	1.5	
		eS	13 31 08	T	0.4	5.5 (0)		
8	15 13 42.7		12.0 S 166.8 E				SANTA CRUZ ISLANDS	
			H = 234 KM					
8	MV	eP	15 25 46.8	Z	0.7	3.4 (0)	84.0	4.22
8	MN	eP	15 25 57.5	Z	1.0	4.9 (0)	86.0	4.29
8	WI	eP	15 26 05.2	Z	0.5	2.1 (0)	87.0	4.26
							AVG.	4.26
8	LC	eP	16 26 16.2	Z	0.7	1.2 (0)		
8	LC	eL	16 27 42	R	0.8	11.0 (0)		
8	16 29 32.5		15.0 S 179.2 W				FIJI ISLANDS REGION	
			H = 408 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MN	eP	16 40 49.3	Z	1.0	4.1 (0)	78.0	4.09
8	WI	eP	16 41 00.0	Z	0.8	3.3 (0)	80.0	4.09
8	LC	eP	16 41 21.2	Z	0.8	2.2 (0)	84.0	3.93
						AVG.		4.04
8	17 17 54.3		31.5 S 180.0 H =071 KM				KERMADEC ISLANDS REGION	
8	TF	eP	17 30 33.5	Z	0.8	5.1 (0)	87.0	4.66
8	CP	eP	17 30 37.0	Z	1.0	8.7 (0)	88.0	4.83
8	MV	eP	17 30 42.0	Z	1.0	3.4 (0)	89.0	4.46
8	WI	eP	17 30 59.0	Z	0.9	3.4 (0)	93.0	4.71
						AVG.		4.67
8	LC	eP	18 07 39.2	Z	0.3	1.8 (0)	2.9	
		eS	18 08 16	T	0.5	4.8 (0)		
8	18 43 42.4		17.9 S 167.9 E H =033 KM				TONGA ISLANDS REGION	
8	18 48 06.3		45.2 N 147.2 E H =148 KM				KURILE ISLANDS REGION	
8	MN	eP	18 58 44.5	Z	0.7	2.4 (0)	67.0	4.14
8	LC	eP	20 41 09.7	Z	1.0	32.0 (0)		
8	MN	eP	20 42 37.0	Z	0.8	2.4 (0)		
8	WI	eP	20 42 43.2	Z	0.8	3.9 (0)		
8	21 15 56.0		52.0 N 174.9 E H =033 KM				NEAR ALEUTIAN ISLANDS	
8	MV	eP	21 24 08.8	Z	1.0	6.8 (0)	45.0	4.63
8	TF	eP	21 24 36.6	Z	0.8	5.1 (0)	48.0	4.50
8	MN	eP	21 24 37.5	Z	1.2	6.3 (0)	48.0	4.52
8	FM	eP	21 24 53.1	Z	1.2	10.0 (0)	51.0	4.65
8	CP	eP	21 25 07.3	Z	0.6	1.2 (0)	52.0	4.03
		eLR	21 40 52	LZ	25	48.0 (1)		
8	LC	eP	21 25 50.2	Z	1.0	7.4 (0)	58.0	4.68
8	DH	eP	21 26 55.0	Z	0.6	7.9 (0)	68.0	4.99
		eLR	21 50 38	LZ	31	12.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	22 00 53	LZ	17	69.0 (1)		
		eL	22 00 53	LR	18	52.0 (1)		
		eL	22 00 53	LT	18	37.0 (1)		
8	WI	eLR	21 36 00	LR	20	32.0 (1)	46.0	
		eL	21 39 30	LZ	23	47.0 (1)		
		eL	21 39 30	LR	25	17.0 (1)		
		eL	21 39 30	LT	24	53.0 (1)		
						AVG.		4.57
8	MN	eP	21 36 35.8	Z	0.8	1.9 (0)		
9	01 11 02.1		33.4 N 047.2 E H =033 KM				IRAQ IRAN BORDER REGION	
9	02 14 47.6		45.8 N 026.7 E H =130 KM				CENTRAL ROMANIA	
9	04 47 20.4		10.4 N 126.2 E H =033 KM				OFF E. COAST OF SAMAR	
9	CP	eP	06 05 43.0	Z	0.5	27.0 (0)	1.5	
		eS	06 06 04	T	0.5	13.0 (1)		
9	WI	eP	06 07 24.8	Z	0.6	1.9 (0)		
9	08 26 10.0		20.5 S 178.8 W H =522 KM				FIJI ISLANDS REGION	
9	09 21 30.8		35.8 N 140.3 E H =033 KM				NEAR COAST HONSHU JAPAN	
9	MV	eP	09 33 05.0	Z	1.0	5.1 (0)	74.0	4.44
9	WI	eP	09 33 12.8	Z	1.0	9.2 (0)	75.0	4.70
9	FM	eP	09 33 37.8	Z	1.3	21.0 (0)	80.0	4.88
9	CP	eP	09 33 44.1	Z	1.1	14.0 (0)	81.0	4.84
9	LC	eP	09 34 17.1	Z	1.0	3.6 (0)	88.0	4.56
						AVG.		4.68
9	13 51 38.5		27.5 N 140.1 E H =452 KM				BONIN ISLANDS REGION	
9	MV	eP	14 02 57.4	Z	1.0	10.0 (0)	79.0	4.34

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	WI	eP	14 03 06.4	Z	0.9	11.0 (0)	81.0	4.48
9	FM	eP	14 03 29.1	Z	1.2	17.0 (0)	86.0	4.65
9	CP	eP	14 03 31.4	Z	1.0	15.0 (0)	86.0	4.67
9	LC	eP	14 04 04.5	Z	0.6	2.0 (0)	93.0	4.32
							AVG.	4.49
9	DH	eP	15 29 30.6	Z	0.6	40.0 (0)		
9	DH	eP	17 07 22.0	Z	0.5	14.0 (0)	1.7	
		eS	17 07 46	R	0.5	47.0 (0)		
9	18 02 27.9		05.4 S 132.5 E				BANDA SEA	
			H =033 KM					
9	18 08 47.9		40.3 N 029.3 W				AZORES	
			H =033 KM					
9	LC	eP	18 19 00.9	Z	1.0	6.0 (0)	61.0	4.65
		eL	18 38 40	LZ	27	29.0 (1)		
		eL	18 43 07	LZ	20	27.0 (1)		
		eL	18 43 07	LR	17	18.0 (1)		
		eL	18 43 07	LT	20	28.0 (1)		
9	WI	eP	18 19 19.5	Z	1.0	12.0 (0)	64.0	4.98
9	MV	eP	18 19 41.5	Z	1.0	6.8 (0)	67.0	4.73
9	CP	eP	18 19 45.9	Z	1.0	8.8 (0)	68.0	4.85
							AVG.	4.80
9	WI	eP	18 36 54.4	Z	0.5	0.8 (0)	3.1	
		eS	18 37 36	T	0.9	18.0 (0)		
9	CP	eP	19 09 54.8	Z	0.5	3.3 (0)		
9	LC	eP	21 10 23.2	Z	0.3	14.0 (0)	1.5	
		eS	21 10 43	T	0.5	14.0 (0)		
9	21 15 21.7		24.8 N 109.2 W				GULF OF CALIFORNIA	
			H =033 KM					
9	LC	eP	21 17 21.3	Z	1.0	7.2 (0)	8.0	4.66
		e	21 17 51	Z	0.9	9.2 (0)		
		eL	21 19 10	LR	15	20.0 (2)		
		eLG	21 19 18	R	1.6	41.0 (1)		
		eL	21 19 45	LR	15	20.0 (2)		
		eL	21 19 45	LT	14	68.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	SJ	eL	21 21 25	R	2.4	51.0 (1)	10.0	
		eL	21 22 00	LT	15	16.0 (2)		
							AVG.	4.66
9	WI	eP	22 17 00.9	Z	0.5	56.0 (0)		
10	CP	eP	00 38 28.8	Z	0.2	21.0 (0)	0.1	
		eS	00 38 32	T	0.3	42.0 (0)		
10	FM	eP	00 42 44.2	Z	0.3	9.0 (0)		
10	CP	eP	00 46 53.0	Z	0.3	29.0 (0)	1.5	
		eS	00 47 13	T	0.3	47.0 (0)		
10	01 32 03.7		27.9 N 055.6 E				NEAR SOUTH COAST OF IRAN	
			H =033 KM					
10	01 33 19.0		43.8 N 147.2 E				KURILE ISLANDS	
			H =060 KM				MAG 5.50-	PAL
10	MV	eP	01 43 55.2	Z	1.5	20.0 (1)	65.0	5.94
		eP	01 43 58	LZ	18	53.0 (1)		
		eS	01 52 28	LR	18	46.0 (1)		
		eS	01 52 28	LT	20	11.0 (2)		
		eS	01 52 34	R	3.0	17.0 (1)		
		eS	01 52 34	T	3.5	26.0 (1)		
		eLQ	02 00 05	LT	30	26.0 (2)		
		eLR	02 03 28	LZ	28	20.0 (2)		
		eL	02 05 25	LZ	25	21.0 (2)		
		eL	02 05 25	LR	25	81.0 (1)		
		eL	02 05 25	LT	23	92.0 (1)		
		eP'P'	02 12 35	Z	1.5	10.0 (0)		
10	WI	eP	01 44 02.5	Z	1.3	12.0 (1)	66.0	5.74
		eP	01 44 03	LZ	18	78.0 (1)		
		eS	01 52 32	LR	21	92.0 (1)		
		eS	01 52 32	LT	21	88.0 (1)		
		eS	01 52 48	R	3.5	28.0 (1)		
		eS	01 52 48	T	4.5	47.0 (1)		
		eSCS	01 53 56	LT	23	78.0 (1)		
		eSS	01 56 55	LT	21	49.0 (1)		
		eLQ	02 00 30	LR	40	34.0 (2)		
		eLR	02 05 52	LZ	27	30.0 (2)		
		eL	02 07 00	LZ	24	16.0 (2)		
		eL	02 07 00	LR	20	80.0 (1)		
		eL	02 07 00	LT	25	16.0 (2)		
		eP'P'	02 12 31	Z	1.5	20.0 (0)		
10	MN	eP	01 44 11.0	Z	1.2	13.0 (1)	68.0	5.79
		eP	01 44 12	LZ	17	44.0 (1)		
		eS	01 53 05	R	3.5	42.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	01 53 05	T	2.5	61.0 (0)		
		eS	01 53 05	LR	15	62.0 (1)		
		eS	01 53 05	LT	21	13.0 (2)		
		eSCS	01 54 28	LT	23	50.0 (1)		
		eSS	01 57 20	LT	21	59.0 (1)		
		eLQ	02 00 42	LT	35	39.0 (2)		
		eLR	02 05 25	LZ	28	13.0 (2)		
		eP'P'	02 12 24	Z	1.8	23.0 (0)		
		eL	02 16 35	LZ	25	77.0 (1)		
		eL	02 16 35	LR	25	25.0 (1)		
		eL	02 16 35	LT	20	10.0 (2)		
10	TF	eP	01 44 16.5	Z	1.2	80.0 (0)	69.0	5.58
		eP	01 44 17	LZ	16	68.0 (1)		
		eS	01 53 15	LR	22	15.0 (2)		
		eS	01 53 15	LT	15	67.0 (1)		
		eLQ	02 01 10	LR	36	37.0 (2)		
		eLR	02 04 50	LZ	30	26.0 (2)		
10	FM	eP	01 44 30.4	Z	1.4	18.0 (1)	72.0	5.83
		eP	01 44 32	LZ	20	41.0 (1)		
		ePP	01 47 10	Z	2.0	10.0 (1)		
		eS	01 53 45	LR	22	11.0 (2)		
		eS	01 53 45	LT	18	11.0 (2)		
		eSS	01 58 15	LR	22	46.0 (1)		
		eLQ	02 01 55	LR	33	17.0 (2)		
		eLR	02 08 00	LZ	25	14.0 (2)		
		eL	02 08 00	LR	25	36.0 (1)		
		eL	02 08 00	LT	25	75.0 (1)		
10	CP	eP	01 44 39.6	Z	1.5	14.0 (1)	72.0	5.69
		eP	01 44 40	LZ	15	51.0 (1)		
		ePP	01 47 05	Z	1.5	23.0 (0)		
		eS	01 54 00	LR	20	67.0 (1)		
		eS	01 54 00	LT	22	15.0 (2)		
		eSS	01 58 40	LT	22	91.0 (1)		
		eLQ	02 02 30	LR	35	23.0 (2)		
		eLR	02 06 30	LZ	35	23.0 (2)		
10	LC	eP	01 45 16.1	Z	1.5	13.0 (1)	80.0	5.58
		eP	01 45 17	LZ	17	48.0 (1)		
		e	01 48 04	Z	1.5	25.0 (0)		
		eS	01 55 09	R	2.5	64.0 (0)		
		eS	01 55 10	LR	20	32.0 (1)		
		eS	01 55 10	LT	22	11.0 (2)		
		eSS	02 00 00	LT	18	51.0 (1)		
		eLQ	02 06 10	LT	40	49.0 (2)		
		eLR	02 09 30	LZ	32	12.0 (2)		
		eL	02 12 13	LZ	25	10.0 (2)		
		eL	02 12 13	LR	25	12.0 (2)		
		eL	02 12 13	LT	20	29.0 (1)		
10	DH	eP	01 45 56.0	Z	1.1	18.0 (1)	87.0	6.09
		eP	01 45 57	LZ	18	54.0 (1)		
		ePP	01 49 17	Z	1.5	14.0 (1)		
		eSKS	01 56 18	LT	22	86.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	NG	eLR	02 14 55	LZ	33	46.0 (2)		
		eLQ	02 11 40	LT	40		78.0	
		eLR	02 15 10	LZ	30	18.0 (0)		
							AVG.	5.78
10	02 26 19.1		12.8 N 143.6 E				MARIANA ISLANDS REGION	
			H = 037 KM					
10	WI	eP	02 39 08.0	Z	1.5	9.8 (0)	88.0	4.81
10	MN	eP	02 39 10.5	Z	1.0	3.2 (0)	89.0	4.46
							AVG.	4.64
10	07 17 08.5		17.9 S 169.4 E				NEW HEBRIDES IS. REGION	
			H = 054 KM					
10	MN	eP	07 30 01.6	Z	0.5	1.2 (0)	90.0	4.32
10	WI	eP	07 30 10.0	Z	0.6	1.9 (0)	92.0	4.60
							AVG.	4.46
10	MN	eP	08 18 27.6	Z	0.2	14.0 (0)		
		eS	08 18 34	R	0.3	40.0 (0)	0.4	
10	NG	eP	09 45 41.8	Z	1.1	16.0 (0)		
10	MN	e	09 49 08	LR	20	20.0 (1)		
10	LC	eL	09 59 40	LZ	28	31.0 (1)		
10	MN	eLQ	10 00 10	LT	33	22.0 (1)		
10	FM	eL	10 00 15	LZ	36	26.0 (1)		
10	CP	eL	10 02 30	LZ	30	17.0 (2)		
10	MN	eLR	10 02 45	LZ	30	30.0 (1)		
10	TF	eL	10 04 00	LZ	35	38.0 (1)		
10	WI	eL	10 04 50	LZ	34	19.0 (2)		
10	MN	eL	10 06 55	LZ	25	31.0 (1)		
10	MN	eL	10 06 55	LR	23	28.0 (1)		
10	MN	eL	10 06 55	LT	23	23.0 (1)		
10	LC	eP	10 12 47.2	Z	0.3	0.8 (0)		
		eS	10 13 17	T	0.5	8.5 (0)	2.3	
10	LC	eP	10 16 44.5	Z	0.9	1.9 (0)		
10	WI	eP	10 43 11.0	Z	1.5	16.0 (0)		
10	LC	eP	10 47 02.8	Z	0.8	1.5 (0)		
10	WI	e	10 48 31	Z	1.5	13.0 (0)		
10	LC	e	10 55 10	Z	0.9	1.9 (0)		
10	11 03 36.8		19.3 N 121.1 E				NEAR N. COAST LUZON, P. I.	
			H = 032 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	MN	eL	11 50 30	LZ	30	14.0 (1)	100.0	
10	WI	eP	12 36 18.0	Z	1.5	20.0 (0)		
10	MV	eP	12 36 20.0	Z	1.8	25.0 (0)		
10	TF	eP	12 50 45.5	Z	0.2	41.0 (0)	1.5	
10	MV	eP	12 51 03.6	Z	0.4	1.8 (0)	2.5	
10	TF	eS	12 51 04	R	0.3	37.0 (0)	1.5	
10	MN	eP	12 51 08.7	Z	0.3	16.0 (0)	2.9	
10	MV	e	12 51 10	Z	0.4	8.2 (0)	2.5	
10	MN	eS	12 51 36	R	0.5	24.0 (0)		
10	MN	eS	12 51 44	R	0.7	30.0 (0)	2.9	
10	CP	eP	14 02 36.3	Z	0.2	4.2 (0)	1.6	
		eS	14 02 57	T	0.3	15.0 (0)		
10	MN	eP	16 04 10.5	Z	0.7	1.6 (0)		
10	CP	eP	19 30 34.5	Z	0.2	31.0 (0)	0.8	
		eS	19 30 46	T	0.3	40.0 (0)		
10	19 32 05.4		38.3 N 141.8 E				NEAR COAST HONSHU; JAPAN	
			H = 100 KM					
10	21 13 25.5		09.8 S 123.8 E				NEAR N. COAST TIMOR ISLAND	
			H = 033 KM					
10	LC	eP	21 23 39.0	Z	0.2	19.0 (0)	1.5	
		eS	21 23 58	T	0.3	12.0 (0)		
10	MN	eP	21 37 36.5	Z	1.0	5.5 (0)		
10	22 13 48.9		30.1 S 179.1 W				KERMADEC ISLANDS REGION	
			H = 215 KM					
10	CP	eP	22 26 08.8	Z	0.8	5.1 (0)	85.0	4.32
10	MN	eP	22 26 19.3	Z	1.0	4.0 (0)	89.0	4.30
10	WI	eP	22 26 30.3	Z	0.8	3.3 (0)	91.0	4.40
							AVG.	4.34
10	MN	eP	22 30 02.3	Z	0.6	10.0 (0)	2.5	
		eS	22 30 34	R	0.6	5.0 (0)		
11	MN	eP	01 52 00.0	Z	0.4	0.5 (0)		
11	MN	e	01 52 15	Z	0.4	7.7 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	CP	eP	01 52 26.1	Z	0.3	55.0 (0)	1.5	
11	TF	eP	01 52 41.2	Z	0.3	4.7 (0)	2.7	
		e	01 52 45	Z	0.3	21.0 (0)		
11	CP	eS	01 52 47	T	0.5	12.0 (0)	1.5	
11	TF	eS	01 53 17	T	0.5	52.0 (0)	2.7	
11	WI	eP	01 54 08.1	Z	0.5	3.9 (0)		
11	MN	eL	01 54 10	R	0.7	4.9 (0)		
11	WI	eL	01 55 41	R	0.6	8.5 (0)		
11	03 52 19.4		01.2 S 078.8 W				ECUADOR	
			H = 059 KM					
11	LC	eP	04 00 14.4	Z	0.7	1.8 (0)	43.0	3.92
11	MN	eP	04 01 42.0	Z	0.7	1.6 (0)	53.0	4.12
							AVG.	4.02
11	06 24 51.7		18.4 N 145.6 E				MARIANA ISLANDS	
			H = 135 KM					
11	WI	eP	06 37 04.0	Z	0.7	1.1 (0)	83.0	3.83
		epP	06 37 40	Z	1.0	8.9 (0)		
11	MN	eP	06 37 06.5	Z	0.7	1.4 (0)	84.0	3.93
		epP	06 37 38	Z	1.0	6.5 (0)		
11	CP	epP	06 37 58	Z	0.9	3.9 (0)	87.0	
							AVG.	3.88
11	07 39 15.4		23.9 S 069.5 E				MASCARENE ISLANDS REGION	
			H = 033 KM					
11	DH	eP ¹	07 58 51.8	Z	1.9	54.0 (1)	146.0	
11	NG	eP ¹	07 59 08.0	Z	1.0	31.0 (0)	151.0	
11	MV	eP ¹	07 59 16.1	Z	1.6	18.0 (0)	163.0	
		eP ²	08 00 02	Z	2.0	43.0 (0)		
		ePP	08 03 41	Z	1.5	15.0 (0)		
		eLR	08 57 23	LZ	28	35.0 (1)		
11	WI	eP ¹	07 59 16.3	Z	1.9	43.0 (0)	162.0	
		ePP	08 03 54	Z	2.1	48.0 (0)		
		eLR	08 59 00	LZ	28	36.0 (1)		
		eL	09 20 00	LZ	20	76.0 (1)		
		eL	09 20 00	LR	20	19.0 (1)		
		eL	09 20 00	LT	20	69.0 (1)		
11	MN	eP ¹	07 59 18.0	Z	2.0	56.0 (0)	164.0	
		eP ²	08 00 11	Z	1.5	28.0 (0)		
		ePP	08 03 42	Z	2.5	40.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	09 00 12	LZ	25			
		eL	09 15 40	LZ	25			
		eL	09 15 40	LR	23			
		eL	09 15 40	LT	25			
11	FM	eP#1	07 59 19.3	Z	1.7	34.0 (0)	165.0	
		eP#2	08 00 14	Z	1.5	16.0 (0)		
		ePP	08 04 01	Z	2.4	88.0 (0)		
		eLR	09 00 25	LZ	35	51.0 (1)		
		eL	09 12 33	LZ	27	30.0 (1)		
		eL	09 12 33	LR	25	29.0 (1)		
		eL	09 12 33	LT	25	52.0 (1)		
11	LC	eP#1	07 59 21.0	Z	2.0	31.0 (0)	171.0	
		eP#2	08 00 41	Z	1.7	45.0 (0)		
		ePP	08 04 31	Z	1.8	65.0 (0)		
11	SJ	eP#1	07 59 23.1	Z	1.6	70.0 (0)	168.0	
		ePP	08 04 14	Z	2.0	19.0 (1)		
		eL	09 03 46	LT	28	70.0 (1)		
11	CP	eP#1	07 59 23.3	Z	2.0	28.0 (0)	170.0	
		eP#2	08 00 36	Z	1.5	17.0 (0)		
		eLR	09 01 40	LZ	28	35.0 (1)		
11	LC	eP	10 13 21.9	Z	0.7	1.2 (0)		
11	MN	eP	10 15 06.8	Z	1.0	1.6 (0)		
11	10 31 48.3		23.8 S 069.4 E				MASCARENE ISLANDS REGION	
			H =033 KM					
11	DH	eP#1	10 51 24.5	Z	1.3	11.0 (1)	146.0	
11	WI	eP#1	10 51 50.0	Z	1.3	6.4 (0)	162.0	
11	MN	eP#1	10 51 52.6	Z	2.5	51.0 (0)	164.0	
		eP#2	10 52 45	Z	1.0	6.5 (0)		
11	LC	eP#2	10 53 14.9	Z	1.0	5.0 (0)	171.0	
		ePP	10 56 56	Z	1.5	11.0 (0)		
11	11 31 44.5		55.8 N 113.1 E				LAKE BAIKAL REGION	
			H =033 KM MAG 6.25-				PAS	
11	WI	eP	11 43 19.5	Z	1.0	13.0 (0)	74.0	4.85
		eP AS	11 43 28.0	Z	1.0	31.0 (0)		5.22
		eS	11 52 58	LT	20	34.0 (1)		
		eLR	12 06 40	LT	27	62.0 (1)		
		eL	12 20 35	LZ	16	60.0 (1)		
		eL	12 20 35	LR	15	42.0 (1)		
		eL	12 20 35	LT	20	93.0 (1)		
11	MV	eP	11 43 21.9	Z	1.3	16.0 (0)	75.0	4.82

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MN	eP AS	11 43 30.2	Z	1.1	17.0 (0)		4.92
		eP	11 43 32.2	Z	1.0	9.7 (0)	76.0	4.79
		eP AS	11 43 40.4	Z	1.0	13.0 (0)		4.91
		eS	11 53 31	LT	26			
		eLR	12 06 53	LZ	24			
		eL	12 15 55	LZ	28			
		eL	12 15 55	LR	20			
		eL	12 15 55	LT	20			
11	NG	eP	11 43 35.2	Z	0.9	10.0 (0)	77.0	4.84
		eP AS	11 43 43.7	Z	1.5	11.0 (1)		5.67
11	FM	eP	11 43 40.2	Z	0.7	4.1 (0)	78.0	4.57
		eP AS	11 43 48.8	Z	0.8	6.5 (0)		4.70
		ePP	11 46 45	Z	1.6	38.0 (0)		
11	TF	eP	11 43 46.0	Z	0.8	5.1 (0)	79.0	4.54
		eP AS	11 43 54.2	Z	1.0	22.0 (0)		5.08
11	CP	eP	11 44 04.0	Z	0.8	4.3 (0)	82.0	4.53
		eP AS	11 44 12.2	Z	0.8	5.2 (0)		4.61
11	LC	eP	11 44 22.7	Z	0.7	2.5 (0)	86.0	4.16
		eP AS	11 44 30.8	Z	1.0	9.3 (0)		4.80
11	SJ	eL	12 17 22	LT	35	11.0 (2)	91.0	
							AS *	4.99
							AVG*	4.64
11	FM	eL	11 54 22	LZ	20	20.0 (1)		
11	11 57 47.9		19.3 S 177.6 W				FIJI ISLANDS	
			H =547 KM					
11	TF	eP	12 08 45.5	Z	1.0	17.0 (0)	77.0	4.43
11	CP	eP	12 08 52.3	Z	0.9	12.0 (0)	78.0	4.33
11	MV	eP	12 08 53.5	Z	1.0	17.0 (0)	78.0	4.43
11	MN	eP	12 09 01.7	Z	1.0	15.0 (0)	80.0	4.38
11	WI	eP	12 09 12.6	Z	1.0	27.0 (0)	82.0	4.73
11	FM	eP	12 09 23.8	Z	0.5	4.2 (0)	84.0	4.32
11	LC	eP	12 09 28.5	Z	0.9	17.0 (0)	85.0	4.20
11	SJ	eP	12 09 50.5	Z	0.8	18.0 (0)	90.0	5.05
							AVG*	4.48
11	CP	eP	12 17 46.2	Z	0.2	88.0 (0)		
11	CP	eP	12 19 06.1	Z	0.2	54.0 (0)		
11	14 30 45.0		15.9 S 167.8 E				NEW HEBRIDES ISLANDS	
			H =155 KM					
11	15 15 33.6		17.2 N 040.7 E				RED SEA	
			H =034 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MN	eP	15 34 24.5	Z	1.2	6.2 (0)	120.0	
		eL	16 10 31	LR	24			
11	LC	eP	15 34 26.5	Z	1.0	2.5 (0)	122.0	
		ePP	15 36 01	Z	2.5	77.0 (0)		
		eL	16 11 10	LR	27	39.0 (1)		
		eL	16 27 50	LR	22	74.0 (1)		
		eL	16 27 50	LT	20	29.0 (1)		
11	CP	eP	15 34 34.0	Z	1.0	2.9 (0)	126.0	
		eL	16 15 50	LZ	36	45.0 (1)		
11	SJ	eL	16 11 27	LT	28	77.0 (1)	121.0	
11	FM	eL	16 12 25	LZ	31	47.0 (1)	119.0	
		eL	16 25 15	LZ	18	18.0 (1)		
		eL	16 25 15	LR	20	54.0 (1)		
		eL	16 25 15	LT	22	64.0 (1)		
11	WI	eL	16 15 31	LZ	31	47.0 (1)	119.0	
11	16 09 57.6		12.9 S 166.5 E				SANTA CRUZ ISLANDS	
			H = 077 KM				MAG 6.00-6.25 PAS	
11	TF	eP	16 22 22.8	Z	1.0	17.0 (0)	85.0	5.03
		eP	16 22 26	LZ	18	13.0 (2)		
		eS	16 33 10	LR	23	28.0 (2)		
		eS	16 33 10	LT	20	16.0 (2)		
		ePS	16 33 55	LR	26	46.0 (2)		
		eLQ	16 44 22	LT	32	70.0 (2)		
		eLR	16 48 09	LZ	23	90.0 (2)		
		eP'P'	16 48 41	Z	1.2	13.0 (0)		
		eL	16 53 20	LZ	20	12.0 (3)		
		eL	16 53 20	LR	20	89.0 (2)		
		eL	16 53 20	LT	20	17.0 (2)		
11	MV	eP	16 22 24.5	Z	1.1	46.0 (0)	85.0	5.38
		eP	16 22 25	LZ	18	69.0 (1)		
		epP	16 22 48	Z	1.3	91.0 (0)		
		ePP	16 25 30	Z	2.0	53.0 (0)		
		eSKS	16 33 03	LT	24	15.0 (2)		
		ePPS	16 34 15	LT	32	30.0 (2)		
		e	16 37 56	LT	24	77.0 (1)		
		eLQ	16 45 00	LR	32	23.0 (2)		
		eLR	16 48 10	LZ	25	63.0 (2)		
		eP'P'	16 48 39	Z	1.4	20.0 (0)		
		eL	16 49 30	LZ	25	58.0 (2)		
		eL	16 49 30	LR	25	39.0 (2)		
		eL	16 49 30	LT	25	22.0 (2)		
11	CP	eP	16 22 33.0	Z	1.0	29.0 (0)	87.0	5.31
		epP	16 22 57	Z	1.2	41.0 (0)		
		e	16 33 23	LZ	22	91.0 (1)		
		e	16 41 23	Z	1.1	7.2 (0)		
		eLQ	16 44 48	LR	35	25.0 (2)		
		eLR	16 48 32	LZ	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	MN	eP'P'	16 48 30	Z	1.4	14.0 (0)		
		IP	16 22 34.7C	Z	1.0	31.0 (0)	87.0	5.34
		epP	16 22 58	Z	1.0	39.0 (0)		
		esP	16 23 21	Z	1.5	76.0 (0)		
		e	16 33 05	LT	25			
		e	16 33 11	R	1.5	7.3 (0)		
		eSS	16 39 25	LT	25			
		ePKKP	16 40 22	Z	1.0	2.4 (0)		
		e	16 41 20	Z	1.1	7.9 (0)		
		eLQ	16 45 40	LT	30			
		eP'P'	16 48 32	Z	1.5	28.0 (0)		
11	WI	eLR	16 49 30	LT	999.9			
		eP	16 22 42.3	Z	1.6	92.0 (0)	89.0	5.73
		epP	16 23 04	Z	1.6	11.0 (1)		
		ePP	16 26 08	Z	1.9	25.0 (1)		
		eS	16 33 38	LR	24	14.0 (2)		
		eS	16 33 38	LT	23	14.0 (2)		
		ePS	16 34 46	LT	23	30.0 (2)		
		eSS	16 39 08	LR	22	85.0 (1)		
		ePKKP	16 40 21	Z	1.0	5.0 (0)		
		eLQ	16 46 10	LR	35	43.0 (2)		
		eP'P'	16 48 15	Z	1.0	4.4 (0)		
		eLR	16 50 07	LZ	33	47.0 (2)		
		eL	16 57 30	LZ	19	37.0 (2)		
		eL	16 57 30	LR	19	92.0 (1)		
		eL	16 57 30	LT	19	46.0 (2)		
11	FM	eP	16 22 57.2	Z	1.1	14.0 (0)	92.0	5.20
		epP	16 23 21	Z	1.3	37.0 (0)		
		ePS	16 35 17	LR	24	22.0 (2)		
		eSS	16 39 45	LR	30	15.0 (2)		
		ePKKP	16 40 15	Z	1.0	11.0 (0)		
		e	16 40 59	Z	1.0	11.0 (0)		
		eSSS	16 43 50	LR	30	90.0 (1)		
		eLQ	16 47 05	LR	29	39.0 (2)		
		eP'P'	16 48 21	Z	1.5	6.8 (0)		
		eLR	16 52 00	LZ	999.9	99.9 (9)		
		eL	16 54 45	LZ	999.9	99.9 (9)		
		eL	16 54 45	LR	23	54.0 (2)		
		eL	16 54 45	LT	25	32.0 (2)		
11	LC	eP	16 23 09.5	Z	1.1	14.0 (0)	94.0	5.28
		epP	16 23 35	Z	0.9	13.0 (0)		
		eS	16 34 23	LR	21	11.0 (2)		
		eS	16 34 23	LT	26	12.0 (2)		
		ePS	16 35 54	LR	23	21.0 (2)		
		ePKKP	16 40 13	Z	1.4	15.0 (0)		
		e	16 40 47	Z	1.1	15.0 (0)		
		eSS	16 41 00	LT	27	17.0 (2)		
		eSSS	16 44 20	LT	23	12.0 (2)		
		ePCPP	16 44 38	Z	1.4	12.0 (0)		
		eP'P'	16 48 18	Z	1.9	28.0 (0)		
		eLQ	16 49 00	LT	30	14.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	SJ	eLR	16 52 23	LZ	26	72.0 (2)	101.0	
		eL	16 55 50	LZ	24	78.0 (2)		
		eL	16 55 50	LR	22	49.0 (2)		
		eL	16 55 50	LT	23	45.0 (2)		
		ePS	16 36 57	LT	25	30.0 (2)		
		e	16 40 20	LT	19	23.0 (2)		
		eSS	16 43 00	LT	22	23.0 (2)		
		eLR	16 56 10	LZ	30	32.0 (2)		
		eL	16 59 55	LZ	22	20.0 (2)		
		eL	16 59 55	LR	20	17.0 (2)		
11	NG	eL	16 59 55	LT	21	43.0 (2)	110.0	
		ePKKP1	16 39 24	Z	1.2	34.0 (0)		
		ePKKP2	16 39 37	Z	1.0	40.0 (0)		
11	DH	ePPS	16 41 30	LR	25	12.0 (2)	120.0	
		eSS	16 47 00	LR	26	18.0 (2)		
		eLQ	17 03 00	LT	27	24.0 (2)		
		eLR	17 06 11	LZ	32	16.0 (2)		
		eL	17 15 15	LZ	999.9	99.9 (9)		
		eL	17 15 15	LR	20	45.0 (2)		
		eL	17 15 15	LT	19	12.0 (2)		
		AVG.						
11	SJ	eP	17 39 09.3	Z	0.5	7.7 (0)		
11	SJ	e	17 39 31	Z	1.0	30.0 (0)		
11	WI	eP	21 18 49.0	Z	0.5	3.4 (0)		
11	WI	eL	21 20 06	Z	0.7	7.8 (0)		
11	21 45 20.5	48.9 N 128.8 W	VANCOUVER ISLAND REGION					
		H = 033 KM						
11	MV	eP	21 48 00.0	Z	1.2	52.0 (0)	11.0	5.64
		e	21 50 16	LT	20	43.0 (1)		
		eL	21 50 45	LT	36	57.0 (1)		
11	WI	eP	21 48 00.5	Z	1.2	51.0 (0)	11.0	5.63
		eL	21 50 18	LT	27	11.0 (2)		
		eL	21 52 40	LR	17	82.0 (2)		
		eL	21 52 40	LT	17	19.0 (2)		
11	MN	eP	21 48 26.5	Z	1.1	38.0 (0)	13.0	5.30
		eS	21 51 00	LT	20			
		eL	21 51 29	LT	27			
11	TF	eP	21 48 55.0	Z	1.3	58.0 (0)	15.0	4.85
11	FM	eP	21 49 02.8	Z	1.2	60.0 (0)	16.0	4.63
		eS	21 52 00	LR	20	48.0 (1)		
		eL	21 52 50	LZ	25	23.0 (1)		
		eL	21 52 50	LR	25	88.0 (1)		
11	CP	eP	21 49 38.6	Z	1.2	6.3 (0)	19.0	3.75
11	LC	eP	21 50 31.3	Z	1.5	18.0 (0)	24.0	4.35

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
11	NG	eL	21 56 55	LT	30	79.0 (1)	28.0	5.16				
		eL	21 58 08	LR	24	37.0 (1)						
		eL	21 58 08	LT	24	48.0 (1)						
		eP	21 51 06.6	Z	0.9	38.0 (0)						
		eS	21 55 56	LR	20	30.0 (1)						
11	SJ	eL	21 58 55	LZ	30	42.0 (1)	32.0	4.79				
		eP	21 51 45.5	Z	0.7	10.0 (0)						
		eL	22 00 18	LT	25	70.0 (1)						
		AVG.					4.90					
11	22 14 18.7	43.2 S 076.0 W	OFF COAST SOUTHERN CHILE									
		H = 033 KM	MAG 6.50-6.75 PAS									
11	SJ	eP	22 25 48.4	Z	1.4	22.0 (1)	73.0	6.00				
		eP	22 25 50	LZ	15	31.0 (2)						
		eS	22 35 24	LT	19	58.0 (2)						
		eS	22 35 24	LR	17	12.0 (2)						
		ePS	22 36 25	LT	20	26.0 (2)						
		e	22 38 58	LT	19	32.0 (2)						
		eSS	22 40 14	LT	24	46.0 (2)						
		eSSS	22 43 42	LT	23	38.0 (2)						
		eLQ	22 45 10	LT	27	66.0 (2)						
		eLR	22 50 00	LZ	32	41.0 (2)						
		11	LC	eP	22 26 27.1	Z			1.3	52.0 (0)	80.0	5.27
				eP	22 26 29	LZ			16	16.0 (2)		
				ePP	22 29 28	Z			2.5	93.0 (0)		
				eS	22 36 43	T			5.0	50.0 (1)		
eS	22 36 43			R	5.0	38.0 (1)						
eS	22 36 43			LT	21	37.0 (2)						
eS	22 36 43			LR	16	22.0 (2)						
ePS	22 37 17			LR	22	26.0 (2)						
eSS	22 41 50			LR	23	24.0 (2)						
e	22 47 56			LT	29	40.0 (2)						
eLQ	22 49 10	LT	38	83.0 (2)								
11	CP	eLR	22 55 53	LZ	16	50.0 (2)	84.0	5.64				
		eL	22 57 45	LZ	17	46.0 (2)						
		eL	22 57 45	LR	16	47.0 (2)						
		eL	22 57 45	LT	16	20.0 (2)						
		eP	22 26 47.1	Z	1.4	76.0 (0)						
		eP	22 26 50	LZ	15	17.0 (2)						
		ePP	22 29 54	LZ	17	71.0 (1)						
		e	22 37 13	LR	22	21.0 (2)						
		ePS	22 38 10	LR	18	29.0 (2)						
		eSS	22 42 03	LT	20	21.0 (2)						
		eSSS	22 46 30	LR	29	21.0 (2)						
		eLQ	22 49 20	LR	43	13.0 (2)						
		eLR	22 54 55	LZ	22	36.0 (2)						
		eL	22 55 05	LZ	999.9	99.9 (9)						
eL	22 55 05	LR	21	15.0 (2)								

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	DH	eL	22 55 05	LT	24	21.0 (2)	85.0	5.49
		eP	22 26 51.1	Z	1.0	39.0 (1)		
		e	22 37 27	LR	25	15.0 (2)		
		eSS	22 43 00	LR	26	17.0 (2)		
		eLQ	22 49 15	LR	43	79.0 (2)		
		eL	23 15 15	LR	20	23.0 (2)		
		eL	23 15 15	LT	21	23.0 (2)		
11	TF	eP	22 27 07.4	Z	1.2	67.0 (0)	88.0	5.75
		eP	22 27 10	LZ	15	19.0 (2)		
		ePP	22 30 33	LZ	15	12.0 (2)		
		eS	22 37 42	LT	21	29.0 (2)		
		eS	22 37 42	LR	24	27.0 (2)		
		ePS	22 38 58	LT	23	41.0 (2)		
		eSS	22 43 12	LT	22	36.0 (2)		
		eSSS	22 47 20	LT	23	23.0 (2)		
		eLQ	22 50 38	LR	30	35.0 (2)		
		eLR	22 55 30	LZ	22	53.0 (2)		
		eL	22 56 30	LZ	21	56.0 (2)		
		eL	22 56 30	LR	24	24.0 (2)		
		eL	22 56 30	LT	25	46.0 (2)		
		eP	22 27 08.2	Z	1.4	18.0 (1)		
eP	22 27 09	LZ	16	83.0 (1)				
ePP	22 30 44	LZ	18	42.0 (1)				
eS	22 38 00	LR	20	12.0 (2)				
eS	22 38 02	T	4.0					
ePS	22 39 05	LT	24	38.0 (2)				
eSS	22 43 30	LT	18	38.0 (2)				
eSSS	22 47 40	LT	29	22.0 (2)				
e	22 50 55	LR	29	14.0 (2)				
eLQ	22 52 02	LR	37	44.0 (2)				
eLR	22 57 45	LZ	34	37.0 (2)				
eL	22 58 55	LZ	28	28.0 (2)				
eL	22 58 55	LR	21	59.0 (1)				
eL	22 58 55	LT	23	38.0 (2)				
11	NG	eP	22 27 10.7	Z	1.0	75.0 (0)	89.0	5.84
		eP	22 27 15	LZ	14	16.0 (2)		
		ePP	22 30 42	LZ	15	71.0 (1)		
		eS	22 38 03	LR	19	19.0 (2)		
		ePS	22 39 02	LZ	21	86.0 (1)		
		eSS	22 43 15	LR	20	15.0 (2)		
		eLR	22 47 57	LZ	30	12.0 (2)		
11	MN	eP	22 27 15.5	Z	1.4	12.0 (1)	90.0	5.90
		eP	22 27 18	LZ	16	99.9 (9)		
		e	22 28 56	Z	2.6	13.0 (1)		
		ePP	22 30 46	LZ	17	99.9 (9)		
		ePP	22 30 50	Z	1.8	23.0 (0)		
		e	22 37 04	LT	24	99.9 (9)		
		ePS	22 39 15	LR	999.9	99.9 (9)		
		e	22 41 00	LR	25	99.9 (9)		
		eSS	22 43 30	LR	999.9	99.9 (9)		
		ePKKP	22 44 48	Z	0.7	1.6 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	WI	eSSS	22 47 41	LR	999.9	99.9 (9)	92.0	5.88
		eL	22 50 50	LT	999.9	99.9 (9)		
		eLQ	22 52 24	LT	999.9	99.9 (9)		
		eP'P'	22 52 57	Z	1.5	14.0 (0)		
		eLR	22 56 24	LZ	999.9	99.9 (9)		
		eP	22 27 25.3	Z	1.4	84.0 (0)		
		eP	22 27 26	LZ	15	90.0 (1)		
		ePP	22 30 55	LZ	20	52.0 (1)		
		eSKS	22 37 55	LR	24	74.0 (1)		
		ePS	22 39 40	LR	24	21.0 (2)		
11	MV	eSS	22 44 50	LT	20	13.0 (2)	92.0	5.46
		eSSS	22 48 40	LR	25	18.0 (2)		
		e	22 51 15	LT	26	17.0 (2)		
		eLQ	22 53 37	LT	32	33.0 (2)		
		eLR	22 58 30	LZ	31	56.0 (2)		
		eL	23 01 05	LZ	24	27.0 (2)		
		eL	23 01 05	LR	22	31.0 (2)		
		eL	23 01 05	LT	22	17.0 (2)		
		eP	22 27 26.0	Z	1.4	32.0 (0)		
		eP	22 27 27	LZ	16	99.0 (1)		
11	LC	ePP	22 31 10	LZ	16	11.0 (2)	92.0	5.63
		eSKS	22 38 03	LT	23	17.0 (2)		
		ePS	22 39 43	LT	25	17.0 (2)		
		e	22 41 13	LR	29	71.0 (1)		
		eSS	22 44 11	LR	26	19.0 (2)		
		eSSS	22 48 20	LR	26	12.0 (2)		
		eLQ	22 52 14	LT	40	23.0 (2)		
		eLR	22 57 13	LZ	25	61.0 (2)		
		eL	22 58 50	LZ	25	61.0 (2)		
		eL	22 58 50	LR	27	10.0 (2)		
11	LC	eL	22 58 50	LT	28	29.0 (2)	92.0	5.63
		AVG.						
11	LC	eP	23 18 00.3	Z	0.3	11.0 (0)	1.4	
		eS	23 18 18	T	0.4	24.0 (0)		
12	MN	eP	05 06 01.0	Z	0.4	9.3 (0)	1.3	
		eS	05 06 17	R	0.5	4.9 (0)		
12	CP	eP	06 42 47.5	Z	0.3	1.1 (0)	1.4	
		eS	06 43 05	T	999.9	99.9 (9)		
12	CP	eP	07 11 46.5	Z	0.3	3.7 (0)	1.6	
		eS	07 12 08	T	0.4	15.0 (0)		
12	TF	eP	07 54 22.9	Z	0.2	21.0 (0)		
12	CP	eP	07 54 41.6	Z	0.3	2.1 (0)	3.4	
12	MN	eP	07 54 55.5	Z	0.5	3.1 (0)	3.6	
12	MV	eP	07 55 11.2	Z	0.7	1.7 (0)		
12	CP	eS	07 55 24	T	0.5	30.0 (0)	3.4	
12	MN	eS	07 55 40	R	0.5	14.0 (0)	3.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	MV	eL	07 56 24	R	0.8	11.0 (0)		
12	LC	eP	07 59 15.0	Z	0.5	0.4 (0)		
12	LC	eP	11 20 28.5	Z	0.6	1.0 (0)		
12	LC	eL	11 22 23	T	0.6	7.4 (0)		
12	12 49 10.8		26.0 N 128.4 E H =040 KM				RYUKYU ISLAND	
12	MV	eP	13 01 59.2	Z	1.0	6.8 (0)	89.0	4.79
		e	13 02 07	Z	1.0	10.0 (0)		
12	WI	eP	13 02 05.5	Z	1.3	8.5 (0)	90.0	4.78
		e	13 02 14	Z	1.3	15.0 (0)		
12	MN	eP	13 02 10.5	Z	1.5	12.0 (0)	91.0	4.96
		e	13 02 23	Z	1.3	11.0 (0)		
12	FM	eP	13 02 28.2	Z	1.4	6.6 (0)	94.0	4.81
12	CP	eP	13 02 31.2	Z	1.2	6.8 (0)	95.0	4.95
		e	13 02 40	Z	1.0	10.0 (0)		
12	NG	eL	13 43 50	LZ	30	15.0 (1)	101.0	
12	DH	eL	13 46 53	LZ	25	24.0 (1)	109.0	
						AVG.		4.86
12	CP	eP	15 02 06.4	Z	0.3	6.4 (0)	1.1	
		eS	15 02 21	T	0.3	16.0 (0)		
		eP	15 57 32.7	Z	0.4	6.0 (0)		
12	TF	eP	15 57 53.0	Z	0.4	7.3 (0)	2.8	
12	CP	eS	15 57 54	T	0.6	28.0 (0)	1.1	
12	TF	eS	15 58 29	T	0.5	9.7 (0)	2.8	
12	16 16 56.1		35.5 N 135.8 E H =033 KM				SOUTHERN HONSHU, JAPAN	
12	MN	eP	16 29 02.0	Z	0.5	1.2 (0)	80.0	4.05
12	CP	eL	16 55 22	LZ	30	65.0 (1)	84.0	
						AVG.		4.05
12	LC	eP	17 26 15.7	Z	0.7	1.2 (0)		
12	19 32 38.0		51.5 N 178.4 W H =057 KM				ANDREANOF-ALEUTIAN ISLANDS	
12	MV	eP	19 40 17.0	Z	0.7	3.4 (0)	41.0	4.25
		e	19 40 30	Z	0.9	9.1 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	19 50 02	LZ	20	31.0 (0)		
		eLR	19 51 57	LZ	29	11.0 (2)		
12	WI	eP	19 40 26.5	Z	0.5	3.8 (0)	42.0	4.44
		eS	19 46 50	LT	20	29.0 (1)		
		eSS	19 50 19	LT	22	41.0 (1)		
		eLQ	19 50 42	LR	28	35.0 (1)		
		eLR	19 52 50	LZ	27	11.0 (2)		
		eL	19 53 47	LZ	25	12.0 (2)		
		eL	19 53 47	LR	25	29.0 (1)		
		eL	19 53 47	LT	23	11.0 (2)		
12	MN	eP	19 40 36.5	Z	1.0	5.6 (0)	43.0	4.25
		eS	19 47 12	LR	22	32.0 (1)		
		eS	19 47 12	LT	17	15.0 (1)		
		eL	19 50 47	LT	25	42.0 (1)		
		eL	19 54 20	LR	25	56.0 (1)		
		eL	19 54 20	LT	22	62.0 (1)		
12	TF	eP	19 40 52.5	Z	1.0	8.6 (0)	45.0	4.52
		eS	19 47 30	LT	20	47.0 (1)		
		eS	19 47 30	LR	26	37.0 (1)		
		eLQ	19 50 45	LR	24	36.0 (1)		
		eL	19 53 37	LZ	25	99.0 (1)		
		eL	19 53 37	LR	22	26.0 (1)		
		eL	19 53 37	LT	20	78.0 (1)		
12	FM	eP	19 41 02.0	Z	0.8	11.0 (0)	46.0	4.83
		eS	19 47 54	LR	20	24.0 (1)		
		eS	19 47 54	LT	19	24.0 (1)		
		eSS	19 51 28	LR	20	62.0 (1)		
		eLQ	19 53 21	LR	32	46.0 (1)		
		eLR	19 55 14	LZ	30	83.0 (1)		
		eL	19 56 35	LZ	24	86.0 (1)		
		eL	19 56 35	LR	20	36.0 (1)		
		eL	19 56 35	LT	23	88.0 (1)		
12	CP	eP	19 41 15.6	Z	0.7	2.2 (0)	48.0	4.23
12	LC	eP	19 42 01.5	Z	1.0	8.6 (0)	54.0	4.73
		e	19 42 19	Z	0.6	6.7 (0)		
		eS	19 49 47	LR	21	48.0 (1)		
		eSS	19 53 46	LR	20	38.0 (1)		
		eLQ	19 57 03	LT	30	62.0 (1)		
		eLR	19 59 00	LZ	28	46.0 (1)		
		eL	20 00 30	LZ	25	28.0 (1)		
		eL	20 00 30	LR	25	33.0 (1)		
		eL	20 00 30	LT	23	29.0 (1)		
12	DH	eP	19 43 17.0	Z	0.5	22.0 (0)	65.0	5.47
		eL	20 05 20	LZ	32	34.0 (1)		
12	NG	eLR	20 00 57	LZ	35	39.0 (1)	56.0	
						AVG.		4.59
12	20 55 39.0		17.8 S 013.6 W H =033 KM				SOUTH ATLANTIC OCEAN	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	NG	eL	21 39 07	LZ	30	30.0 (1)	76.0	
13	CP	eP eS	02 39 34.5 02 39 55	Z T	0.3 0.3	4.2 (0) 9.1 (0)	1.5	
13	MN	eP	03 33 30.6	Z	0.4	1.4 (0)	3.1	
13	LC	eS eP	03 34 10 03 35 34.5	R Z	0.4 0.7	2.3 (0) 1.2 (0)		
13	MN	eP	06 35 38.1	Z	999.9	99.9 (9)		
13	MV	eP	06 36 17.0	Z	0.3	9.7 (0)	0.3	
13	WI	eP	06 36 31.9	Z	0.4	6.0 (0)	4.0	
13	MV	eS	06 36 54	T	0.5	21.0 (0)	0.3	
13	WI	eS	06 37 20	R	0.5	18.0 (0)	4.0	
13	CP	eP eS	07 45 31.0 07 45 45	Z T	0.3 0.5	5.2 (0) 9.6 (0)	1.1	
13	MN	eP eS	08 47 48.9 08 48 12	Z R	0.3 0.4	1.8 (0) 5.7 (0)	1.7	
13	08 54 39.1	42.0 N 141.9 E	OFF COAST HOKKAIDO, JAPAN H = 061 KM					
13	MV	eP epP	09 05 41.9 09 06 02	Z Z	0.7 1.0	3.4 (0) 8.5 (0)	69.0	4.44
13	WI	eP epP	09 05 49.1 09 06 08	Z Z	1.0	4.4 (0)	71.0	
13	MN	eP epP	09 05 57.1 09 06 17	Z Z	0.7 0.8	2.5 (0) 3.9 (0)	72.0	4.27
13	FM	eP epP	09 06 15.1 09 06 34	Z Z	0.6 1.0	4.3 (0) 10.0 (0)	75.0	4.53
13	LC	eP epP	09 06 58.2 09 07 17	Z Z	0.8 1.0	2.2 (0) 7.4 (0)	83.0	4.26
							AVG.	4.38
13	09 58 13.4	52.9 N 166.7 W	FOX-ALEUTIAN ISLANDS H = 069 KM					
13	MV	eP eL	10 04 48.7 10 14 17	Z LZ	0.6 21	1.4 (0) 28.0 (1)	34.0	4.00
13	WI	eP e eL	10 05 00.0 10 05 36 10 15 08	Z Z LZ	0.8 1.0 21	2.0 (0) 4.4 (0) 33.0 (1)	35.0	4.10
13	MN	eP	10 05 11.4	Z	0.6	1.4 (0)	36.0	4.04

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	LC	eP	10 06 41.1	Z	1.0	2.5 (0)	47.0	4.10
13	NG	eP eL	10 06 56.2 10 26 17	Z LZ	0.8 20	5.1 (0) 22.0 (1)	49.0	4.54
13	TF	eL	10 16 12	LZ	20	39.0 (1)	36.0	
13	FM	eL	10 17 23	LZ	25	15.0 (1)	40.0	
13	CP	eL	10 17 45	LZ	21	22.0 (1)	41.0	
							AVG.	4.16
13	CP	eP eS	10 09 12.2 10 09 16	Z T	0.2 0.3	21.0 (0) 7.1 (0)	0.1	
13	FM	eP eS	14 38 12.6 14 38 15	Z R	0.3 0.4	14.0 (0) 29.0 (0)	0.1	
13	WI	eP eS	14 40 02.4 14 40 49	Z R	0.3 0.4	2.0 (0) 8.3 (0)	3.9	
13	CP	eP eS	17 20 56.8 17 21 10	Z T	0.3 0.4	18.0 (0) 23.0 (0)	1.0	
13	CP	eP	17 44 35.4	Z	0.4	26.0 (0)		
13	21 47 50.3	56.9 S 029.0 W	SANDWICH ISLANDS H = 033 KM					
13	CP	eP†	22 06 26.8	Z	0.8	1.7 (0)	116.0	
13	FM	eP†	22 06 32.6	Z	0.7	3.4 (0)	119.0	
13	MN	eP†	22 06 37.2	Z	0.7	3.3 (0)	122.0	
13	WI	eP†	22 06 40.7	Z	0.8	5.2 (0)	123.0	
13	MV	eP†	22 06 41.3	Z	1.0	12.0 (0)	123.0	
13	LC	eP eS	22 13 29.0 22 13 48	Z T	0.3 0.3	11.0 (0) 14.0 (0)	1.5	
14	SJ	eP	01 42 18.3	Z	0.8	18.0 (0)		
14	LC	eP	01 43 55.0	Z	1.0	3.7 (0)		
14	MN	eP	01 45 24.2	Z	0.8	1.9 (0)		
14	WI	eP	01 45 28.5	Z	1.0	3.4 (0)		
14	SJ	eL	01 47 32	LR	30	72.0 (1)		
14	DH	eL	01 49 00	LR	35	56.0 (1)		
14	DH	eL	01 50 45	LZ	25	61.0 (1)		
14	LC	eL	01 51 03	LZ	27	30.0 (1)		
14	NG	eL	01 51 10	LR	28	16.0 (2)		
14	DH	eL	01 51 10	LZ	23	48.0 (1)		
14	DH	eL	01 51 10	LR	23	12.0 (2)		
14	LC	eL	01 53 45	LZ	25	37.0 (1)		
14	LC	eL	01 53 45	LR	25	28.0 (1)		
14	MN	eL	01 53 48	LR	30	19.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	FM	eL	01 55 23	LZ	28	22.0 (1)		
14	WI	eL	01 57 40	LZ	30	21.0 (1)		
14	FM	eL	01 59 37	LZ	25	29.0 (1)		
14	FM	eL	01 59 37	LR	25	11.0 (1)		
14	FM	eL	01 59 37	LT	23	32.0 (1)		
14	05 15 43.7		15.4 S 168.0 E H =066 KM				NEW HEBRIDES ISLANDS	
14	MV	eP	05 28 17.4	Z	1.0	5.1 (0)	86.0	4.48
14	CP	eP	05 28 24.0	Z	0.6	3.1 (0)	87.0	4.59
14	MN	eP	05 28 27.5	Z	1.1	8.1 (0)	88.0	4.77
14	WI	eP	05 28 34.6	Z	0.8	4.0 (0)	89.0	4.63
						AVG.		4.62
14	LC	eP	06 45 03.3	Z	0.8	1.5 (0)		
14	07 23 50.3		26.5 S 176.2 W H =033 KM				KERMADEC ISLANDS	
14	MN	eP	07 36 22.8	Z	1.0	5.0 (0)	85.0	4.60
14	WI	eP	07 36 33.5	Z	1.0	4.5 (0)	87.0	4.70
						AVG.		4.65
14	07 48 05.5		35.7 N 140.8 E H =061 KM				CENTRAL HONSHU, JAPAN	
14	MV	eP	07 59 34.4	Z	1.0	14.0 (0)	74.0	4.82
		eP	07 59 38	LZ	17	29.0 (1)		
		eS	08 09 08	LT	18	24.0 (1)		
		ePS	08 10 00	LR	28	67.0 (1)		
		eLQ	08 18 57	LT	33	10.0 (2)		
		eLR	08 21 50	LZ	30	13.0 (2)		
		eL	08 23 25	LZ	25	27.0 (1)		
		eL	08 23 25	LR	25	57.0 (1)		
		eL	08 23 25	LT	25	26.0 (2)		
14	WI	eP	07 59 42.6	Z	1.0	20.0 (0)	75.0	4.98
		eP	07 59 45	LZ	22	24.0 (1)		
		epP	07 59 54	Z	1.5	66.0 (0)		
		eSP	08 10 10	LZ	20	18.0 (1)		
		e	08 12 20	LZ	22	39.0 (1)		
		eLQ	08 18 00	LR	30	62.0 (0)		
		eLR	08 23 00	LZ	27	67.0 (1)		
		eL	08 28 20	LZ	22	42.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	08 28 20	LR	20	27.0 (1)		
		eL	08 28 20	LT	21	50.0 (1)		
14	MN	eP	07 59 49.5	Z	1.0	20.0 (0)	76.0	5.02
		eP	08 59 54	LZ	20	21.0 (1)		
		ePS	08 10 25	LR	23	40.0 (1)		
		eLQ	08 20 00	LT	35	12.0 (2)		
		eLR	08 23 05	LZ	31	12.0 (2)		
		eL	08 27 00	LZ	22	92.0 (1)		
		eL	08 27 00	LR	22	86.0 (1)		
		eL	08 27 00	LT	22	47.0 (1)		
14	TF	eP	07 59 53.3	Z	0.8	15.0 (0)	77.0	4.97
		eLR	08 22 55	LZ	27	21.0 (2)		
14	FM	eP	08 00 07.9	Z	0.8	16.0 (0)	80.0	4.94
		eP	08 00 10	LZ	19	16.0 (1)		
		eS	08 10 10	LR	23	23.0 (1)		
		eS	08 10 10	LT	20	32.0 (1)		
		eLR	08 25 50	LZ	30	55.0 (1)		
		eL	08 28 31	LZ	24	58.0 (1)		
		eL	08 28 31	LR	24	23.0 (1)		
		eL	08 28 31	LT	23	54.0 (1)		
14	CP	eP	08 00 14.2D	Z	1.0	35.0 (0)	81.0	5.22
		eLR	08 24 50	LZ	27	16.0 (2)		
		eL	08 28 05	LZ	21	14.0 (2)		
		eL	08 28 05	LR	22	93.0 (1)		
		eL	08 28 05	LT	24			
14	LC	eP	08 00 47.6	Z	1.0	11.0 (0)	87.0	4.92
		ePP	08 04 12	Z	1.6	17.0 (0)		
		eLQ	08 25 48	LT	30	79.0 (1)		
		eLR	08 29 15	LZ	30	11.0 (2)		
		eL	08 31 45	LZ	25	65.0 (1)		
		eL	08 31 45	LR	25	55.0 (1)		
		eL	08 31 45	LT	20	19.0 (1)		
14	NG	eP	08 00 48.5	Z	1.0	17.0 (0)	88.0	5.15
		eP	08 00 52	LZ	25	12.0 (1)		
		eS	08 11 25	LR	26	35.0 (1)		
		eLQ	08 29 25	LR	30	54.0 (1)		
		eLR	08 31 50	LZ	28	58.0 (1)		
14	SJ	eL	08 29 45	LT	35	11.0 (2)	96.0	
14	DH	eLR	08 37 15	LZ	27	12.0 (2)	96.0	
		eL	08 41 40	LZ	25	29.0 (1)		
		eL	08 41 40	LR	24	10.0 (2)		
		eL	08 41 40	LT	23	54.0 (1)		
						AVG.		5.00
14	07 56 29.2		35.6 N 140.8 E H =060 KM				CENTRAL HONSHU, JAPAN	
14	CP	eP	08 08 38.8	Z	0.9	3.4 (0)	81.0	4.26

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	CP	iP	07 57 24.8D	Z	0.2	30.0 (0)	0.1	
		eS	07 57 29	T	999.9	99.9 (9)		
14	CP	iP	08 41 39.7D	Z	0.2	12.0 (0)	1.1	
		eS	08 41 54	R	999.9	99.9 (9)		
14	WI	eP	10 13 40.8	Z	0.2	3.3 (0)	1.1	
		eS	10 14 22	R	0.6	9.3 (0)		
14	CP	eP	12 30 24.2	Z	0.3	1.1 (0)	1.6	
		eS	12 30 47	T	999.9	99.9 (9)		
14	LC	eP	13 23 25.0	Z	0.7	2.5 (0)		
14	LC	eP	14 29 39.7	Z	0.9	1.9 (0)		
14	WI	eP	14 29 58.5	Z	0.8	3.3 (0)		
14	MN	eP	14 30 11.0	Z	0.9	3.2 (0)		
14	LC	eP	14 38 19.7	Z	1.0	3.7 (0)		
14	WI	eL	15 00 00	LZ	28	17.0 (1)		
14	16 11 08.4		20.3 N 045.9 W					
			H = 033 KM					
14	LC	eP	16 20 39.7	Z	1.0	4.9 (0)	55.0	4.49
		eS	16 28 33	LR	19	30.0 (1)		
		eLR	16 37 07	LZ	30	77.0 (1)		
		eL	16 41 57	LZ	23	75.0 (1)		
		eL	16 41 57	LR	22	74.0 (1)		
		eL	16 41 57	LT	22	19.0 (1)		
14	DH	eLR	16 25 30	LZ	30	12.0 (2)	33.0	
		eL	16 26 50	LZ	23	11.0 (2)		
		eL	16 26 50	LR	25	93.0 (1)		
		eL	16 26 50	LT	24	77.0 (1)		
14	NG	eLR	16 30 25	LZ	28	79.0 (1)	43.0	
14	SJ	eLQ	16 34 35	LT	33	13.0 (2)	49.0	
		eLR	16 36 24	LZ	25	81.0 (1)		
		eL	16 39 45	LZ	23	81.0 (1)		
		eL	16 39 45	LR	22	16.0 (2)		
		eL	16 39 45	LT	22	25.0 (2)		
14	FM	ePCS	16 36 16	LR	22	29.0 (1)	60.0	
		eLR	16 39 28	LZ	35	45.0 (1)		
		eL	16 43 17	LZ	23	58.0 (1)		
		eL	16 43 17	LR	23	40.0 (1)		
		eL	16 43 17	LT	25	43.0 (1)		
14	CP	eLR	16 40 50	LZ	32	56.0 (1)	63.0	
14	WI	eLR	16 41 00	LZ	42	10.0 (2)	64.0	
		eL	16 46 00	LZ	23	90.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	16 46 00	LR	25	17.0 (1)		
		eL	16 46 00	LT	24	78.0 (1)		
14	MN	eLR	16 41 40	LZ	40	70.0 (1)	65.0	
		eL	16 47 30	LZ	20	40.0 (1)		
		eL	16 47 30	LR	20	40.0 (1)		
		eL	16 47 30	LT	20	14.0 (1)		
14	TF	eL	16 43 20	LZ	28	56.0 (1)	67.0	
14	MV	eLR	16 43 25	LZ	32	46.0 (1)	66.0	
		eL	16 47 48	LZ	23	76.0 (1)		
		eL	16 47 48	LR	23	36.0 (1)		
		eL	16 47 48	LT	25	66.0 (1)		
							AVG.	4.49
14	CP	eP	16 15 26.7	Z	0.2	9.9 (0)	0.1	
		eS	16 15 31	R	999.9	99.9 (9)		
14	LC	eP	17 50 28.8	Z	0.6	2.1 (0)		
14	LC	e	17 51 01	T	0.6	8.4 (0)		
14	CP	iP	18 57 33.5D	Z	0.3	36.0 (0)	0.1	
		eS	18 57 38	T	999.9	99.9 (9)		
14	CP	iP	19 22 21.0C	Z	0.2	99.9 (9)		
14	CP	iP	21 48 15.5D	Z	0.2	20.0 (0)	0.1	
		eS	21 48 19	T	999.9	99.9 (9)		
14	WI	eP	21 53 29.6	Z	0.5	3.4 (0)		
14	MN	eP	21 53 32.3	Z	0.6	5.5 (0)		
14	21 59 16.1		00.3 S 123.0 E					
			H = 092 KM					
14	MN	eP	22 17 51.6	Z	0.8	1.9 (0)	112.0	
		ePS	22 28 05	LR	30	43.0 (1)		
		eSS	22 34 05	LT	20	30.0 (1)		
		eSSS	22 38 05	LR	28	31.0 (1)		
		eLQ	22 46 13	LR	24	24.0 (1)		
		eLR	22 51 40	LZ	30	12.0 (2)		
14	LC	eP	22 18 05.6	Z	0.7	3.7 (0)	124.0	
14	WI	ePKKP	22 28 44	Z	1.2	5.2 (0)	113.0	
		eSSS	22 38 00	LR	20	23.0 (1)		
		eLQ	22 47 10	LR	25	33.0 (1)		
14	MV	eLR	22 51 35	LZ	35	84.0 (1)		
		eLR	22 50 22	LZ	36	17.0 (2)	111.0	
14	MN	eP	22 08 49.8	Z	0.2	22.0 (0)	0.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	MN	eS	22 08 59	R	0.4	18.0 (0)	0.6	
14	WI	eP	22 17 28.6	Z	1.3	4.3 (0)		
15	CP	eP	00 05 45.2	Z	0.3	6.9 (0)	1.3	
		eS	00 06 02	T	0.4	8.6 (0)		
15	CP	tP	01 45 36.4D	Z	0.3	64.0 (0)	0.6	
		eS	01 45 44	T	0.3	91.0 (0)		
15	CP	tP	04 18 38.4D	Z	0.2	39.0 (0)	0.3	
		eS	04 18 43	T	0.3	17.0 (1)		
15	LC	eP	11 24 42.9	Z	0.5	1.4 (0)		
15	11 30 38.6		21.0 S 178.4 W H =590 KM				TONGA ISLANDS	
15	LC	eP	12 37 26.5	Z	0.7	1.2 (0)		
15	LC	eL	12 38 59	R	0.7	9.9 (0)		
15	CP	eP	13 00 11.3	Z	0.3	11.0 (0)	0.1	
		eS	13 00 15	T	0.2	66.0 (0)		
15	13 48 40.1		36.0 N 140.3 E H =090 KM				CENTRAL HONSHU, JAPAN	
15	14 55 26.9		14.5 S 166.9 E H =033 KM				NEW HEBRIDES ISLANDS	
15	15 51 57.6		38.3 S 073.2 W H =033 KM				CENTRAL CHILE	
15	SJ	eP	16 03 05.2	Z	1.0	30.0 (0)	70.0	5.28
		eS	16 12 10	LR	18	87.0 (1)		
		eS	16 12 10	LT	20	29.0 (2)		
		eSCS	16 13 08	LR	22	16.0 (2)		
		e	16 13 42	LT	22	17.0 (2)		
		eSS	16 16 12	LT	20	14.0 (2)		
		eSSS	16 20 06	LT	28	12.0 (2)		
		e	16 22 28	LR	25	17.0 (2)		
		eLQ	16 25 25	LR	23	21.0 (2)		
		eLR	16 28 25	LT	19	25.0 (2)		
		eL	16 32 25	LZ	17	21.0 (2)		
		eL	16 32 25	LR	20	36.0 (2)		
		eL	16 32 25	LT	19	25.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eP	16 03 46.3	Z	0.8	8.7 (0)	77.0	4.84
		e	16 03 54	Z	1.1	58.0 (0)		
		eS	16 13 37	LT	23	11.0 (2)		
		eSS	16 18 44	LR	21	81.0 (1)		
		eSSS	16 22 45	LT	20	56.0 (1)		
		eLQ	16 25 46	LT	37	15.0 (2)		
		eLR	16 29 14	LZ	30	15.0 (2)		
		eL	16 35 00	LZ	16	72.0 (2)		
		eL	16 35 00	LR	16	55.0 (2)		
		eL	16 35 00	LT	16	33.0 (2)		
15	CP	eP	16 04 11.8	Z	1.2	34.0 (0)	82.0	5.25
15	CP	eS	16 14 16	LT	27	16.0 (2)	81.0	
		eLR	16 30 54	LZ	19	47.0 (2)		
		eL	16 33 20	LZ	18	53.0 (2)		
		eL	16 33 20	LR	19	34.0 (2)		
		eL	16 33 20	LT	17	13.0 (2)		
15	NG	eP	16 04 18.5	Z	1.0	22.0 (0)	83.0	5.24
		e	16 14 46	LR	25	11.0 (2)		
		eSS	16 20 39	LR	19	46.0 (1)		
		eSSS	16 22 58	LR	22	42.0 (1)		
		eL	16 29 30	LR	25	92.0 (1)		
15	FM	eP	16 04 30.3	Z	0.7	3.3 (0)	85.0	4.58
		e	16 14 58	LR	20	67.0 (1)		
		ePS	16 16 10	LT	23	94.0 (1)		
		eSS	16 20 28	LT	20	61.0 (1)		
		eSSS	16 24 10	LT	25	61.0 (1)		
		e	16 27 32	LR	35	11.0 (2)		
		eLQ	16 29 18	LR	27	88.0 (1)		
		eLR	16 35 45	LZ	19	27.0 (2)		
		eL	16 37 15	LZ	19	27.0 (2)		
		eL	16 37 15	LR	18	62.0 (1)		
		eL	16 37 15	LT	20	27.0 (2)		
15	TF	eP	16 04 30.4	Z	1.0	13.0 (0)	85.0	5.02
		e	16 15 07	LT	23	13.0 (2)		
		eSS	16 21 07	LT	20	91.0 (1)		
		eSSS	16 24 25	LT	20	51.0 (1)		
		eLQ	16 28 28	LR	30	85.0 (1)		
		eLR	16 32 10	LZ	20	28.0 (2)		
		eL	16 36 35	LZ	17	42.0 (2)		
		eL	16 36 35	LR	17	21.0 (2)		
		eL	16 36 35	LT	17	34.0 (2)		
15	MV	eP	16 04 49.0	Z	1.5	24.0 (0)	89.0	5.17
		e	16 15 23	LR	28	12.0 (2)		
		ePS	16 16 45	LR	24	40.0 (1)		
		eSS	16 21 53	LR	21	41.0 (1)		
		eSSS	16 25 23	LR	24	37.0 (1)		
		eLQ	16 28 50	LT	30	42.0 (1)		
		eLR	16 34 38	LZ	23	16.0 (2)		
		eL	16 37 40	LZ	18	36.0 (2)		
		eL	16 37 40	LR	18	12.0 (2)		
		eL	16 37 40	LT	18	11.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	WI	eP	16 04 49.6	Z	0.7	21.0 (0)	89.0	5.44
		e	16 15 25	LR	21	83.0 (1)		
		eSS	16 21 50	LT	25	61.0 (1)		
		eSSS	16 25 25	LR	24	41.0 (1)		
		eLQ	16 28 25	LT	20	46.0 (1)		
		eLR	16 36 00	LZ	22	14.0 (2)		
		eL	16 43 05	LZ	16	25.0 (2)		
		eL	16 43 05	LR	15	29.0 (2)		
		eL	16 43 05	LT	19	15.0 (2)		
15	DH	eS	16 14 13	LR	21	13.0 (2)	80.0	
		eS	16 14 13	LT	23	37.0 (1)		
		eLQ	16 27 55	LR	32	13.0 (2)		
		eLR	16 33 45	LZ	999.9	99.9 (9)		
15	MN	e	16 15 20	LT	24	12.0 (2)	87.0	
		ePS	16 16 15	LR	23	75.0 (1)		
		eSS	16 20 53	LR	23	45.0 (1)		
		eSSS	16 24 34	LR	20	38.0 (1)		
		e	16 28 00	LT	25	55.0 (1)		
		eLQ	16 29 45	LT	29	93.0 (1)		
		eLR	16 34 13	LZ	25	16.0 (2)		
		eL	16 38 45	LZ	17	17.0 (2)		
		eL	16 38 45	LR	19	64.0 (1)		
		eL	16 38 45	LT	17	19.0 (2)		
							AVG.	5.10
15	16 09 26.9		38.4 S 073.6 W			CENTRAL CHILE		
			H = 033 KM					
15	SJ	eP	16 20 33.5	Z	1.0	30.0 (0)	69.0	5.35
15	LC	eP	16 21 16.8	Z	1.0	12.0 (0)	77.0	4.88
15	NG	eP	16 21 54.3	Z	1.0	18.0 (0)	84.0	5.16
15	TF	eP	16 22 00.4	Z	0.9	9.8 (0)	85.0	4.94
15	FM	eP	16 22 05.0	Z	1.0	12.0 (0)	86.0	4.91
15	MV	eP	16 22 14.0	Z	999.9	69.0 (0)	88.0	
15	WI	eP	16 22 18.6	Z	1.1	10.0 (0)	89.0	4.93
							AVG.	5.03
15	16 25 09.4		06.9 S 146.7 E			NEW GUINEA		
			H = 040 KM					
15	LC	ePKKP	16 55 03	Z	1.0	7.4 (0)	108.0	
15	LC	eP	20 23 23.1	Z	0.2	15.0 (0)	1.5	
		eS	20 23 42	T	0.3	8.9 (0)		
15	CP	tP	20 31 10.6C	Z	0.2	82.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	WI	eP	23 02 19.3	Z	0.3	29.0 (0)	1.9	
15	MV	eP	23 02 38.0	Z	0.4	3.7 (0)	3.2	
15	WI	eS	23 02 45	R	0.6	17.0 (1)	1.9	
15	MV	eS	23 03 18	R	0.7	16.0 (0)	3.2	
15	23 25 15.7		08.7 S 079.8 W			NEAR COAST OF N. PERU		
			H = 045 KM			MAG 6.00-		PAS
15	SJ	eP	23 32 51.4	Z	0.9	15.0 (1)	40.0	5.71
		eP	23 32 52	LZ	17	27.0 (2)		
		e	23 33 26	Z	1.0	22.0 (1)		
		ePCP	23 34 54	Z	1.0	91.0 (0)		
		eS	23 38 55	LR	999.9	99.9 (9)		
		eS	23 39 01	R	2.2	32.0 (1)		
		eL	23 42 15	LT	15	72.0 (2)		
15	LC	tP	23 33 53.6C	Z	1.0	62.0 (0)	48.0	5.56
		eP	23 33 55	LZ	18	20.0 (2)		
		e	23 34 05	Z	0.9	72.0 (0)		
		ePCP	23 35 20	Z	1.0	30.0 (0)		
		ePP	23 35 37	LZ	18	99.0 (1)		
		eS	23 40 50	LR	32	71.0 (2)		
		eS	23 40 50	LT	28	43.0 (2)		
		eSS	23 44 10	LT	23	57.0 (2)		
		eLR	23 51 05	LZ	20	10.0 (3)		
		eL	23 52 00	LZ	22	98.0 (2)		
		eL	23 52 00	LR	21	72.0 (2)		
		eL	23 52 00	LT	25	40.0 (2)		
15	DH	tP	23 34 14.2C	Z	0.9	32.0 (1)	51.0	6.30
		e	23 35 47	Z	2.5	12.0 (2)		
		eS	23 41 28	LT	21	20.0 (2)		
		e	23 42 21	LT	27	16.0 (2)		
		eSCS	23 44 02	LT	25	10.0 (2)		
		eLQ	23 46 21	LR	30	46.0 (2)		
		eL	23 53 25	LR	23	35.0 (2)		
		eL	23 53 25	LT	23	50.0 (2)		
15	CP	eP	23 34 36.7	Z	1.2	28.0 (0)	54.0	5.17
		eP	23 34 37	LZ	18	20.0 (2)		
		ePCP	23 35 42	Z	1.1	36.0 (0)		
		ePP	23 36 47	LZ	18	88.0 (1)		
		eS	23 42 20	LR	27	44.0 (2)		
		eS	23 42 20	LT	25	50.0 (2)		
		eSS	23 45 35	LT	22	23.0 (2)		
		e	23 48 15	LZ	18	25.0 (2)		
		eLR	23 52 00	LZ	21	72.0 (2)		
		eL	23 54 00	LZ	21	41.0 (2)		
		eL	23 54 00	LR	20	23.0 (2)		
		eL	23 54 00	LT	21	38.0 (2)		
15	NG	tP	23 34 40.9C	Z	1.0	11.0 (1)	54.0	5.80

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	23 34 43	LZ	20	99.0 (1)		
		eS	23 42 05	LR	18	21.0 (2)		
		eSCS	23 44 10	LR	18	19.0 (2)		
		e	23 46 28	LZ	30	14.0 (2)		
		eLQ	23 48 30	LR	40	79.0 (2)		
		eLR	23 52 45	LZ	25	70.0 (2)		
15	FM	tP	23 34 54.5C	Z	1.2	51.0 (0)	56.0	5.43
		eP	23 34 55	LZ	20	12.0 (2)		
		ePP	23 37 18	LZ	19	72.0 (1)		
		eS	23 42 42	LR	25	10.0 (2)		
		eS	23 42 42	LT	28	27.0 (2)		
		eSS	23 46 20	LT	23	32.0 (2)		
		eSSS	23 49 20	LT	22	21.0 (2)		
		eLQ	23 51 00	LR	28	18.0 (2)		
		eLR	23 54 55	LZ	999.9	99.9 (9)		
15	TF	eP	23 35 04.4	Z	1.8	18.0 (1)	58.0	5.80
		eP	23 35 05	LZ	18	19.0 (2)		
		eS	23 43 10	LR	24	15.0 (2)		
		eS	23 43 10	LT	30	84.0 (2)		
		eSS	23 46 31	LT	22	48.0 (2)		
		e	23 50 11	LZ	30	33.0 (2)		
		eLR	23 52 43	LZ	22	16.0 (2)		
		eL	23 55 13	LZ	20	48.0 (2)		
		eL	23 55 13	LR	22	29.0 (2)		
		eL	23 55 13	LT	21	41.0 (2)		
15	MN	eP	23 35 12.5	Z	1.0	76.0 (0)	59.0	5.68
		eP	23 35 14	LZ	20	14.0 (2)		
		ePP	23 37 10	LZ	21	73.0 (1)		
		eS	23 43 02	LR	999.9	99.9 (9)		
		eSS	23 46 57	LR	999.9	99.9 (9)		
		eLQ	23 50 20	LR	999.9	99.9 (9)		
		eLR	23 55 05	LZ	999.9	99.9 (9)		
15	WI	tP	23 35 23.7C	Z	1.0	10.0 (1)	61.0	5.86
		eP	23 35 24	LZ	19	12.0 (2)		
		ePP	23 37 30	LZ	20	60.0 (1)		
		eS	23 43 40	LR	22	19.0 (2)		
		eS	23 43 40	LT	18	20.0 (2)		
		eSS	23 47 54	LR	999.9	99.9 (9)		
		eSSS	23 50 55	LR	26	22.0 (2)		
		eLQ	23 53 55	LT	26	19.0 (2)		
		eLR	23 56 25	LZ	999.9	99.9 (9)		
16	WI	eP	00 04 42	Z	1.2	13.0 (0)	61.0	
15	MV	eP	23 35 27.5	Z	1.9	12.0 (1)	61.0	5.66
		eP	23 35 28	LZ	18	20.0 (2)		
		ePP	23 37 53	LZ	19	76.0 (1)		
		eS	23 43 46	LR	20	12.0 (2)		
		eS	23 43 46	LT	22	12.0 (2)		
		eSCS	23 45 22	LR	22	12.0 (2)		
		eSS	23 48 04	LR	27	13.0 (2)		
		eSSS	23 50 27	LT	25	14.0 (2)		
		eLR	23 55 48	LZ	30	23.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	23 59 41	LZ	20	29.0 (2)		
		eL	23 59 41	LR	20	52.0 (1)		
		eL	23 59 41	LT	20	36.0 (2)		
							AVG.	5.70
16	WI	eP	02 15 13.9	Z	1.0	2.3 (0)		
16	MN	eP	02 15 15.4	Z	0.8	9.8 (0)		
16	02 19 48.7		18.0 S 178.4 W				FIJI ISLANDS REGION	
							H = 612 KM	
16	CP	eP	02 30 46.8	Z	0.9	9.2 (0)	78.0	4.22
16	MN	eP	02 30 55.5	Z	0.9	8.9 (0)	80.0	4.20
16	WI	eP	02 31 06.0	Z	0.7	8.0 (0)	82.0	4.36
							AVG.	4.26
16	WI	eP	03 02 36.5	Z	0.7	1.1 (0)		
16	WI	eL	03 03 49	R	1.0	11.0 (0)		
16	CP	eP	05 48 25.3	Z	1.0	7.4 (0)		
16	MN	eP	05 49 11.3	Z	0.9	14.0 (0)		
16	FM	eP	05 49 14.0	Z	1.1	12.0 (0)		
16	MV	eP	05 49 16.8	Z	0.9	2.0 (0)		
16	WI	eP	05 49 28.0	Z	1.2	14.0 (0)		
16	WI	e	05 49 32	Z	1.3	22.0 (0)		
16	06 39 08.2		01.0 S 078.6 W				ECUADOR	
							H = 033 KM	
16	SJ	eP	06 45 54.5	Z	1.0	20.0 (0)	34.0	4.97
16	FM	eP	06 48 06.4	Z	1.0	6.7 (0)	51.0	4.56
16	TF	eP	06 48 27.2	Z	0.7	6.3 (0)	53.0	4.68
16	MN	eP	06 48 29.0	Z	0.9	6.4 (0)	54.0	4.65
16	WI	eP	06 48 39.2	Z	1.0	2.3 (0)	55.0	4.15
16	MV	eP	06 48 46.0	Z	0.9	2.0 (0)	56.0	4.15
							AVG.	4.53
16	07 18 37.3		32.3 S 111.1 W				EASTER ISLANDS REGION	
							H = 043 KM MAG 6.50-6.75 PAS	
16	SJ	eP	07 28 48.0	Z	1.0	61.0 (0)	61.0	5.64
16	CP	eP	07 28 49	LZ	15	31.0 (2)		
								5.46
16	CP	eP	07 29 14.2	Z	1.0	39.0 (0)	65.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	07 29 15	LZ	17	16.0 (2)		
		e	07 30 38	Z	2.7	19.0 (1)		
		ePP	07 31 25	LZ	20	49.0 (1)		
		ePP	07 31 38	Z	2.0	75.0 (1)		
		eS	07 38 00	LR	15	99.0 (2)		
		eS	07 38 00	LT	32	35.0 (2)		
		eSS	07 42 14	LR	20	14.0 (3)		
		eLQ	07 46 30	LT	24	94.0 (2)		
		eLR	07 49 40	LZ	999.9	99.9 (9)		
		eL	07 50 50	LR	16	21.0 (3)		
		eL	07 50 50	LT	17	76.0 (2)		
16	TF	eP	07 29 31.9	Z			68.0	
		eP	07 29 32	LZ	18	14.0 (2)		
		ePP	07 32 04	Z	2.0	13.0 (1)		
		eS	07 38 36	LR	21	22.0 (2)		
		eS	07 38 36	LT	22	41.0 (2)		
		eSS	07 43 06	LR	20	51.0 (2)		
		eLQ	07 47 32	LR	33	74.0 (2)		
		eLR	07 50 42	LZ	999.9	99.9 (9)		
16	MN	tP	07 29 51.0C	Z	1.0	99.9 (9)	71.0	
		eP	07 29 56	LZ	23	94.0 (1)		
		eS	07 39 15	R	4.0	41.0 (1)		
		eP*P*	07 57 52	Z	2.5	52.0 (0)		
16	FM	eP	07 29 53.3	Z	1.2	88.0 (0)	71.0	5.63
		eP	07 29 56	LZ	17	86.0 (1)		
		e	07 29 58	Z	1.4	27.0 (1)		
		ePP	07 32 26	Z	2.0	11.0 (1)		
		ePP	07 32 31	LZ	17	62.0 (1)		
		ePPP	07 34 09	LZ	18	60.0 (1)		
		eS	07 39 20	LR	24	33.0 (2)		
		eS	07 39 20	LT	24	47.0 (2)		
		eSS	07 43 44	LR	27	61.0 (2)		
		eLQ	07 49 32	LR	33	54.0 (2)		
		eLR	07 53 32	LZ	999.9	99.9 (9)		
16	MV	eP	07 29 56.7	Z	1.2	52.0 (0)	72.0	5.49
		eP	07 29 58	LZ	17	14.0 (2)		
		ePP	07 32 29	Z	2.5	11.0 (1)		
		eS	07 39 27	LR	22	26.0 (2)		
		eS	07 39 27	LT	21	32.0 (2)		
		eSS	07 43 44	LR	999.9	99.9 (9)		
		eSSS	07 47 44	LR	19	12.0 (2)		
		eLQ	07 49 05	LR	999.9	99.9 (9)		
		eLR	07 52 55	LZ	999.9	99.9 (9)		
16	WI	tP	07 30 07.5C	Z	1.0	24.0 (0)	74.0	5.10
		eP	07 30 10	LZ	19	85.0 (1)		
		e	07 32 42	LR	20	44.0 (1)		
		ePP	07 32 56	Z	2.5	26.0 (1)		
		eS	07 39 42	LT	20	12.0 (2)		
		eS	07 39 46	R	5.5	21.0 (2)		
		eSS	07 45 17	LT	23	16.0 (2)		
		eSSS	07 47 28	LR	25	16.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	07 50 10	LR	34	23.0 (2)		
		eLR	07 53 58	LZ	999.9	99.9 (9)		
16	NG	eP	07 30 45.5	Z			81.0	
		eP	07 30 50	LZ	17	11.0 (2)		
		ePP	07 33 48	Z	2.5	28.0 (1)		
		eS	07 40 57	LR	24	99.9 (9)		
		ePS	07 41 43	LR	32	33.0 (2)		
		ePPS	07 42 22	LR	29	23.0 (2)		
		eSS	07 45 52	LR	18	36.0 (2)		
		eSSS	07 49 35	LR	25	23.0 (2)		
		eL	07 52 20	LR	25	43.0 (2)		
16	DH	eS	07 41 08	LR	25	57.0 (2)	82.0	
		eS	07 41 08	LT	20	18.0 (2)		
		ePS	07 41 57	LT	25	27.0 (2)		
		ePPS	07 42 40	LT	22	19.0 (2)		
		eSS	07 46 35	LT	25	33.0 (2)		
		eSSS	07 50 05	LR	23	29.0 (2)		
		eL	07 52 37	LR	24	65.0 (2)		
							AVG.	5.46
16	09 52 25.1		19.0 N 145.3 E					
			H = 207 KM					
16	MV	eP	10 04 16.9	Z	0.5	9.1 (0)	81.0	4.78
16	TF	eP	10 04 28.5	Z	0.8	19.0 (0)	83.0	4.90
16	WI	eP	10 04 28.7	Z	0.6	13.0 (0)	83.0	4.86
16	MN	tP	10 04 30.6C	Z	0.7	23.0 (0)	84.0	5.04
16	CP	eP	10 04 46.6	Z	0.5	4.5 (0)	87.0	4.57
16	FM	eP	10 04 50.5	Z	0.7	8.4 (0)	88.0	4.68
							AVG.	4.81
16	WI	eP	19 11 43.0	Z	0.7	1.7 (0)		
16	WI	eL	19 12 45	R	0.5	2.2 (0)		
16	MN	eP	20 16 41.5	Z	0.3	4.8 (0)		
16	MN	eL	20 17 18	R	0.5	8.0 (0)		
16	21 10 01.8		13.5 N 093.2 E					
			H = 033 KM MAG 6.00-6.25 PAL					
16	MV	eP†	21 28 50.0	Z	0.8	5.0 (0)	119.0	
		eP† AS	21 28 56.7	Z	1.0	19.0 (0)		
		ePP	21 30 38	Z	1.5	15.0 (0)		
		eSKP	21 32 24	Z	1.3	20.0 (0)		
		eSP	21 40 00	LZ	17	20.0 (2)		
		eSS	21 46 23	LT	20	99.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
16	WI	e	21 49 45	LT	21	70.0 (1)				
		eSSS	21 51 35	LR	25	79.0 (1)				
		eLQ	22 03 46	LT	33	21.0 (2)				
		eLR	22 08 37	LZ	45	21.0 (2)				
		eP†	21 28 50.5	Z	1.0	8.0 (0)	119.0			
		ePP	21 30 12	Z	2.0	72.0 (0)				
		eSKP	21 32 35	Z	1.0	11.0 (0)				
		eSKS	21 36 10	LR	35	11.0 (2)				
		eS	21 37 53	LT	18	52.0 (1)				
		ePKKP	21 39 10	Z	1.5	10.0 (0)				
		eSP	21 40 08	LZ	18	12.0 (2)				
		eSS	21 46 23	LT	20	11.0 (2)				
		eSSS	21 50 52	LR	38	14.0 (2)				
		eLQ	22 00 07	LT	30	21.0 (2)				
		eLR	22 13 15	LZ	39	99.9 (9)				
		16	NG	eP†	21 28 53.7	Z	0.5	8.5 (0)	121.0	
				ePP	21 30 25	Z	1.0	22.0 (0)		
		16	MN	eP†	21 28 54.2	Z	1.0	17.0 (0)	121.0	
				eP† AS	21 29 01.0	Z	1.0	23.0 (0)		
				eSKP	21 32 29	Z	1.1	18.0 (0)		
		ePKKP	21 39 00	Z	1.0	2.5 (0)				
		eSKKP	21 42 44	Z	1.0	1.7 (0)				
16	MN	eSS	21 46 55	LT	29	13.0 (2)	120.0			
16	FM	eP†	21 28 57.7	Z	0.8	10.0 (0)	123.0			
		eP† AS	21 29 05.3	Z	0.9	31.0 (0)				
		ePP	21 30 36	Z	1.0	10.0 (0)				
		eSKP	21 32 32	Z	1.3	19.0 (0)				
16	DH	eP†	21 28 58.9	Z	1.0	19.0 (0)	123.0			
		ePP	21 30 35	LZ	11	35.0 (2)				
		eSP	21 40 31	LZ	16	12.0 (2)				
		eSS	21 47 34	LR	21	21.0 (2)				
		eLQ	22 03 58	LR	22	14.0 (2)				
		eLR	22 13 20	LZ	35	29.0 (2)				
16	TF	eP†	21 29 00.0	Z	1.0	29.0 (0)	122.0			
		ePP	21 30 42	LZ	17	10.0 (2)				
		eSP	21 40 36	LZ	18	13.0 (2)				
		eSS	21 47 14	LR	20	16.0 (2)				
		eSSS	21 52 10	LR	25	10.0 (2)				
		eLQ	22 04 11	LR	45	43.0 (2)				
		eLR	22 11 25	LZ	29	34.0 (2)				
		eL	22 20 50	LZ	22	26.0 (2)				
		eL	22 20 50	LR	22	31.0 (2)				
		eL	22 20 50	LT	25	40.0 (2)				
16	CP	eP†	21 29 06.1	Z	0.8	4.4 (0)	126.0			
		eP† AS	21 29 12.7	Z	1.0	25.0 (0)				
		ePP	21 31 09	LZ	11	24.0 (2)				
		eSKP	21 32 41	Z	1.5	17.0 (0)				
		eSP	21 41 20	LZ	17	68.0 (1)				
		eSPP	21 42 30	LZ	19	68.0 (1)				
		eLQ	22 08 49	LT	55	83.0 (2)				
		eLR	22 20 00	LZ	33	33.0 (2)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	SJ	eL	22 31 20	LZ	22	99.9 (9)		
		eL	22 31 20	LR	20	17.0 (2)		
		eL	22 31 20	LT	23	34.0 (2)		
		eP†	21 29 28.9	Z	1.0	41.0 (0)	137.0	
		eP†	21 29 29	LZ	12	15.0 (2)		
		ePP	21 32 15	LZ	13	31.0 (2)		
		ePP	21 32 30	Z	1.4	96.0 (0)		
		eSKP	21 32 59	Z	1.0	51.0 (0)		
		ePKS	21 33 15	LR	17	10.0 (2)		
		eSPP	21 44 30	LZ	14	32.0 (2)		
		eSS	21 50 20	LT	17			
		eLQ	22 07 02	LT	20			
		eLR	22 28 45	LZ	32	35.0 (2)		
16	DH	eP	21 34 31.8	Z	0.5	7.3 (0)	0.8	
		eS	21 34 43	T	0.5	26.0 (0)		
16	22 45 43.5		14.0 N 092.8 E			ANDAMAN ISLANDS REGION		
			H = 033 KM					
16	MN	eP†	23 04 30.5	Z	0.8	2.0 (0)	120.0	
17	00 00 21.5		19.6 S 068.8 W			BOLIVIA		
			H = 209 KM					
17	FM	eP	00 11 20.6	Z	0.7	5.2 (0)	71.0	4.37
		epP	00 11 59	Z	0.6	2.9 (0)		
17	01 13 22.8		02.7 S 126.9 E			MOLUCCA SEA		
			H = 037 KM					
17	11 07 15.4		16.3 N 098.2 W			OAXACA, MEXICO		
			H = 012 KM					
17	SJ	e	11 10 08	LT	16	99.0 (1)	11.0	
		eP	11 10 01.5	Z	0.8	12.0 (0)		5.30
		eLG	11 13 36	R	2.0	44.0 (2)		
		eLR	11 14 03	LZ	14	31.0 (3)		
17	LC	eP	11 11 25.0	Z	1.0	12.0 (1)	18.0	4.99
		eP	11 11 26	LZ	18	10.0 (2)		
		eS	11 14 51	LT	21	11.0 (2)		
		eS	11 14 51	LR	16	43.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	11 16 15	LT	16	17.0 (3)		
		eL	11 16 57	Z	2.6	13.0 (2)		
		eLR	11 17 30	LZ	15	14.0 (2)		
		eL	11 17 30	LR	15	16.0 (3)		
		eL	11 17 30	LT	16	17.0 (3)		
		eL	11 18 36	Z	7.0	17.0 (3)		
17	CP	eP	11 12 24.8	Z	1.2	52.0 (0)	23.0	4.86
		eP	11 12 25	LZ	15	69.0 (1)		
		eS	11 16 42	LT	16	16.0 (2)		
		eS	11 16 42	LR	17	21.0 (2)		
		eLQ	11 19 00	LR	21	10.0 (3)		
		eLR	11 19 38	LZ	20	94.0 (1)		
		eL	11 19 38	LR	20	12.0 (2)		
		eL	11 19 38	LT	24	34.0 (1)		
17	FM	iP	11 12 50.5C	Z	1.0	11.0 (1)	26.0	5.43
		eP	11 12 53	LZ	17	60.0 (1)		
		eS	11 17 28	LR	27	58.0 (1)		
		eS	11 17 28	LT	16	22.0 (2)		
		eLQ	11 19 42	LR	33	18.0 (2)		
		eL	11 21 04	Z	3.6	52.0 (2)		
		eLR	11 21 52	LZ	15	53.0 (2)		
17	TF	eP	11 13 00.0	Z	0.9	66.0 (0)	27.0	5.34
		eS	11 18 03	LT	18	19.0 (2)		
		eLQ	11 20 11	LR	24	39.0 (2)		
		eLR	11 21 55	LZ	18	92.0 (1)		
		eL	11 21 55	LR	21	40.0 (2)		
		eL	11 21 55	LT	18	13.0 (2)		
17	MN	iP	11 13 10.5C	Z	0.9	42.0 (0)	28.0	5.24
		eP	11 13 15	LZ	15	44.0 (1)		
		eS	11 18 12	LR	23	72.0 (1)		
		eS	11 18 12	LT	17	69.0 (1)		
		eLQ	11 20 04	LT	27	36.0 (2)		
		eL	11 22 19	Z	2.6	16.0 (1)		
		eL	11 25 14	Z	8.5	63.0 (2)		
17	WI	iP	11 13 26.6C	Z	0.8	35.0 (0)	30.0	5.23
		eP	11 13 32	LZ	18	28.0 (1)		
		eS	11 18 30	T	3.1	16.0 (1)		
		eS	11 18 35	LT	25	78.0 (1)		
		eS	11 18 35	LR	21	66.0 (1)		
		eLQ	11 21 54	LT	999.9	99.9 (9)		
		eL	11 23 12	R	3.0	24.0 (1)		
		eL	11 26 12	R	7.5	61.0 (2)		
17	NG	eP	11 13 30.0	Z	1.0	62.0 (0)	31.0	5.47
		eP	11 13 31	LZ	19	40.0 (1)		
		eS	11 18 43	LR	18	71.0 (1)		
		eL	11 24 50	R	2.1	12.0 (1)		
		eLR	11 22 13	LZ	31	98.0 (1)		
17	MV	eP	11 13 30.7	Z	0.5	4.2 (0)	31.0	4.50
		eS	11 18 47	LR	17	51.0 (1)		
		eS	11 18 47	LT	20	46.0 (1)		
		eLQ	11 21 21	LT	28	15.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	11 23 35	T	3.0	14.0 (1)		
		eLR	11 24 05	LZ	20	15.0 (2)		
		eL	11 24 05	LR	20	14.0 (2)		
		eL	11 24 05	LT	20	32.0 (2)		
17	DH	eP	11 13 49.4	Z	0.8	28.0 (0)	33.0	5.23
		eP	11 13 50	LZ	18	66.0 (1)		
		eS	11 19 11	LR	20	11.0 (2)		
		eS	11 19 11	LT	18	89.0 (1)		
		eLR	11 23 30	LZ	25	81.0 (1)		
		eL	11 28 30	LZ	20	10.0 (2)		
		eL	11 28 30	LR	22	13.0 (2)		
		eL	11 28 30	LT	20	37.0 (1)		
							AVG.	5.16
17	14 21 30.6		02.8 N 121.7 E			CELEBES SEA		
			H = 609 KM					
17	WI	eP	14 38 57.8	Z	0.6	1.4 (0)	111.0	
		ePKKP	14 50 10	Z	0.7	14.0 (0)		
17	MN	eP	14 38 59.5	Z	1.0	2.0 (0)	112.0	
		e	14 39 33	Z	1.2	7.8 (0)		
		ePP	14 39 47	Z	1.4	19.0 (0)		
17	LC	eP	14 39 20.5	Z	0.7	3.1 (0)	122.0	
		ePP	14 41 01	Z	1.2	7.6 (0)		
		eSKP	14 42 00	Z	1.4	18.0 (0)		
		ePKKP	14 49 19	Z	0.7	7.4 (0)		
17	FM	ePP	14 40 14	Z	2.0	40.0 (0)	115.0	
17	SJ	eSKP	14 42 06	Z	1.4	34.0 (1)	131.0	
17	DH	eSKP	14 42 09	Z	1.0	58.0 (0)	132.0	
17	LC	eP	15 23 26.1	Z	0.7	8.1 (0)		
17	CP	eP	16 02 46.4	Z	0.3	31.0 (0)	0.1	
		eS	16 02 56	T	0.3	60.0 (0)		
17	CP	eP	18 46 56.4	Z	0.3	48.0 (0)		
17	CP	eP	19 11 14.5	Z	0.2	27.0 (0)	0.1	
		eS	19 11 24	T	999.9	99.9 (9)		
17	WI	eP	19 53 02.9	Z	0.7	2.2 (0)		
17	MN	eP	19 53 13.4	Z	0.6	1.4 (0)		
17	TF	eP	19 53 20.7	Z	1.0	8.6 (0)		
17	CP	eP	19 53 50.0	Z	1.0	5.9 (0)		
17	LC	eP	19 54 35.4	Z	1.0	3.7 (0)		
17	NG	eP	19 54 44.5	Z	0.6	5.6 (0)		
17	WI	eP	20 58 40.0	Z	0.7	3.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	CP	eP	21 07 53.6	Z	0.2	44.0 (0)		
17	22 28 29.3		63.3 N 150.0 W			CENTRAL ALASKA		
			H =125 KM					
17	WI	eP	22 34 20.4	Z	0.7	3.3 (0)	29.0	4.20
		epP	22 34 46	Z	1.0	4.4 (0)		
17	MV	eP	22 34 23.5	Z	0.6	5.0 (0)	29.0	4.27
17	MN	eP	22 34 40.5	Z	0.9	6.3 (0)	31.0	4.35
		ePCP	22 37 29	Z	0.6	2.1 (0)		
17	FM	eP	22 34 54.2	Z	1.0	5.5 (0)	33.0	4.29
17	NG	eP	22 35 39.0	Z	0.6	9.3 (0)	38.0	4.82
17	LC	eP	22 36 03.4	Z	0.8	2.2 (0)	41.0	3.97
						AVG.		4.32
18	06 43 08.3		00.2 S 125.1 E			MOLUCCA SEA		
			H =056 KM					
18	MN	eP	07 01 39.0	Z	0.9	1.8 (0)	111.0	
18	LC	eP	07 01 59.7	Z	1.0	16.0 (0)	122.0	
		ePKKP	07 11 60	Z	1.0	8.5 (0)		
18	NG	eP	07 02 06.7	Z	1.0	26.0 (0)	126.0	
18	DH	eSKP	07 05 49	Z	0.9	22.0 (0)	134.0	
		eLR	07 55 00	LZ	28	60.0 (1)		
		eL	07 55 53	LZ	23	67.0 (1)		
		eL	07 55 53	LR	22	65.0 (1)		
		eL	07 55 53	LT	23	31.0 (1)		
18	WI	ePKKP1	07 12 39	Z	0.8	2.0 (0)	110.0	
		ePKKP2	07 12 49	Z	0.8	6.5 (0)		
		eLR	08 10 48	LZ	23	20.0 (1)		
		eL	08 16 57	LZ	18	48.0 (1)		
		eL	08 16 57	LR	17	17.0 (1)		
		eL	08 16 57	LT	17	60.0 (1)		
18	FM	eLR	07 37 50	LZ	25	37.0 (1)	114.0	
		eL	08 38 50	LZ	24	37.0 (1)		
		eL	08 38 50	LR	25	29.0 (1)		
		eL	08 38 50	LT	25	32.0 (1)		
18	MV	eLR	08 14 00	LZ	24	41.0 (1)	109.0	
18	FM	eP	07 11 39.3	Z	0.3	6.1 (0)	1.2	
		eS	07 11 54	R	0.3	22.0 (0)		
18	MN	tP	07 17 14.7C	Z	0.3	6.0 (0)	3.0	
		eS	07 17 28	R	999.9	99.9 (9)		
18	WI	eP	07 17 30.5	Z	0.3	1.6 (0)	1.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	LC	eS	07 17 57	R	0.4	12.0 (0)		
		eP	07 48 09.0	Z	0.9	14.0 (0)		
18	FM	eP	07 48 42.3	Z	1.2	21.0 (0)		
18	WI	eP	07 49 08.7	Z	1.0	13.0 (0)		
18	MN	eP	07 49 12.7	Z	1.0	5.0 (0)		
18	MV	eP	07 49 27.5	Z	1.2	10.0 (0)		
18	CP	tP	08 04 47.3D	Z	0.3	11.0 (0)	0.6	
		eS	08 04 56	T	0.3	31.0 (0)		
18	CP	eP	10 06 02.8	Z	0.5	2.8 (0)		
18	CP	eL	10 07 01	T	0.6	7.0 (0)		
18	TF	eP	10 20 29.4	Z	0.3	18.0 (0)	0.5	
		eS	10 20 37	R	0.4	37.0 (0)		
18	MN	eP	10 39 10.7	Z	0.3	0.9 (0)	1.0	
		eS	10 39 24	R	0.3	5.8 (0)		
18	CP	tP	11 28 47.0D	Z	0.2	9.3 (0)	0.1	
		eS	11 28 51	T	999.9	99.9 (9)		
18	12 00 26.7		16.4 S 174.1 W			TONGA ISLANDS REGION		
			H =129 KM					
18	MV	eP	12 11 50.4	Z	0.9	5.2 (0)	74.0	4.33
		epP	12 12 29	Z	1.0	6.8 (0)		
18	MN	tP	12 11 59.7D	Z	1.0	11.0 (0)	76.0	4.60
		epP	12 12 38	Z	1.2	13.0 (0)		
18	WI	tP	12 12 11.5D	Z	0.7	6.7 (0)	78.0	4.55
		epP	12 12 48	Z	1.0	4.4 (0)		
18	FM	eP	12 12 24.0	Z	0.8	6.0 (0)	80.0	4.45
18	LC	eP	12 12 28.6	Z	1.0	19.0 (0)	81.0	4.85
						AVG.		4.56
18	CP	eP	14 59 33.0	Z	0.3	1.0 (0)	1.6	
		e	14 59 34	Z	0.3	7.1 (0)		
		eS	14 59 54	T	0.3	30.0 (0)		
19	04 15 36.1		24.3 N 122.6 E			RYUKYU ISLANDS		
			H =053 KM					
19	MV	eP	04 28 45.3	Z	1.0	4.1 (0)	93.0	4.76
19	WI	eP	04 28 51.6	Z	1.2	5.1 (0)	94.0	4.78
19	MN	eP	04 28 57.2	Z	0.9	2.2 (0)	96.0	4.69
						AVG.		4.74
19	CP	eP	07 48 05.0	Z	0.2	7.0 (0)	2.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	07 48 32	T	0.2	37.0 (0)		
19	MN	eP	08 52 16.4	Z	0.4	7.3 (0)	0.7	
		eS	08 52 26	R	0.4	16.0 (0)		
19	10 14 29.4		50.0 S 114.3 W				SOUTH PACIFIC OCEAN	
			H = 033 KM					
19	LC	eP	10 26 47.6	Z	1.0	3.7 (0)	82.0	4.37
		eS	10 37 10	LR	25	57.0 (1)		
		eS	10 37 10	LT	23	57.0 (1)		
		eSS	10 42 34	LR	22	58.0 (1)		
		eSSS	10 46 08	LR	25	57.0 (1)		
		eLQ	10 49 40	LR	46	48.0 (2)		
		eLR	10 53 52	LZ	26	33.0 (2)		
19	MN	eP	10 27 17.5	Z	1.1	6.1 (0)	88.0	4.75
		eS	10 38 01	LR	25	44.0 (1)		
		eS	10 38 01	LT	25	38.0 (1)		
		ePS	10 39 05	LT	25	44.0 (1)		
		eSS	10 43 58	LT	28	78.0 (1)		
		eSSS	10 47 30	LT	26	34.0 (1)		
		eLQ	10 51 21	LR	45	17.0 (2)		
		eLR	10 55 25	LZ	999.9	99.9 (9)		
		eL	10 57 15	LZ	999.9	99.9 (9)		
		eL	10 57 15	LR	25	26.0 (2)		
		eL	10 57 15	LT	25	28.0 (2)		
19	FM	eP	10 27 18.7	Z	1.0	9.4 (0)	88.0	4.87
		eS	10 38 15	LR	21	28.0 (1)		
		eS	10 38 15	LT	21	27.0 (1)		
		ePS	10 39 25	LT	23	43.0 (1)		
		eSS	10 44 18	LR	25	69.0 (1)		
		eSSS	10 48 06	LT	20	32.0 (1)		
		eLQ	10 50 50	LR	40	11.0 (2)		
		eLR	10 58 06	LZ	24	17.0 (2)		
		eL	10 59 40	LZ	21	17.0 (2)		
		eL	10 59 40	LR	24	78.0 (1)		
		eL	10 59 40	LT	22	16.0 (2)		
19	SJ	eS	10 36 34	LR	23	21.0 (2)	79.0	
		eSS	10 41 25	LR	30	19.0 (2)		
		eSSS	10 43 38	LR	24	12.0 (2)		
		e	10 46 31	LR	23	14.0 (2)		
		eLQ	10 49 30	LR	33	98.0 (2)		
		eLR	10 53 12	LZ	24	13.0 (2)		
		eL	10 56 20	LZ	18	17.0 (2)		
		eL	10 56 20	LR	18	95.0 (2)		
		eL	10 56 20	LT	18	45.0 (2)		
19	TF	eS	10 37 31	LR	23	42.0 (1)	86.0	
		eSS	10 42 50	LR	25	42.0 (1)		
		eLQ	10 50 23	LR	38	12.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	10 53 25	LZ	24	48.0 (2)		
		eL	10 55 15	LZ	23	49.0 (2)		
		eL	10 55 15	LR	23	30.0 (2)		
19	MV	eL	10 55 15	LT	24			
		eS	10 38 18	LT	23	42.0 (1)	90.0	
		ePS	10 39 13	LT	23	57.0 (1)		
		e	10 40 48	LT	30	54.0 (1)		
		eSS	10 44 11	LT	24	91.0 (1)		
		eSSS	10 48 00	LR	37	43.0 (1)		
		eLQ	10 51 05	LR	44	13.0 (2)		
		eLR	10 55 58	LZ	23	42.0 (2)		
		eL	10 57 10	LZ	23	42.0 (2)		
		eL	10 57 10	LR	23	54.0 (1)		
		eL	10 57 10	LT	25	21.0 (2)		
19	WI	eS	10 38 30	LR	24	44.0 (1)	92.0	
		eS	10 38 30	LT	20	29.0 (1)		
		ePS	10 39 47	LT	22	68.0 (1)		
		eSS	10 44 46	LR	25	69.0 (1)		
		eSSS	10 48 18	LT	23	29.0 (1)		
		eLQ	10 51 35	LR	43	17.0 (2)		
		eLR	10 57 05	LZ	25	29.0 (1)		
		eL	11 00 00	LZ	20	34.0 (2)		
		eL	11 00 00	LR	18	13.0 (2)		
		eL	11 00 00	LT	20	32.0 (2)		
19	CP	eLR	10 51 55	LZ	24	24.0 (2)	83.0	
19	NG	eLQ	10 56 00	LR	30	63.0 (1)	99.0	
		eLR	11 06 15	LR	21	78.0 (1)		
19	DH	eLQ	10 56 00	LR	41	27.0 (2)	99.0	
		eLR	11 01 43	LZ	34	32.0 (2)		
							AVG.	4.66
19	LC	eP	10 41 27.0	Z	1.0	3.7 (0)		
19	MN	eP	10 41 55.7	Z	1.0	1.7 (0)		
19	CP	eP	10 53 10.0	Z	0.2	14.0 (0)		
19	13 58 57.6		60.7 S 152.9 E				S.W. OF MACQUARIE ISLAND	
			H = 033 KM					
19	14 30 29.1		06.7 N 073.0 W				COLOMBIA	
			H = 135 KM					
19	SJ	eP	14 36 43.8	Z	0.5	19.0 (0)	32.0	5.05
19	DH	eP	14 37 14.7	Z	0.5	36.0 (0)	36.0	5.45
19	LC	eP	14 37 56.5	Z	0.8	42.0 (0)	41.0	5.22
		e	14 38 48	Z	0.8	19.0 (0)		
		eSCP	14 43 32	Z	1.1	76.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	14 43 52	T	3.0	10.0 (1)		
		eS	14 43 52	R	2.5	64.0 (0)		
19	NG	eP	14 38 06.0	Z	0.5	60.0 (0)	42.0	5.57
19	FM	eP	14 38 55.8	Z	0.5	9.5 (0)	48.0	4.74
19	TF	eP	14 39 23.5	Z	0.9	13.0 (0)	52.0	4.78
19	MN	eP	14 39 23.5	Z	0.8	5.8 (0)	52.0	4.49
19	WI	eP	14 39 29.3	Z	0.5	7.6 (0)	52.0	4.81
19	WI	eP	14 39 29.3	Z	0.6	3.5 (0)	54.0	4.43
19	MV	eP	14 39 42.1	Z			AVG.	4.95

19 16 49 29.3 05.2 S 152.6 E NEW BRITAIN REGION
H = 062 KM

19	LC	eP	21 17 33.2	Z	0.2	21.0 (0)	1.5	
		eS	21 17 51	T	0.5	20.0 (0)		

19 21 44 50.2 53.8 N 163.6 W UNIMAK ISLAND REGION
H = 033 KM

19	WI	eP	21 51 24.0	Z	1.0	4.4 (0)	33.0	4.31
19	MN	eP	21 51 35.5	Z	1.0	2.5 (0)	34.0	4.06
19	FM	eP	21 52 02.0	Z	1.1	3.8 (0)	37.0	4.10
							AVG.	4.16

19	LC	eP	22 40 43.2	Z	0.9	4.7 (0)		
20	LC	eP	06 26 08.8	Z	1.1	3.0 (0)		
20	MN	eP	06 46 46.3C	Z	0.2	8.0 (0)	0.1	
		eS	06 46 49	T	999.9	99.9 (9)		

20 06 54 04.1 55.6 N 158.8 E KAMCHATKA
H = 033 KM

20	MV	eP	07 03 22.8	Z	1.0	8.5 (0)	53.0	4.66
20	WI	eP	07 03 27.3	Z	1.0	9.2 (0)	54.0	4.76
20	MN	eP	07 03 40.0	Z	1.0	16.0 (0)	56.0	5.00
20	FM	eP	07 03 58.0	Z	0.9	21.0 (0)	58.0	5.18
20	NG	eP	07 04 37.2	Z	1.1	27.0 (0)	64.0	5.29
20	LC	eP	07 04 52.5	Z	1.0	17.0 (0)	66.0	5.14
20	LC	eP	07 04 52.5	Z	0.9	44.0 (0)	72.0	5.49
20	DH	eP	07 05 27.5	Z			74.0	
20	SJ	eL	07 35 02	LT	22	62.0 (1)		5.08
							AVG.	

20 07 32 42.9 56.2 N 159.3 E KAMCHATKA
H = 033 KM

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	10 53 25	LZ	24	48.0 (2)		
		eL	10 55 15	LZ	23	49.0 (2)		
		eL	10 55 15	LR	23	30.0 (2)		
19	MV	eL	10 55 15	LT	24			
		eS	10 38 18	LT	23	42.0 (1)	90.0	
		ePS	10 39 13	LT	23	57.0 (1)		
		e	10 40 48	LT	30	54.0 (1)		
		eSS	10 44 11	LT	24	91.0 (1)		
		eSSS	10 48 00	LR	37	43.0 (1)		
		eLQ	10 51 05	LR	44	13.0 (2)		
		eLR	10 55 58	LZ	23	42.0 (2)		
		eL	10 57 10	LZ	23	42.0 (2)		
		eL	10 57 10	LR	23	54.0 (1)		
		eL	10 57 10	LT	25	21.0 (2)		
19	WI	eS	10 38 30	LR	24	44.0 (1)	92.0	
		eS	10 38 30	LT	20	29.0 (1)		
		ePS	10 39 47	LT	22	68.0 (1)		
		eSS	10 44 46	LR	25	69.0 (1)		
		eSSS	10 48 18	LT	23	29.0 (1)		
		eLQ	10 51 35	LR	43	17.0 (2)		
		eLR	10 57 05	LZ	25	29.0 (1)		
		eL	11 00 00	LZ	20	34.0 (2)		
		eL	11 00 00	LR	18	13.0 (2)		
		eL	11 00 00	LT	20	32.0 (2)		
19	CP	eLR	10 51 55	LZ	24	24.0 (2)	83.0	
19	NG	eLQ	10 56 00	LR	30	63.0 (1)	99.0	
		eLR	11 06 15	LR	21	78.0 (1)		
19	DH	eLQ	10 56 00	LR	41	27.0 (2)	99.0	
		eLR	11 01 43	LZ	34	32.0 (2)		
							AVG.	4.66

19	LC	eP	10 41 27.0	Z	1.0	3.7 (0)		
19	MN	eP	10 41 55.7	Z	1.0	1.7 (0)		
19	CP	eP	10 53 10.0	Z	0.2	14.0 (0)		

19 13 58 57.6 60.7 S 152.9 E S.W. OF MACQUARIE ISLAND
H = 033 KM

19 14 30 29.1 06.7 N 073.0 W COLOMBIA
H = 135 KM

19	SJ	eP	14 36 43.8	Z	0.5	19.0 (0)	32.0	5.05
19	DH	eP	14 37 14.7	Z	0.5	36.0 (0)	36.0	5.45
19	LC	eP	14 37 56.5	Z	0.8	42.0 (0)	41.0	5.22
		e	14 38 48	Z	0.8	19.0 (0)		
		eSCP	14 43 32	Z	1.1	76.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
19	NG	eS	14 43 52	T	3.0	10.0 (1)		
		eS	14 43 52	R	2.5	64.0 (0)		
19	NG	eP	14 38 06.0	Z	0.5	60.0 (0)	42.0	5.57
19	FM	eP	14 38 55.8	Z	0.5	9.5 (0)	48.0	4.74
19	TF	eP	14 39 23.5	Z	0.9	13.0 (0)	52.0	4.78
19	MN	eP	14 39 23.5	Z	0.8	5.8 (0)	52.0	4.49
19	WI	eP	14 39 29.3	Z	0.5	7.6 (0)	52.0	4.81
19	MV	eP	14 39 42.1	Z	0.6	3.5 (0)	54.0	4.43
							AVG.	4.95
19	16 49 29.3		05.2 S 152.6 E					NEW BRITAIN REGION
			H = 062 KM					
19	LC	eP	21 17 33.2	Z	0.2	21.0 (0)	1.5	
		eS	21 17 51	T	0.5	20.0 (0)		
19	21 44 50.2		53.8 N 163.6 W					UNIMAK ISLAND REGION
			H = 033 KM					
19	WI	eP	21 51 24.0	Z	1.0	4.4 (0)	33.0	4.31
19	MN	eP	21 51 35.5	Z	1.0	2.5 (0)	34.0	4.06
19	FM	eP	21 52 02.0	Z	1.1	3.8 (0)	37.0	4.10
							AVG.	4.16
19	LC	eP	22 40 43.2	Z	0.9	4.7 (0)		
20	LC	eP	06 26 08.8	Z	1.1	3.0 (0)		
20	MN	IP	06 46 46.3C	Z	0.2	8.0 (0)	0.1	
		eS	06 46 49	T	999.9	99.9 (9)		
20	06 54 04.1		55.6 N 158.8 E					KAMCHATKA
			H = 033 KM					
20	MV	eP	07 03 22.8	Z	1.0	8.5 (0)	53.0	4.66
20	WI	eP	07 03 27.3	Z	1.0	9.2 (0)	54.0	4.76
20	MN	eP	07 03 40.0	Z	1.0	16.0 (0)	56.0	5.00
20	FM	eP	07 03 58.0	Z	0.9	21.0 (0)	58.0	5.18
20	NG	eP	07 04 37.2	Z	1.1	27.0 (0)	64.0	5.29
20	LC	eP	07 04 52.5	Z	1.0	17.0 (0)	66.0	5.14
20	DH	eP	07 05 27.5	Z	0.9	44.0 (0)	72.0	5.49
20	SJ	eL	07 35 02	LT	22	62.0 (1)	74.0	
							AVG.	5.08
20	07 32 42.9		56.2 N 159.3 E					KAMCHATKA
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MV	eP	07 41 58.5	Z	1.3	19.0 (0)	53.0	4.91
20	WI	eP	07 42 00.8	Z	1.1	9.3 (0)	53.0	4.66
20	MN	eP	07 42 15.3	Z	1.1	22.0 (0)	55.0	5.11
20	TF	eP	07 42 25.4	Z	1.0	13.0 (0)	57.0	4.90
20	FM	eP	07 42 33.4	Z	1.2	33.0 (0)	58.0	5.24
20	CP	eP	07 42 51.8	Z	1.1	5.4 (0)	60.0	4.52
20	NG	eP	07 43 12.3	Z	1.2	27.0 (0)	64.0	5.25
		eL	08 02 30	LR	33	30.0 (1)		
20	LC	eP	07 43 27.5	Z	1.3	24.0 (0)	66.0	5.16
		eLQ	08 02 25	LT	32	50.0 (1)		
		eLR	08 12 32	LZ	18	22.0 (1)		
		eL	08 12 32	LR	20	23.0 (1)		
		eL	08 12 32	LT	20	34.0 (1)		
20	DH	eP	07 44 02.5	Z	1.1	35.0 (0)	72.0	5.31
		eLQ	08 11 35	LR	20	50.0 (1)		
		eLR	08 17 30	LZ	18	71.0 (1)		
		eL	08 17 30	LR	21	70.0 (1)		
		eL	08 17 30	LT	18	34.0 (1)		
20	SJ	eL	08 08 40	LT	23	77.0 (1)	74.0	
							AVG.	5.01
20	MN	eP	09 16 47.6	Z	0.8	1.5 (0)		
20	WI	eP	09 17 00.7	Z	0.7	2.9 (0)		
20	10 11 11.2		06.1 S 154.5 E					SOLOMON ISLANDS
			H = 069 KM					
20	MN	eP	10 24 12.6	Z	0.8	3.9 (0)	92.0	4.79
		eLR	10 54 53	LZ	27	21.0 (1)		
20	CP	eLR	10 53 37	LZ	27	30.0 (1)	92.0	
20	FM	eLR	10 55 55	LZ	35	33.0 (1)	96.0	
		eL	11 03 03	LZ	19	21.0 (1)		
		eL	11 03 03	LR	19	21.0 (1)		
		eL	11 03 03	LT	18	13.0 (1)		
20	LC	eLR	10 57 55	LZ	30	33.0 (1)	101.0	
		eL	11 03 10	LR	19	31.0 (1)		
		eL	11 03 10	LZ	20	33.0 (1)		
20	SJ	eL	11 02 25	LT	25	27.0 (1)	108.0	
20	NG	eL	11 06 00	LR	30	37.0 (1)	114.0	
20	DH	eLR	11 11 15	LZ	27	42.0 (1)	123.0	
		eL	11 15 27	LZ	24	84.0 (1)		
		eL	11 15 27	LR	25	59.0 (1)		
		eL	11 15 27	LT	23	29.0 (1)		
							AVG.	4.79
20	CP	eP	12 47 54.3	Z	0.3	8.4 (0)	1.4	
		eS	12 48 12	T	0.3	24.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	13 00	00.3	01.8 N 126.4 E H = 109 KM	CELEBES REGION				
20	MN	eL	13 02 30	LZ	23	27.0 (1)		
20	MN	eL	13 03 47	LZ	20	24.0 (1)		
20	MN	eL	13 03 47	LR	21	18.0 (1)		
20	MN	eL	13 03 47	LT	18	36.0 (1)		
20	16 02	14.5	42.6 N 143.4 E H = 040 KM	HOKKAIDO, JAPAN				
20	MV	eP	16 13 11.8	Z	1.0	3.4 (0)	68.0	4.37
20	LC	eP	16 14 29.8	Z	1.0	3.7 (0)	81.0	4.29
							AVG.	4.33
20	CP	eP	20 18 25.2	Z	0.2	55.0 (0)		
20	20 45	46.9	27.9 N 054.9 E H = 034 KM	SOUTHERN IRAN				
20	LC	eP	21 33 16.8	Z	0.2	18.0 (0)	1.5	
		eS	21 33 37	R	0.4	14.0 (0)		
21	CP	eP	00 41 00.2	Z	0.2	12.0 (1)	0.3	
		eS	00 41 06	T	0.2	20.0 (1)		
21	CP	eP	02 28 04.7	Z	0.2	22.0 (1)		
21	LC	eP	06 01 11.6	Z	0.7	3.0 (0)		
21	07 07	42.3	49.8 S 114.8 W H = 033 KM	SOUTH PACIFIC OCEAN				
21	SJ	eLQ	07 42 50	LR	30	59.0 (1)	79.0	
		eLR	07 49 48	LZ	18	24.0 (1)		
		eL	07 49 48	LR	18	76.0 (1)		
		eL	07 49 48	LT	17	53.0 (1)		
21	TF	eLR	07 48 02	LZ	18	17.0 (2)	84.0	
		eL	07 49 00	LZ	18	17.0 (2)		
		eL	07 49 00	LR	20	43.0 (1)		
		eL	07 49 00	LT	20	30.0 (1)		
21	LC	eLR	07 48 31	LZ	24	45.0 (1)	82.0	
21	MN	eLR	07 49 45	LZ	25	56.0 (1)	88.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	07 50 40	LZ	25	54.0 (1)		
		eL	07 50 40	LR	22	39.0 (1)		
		eL	07 50 40	LT	23	34.0 (1)		
21	FM	eLR	07 50 48	LZ	25	25.0 (1)	89.0	
21	WI	eLR	07 50 53	LZ	27	52.0 (1)	89.0	
		eL	07 53 15	LZ	20	49.0 (1)		
		eL	07 53 15	LR	21	54.0 (1)		
		eL	07 53 15	LT	20	16.0 (1)		
21	MV	eP	10 04 43.0	Z	0.4	14.0 (0)	2.5	
		eS	10 05 14	T	0.5	21.0 (0)		
21	MN	eP	10 05 19.5	Z	0.6	3.6 (0)		
21	WI	eP	10 05 19.8	Z	0.5	6.1 (0)		
21	WI	eL	10 06 56	T	0.9	11.0 (0)		
21	MN	eL	10 06 56	T	2.1	92.0 (0)		
21	15 04	15.4	26.0 N 128.2 E H = 033 KM	RYUKYU ISLANDS				
21	LC	eP	19 34 31.8	Z	0.6	1.0 (0)		
21	19 40	15.7	21.1 S 179.2 W H = 626 KM	FIJI ISLANDS REGION				
21	CP	eP	19 51 37.2	Z	1.0	4.3 (0)	83.0	3.93
21	MN	eP	19 51 46.5	Z	0.8	3.0 (0)	85.0	3.98
		epP	19 53 56	Z	1.0	3.4 (0)		
21	WI	eP	19 51 57.3	Z	1.0	3.5 (0)	87.0	4.02
21	LC	eP	19 52 11.5	Z	0.9	4.7 (0)	90.0	4.36
		ePP	19 54 23	Z	1.2	4.8 (0)		
							AVG.	4.07
21	LC	eP	21 46 24.1	Z	0.2	26.0 (0)	1.4	
		eS	21 46 42	T	0.4	20.0 (0)		
21	CP	eP	23 22 58.5	Z	0.2	14.0 (1)		
22	01 30	02.5	14.3 N 092.7 W H = 033 KM	COAST OF S. CHIAPAS, MEX.				
22	SJ	eP	01 33 24.1	Z	0.8	12.0 (0)	14.0	4.58
		eLQ	01 37 32	LR	30	13.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	01 41 00	LZ	15	39.0 (1)		
		eL	01 41 00	LR	18	26.0 (2)		
		eL	01 41 00	LT	15	59.0 (1)		
22	LC	eP	01 34 55.0	Z	0.7	8.5 (0)	22.0	4.25
22	CP	eP	01 35 54.5	Z	1.0	2.9 (0)	28.0	3.99
		eL	01 45 50	LZ	18	82.0 (1)		
22	FM	eP	01 36 13.0	Z	0.7	3.1 (0)	30.0	4.19
		eL	01 46 55	LZ	20	39.0 (1)		
		eL	01 46 55	LR	20	39.0 (1)		
		eL	01 46 55	LT	23	24.0 (1)		
22	MN	eP	01 36 36.6	Z	0.8	5.0 (0)	33.0	4.47
		eLQ	01 46 47	LT	28	15.0 (2)		
		eL	01 48 50	LZ	22	19.0 (1)		
		eL	01 48 50	LR	15	28.0 (1)		
		eL	01 48 50	LT	19	15.0 (2)		
		eLR	01 50 55	LZ	18	58.0 (1)		
22	WI	eP	01 36 50.0	Z	0.7	16.0 (0)	35.0	5.06
		eLQ	01 49 05	LR	18	59.0 (1)		
		eLR	01 52 52	LZ	15	11.0 (2)		
		eL	01 50 00	LZ	20	17.0 (1)		
		eL	01 50 00	LR	17	60.0 (1)		
		eL	01 50 00	LT	18	12.0 (2)		
22	TF	eL	01 45 37	LR	30	69.0 (1)	33.0	
		eL	01 47 57	LR	20	97.0 (1)		
22	NG	eL	01 45 58	LR	30	92.0 (0)	32.0	
							AVG.	4.42
22	03 09 46.6		42.8 N 143.0 E				NEAR COAST HOKKAIDO, JAPAN	
			H =033 KM					
22	MN	eP	03 21 01.1	Z	1.0	3.4 (0)	71.0	4.33
							AVG.	4.33
22	06 53 34.5		01.6 S 077.1 W				PERU ECUADOR BORDER	
			H =147 KM					
22	SJ	eP	07 00 21.3	Z	0.7	15.0 (0)	36.0	4.89
22	LC	eP	07 01 29.5	Z	0.7	10.0 (0)	44.0	4.51
22	FM	eP	07 02 31.2	Z	0.7	6.1 (0)	52.0	4.49
22	MN	eP	07 02 53.1	Z	0.8	3.0 (0)	55.0	4.18
22	WI	eP	07 03 02.4	Z	0.5	5.4 (0)	56.0	4.68
							AVG.	4.55
22	07 37 25.8		18.2 S 167.6 E				NEW HEBRIDES ISLANDS	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	MV	eP	07 50 12.5	Z	0.7	6.9 (0)	88.0	5.00
22	CP	eP	07 50 17.2	Z	0.7	2.9 (0)	89.0	4.58
22	MN	eP	07 50 21.3	Z	1.0	8.5 (0)	90.0	4.90
22	WI	eP	07 50 29.5	Z	0.7	5.5 (0)	91.0	4.97
							AVG.	4.86
22	08 37 12.6		20.6 S 178.5 W				FIJI ISLANDS REGION	
			H =605 KM					
22	MN	eP	08 48 30.9	Z	0.7	1.7 (0)	82.0	3.68
22	WI	eP	08 48 41.2	Z	0.7	1.1 (0)	84.0	3.64
							AVG.	3.66
22	LC	eP	10 45 20.8	Z	1.0	2.5 (0)		
22	CP	eP	10 45 21.5	Z	1.0	2.9 (0)		
22	SJ	eL	11 07 40	LR	28	81.0 (1)		
22	CP	eL	11 12 18	LZ	23	68.0 (1)		
22	TF	eL	11 13 12	LZ	20	11.0 (2)		
22	TF	eL	11 13 45	LR	22	86.0 (1)		
22	TF	eL	11 13 45	LT	22	10.0 (2)		
22	TF	eL	11 13 45	LZ	20	11.0 (2)		
22	SJ	eL	11 14 47	LR	18	14.0 (2)		
22	SJ	eL	11 14 47	LT	17	11.0 (2)		
22	SJ	eL	11 14 47	LZ	15	55.0 (1)		
22	MV	eL	11 15 00	LZ	25	11.0 (2)		
22	MN	eL	11 15 02	LZ	23	99.0 (2)		
22	FM	eL	11 16 05	LZ	25	42.0 (1)		
22	MN	eL	11 16 10	LR	20	69.0 (1)		
22	MN	eL	11 16 10	LZ	20	10.0 (2)		
22	MN	eL	11 16 10	LT	20	70.0 (1)		
22	WI	eL	11 16 52	LR	22	87.0 (1)		
22	FM	eL	11 17 55	LT	20	43.0 (1)		
22	FM	eL	11 17 55	LR	20	17.0 (1)		
22	FM	eL	11 17 55	LZ	20	43.0 (1)		
22	WI	eL	11 18 05	LR	22	87.0 (1)		
22	WI	eL	11 18 05	LT	18	48.0 (1)		
22	WI	eL	11 18 05	LZ	22	89.0 (1)		
22	NG	eL	11 18 10	LR	30	27.0 (1)		
22	13 53 08.5		50.7 N 129.1 W				VANCOUVER ISLAND	
			H =033 KM					
22	14 20 10.0		44.8 N 149.9 E				KURILE ISLANDS	
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	WI	eP	15 25 49.0	Z	1.0	3.3 (0)		
22	LC	eP	15 26 41.8	Z	1.2	5.8 (0)		
22	LC	eP	17 07 18.5	Z	0.8	1.5 (0)		
22	20 33 25.6		30.2 S 178.6 W H =298 KM				KERMADEC ISLANDS REGION	
22	MV	eP	20 45 49.5	Z	1.0	3.4 (0)	89.0	4.23
22	MN	eP	20 45 54.1	Z	1.0	2.6 (0)	91.0	4.12
		eL	21 13 00	LZ	30	41.0 (1)		
		eL	21 18 42	LZ	20	33.0 (1)		
		eL	21 18 42	LT	20	34.0 (1)		
22	WI	eP	20 45 56.1	Z	1.0	2.2 (0)	91.0	4.02
22	FM	eP	20 46 14.9	Z	1.1	7.5 (0)	95.0	4.73
22	CP	eL	21 12 03	LZ	22	38.0 (1)	84.0	
22	NG	eL	21 21 15	LR	20	14.0 (1)	113.0	
						AVG.		4.28
22	23 55 28.3		24.1 S 176.8 W H =391 KM				TONGA ISLANDS REGION	
23	WI	eP	00 07 23.5	Z	1.0	6.6 (0)	85.0	4.42
23	LC	eP	00 07 33.7	Z	1.0	7.5 (0)	87.0	4.48
						AVG.		4.48
23	MN	eP	00 13 52.7	Z	1.1	3.1 (0)		
23	00 30 04.5		15.1 S 075.3 W H =033 KM				NEAR COAST OF S. PERU	
23	SJ	eP	00 38 43.5	Z	1.2	18.0 (1)	48.0	5.98
		eP	00 38 44	LZ	14	24.0 (2)		
		eS	00 45 43	LT	15	43.0 (2)		
		eL	00 49 20	LR	21	15.0 (2)		
23	LC	eP	00 39 41.4	Z	1.0	39.0 (0)	56.0	5.39
		eP	00 39 43	LZ	17	48.0 (1)		
		eLQ	00 55 55	LT	25	23.0 (2)		
		eLR	00 58 13	LZ	23	23.0 (2)		
		eL	01 01 40	LZ	20	55.0 (2)		
		eL	01 01 40	LR	20	53.0 (2)		
		eL	01 01 40	LT	19	21.0 (2)		
23	DH	eP	00 39 50.0	Z	0.8	11.0 (1)	57.0	5.94
		eS	00 47 45	LR	23	27.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	00 56 53	LR	32	54.0 (2)		
		eLR	01 04 05	LZ	999.9	99.9 (9)		
		eL	01 04 05	LR	22	18.0 (2)		
		eL	01 04 05	LT	24	32.0 (2)		
23	NG	eP	00 40 20.5	Z	1.0	22.0 (0)	62.0	5.28
		eS	00 48 40	LR	23	16.0 (2)		
		eS	00 48 40	LT	22	40.0 (1)		
		eSCS	00 50 13	LR	23	10.0 (2)		
		eLQ	00 57 55	LR	41	42.0 (2)		
		eLR	01 03 45	LZ	22			
		eL	01 03 45	LR	26	25.0 (2)		
		eL	01 03 45	LT	26	19.0 (2)		
23	CP	eP	00 40 22.9	Z			62.0	
		eL	01 00 08	LZ	21	40.0 (2)		
23	FM	eP	00 40 38.2	Z	1.4	12.0 (1)	64.0	5.84
		eS	00 49 21	LR	23	98.0 (1)		
		eS	00 49 21	LT	19	11.0 (2)		
		eLQ	00 58 14	LR	26	10.0 (2)		
		eLR	01 03 17	LZ	30	13.0 (2)		
		eL	01 07 00	LZ	999.9	99.9 (9)		
		eL	01 07 00	LR	18	96.0 (1)		
		eL	01 07 00	LT	20	48.0 (2)		
23	TF	eP	00 40 47.9	Z	1.3	49.0 (0)	66.0	5.48
		eSS	00 53 57	LT	23	15.0 (2)		
		eLQ	00 57 02	LR	30	11.0 (2)		
		eLR	01 02 07	LT	23	21.0 (2)		
		eL	01 03 02	LZ	23	28.0 (2)		
		eL	01 03 02	LR	23	13.0 (2)		
		eL	01 03 02	LT	23	21.0 (2)		
23	MN	eP	00 40 54.8	Z	1.2	31.0 (0)	67.0	5.31
		eS	00 49 48	LT	23	15.0 (2)		
		eSS	00 54 36	LR	23	13.0 (2)		
		eLR	01 03 15	LZ	24	34.0 (2)		
		eL	01 06 50	LZ	21	29.0 (2)		
		eL	01 06 50	LR	21	19.0 (2)		
		eL	01 06 50	LT	21	17.0 (2)		
23	WI	eP	00 41 04.8	Z	1.2	67.0 (0)	68.0	5.61
		eP	00 41 08	LZ	19	36.0 (0)		
		eSS	00 54 30	LT	29	10.0 (2)		
		eLQ	00 58 28	LT	23	13.0 (2)		
		eLR	01 03 33	LZ	28	26.0 (2)		
23	MV	eP	00 41 09.5	Z	1.5	22.0 (0)	69.0	5.07
		eS	00 50 18	LR	26	46.0 (1)		
		eSS	00 55 00	LR	26	92.0 (1)		
		eLQ	00 58 47	LT	27	88.0 (1)		
		eLR	01 04 30	LZ	28	11.0 (2)		
		eL	01 08 00	LZ	20	88.0 (1)		
		eL	01 08 00	LR	23	49.0 (1)		
		eL	01 08 00	LT	23	12.0 (2)		
		ePIP	01 09 21	Z	1.0	5.0 (0)		
						AVG.		5.54

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	00 44 51.2		15.0 S 075.7 W H =040 KM				NEAR SOUTH COAST OF PERU	
23	SJ	eP	00 53 28.0	Z	1.2	62.0 (0)	48.0	5.49
23	LC	eP	00 54 26.4	Z	1.0	17.0 (0)	56.0	5.03
23	DH	eP	00 54 44.2	Z	0.8	39.0 (0)	58.0	5.44
23	CP	eP	00 55 06.5	Z	999.9	4.4 (0)	61.0	
23	FM	eP	00 55 22.7	Z	1.3	46.0 (0)	64.0	5.43
23	TF	eP	00 55 29.1	Z	1.3	18.0 (0)	65.0	5.02
23	MN	eP	00 55 39.2	Z	1.2	5.1 (0)	66.0	4.41
23	WI	eP	00 55 49.4	Z	1.0	19.0 (0)	68.0	5.15
23	MV	eP	00 56 00.4	Z	1.2	5.2 (0)	70.0	4.42
							AVG.	5.05
23	DH	eP	03 42 36.5	Z	0.8	44.0 (0)		
23	MN	eP	07 04 04.4	Z	0.3	36.0 (0)	1.7	
23	WI	IP	07 04 05.6D	Z	0.3	18.0 (0)		
23	MV	eP	07 04 11.6	Z	999.9	99.9 (9)		
23	MN	eS	07 04 27	R	999.9	99.9 (9)	1.7	
23	FM	eP	07 04 55.7	Z	0.5	1.1 (0)		
23	FM	eL	07 06 20	R	0.7	8.3 (0)		
23	07 16 37.7		17.7 S 167.9 E H =033 KM				NEW HEBRIDES ISLANDS	
23	10 41 57.6		04.0 S 142.3 E H =100 KM				BISMARCK SEA	
23	LC	eP	12 00 50.0	Z	0.6	4.1 (0)		
23	LC	eP	16 59 13.6	Z	0.4	4.2 (0)	2.9	
		eS	16 59 50	T	0.4	5.1 (0)		
23	SJ	eP	20 43 06.1	Z	0.9	31.0 (0)		
23	23 05 47.4		21.5 S 179.3 W H =609 KM				FIJI ISLANDS	
23	TF	eP	23 16 54.9	Z	0.9	13.0 (0)	80.0	4.37
23	CP	eP	23 17 00.6	Z	1.0	32.0 (0)	81.0	4.71
23	MV	eP	23 17 02.5	Z	0.9	36.0 (0)	81.0	4.81
23	MN	eP	23 17 10.2	Z	1.0	43.0 (0)	83.0	5.03
		epP	23 19 18	Z	1.5	9.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	WI	eP	23 17 20.6	Z	1.0	27.0 (0)	85.0	4.83
23	FM	eP	23 17 30.9	Z	0.8	20.0 (0)	87.0	4.89
23	LC	eP	23 17 35.0	Z	0.9	27.0 (0)	88.0	5.06
		epP	23 19 47	Z	1.3	9.5 (0)		
							AVG.	4.81
24	MN	eP	06 52 23.8	Z	0.7	2.1 (0)		
24	WI	eP	06 52 36.7	Z	0.6	5.1 (0)		
24	MN	e	06 52 39	Z	0.7	4.6 (0)		
24	07 31 46.5		11.0 N 062.6 W H =019 KM				NEAR N. COAST VENEZUELA	
24	NG	eP	07 39 31.3	Z	0.9	14.0 (0)	41.0	4.70
24	LC	eP	07 40 08.9	Z	0.9	7.6 (0)	46.0	4.69
24	MN	eP	07 41 29.5	Z	0.7	2.1 (0)	56.0	4.27
24	WI	eP	07 41 31.0	Z	0.9	7.7 (0)	57.0	4.73
		eLR	08 00 12	LZ	23	27.0 (1)		
		eL	08 03 57	LZ	25	39.0 (1)		
		eL	08 03 57	LR	20	44.0 (1)		
		eL	08 03 57	LT	23	29.0 (1)		
24	MV	eP	07 41 48.2	Z	1.0	5.1 (0)	59.0	4.31
							AVG.	4.54
24	08 10 10.3		18.5 S 175.4 W H =033 KM				TONGA ISLANDS	
24	MN	eP	08 22 08.0	Z	1.2	3.8 (0)	78.0	4.31
24	WI	eP	08 22 19.8	Z	1.0	4.4 (0)	80.0	4.32
							AVG.	4.32
24	10 34 07.7		24.8 S 180.0 H =500 KM				FIJI ISLANDS REGION	
24	TF	eP	10 45 39.6	Z	1.2	13.0 (0)	83.0	4.34
24	CP	eP	10 45 44.8	Z	1.0	17.0 (0)	84.0	4.63
24	MV	eP	10 45 47.0	Z	1.0	10.0 (0)	84.0	4.40
24	MN	eP	10 45 54.0	Z	0.8	2.9 (0)	86.0	3.96
		epP	10 47 44	Z	1.4	16.0 (0)		
24	WI	eP	10 46 05.0	Z	0.8	4.6 (0)	88.0	4.26
		epP	10 47 57	Z	1.0	5.6 (0)		
24	FM	eP	10 46 15.8	Z	0.9	7.0 (0)	90.0	4.59
24	LC	eP	10 46 17.4	Z	0.9	4.7 (0)	91.0	4.42
		epP	10 48 09	Z	1.2	15.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.37
24	WI	eP	13 15 07.9	Z	0.4	1.5 (0)		
24	WI	eL	13 16 16	R	0.6	4.8 (0)		
24	14 21	39.7	54.8 N 161.6 E	NEAR E. COAST KAMCHATKA				
			H = 033 KM					
24	MV	eP	14 30 48.5	Z	0.7	9.3 (0)	52.0	4.92
24	WI	eP	14 30 53.6	Z	1.0	7.8 (0)	53.0	4.62
24	MN	eP	14 31 06.2	Z	0.8	8.8 (0)	54.0	4.84
24	TF	eP	14 31 16.0	Z	0.8	10.0 (0)	56.0	4.90
24	FM	eP	14 31 25.2	Z	0.8	3.6 (0)	57.0	4.45
24	LC	eP	14 32 19.8	Z	0.7	3.7 (0)	65.0	4.62
							AVG.	4.73
24	15 52	20.1	49.5 N 155.8 E	KURILE ISLANDS REGION				
			H = 085 KM					
24	MV	eP	16 02 02.0	Z	0.7	6.8 (0)	58.0	4.79
24	WI	eP	16 02 08.8	Z	0.7	5.0 (0)	58.0	4.65
		eLR	16 20 18	LZ	27	89.0 (1)		
		eL	16 21 30	LZ	25	68.0 (1)		
		eL	16 21 30	LR	25	28.0 (1)		
		eL	16 21 30	LT	25	54.0 (1)		
24	MN	fP	16 02 18.5C	Z	0.7	5.4 (0)	60.0	4.77
		eL	16 20 58	LR	28	33.0 (1)		
24	TF	eP	16 02 25.8	Z	0.8	4.1 (0)	61.0	4.52
24	FM	fP	16 02 38.9C	Z	0.7	9.0 (0)	63.0	4.84
		epP	16 02 53	Z	0.7	9.0 (0)		
		eLR	16 22 37	LZ	27	59.0 (1)		
		eL	16 23 33	LZ	25	55.0 (1)		
		eL	16 23 33	LT	25	64.0 (1)		
24	CP	eP	16 02 51.0	Z	0.7	2.9 (0)	65.0	4.35
24	NG	eP	16 03 24.8	Z	0.8	10.0 (0)	70.0	4.76
24	LC	eP	16 03 29.5	Z	0.7	4.9 (0)	71.0	4.49
		epP	16 03 43	Z	1.1	11.0 (0)		
24	DH	eP	16 04 13.0	Z	0.7	14.0 (0)	78.0	4.95
24	SJ	eP	16 04 19.0	Z	0.8	18.0 (0)	79.0	4.98
							AVG.	4.71
24	16 19	44.9	09.8 N 040.7 W	MID-ATLANTIC OCEAN				
			H = 033 KM					
24	NG	eP	16 29 07.1	Z	1.0	22.0 (0)	54.0	5.15

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	NG	eP	AS 16 29 14.9	Z	1.2	55.0 (0)	54.0	
24	SJ	eP	16 29 30.1	Z	1.7	25.0 (1)	57.0	5.96
		eP	AS 16 29 38.7	Z	1.7	45.0 (1)		
		eL	16 47 25	LT	23	93.0 (1)		
24	LC	eP	16 30 20.8	Z	1.2	42.0 (0)	65.0	5.44
		ePCP	16 31 04	Z	1.0	27.0 (0)		
		eS	16 39 03	LR	22	90.0 (1)		
		eS	16 39 03	LT	19	43.0 (1)		
		eLR	16 50 17	LZ	31	78.0 (1)		
		eL	16 56 00	LZ	20	29.0 (2)		
		eL	16 56 00	LR	21	22.0 (2)		
		eL	16 56 00	LT	20	89.0 (1)		
24	FM	eP	16 30 51.9	Z	1.2	31.0 (0)	69.0	5.30
		eP	AS 16 31 00.0	Z	1.2	70.0 (0)		
		eS	16 40 13	LR	22	48.0 (1)		
		eS	16 40 13	LT	21	48.0 (1)		
		eLQ	16 48 02	LT	22	46.0 (1)		
		eLR	16 52 28	LZ	30	10.0 (2)		
		eL	16 56 05	LZ	24	12.0 (2)		
		eL	16 56 05	LR	24	64.0 (1)		
		eL	16 56 05	LT	23	14.0 (2)		
24	CP	eP	16 31 12.3	Z	1.0	19.0 (0)	73.0	5.08
		eP	AS 16 31 21.0	Z	1.0	35.0 (0)		
24	WI	eP	16 31 17.0	Z	1.0	56.0 (0)	74.0	5.48
		eP	AS 16 31 25.1	Z	1.0	11.0 (1)		
		eS	16 40 50	LR	20	33.0 (1)		
		eS	16 40 50	LT	23	44.0 (1)		
		eLQ	16 50 07	LR	23	41.0 (1)		
		eLR	16 54 25	LZ	28	23.0 (2)		
		eL	17 00 28	LT	20	30.0 (2)		
		eL	17 00 28	LR	19	89.0 (1)		
24	MN	eP	16 31 21.0	Z	1.2	20.0 (0)	74.0	4.97
		eS	16 40 57	LR	18	64.0 (1)		
		eS	16 40 57	LT	22	34.0 (1)		
		eL	16 53 43	LT	33	88.0 (1)		
		eLR	16 56 11	LZ	29	15.0 (2)		
		eL	16 58 23	LZ	26	21.0 (2)		
		eL	16 58 23	LR	28	18.0 (2)		
		eL	16 58 23	LT	27	12.0 (2)		
24	TF	eP	16 31 30.6	Z	1.2	53.0 (0)	76.0	5.45
		eP	AS 16 31 38.6	Z	1.3	91.0 (0)		
		eLR	16 56 15	LZ	30	12.0 (1)		
		eL	17 02 25	LZ	20	22.0 (0)		
		eL	17 02 25	LR	20	22.0 (2)		
		eL	17 02 25	LT	21	16.0 (2)		
24	MV	eP	16 31 34.2	Z	1.2	18.0 (0)	77.0	4.98
		eS	16 41 23	LR	17	41.0 (1)		
		eLQ	16 54 50	LT	35	38.0 (1)		
		eLR	16 56 40	LZ	33	15.0 (1)		
		eL	17 02 05	LZ	22	49.0 (1)		
		eL	17 02 05	LR	23	48.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	17 02 05	LT	22	14.0 (1)	AVG.	5.31

24 17 22 59.5 02.5 S 148.9 E BISMARK SEA
H =032 KM

24	MV	eP	17 36 06.5	Z	0.9	2.6 (0)	92.0	4.56
24	CP	eP	17 36 25.6	Z	1.1	5.3 (0)	96.0	4.98
						AVG.		4.77

24	CP	eP	18 52 03.5	Z	0.3	3.9 (0)	0.2	
		eS	18 52 08	T	0.3	9.2 (0)		

24	MN	eP	19 59 18.3	Z	0.7	1.7 (0)		
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25	MV	eP	00 43 53.0	Z	0.4	4.6 (0)	0.6	
		eS	00 44 02	R	0.5	19.0 (0)		

25	LC	eP	09 19 11.1	Z	0.6	1.5 (0)		
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25 09 51 22.8 10.6 N 125.2 E NEAR N. COAST LEYTE, P. I.
H =047 KM

25	FM	eL	10 36 28	LZ	30	28.0 (1)	107.0	
25	MV	eL	10 38 08	LZ	25	42.0 (1)	101.0	
		eL	10 43 03	LZ	25	59.0 (1)		
		eL	10 43 03	LR	23	37.0 (1)		
		eL	10 43 03	LT	21	25.0 (1)		
25	WI	eL	10 39 21	LZ	24	33.0 (1)	103.0	
		eL	10 41 08	LZ	26	67.0 (1)		
		eL	10 41 08	LT	25	57.0 (1)		
25	TF	eL	10 39 21	LR	25	48.0 (1)	104.0	
		eL	10 41 59	LZ	25	70.0 (1)		
		eL	10 41 59	LR	16	68.0 (1)		
		eL	10 41 59	LT	23	52.0 (1)		
25	MN	eL	10 39 35	LR	29	37.0 (1)	103.0	
		eL	10 41 57	LZ	24	56.0 (1)		
		eL	10 41 57	LR	24	58.0 (1)		
		eL	10 41 57	LT	16	46.0 (1)		
25	CP	eL	10 41 05	LZ	30	42.0 (1)	107.0	
25	DH	eL	10 58 19	LZ	21	12.0 (2)	124.0	

25	MN	eP	11 07 28.8	Z	0.5	7.9 (0)	0.6	
		eS	11 07 37	R	0.5	26.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	NG	eP	11 12 04.5	Z	1.0	18.0 (0)		
25	12 48 44.3		11.9 S 077.3 W H =033 KM				NEAR CENTRAL PERU	
25	WI	eP	12 59 22.3	Z	0.8	39.0 (0)	65.0	5.59
25	14 55 59.6		05.9 S 148.4 E H =033 KM				NEW BRITAIN REGION	
25	MV	eP	15 24 15.5	Z	0.6	2.9 (0)		
25	NG	eP	15 51 34.8	Z	1.0	27.0 (0)		
25	17 34 43.4		16.3 N 094.2 W H =100 KM				NEAR COAST CHIAPAS, MEXICO	
25	SJ	eP	17 37 30.3	Z	0.4	34.0 (0)	12.0	5.33
		e	17 37 36	Z	0.6	10.0 (1)		
		e	17 37 42	Z	0.5	12.0 (1)		
		eS	17 39 34	T	0.6	48.0 (0)		
		eS	17 39 34	R	0.8	46.0 (0)		
25	LC	eP	17 39 04.5	Z	0.5	11.0 (0)	19.0	4.44
25	CP	eP	17 40 11.9	Z	0.8	1.7 (0)	26.0	4.63
		e	17 40 27	Z	0.8	10.0 (0)		
		epP	17 40 40	Z	0.8	7.7 (0)		
25	FM	eP	17 40 24.5	Z	0.7	4.6 (0)	28.0	4.22
		epP	17 40 45	Z	0.8	7.2 (0)		
25	NG	eP	17 40 39.5	Z	0.8	18.0 (0)	29.0	4.75
25	DH	eP	17 40 47.3	Z	0.5	11.0 (0)	30.0	4.84
25	MN	eP	17 40 49.5	Z	1.2	12.0 (0)	31.0	4.50
		epP	17 41 10	Z	1.0	18.0 (0)		
25	WI	eP	17 41 03.4	Z	0.6	14.0 (0)	32.0	4.80
		epP	17 41 23	Z	0.8	24.0 (1)		
						AVG.		4.69
25	WI	eP	20 56 33.2	Z	0.9	51.0 (0)		
25	CP	eP	22 05 10.7	Z	0.6	1.2 (0)		
25	MN	eP	22 54 40.5	Z	0.3	4.2 (0)		
25	MN	e	22 54 47	Z	0.5	14.0 (0)		
25	WI	eP	22 55 03.3	Z	0.5	8.4 (0)		
25	WI	e	22 55 08	Z	0.5	84.0 (0)		
25	22 58 10.3		74.8 N 014.6 E H =033 KM				SVALBARD	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
25	WI	eP	23 08 14.6	Z	0.5	13.0 (0)	60.0	5.25
25	LC	eP	23 09 07.9	Z	0.9	4.7 (0)	68.0	4.59
						AVG.		4.92
25	MN	eP	23 13 36.2	Z	0.5	7.6 (0)	0.7	
		eS	23 13 46	T	999.9	99.9 (9)		
		eP	23 15 07.1	Z	0.3	9.6 (0)		
		eS	23 15 17	T	999.9	99.9 (9)		
26	01 41	04.9	36.2 N 070.0 E	HINDU KUSH				
			H =110 KM					
26	05 29	30.2	39.8 N 077.2 E	SINKIANG PROVINCE, CHINA				
			H =014 KM					
26	WI	ePP	05 47 01	Z	1.0	3.3 (0)	98.0	
26	MV	ePP	05 47 17	Z	1.3	9.8 (0)	100.0	
26	MN	ePP	05 47 18	Z	1.3	6.3 (0)	100.0	
26	DH	eLR	06 14 40	LZ	35	83.0 (1)	94.0	
		eL	06 22 45	LZ	25	44.0 (1)		
		eL	06 22 45	LR	25	80.0 (1)		
		eL	06 22 45	LT	25	18.0 (1)		
26	FM	eLR	06 22 14	LZ	38	36.0 (1)	101.0	
		eL	06 31 30	LZ	20	55.0 (1)		
		eL	06 31 30	LR	20	33.0 (1)		
		eL	06 31 30	LT	21	69.0 (1)		
26	LC	eP	09 01 54.0	Z	0.8	1.4 (0)		
26	LC	eL	10 59 50	R	0.9	3.7 (0)		
26	13 28	33.7	42.2 N 144.4 E	OFF COAST HOKKAIDO, JAPAN				
			H =033 KM					
26	WI	eP	13 39 42.8	Z	1.0	3.1 (0)	69.0	4.36
26	MN	eP	13 39 43.5	Z	1.0	4.9 (0)	69.0	4.56
26	FM	eP	13 40 04.0	Z	1.0	5.8 (0)	73.0	4.56
						AVG.		4.49
26	15 58	46.2	23.8 S 175.8 W	TONGA ISLANDS				
			H =019 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	TF	eP	16 10 51.0	Z	1.4	14.0 (1)	79.0	5.76
		eLR	16 34 38	LZ	27	97.0 (1)		
		eL	16 42 35	LZ	19	15.0 (2)		
		eL	16 42 35	LR	19	11.0 (2)		
26	CP	iP	16 10 55.6D	Z	1.3	11.0 (1)	79.0	5.69
26	MV	iP	16 11 00.4D	Z	1.5	80.0 (0)	81.0	5.49
26	MN	iP	16 11 07.7D	Z	1.3	10.0 (1)	82.0	5.73
		ePPS	16 22 42	LT	27	35.0 (1)		
		eSS	16 26 48	LT	21	31.0 (1)		
		eLR	16 36 12	LZ	28	65.0 (1)		
		eL	16 47 25	LZ	17	10.0 (2)		
		eL	16 47 25	LR	17	44.0 (1)		
		eL	16 47 25	LT	17	13.0 (2)		
26	WI	eP	16 11 19.5	Z	1.5	12.0 (1)	84.0	5.88
26	FM	iP	16 11 29.4D	Z	1.5	15.0 (1)	86.0	5.86
		eP	16 11 35	LZ	18	23.0 (1)		
		eLQ	16 34 40	LT	35	91.0 (1)		
		eLR	16 38 05	LZ	25	54.0 (1)		
		eL	16 46 45	LZ	18	83.0 (1)		
		eL	16 46 45	LR	18	58.0 (1)		
26	LC	eP	16 11 36	LZ	20	19.0 (1)	86.0	
		eLQ	16 34 52	LR	27	34.0 (1)		
		eLR	16 38 22	LZ	25	86.0 (1)		
		eL	16 40 05	LZ	25	96.0 (1)		
		eL	16 40 05	LR	25	21.0 (1)		
		eL	16 40 05	LT	25	66.0 (1)		
26	SJ	eP	16 11 50.0	Z	1.2	92.0 (0)	91.0	5.96
		eL	16 40 48	LT	23	14.0 (2)		
26	NG	eL	16 47 48	LZ	28	53.0 (1)	104.0	
26	DH	eL	16 52 30	LZ	28	62.0 (1)	113.0	
		eL	16 56 45	LZ	23	98.0 (1)		
		eL	16 56 45	LR	24	60.0 (1)		
						AVG.		5.77
26	LC	eP	20 19 29.0	Z	0.3	1.3 (0)	2.9	
		e	20 19 34	Z	0.3	2.7 (0)		
		eS	20 20 06	T	0.4	11.0 (0)		
26	LC	eP	20 28 33.3	Z	1.0	3.7 (0)		
26	FM	eL	20 45 38	LZ	25	32.0 (1)		
26	LC	eP	21 05 42.2	Z	0.3	12.0 (0)	1.4	
		eS	21 06 00	T	0.4	1.2 (0)		
27	04 07	17.5	51.6 N 177.6 W	ANDREANOF-ALEUTIAN ISLANDS				
			H =033 KM					
27	06 52	57.8	25.1 N 122.9 E	RYUKYU ISLANDS				
			H =148 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	MV	eP	07 05 53.2	Z	0.7	19.0 (0)	92.0	5.39
27	WI	eP	07 05 59.4	Z	1.0	19.0 (1)	94.0	6.34
27	MN	eP	07 06 05.2	Z	0.8	47.0 (0)	95.0	5.87
27	TF	eP	07 06 08.5	Z	0.6	58.0 (0)	96.0	6.19
27	FM	eP	07 06 19.4	Z	1.0	24.0 (0)	98.0	5.63
27	CP	eP	07 06 25.7	Z	0.8	24.0 (0)	99.0	5.78
27	LC	eP	07 06 54.5	Z	0.8	2.6 (0)	103.0	5.06
		ePP	07 11 18	Z	1.8	35.0 (0)		
		ePKKP	07 22 45	Z	1.4	5.9 (0)		
						AVG.		5.75

27 12 07 12.7 14.9 N 119.9 E NEAR W. COAST LUZON, P. I.
H = 035 KM

27	LC	ePKKP	12 36 44	Z	0.7	1.8 (0)	115.0	
27	MV	eL	12 56 28	LZ	23	36.0 (1)	102.0	
27	MN	eL	12 57 53	LZ	24	30.0 (1)	103.0	
27	FM	eL	13 01 45	LZ	22	24.0 (1)	108.0	

27 16 50 27.7 12.2 N 143.8 E MARIANA ISLANDS
H = 033 KM

27	MV	eP	17 03 08.2	Z	0.9	7.2 (0)	86.0	4.74
		eLR	17 29 37	LZ	41	18.0 (2)		
		eL	17 38 20	LZ	20	68.0 (1)		
		eL	17 38 20	LR	21	41.0 (1)		
		eL	17 38 20	LT	21	21.0 (1)		
27	TF	eP	17 03 18.0	Z	0.8	25.0 (0)	89.0	5.46
		eLR	17 30 15	LZ	35	11.0 (2)		
		eL	17 42 07	LZ	18	18.0 (2)		
		eL	17 42 07	LR	20	10.0 (2)		
		eL	17 42 07	LT	19	11.0 (2)		
27	WI	eP	17 03 19.3	Z	0.7	22.0 (0)	89.0	5.47
		eS	17 14 05	LR	28	29.0 (1)		
		eS	17 14 05	LT	27	38.0 (1)		
		eSS	17 20 21	LT	26	60.0 (1)		
		eLR	17 31 00	LZ	28	26.0 (2)		
		eL	17 33 02	LZ	25	22.0 (2)		
		eL	17 33 02	LR	25	33.0 (1)		
		eL	17 33 02	LT	25	17.0 (2)		
27	MN	eP	17 03 21.1	Z	0.7	27.0 (0)	89.0	5.55
		eS	17 14 15	LR	23	27.0 (1)		
		eS	17 14 15	LT	19	36.0 (1)		
		eSS	17 20 21	LR	23	77.0 (1)		
		eSSS	17 23 43	LR	21	63.0 (1)		
		eLR	17 31 03	LZ	35	99.0 (1)		
		eL	17 40 07	LZ	20	55.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	17 40 07	LR	20	60.0 (1)		
		eL	17 40 07	LT	20	28.0 (1)		
27	CP	eP	17 03 34.4	Z	1.0	16.0 (0)	92.0	5.30
		eLR	17 32 22	LZ	25	86.0 (1)		
		eL	17 37 02	LZ	22	79.0 (1)		
		eL	17 37 02	LR	23	73.0 (1)		
		eL	17 37 02	LT	22	12.0 (2)		
27	FM	eP	17 03 40.5	Z			93.0	
		eLR	17 33 30	LZ	27	14.0 (2)		
		eL	17 35 30	LZ	25	12.0 (2)		
		eL	17 35 30	LR	25	75.0 (1)		
		eL	17 35 30	LT	25	12.0 (2)		
27	LC	eP	17 04 10.8	Z	0.8	3.6 (0)	100.0	5.05
27	SJ	eL	17 35 55	LT	23	12.0 (1)	108.0	
						AVG.		5.26

27	LC	eP	19 36 40.0	Z	0.3	3.1 (0)		
27	LC	eL	19 37 05	R	0.4	4.6 (0)		
27	LC	eP	22 15 15.5	Z	1.0	4.9 (0)		

28 02 35 48.8 12.1 N 143.7 E MARIANA ISLANDS
H = 033 KM

28	MV	eP	02 48 29.4	Z	1.0	17.0 (0)	86.0	5.06
		ePS	03 00 01	LR	45	32.0 (1)		
		eSS	03 05 05	LT	20	29.0 (1)		
		eLR	03 15 00	LZ	34	15.0 (2)		
28	TF	eP	02 48 39.8	Z	1.0	10.0 (1)	89.0	5.97
		e	02 49 18	Z	1.0	34.0 (0)		
		eS	02 59 25	LT	20	63.0 (1)		
		eS	02 59 25	LR	18	61.0 (1)		
		ePS	03 00 25	LT	20	42.0 (1)		
		ePPS	03 01 10	LT	27	66.0 (1)		
		e	03 04 38	LT	18	55.0 (1)		
		e	03 08 55	LZ	22	43.0 (1)		
		eLQ	03 12 00	LT	22	94.0 (1)		
		eLR	03 15 30	LZ	25	12.0 (2)		
		eL	03 30 25	LZ	17	23.0 (2)		
		eL	03 30 25	LR	17	15.0 (2)		
		eL	03 30 25	LT	17	15.0 (2)		
28	WI	eP	02 48 41.0	Z	0.9	48.0 (0)	89.0	5.69
		e	02 48 54	Z	1.0	45.0 (0)		
		eS	02 59 30	LR	16	42.0 (1)		
		ePS	03 00 45	LR	17	19.0 (1)		
		eSS	03 05 20	LR	25	26.0 (1)		
		eLR	03 16 20	LZ	25	99.9 (9)		
28	MN	eP	02 48 42.2	Z	1.0	53.0 (0)	89.0	5.69

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG		
28	CP	eS	02 59 20	LR	22	39.0 (1)	92.0	5.55		
		eS	02 59 20	LT	18	28.0 (1)				
		eSS	03 05 42	LR	22	65.0 (1)				
		eSSS	03 09 00	LR	22	55.0 (1)				
		eLQ	03 12 20	LT	30	98.0 (1)				
		eLR	03 16 05	LZ	25	89.0 (1)				
		eP	02 48 54.8	Z	1.0	28.0 (0)				
		ePS	03 01 05	LT	22	55.0 (1)				
		eSS	03 06 18	LT	22	61.0 (1)				
		eSSS	03 09 48	LT	22	33.0 (1)				
		eLQ	03 14 02	LT	22	61.0 (1)				
		eLR	03 17 40	LZ	25	12.0 (2)				
		eL	03 33 12	LZ	18	16.0 (2)				
		eL	03 33 12	LR	18	43.0 (1)				
		eL	03 33 12	LT	18	11.0 (2)				
28	FM	eP	02 49 01.6	Z	1.0	23.0 (0)	93.0	5.53		
		eSS	03 06 10	LT	23	81.0 (1)				
		eSSS	03 10 06	LT	30	59.0 (1)				
		eLQ	03 14 36	LT	25	40.0 (1)				
		eLR	03 18 50	LZ	36	20.0 (2)				
		eL	03 20 22	LZ	28	20.0 (2)				
		eL	03 20 22	LR	26	10.0 (2)				
		eL	03 20 22	LT	26	20.0 (2)				
		eP	02 49 32.5	Z	0.8	6.5 (0)			100.0	5.31
		ePP	02 53 34	Z	1.0	4.9 (0)				
28	LC	ePS	03 02 50	LR	22	42.0 (1)	115.0	5.31		
		eSS	03 08 25	LR	25	95.0 (1)				
		eSSS	03 12 00	LR	27	56.0 (1)				
		eLQ	03 17 15	LT	25	36.0 (1)				
		eLR	03 21 42	LZ	25	66.0 (1)				
		eSP	03 05 10	LZ	20	17.0 (1)				
		eLR	03 30 18	LZ	35	67.0 (1)				
		eL	03 30 55	LR	25	82.0 (1)				
		eL	03 30 55	LT	25	49.0 (1)				
		eLQ	03 21 25	LT	25	78.0 (1)			108.0	5.31
28	SJ	eLQ	03 21 25	LT	25	78.0 (1)				
		28	NG	eL	03 24 02	LR	20	62.0 (1)	106.0	5.31
				eL	03 31 15	LZ	23	17.0 (2)		
				eL	03 31 15	LR	25	73.0 (0)		
eL	03 31 15	LT	24	10.0 (2)	AVG.	5.54				
28	MV	eP	03 04 21.5	Z			0.4	15.0 (0)	1.6	
28	MN	eP	03 04 27.0	Z	0.5	0.9 (0)	2.3			
28	MV	e	03 04 28	Z	0.5	99.9 (9)	1.6			
28	MN	e	03 04 31	Z	0.5	20.0 (0)	2.3			
28	MV	eS	03 04 43	T	0.5	99.9 (9)	1.6			
28	MN	eS	03 04 57	R	0.7	25.0 (0)	2.3			
28	WI	eP	03 05 03.2	Z	0.5	3.0 (0)				
28	CP	eP	03 05 05.0	Z	0.5	2.6 (0)				
28	WI	eL	03 06 28	R	0.6	24.0 (0)				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	MV	eP	03 23 47.6	Z	0.3	17.0 (0)		
28	05 02	36.1	22.4 S 010.5 W				SOUTH ATLANTIC OCEAN	
			H =033 KM					
28	05 09	15.0	22.5 S 010.7 W				SOUTH ATLANTIC OCEAN	
			H =033 KM					
28	05 53	13.0	24.3 N 141.3 E				VOLCANO ISLANDS	
			H =082 KM					
28	WI	eP	06 05 26.4	Z	1.0	25.0 (0)	82.0	5.05
		ePP	06 05 59	Z	1.0	17.0 (0)		
28	MN	eP	06 05 30.0	Z	1.0	14.0 (0)	83.0	4.90
		ePP	06 06 03	Z	1.0	5.1 (0)		
		eLR	06 52 12	LZ	20	18.0 (1)		
		eL	06 56 02	LZ	20	51.0 (0)		
		eL	06 56 02	LR	15	25.0 (1)		
		eL	06 56 02	LT	18	54.0 (1)		
28	TF	eP	06 05 30.7	Z	0.7	11.0 (0)	83.0	4.95
		ePP	06 06 03	Z	1.0	17.0 (0)		
28	CP	eP	06 05 49.2	Z	1.0	23.0 (0)	87.0	5.20
		ePP	06 06 22	Z	1.0	12.0 (0)		
28	FM	eP	06 05 49.2	Z	1.0	23.0 (0)	87.0	5.20
		eL	06 40 50	LZ	23	29.0 (1)		
28	MV	eP	06 06 16.3	Z	0.5	5.1 (0)	93.0	5.13
28	LC	eP	06 06 24.0	Z	0.7	3.7 (0)	94.0	4.90
28	DH	eLR	06 42 58	LZ	30	42.0 (1)	106.0	
		eL	06 45 12	LZ	20	36.0 (1)		
		eL	06 45 12	LR	20	21.0 (1)		
		eL	06 45 12	LT	18	16.0 (1)		
28	NG	eL	06 48 25	LR	25	12.0 (1)	97.0	
		eL	06 58 04	LR	20	29.0 (1)		
		eL	06 58 04	LT	20	43.0 (1)		
							AVG.	5.05
28	MV	eL	09 41 16	LZ	25	16.0 (1)		
28	CP	eL	09 50 23	LZ	22	26.0 (1)		
28	TF	eL	09 50 57	LZ	20	32.0 (1)		
28	WI	eL	09 56 05	LZ	18	35.0 (1)		
28	TF	eL	09 57 10	LR	17	46.0 (1)		
28	TF	eL	09 57 10	LT	20	48.0 (1)		
28	WI	eL	09 57 32	LZ	19	52.0 (1)		
28	WI	eL	09 57 32	LR	20	25.0 (1)		
28	NG	eL	10 06 00	LR	20	12.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
28	15 25	58.7	09.9 N 093.4 E H = 053 KM	ANDAMAN ISLANDS				
28	MV	eP	15 44 48.2	Z	1.0	2.8 (0)	122.0	
28	WI	eP	15 44 49.2	Z	1.3	17.0 (0)	122.0	
28	MN	eP	15 44 53.5	Z	1.0	6.8 (0)	123.0	
		e	15 45 14	Z	1.2	6.5 (0)		
28	FM	eP	15 44 56.7	Z	0.9	7.6 (0)	126.0	
28	LC	eP	15 45 14.5	Z	0.7	1.2 (0)	134.0	
		eSKP	15 48 31	Z	1.0	14.0 (0)		
28	MN	eL	19 12 15	LZ	20	22.0 (1)		
28	WI	eL	19 13 20	LZ	20	15.0 (1)		
28	MN	eL	19 16 48	LT	18	44.0 (1)		
28	MN	eL	19 16 48	LZ	17	50.0 (1)		
28	MN	eL	19 16 48	LR	15	14.0 (1)		
28	WI	eL	19 18 15	LZ	19	42.0 (1)		
28	WI	eL	19 18 15	LR	18	39.0 (1)		
28	WI	eL	19 18 15	LT	18	18.0 (1)		
28	MV	eP	20 07 59.2	Z	0.6	10.0 (0)		
28	MN	eP	20 08 02.6	Z	1.0	21.0 (0)		
28	FM	eP	20 08 05.0	Z	0.9	7.6 (0)		
29	02 20	27.8	14.0 N 055.1 E H = 033 KM	ARABIAN SEA				
29	FM	eP	03 37 35.5	Z	0.2	19.0 (0)	0.1	
		eS	03 37 38	R	0.2	92.0 (0)		
29	03 58	32.1	29.4 S 177.9 W H = 140 KM	KERMADEC ISLANDS				
29	CP	eP	04 10 54.5	Z	0.8	6.8 (0)	85.0	4.55
29	MN	eP	04 11 06.3	Z	0.6	2.4 (0)	87.0	4.32
		epP	04 11 41	Z	0.8	2.4 (0)		
29	WI	eP	04 11 17.4	Z	0.8	2.7 (0)	90.0	4.35
29	LC	eP	04 11 25.2	Z	0.9	5.6 (0)	92.0	4.77
		epP	04 12 01	Z	0.9	3.7 (0)		
29	FM	eP	04 11 25.8	Z	0.8	3.8 (0)	92.0	4.66
		epP	04 12 02	Z	0.8	1.9 (0)		
							AVG.	4.53
29	MV	eP	05 00 00.0	Z	1.0	5.0 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MN	eP	05 28 05.1	Z	0.2	7.9 (0)	1.1	
29	WI	eP	05 28 18.4	Z	0.3	9.7 (0)	1.9	
29	MN	eS	05 28 19	R	0.3	25.0 (0)	1.1	
29	WI	eS	05 28 44	R	0.5	21.0 (0)	1.9	
29	MN	eP	07 43 14.0	Z	0.8	2.9 (0)		
29	TF	eP	07 43 15.8	Z	1.2	27.0 (0)		
29	CP	eP	07 43 20.1	Z	0.8	3.4 (0)		
29	WI	eP	07 43 24.9	Z	1.0	3.4 (0)		
29	MV	eP	07 43 25.0	Z	1.0	12.0 (0)		
29	MN	e	07 43 31	Z	0.8	12.0 (0)		
29	LC	eP	07 43 34.5	Z	0.8	2.9 (0)		
29	FM	eP	07 43 34.6	Z	999.9	99.9 (9)		
29	WI	e	07 43 43	Z	1.0	15.0 (0)		
29	LC	e	07 43 52	Z	0.8	2.9 (0)		
29	FM	e	07 43 52	Z	1.0	16.0 (0)		
29	09 03	51.1	22.3 S 175.9 W H = 033 KM	TONGA ISLANDS				
29	TF	eP	09 15 48.4	Z	1.0	26.0 (0)	78.0	5.22
		eLR	09 39 45	LZ	28	49.0 (1)		
29	CP	eP	09 15 52.5	Z	999.9	16.0 (0)	79.0	
29	MV	eP	09 15 56.5	Z	1.2	26.0 (0)	80.0	5.00
29	MN	eP	09 16 04.4	Z	1.3	32.0 (0)	82.0	5.19
		eLR	09 41 10	LZ	25	33.0 (1)		
29	WI	eP	09 16 17.0	Z	1.3	48.0 (0)	83.0	5.47
29	FM	eP	09 16 26.5	Z	1.0	23.0 (0)	85.0	5.26
		eP	09 16 27	LZ	18	16.0 (1)		
		eS	09 27 00	LR	24	33.0 (1)		
		eS	09 27 00	LT	20	23.0 (1)		
		eLQ	09 39 20	LT	32	66.0 (1)		
		eLR	09 42 50	LZ	34	38.0 (1)		
29	LC	eP	09 16 28.7	Z	0.9	38.0 (0)	86.0	5.46
		eLR	09 43 30	LZ	30	79.0 (1)		
29	DH	eL	09 57 35	LZ	30	26.0 (1)	112.0	
							AVG.	5.27
29	WI	eP	09 09 52.7	Z	999.9	99.9 (9)	1.8	
29	MN	eP	09 10 14.0	Z	0.5	2.8 (0)	2.7	
29	WI	eS	09 10 17	R	999.9	99.9 (9)	1.8	
29	MN	eS	09 10 48	T	0.5	18.0 (0)	2.7	
29	MN	eP	10 53 53.1	Z	0.2	22.0 (0)	0.3	
		eS	10 53 59	T	0.3	21.0 (0)		
29	12 44	32.8	13.9 N 145.4 E H = 100 KM	MARIANA ISLANDS				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MN	eP	13 29 54.0	Z	0.2	6.7 (0)	0.5	
		eS	13 30 02	T	0.3	30.0 (1)		
29	WI	eP	13 30 20.5	Z	0.4	1.1 (0)	2.6	
		e	13 30 26	Z	0.5	7.3 (0)		
		eS	13 30 54	R	0.7	42.0 (0)		
29	SJ	eP	15 57 05.7	Z	0.8	24.0 (0)		
29	LC	eP	15 59 22.3	Z	0.5	0.9 (0)		
29	LC	eL	16 02 28	Z	0.7	7.3 (0)		
29	19 06 37.6		17.3 S 168.5 E H =033 KM					NEW HEBRIDES ISLANDS
29	FM	eP	19 20 00	LZ	17	15.0 (1)	93.0	
		eSKS	19 30 30	LT	22	30.0 (1)		
		ePS	19 32 00	LR	25	13.0 (2)		
		e	19 36 00	LR	20	56.0 (1)		
		eLQ	19 44 20	LT	35	16.0 (2)		
		eLR	19 48 50	LZ	34	70.0 (2)		
		eL	19 52 50	LZ	22	36.0 (2)		
		eL	19 52 50	LR	22	15.0 (2)		
		eL	19 52 50	LT	22	36.0 (2)		
29	MV	eSKS	19 29 40	LT	21	80.0 (1)	87.0	
		ePS	19 30 56	LT	21	84.0 (1)		
		ePPS	19 31 35	LT	26	98.0 (1)		
		e	19 32 23	LT	18	52.0 (1)		
		eSS	19 35 43	LT	24	53.0 (1)		
		eLR	19 45 51	LR	24	99.9 (9)		
29	WI	eSKS	19 30 10	LT	18	12.0 (2)	90.0	
		ePS	19 31 28	LT	22	28.0 (2)		
		ePPS	19 32 30	LT	25	13.0 (2)		
		e	19 33 48	LZ	20	69.0 (1)		
		eSS	19 36 30	LT	21	11.0 (2)		
		e	19 38 12	LT	20	62.0 (1)		
		eSSS	19 40 00	LT	24	65.0 (1)		
		eLQ	19 43 30	LR	28	88.0 (1)		
		eLR	19 47 18	LZ	999.9	99.9 (9)		
29	CP	eS	19 30 12	LR	27		87.0	
		eS	19 30 12	LT	22	14.0 (2)		
		ePS	19 31 10	LT	20	17.0 (2)		
		eSS	19 35 45	LT	30	15.0 (0)		
		eLQ	19 42 12	LR	30			
		eLR	19 46 05	LZ	999.9	99.9 (9)		
29	SJ	eS	19 32 10	LR	20	11.0 (2)	101.0	
		eS	19 32 10	LT	12	14.0 (2)		
		ePS	19 33 35	LR	20	10.0 (2)		
		eSS	19 39 03	LR	22	14.0 (2)		
		eSSS	19 42 30	LR	27	18.0 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	19 53 30	LZ	27	31.0 (2)		
		eL	20 04 40	LZ	17	42.0 (2)		
		eL	20 04 40	LR	18	64.0 (2)		
		eL	20 04 40	LT	18	50.0 (2)		
29	NG	ePS	19 35 13	LR	18	59.0 (1)	112.0	
		eSS	19 41 37	LR	23	22.0 (2)		
		eLR	19 58 53	LZ	33	43.0 (2)		
		eL	20 03 47	LR	24	38.0 (2)		
		eL	20 03 47	LT	21	22.0 (2)		
29	DH	eSS	19 43 35	LR	25	21.0 (2)	121.0	
		e	19 46 42	LR	20	65.0 (1)		
		eLR	20 03 23	LZ	32	38.0 (2)		
		eL	20 09 40	LZ	23	99.9 (9)		
		eL	20 09 40	LR	21	35.0 (2)		
		eL	20 09 40	LT	20	76.0 (1)		
29	22 52 06.9		38.4 N 070.4 E H =179 KM					HINDU KUSH
30	16 02 13.6		24.2 N 094.5 E H =175 KM					BURMA
30	16 53 24.6		03.2 N 127.1 E H =058 KM					MOLUCCA PASSAGE
30	MN	eLR	17 43 47	LZ	27	35.0 (1)	107.0	
		eL	17 44 10	LR	25	22.0 (1)		
		eL	17 44 10	LT	18	23.0 (1)		
30	WI	eLR	17 43 47	LZ	20	12.0 (1)	107.0	
		eL	17 45 10	LZ	23	33.0 (1)		
		eL	17 45 10	LT	25	37.0 (1)		
30	21 11 30.0		10.8 N 124.7 E H =064 KM					LEYTE, PHILIPPINE ISLANDS
30	21 51 22.9		17.4 N 099.6 W H =051 KM MAG 5.25-5.50 PAL					GUERRERO, MEXICO
30	SJ	eP	21 53 50	LZ	13	57.0 (2)	10.0	
		eL	21 55 57	LZ	15	99.9 (9)		
30	LC	eP	21 55 09.3	Z	0.8	43.0 (0)	16.0	4.68
		eP	21 55 10	LZ	14	62.0 (1)		
		eS	21 58 25	LR	20	33.0 (2)		
		eL	21 59 30	LR	25	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG			
30	CP	eL	21 59 56	T	2.3	44.0 (1)	21.0	4.84			
		eP	21 56 08.3	Z	1.0	55.0 (0)					
		eP	21 56 09	LZ	12	81.0 (2)					
		ePP	21 56 25	Z	1.1	12.0 (1)					
		eS	22 00 13	LT	18	99.9 (9)					
		eS	22 00 13	LR	999.9	99.9 (9)					
		eS	22 00 16	T	3.2	38.0 (1)					
		eS	22 00 16	R	3.0	25.0 (1)					
		eL	22 01 42	LZ	22	43.0 (2)					
		eL	22 05 42	Z	3.5	91.0 (1)					
30	FM	eP	21 56 38.2	Z	0.8	25.0 (0)	24.0	4.74			
		eP	21 56 40	LZ	12	13.0 (2)					
		ePP	21 57 00	Z	1.2	16.0 (1)					
		eS	22 01 08	LT	22	99.9 (9)					
		eS	22 01 08	LR	27	19.0 (2)					
		eL	22 02 55	LR	35	99.9 (9)					
		eL	22 04 17	R	3.2	43.0 (1)					
		eP	21 56 48.9	Z	1.0	67.0 (0)					
		eP	21 57 00	LZ	15	56.0 (1)					
		eS	22 01 35	LR	24	99.9 (9)					
30	MN	eLQ	22 03 24	LT	35	99.9 (9)	27.0	5.18			
		eLR	22 05 22	LZ	28	99.9 (9)					
		eP	21 57 14.3	Z	0.8	37.0 (0)					
		eP	21 57 15	LZ	10	14.0 (1)					
		eS	22 02 03	LR	22	99.9 (9)					
		eLQ	22 04 05	LR	22	15.0 (2)					
		eLR	22 05 15	LR	30	99.9 (9)					
		eL	22 06 21	T	3.2	57.0 (1)					
		eP	21 57 18.2	Z	1.0	8.5 (0)					
		eL	22 06 46	T	3.0	14.0 (1)					
30	NG	eP	21 57 25.0	LZ	12	19.0 (2)	30.0	4.43			
		eS	22 02 25	LT	25	19.0 (2)					
		eS	22 02 25	LR	25	95.0 (1)					
		eL	22 06 17	LZ	35	99.9 (9)					
		AVG.							4.84		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	MV	eL	23 54 17	LT	15	22.0 (2)	6.0	4.12
		eP	23 52 35.0	Z	0.5	2.6 (0)		
		e	23 53 02	Z	0.6	11.0 (0)		
30	WI	eLG	23 54 08	T	0.7	63.0 (0)	7.0	4.22
		eP	23 52 51.3	Z	0.6	2.3 (0)		
		eLG	23 54 37	R	0.8	10.0 (1)		
30	LC	eL	23 55 25	LR	18	99.9 (9)	9.0	4.68
		eP	23 53 14.0	Z	0.5	2.4 (0)		
		eLG	23 55 53	R	1.5	99.0 (0)		
30	MN	eL	23 55 55	LT	20	28.0 (1)	3.0	4.32
		eL	23 53 33	LR	18	94.0 (1)		
AVG.							3.0	4.32

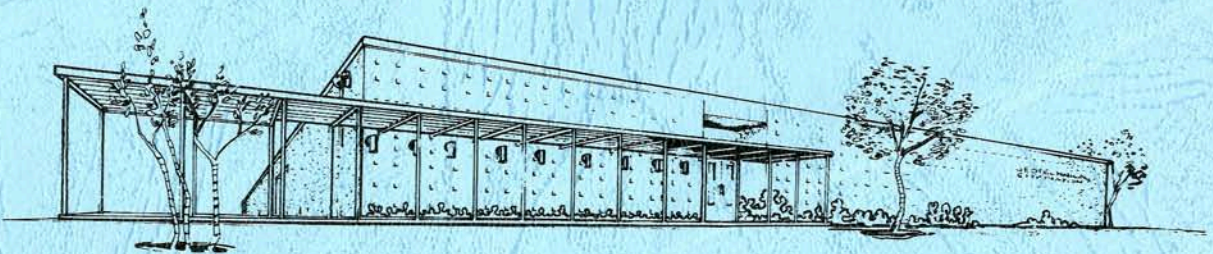
30 23 07 51.6 05.5 S 145.9 E NEAR N. COAST NEW GUINEA
H =079 KM

30 23 51 05.7 34.4 N 116.8 W SAN BERNARDINO, CALIFORNIA
H =033 KM MAG 4.00- PAS

30	CP	eP	23 51 34.5	Z	999.9	99.9 (9)	2.0	4.25
		eP	23 51 36	LZ	10	12.0 (2)		
		eL	23 51 57	LT	13	52.0 (2)		
30	TF	eP	23 51 47.6	Z	0.5	40.0 (1)	6.0	4.25
30	FM	eP	23 52 32.6	Z	0.5	3.5 (0)		
		e	23 53 02	Z	0.7	18.0 (0)		

December 1962

SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

T H E G E O T E C H N I C A L C O R P O R A T I O N

3401 SHILOH ROAD GARLAND, TEXAS



SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

AFTAC Project No:	VT/074
ARPA Order No:	104-60
ARPA Code No:	8100
Contractor:	The Geotechnical Corporation Garland, Texas
Contract No:	AF 33(600)-41694

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SEISMOLOGICAL BULLETIN

LONG-RANGE SEISMIC MEASUREMENTS PROGRAM

1. INTRODUCTION

1.1 This bulletin contains seismological data on earthquake phases recorded at ten of the forty mobile seismological stations being operated by The Geotechnical Corporation (Geotech) under Project VT/074, Contract AF 33(600)-41694, The Long-Range Seismic Measurements (LRSM) Program. The bulletin is intended to be an aid to interested observers in determining the extent of the earthquake data contained in the records from the forty teams.

1.2 The bulletin contains the following:

- a. Data on all of the phases that have been associated with epicenters reported by the U. S. Coast and Geodetic Survey (USC&GS);
- b. Data on the epicenters listed in the bulletin - as reported by the USC&GS;
- c. Arrival time, period, amplitude, and distance for phases not associated with USC&GS epicenters.

1.3 All phases are listed in chronological order, except that unassociated phases are not mixed with a sequence of associated phases. In such cases, the unassociated phases are listed immediately following the associated phases.

2. INSTRUMENTATION

2.1 Instrumentation at each of the LRSM sites consists of a three-component Benioff short-period seismograph system and a three-component Sprengnether long-period system. Both systems use phototube amplifiers. The response characteristics of these systems are shown in figures 1 and 2. Figure 3 shows the response characteristic of the long-period system after the bandpass filters were changed to increase the relative magnification of its short-period response. All bulletin stations made this change effective 16 December 1962, except MV CL (Marysville, California), TF CL (Taft, California), and MN NV (Mina, Nevada). MV CL changed filters on 18 December 1962. TF CL and MN NV changed filters on 20 December 1962.

2.2 All data are recorded by 35-mm Film Recorders, Geotech Model 1301A, and by fourteen-channel Magnetic Tape Recorders, Ampex Model 314.

2.3 Precision Timing Systems, Geotech Model 5400 or 5400A, are used for primary timing. Chronometers are used for secondary time. The primary and secondary timing systems use WWV for the time standard.

2.4 Each team calibrates the long- and short-period systems at least once every 24 hours. The short-period system calibration consists of a weight-lift calibration and a frequency-response calibration. In the frequency-response method of calibration, the mass of the seismometer is driven by a known sinusoidal force through the use of an electromagnetic actuator. Magnification is determined by known relationships between the recorded amplitude and the actuator driving force.

3. INTERPRETATION OF COLUMN TITLES

The column titles appearing in this bulletin are defined as follows:

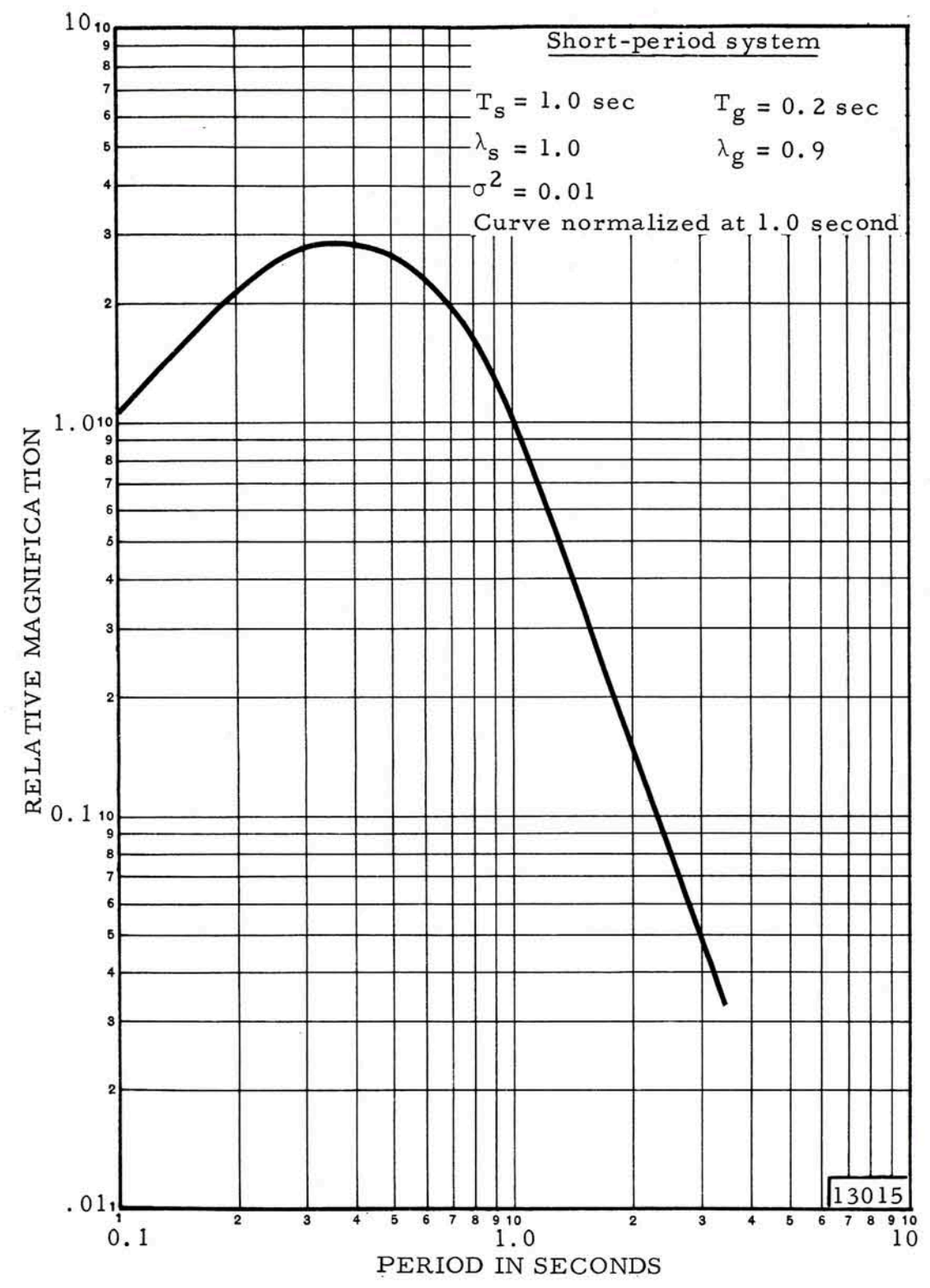


Figure 1. Frequency response of the short-period seismograph system

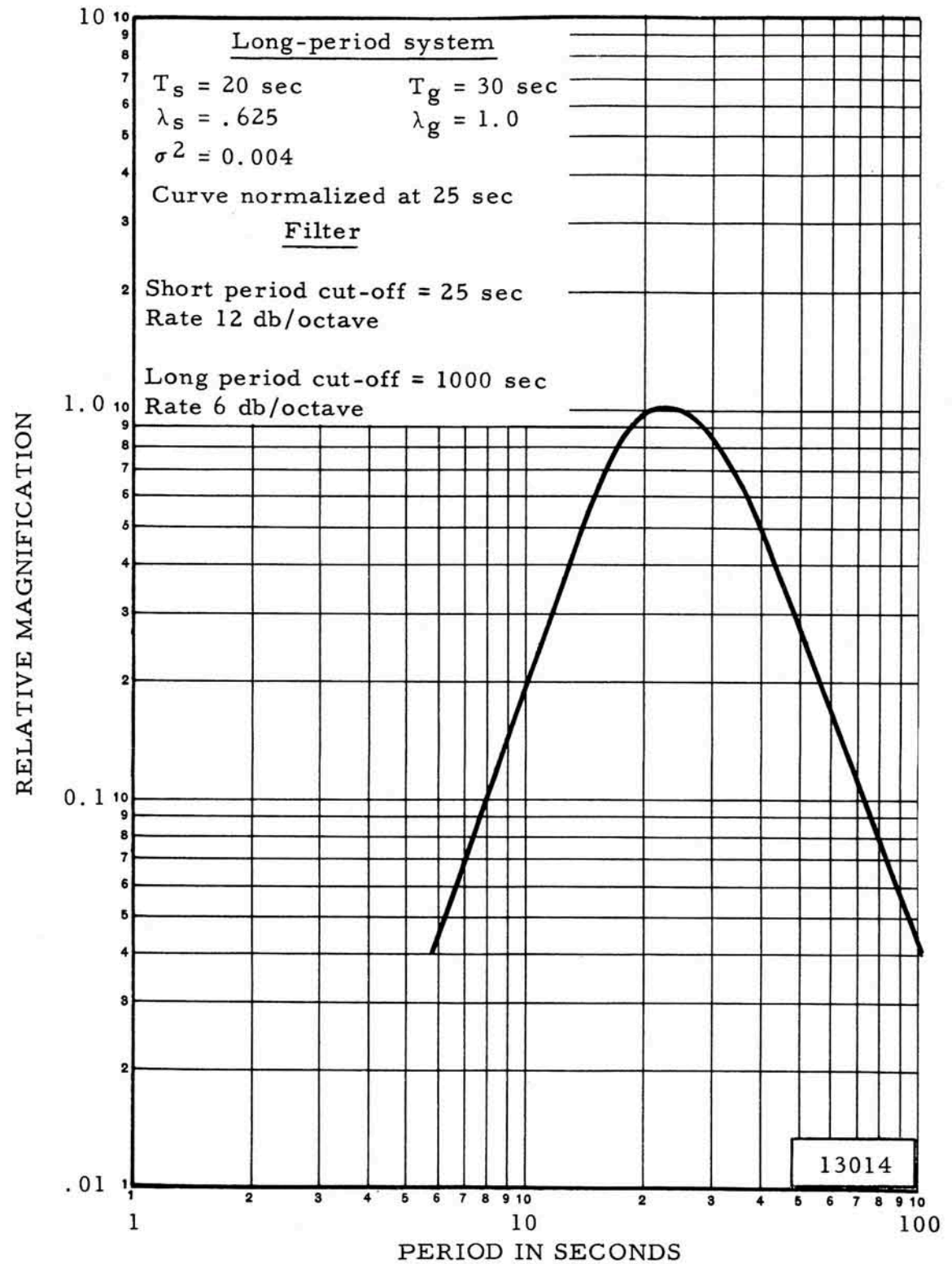


Figure 2. Frequency response of the long-period seismograph system with short-period response decreasing at 18 db/octave

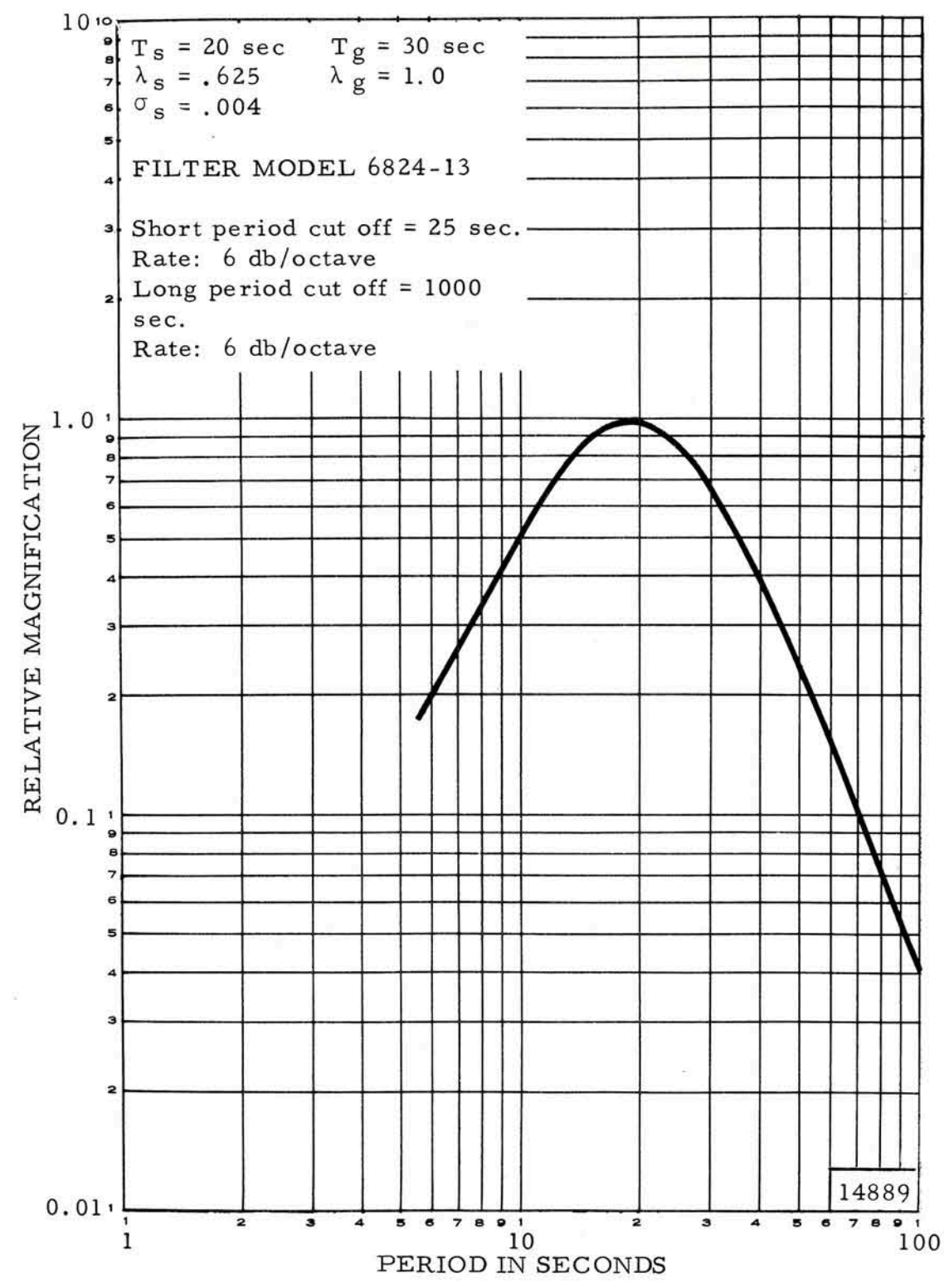


Figure 3. Frequency response of the long-period seismograph system with short-period response decreasing at 12db/octave (effective 16 December)

3.1 DAY The date, for the day of the month, is printed each time a new epicenter is listed and each time the station designator changes. Dates are given in Greenwich Civil Time (G. C. T.).

3.2 STA The station from which the data were taken. The station designators used in this bulletin are given in the following table.

<u>Station Designator</u>	<u>Location</u>
SJ	San Jose, Texas
LC	Las Cruces, New Mexico
CP	Campo, California
MV	Marysville, California
WI	Winnemucca, Nevada
MN	Mina, Nevada
FM	Fillmore, Utah
NG	Niagara, Wisconsin
DH	Delhi, New York
TF	Taft, California

The locations of the stations are shown in figure 4.

3.3 PHASE Symbols defining the phase type are listed in the phase column. Prefixes to the phase designators are defined as follows:

- a. An "i" (impetus) preceding the phase designates a sharp or sudden beginning of the phase motion. Direction of first motion is discernible on all "i" phases.
- b. An "e" (emersio) preceding the phase designates an emergent phase motion. The direction of the initial break cannot be positively determined.
- c. An "i" or "e" alone designates an unidentified phase of either an impetus or emersio arrival.

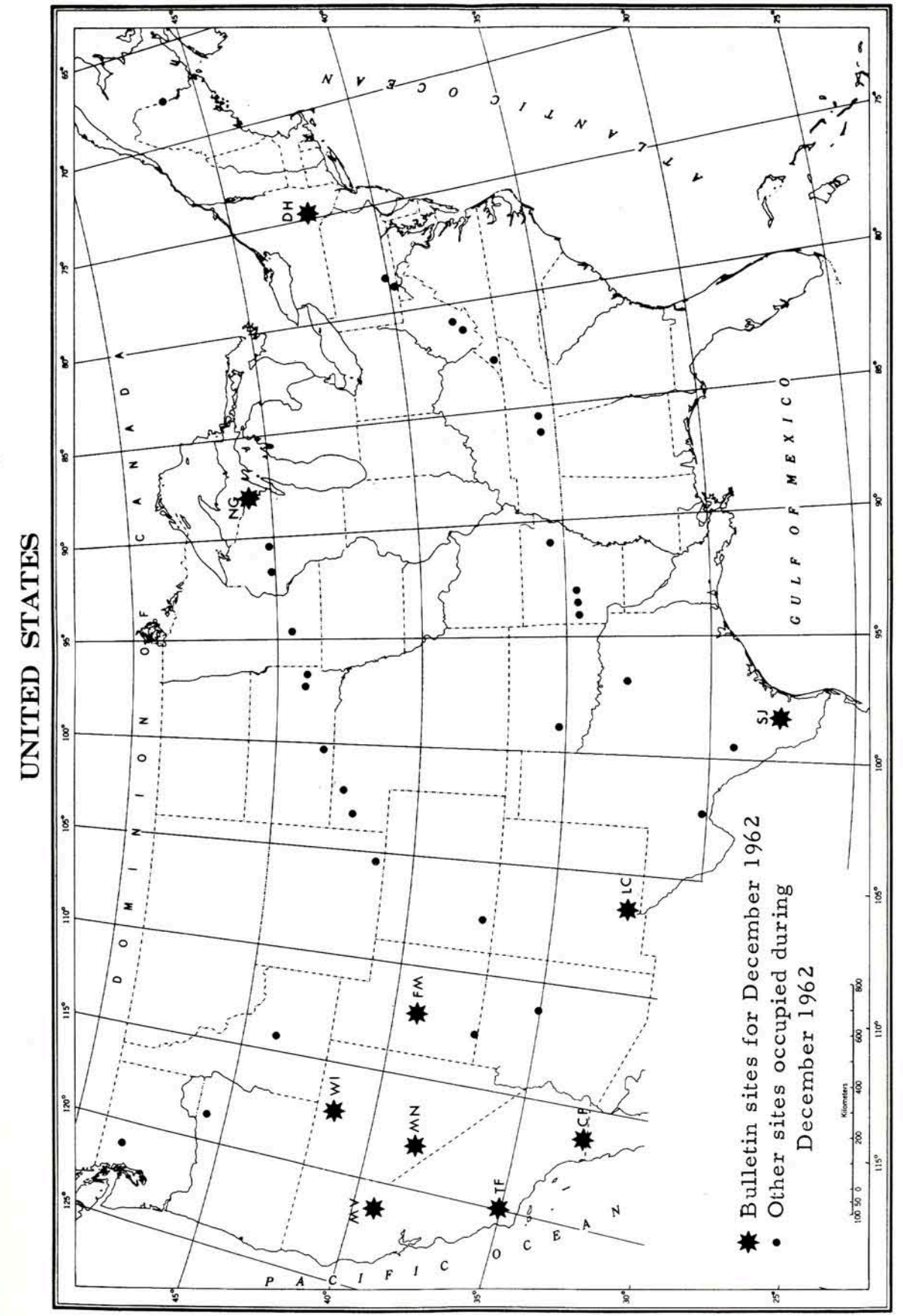


Figure 4. LRSM Program Sites

3.4 TIME The arrival time of each phase is given in Greenwich Civil Time (G.C.T.). Arrival times indicate that time at which phase motion is first detected. Arrival time is measured to the nearest 1/10 second for initial arrivals recorded by the short-period system, and to the nearest second for all other phases on both systems. The direction of motion for iP arrivals is also noted in this field; either C (compression) or D (dilation) will appear immediately to the right of the tenths of second column.

3.5 INST The seismograph channel from which the data were taken. The symbols used to designate the seismograph channels are given in the following table:

Z	Short-Period Vertical
R*	Short-Period Radial (horizontal)
T*	Short-Period Transverse (horizontal)
LZ	Long-Period Vertical
LR*	Long-Period Radial (horizontal)
LT*	Long-Period Transverse (horizontal)

* Refer to table 1 for Instrument Orientation.

3.6 PER The period, in seconds, of each phase. When possible, the period is determined from the first full cycle of the phase; otherwise, it is taken as the average period of the first three cycles. The digits 999.9 appearing in the period columns indicate that the signal period could not be measured.

3.7 AMP This column contains the amplitude of the phase given in millimicrons of ground displacement. The digit in parenthesis indicates the power to which the multiplier 10 is to be raised. For instance:

$$\begin{aligned}
 30.0 (2) &= 30 \times 10^2 = 3000 \text{ m}\mu \\
 30.0 (1) &= 30 \times 10^1 = 300 \text{ m}\mu \\
 30.0 (0) &= 30 \times 10^0 = 30.0 \text{ m}\mu
 \end{aligned}$$

All amplitudes are corrected for instrument response and are reported as

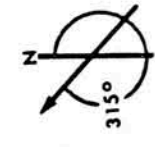
TABLE 1
LRSM SITE INFORMATION

Horizontal seismometer orientation

Azimuth from True North
in Degrees*

Site Designation	Site Location	Radial	Trans-verse	Site Coordinates in deg, min, sec	Elevation in km	Rock Type
SJ TX	San Jose, Texas	127	217	N 27 36 43	0.114	Limestone
LC NM	Las Cruces, New Mexico	124	214	W 98 18 46	1.585	Limestone
CP CL	Campo, California	182	272	N 32 24 08	1.189	Granite
MV CL	Marysville, California	295	025	W 106 35 58	0.183	Volcanics
WI NV	Winnemucca, Nevada	346	076	N 32 43 44	1.524	Limestone
MN NV	Mina, Nevada	308	038	W 116 22 16	1.524	Limestone
FM UT	Fillmore, Utah	058	148	N 39 12 47	1.890	Limestone
NG WS	Niagara, Wisconsin	078	168	W 121 17 35	0.396	Granite
DH NY	Delhi, New York	095	185	N 41 21 02	0.652	Sandstone
TF CL	Taft, California	235	325	W 117 27 30	0.792	Sandstone
				N 38 26 10		
				W 118 08 53		
				N 39 13 06		
				W 112 12 25		
				N 45 45 27		
				W 88 08 57		
				N 42 14 39		
				W 74 53 18		
				N 35 09 49		
				W 119 58 03		

*When earth moves in direction shown, trace moves up.



one-half the peak-to-peak value. Amplitudes are measured from the largest pulse within the first 3 or 4 cycles whenever possible. The digits 99.9 (9) appearing in the amplitude columns indicate either a "clipped" signal or a trace amplitude too large to measure. When amplitudes are not calculated because of insufficient calibration data, the amplitude columns are left blank.

3.8 DIST This is the distance from the recording station to the epicenter. Distance is given to the nearest 1/10 of a degree for distances up to six degrees. Beyond six degrees, calculations are made to the nearest one degree based on travel times given in the Jeffreys and Bullen Seismological Tables. P-O times are used to determine distances to the epicenters located by the USC&GS. Distances computed for unassociated data are determined from the S-P intervals. In some instances, surface groups are recorded which have traveled the major arc from the epicenter to the station. In such cases the major arc distance is given.

3.9 MAG The Unified Magnitude (m) of the earthquake is determined by:

$$m = \log_{10} A + B$$

where: m = Unified magnitude

A = 1/2 P-P amplitude in millimicrons/second of the "P" phase (initial arrival)

B = Log function of distance and depth.

These factors were obtained from the Gutenberg-Richter tables. Computations for distances less than 16° are based on AFTAC extensions of Gutenberg's tables.¹ For this purpose, points from 10° to 16° were read from a curve in the Gutenberg-Richter paper and an inverse cube relationship was used to extrapolate from 2° to 10°.

¹ Gutenberg, B., and Richter, C.F., 1956, Magnitude and energy of earthquakes: Ann. Geofis., 9, pp. 1-15

The average magnitude $\frac{\text{sum of station magnitudes}}{\text{number of stations}}$ is listed on the last line

of an epicenter print-out.

When possible, magnitudes (m) are computed for foreshocks and aftershocks as well as for the main event.

3.10 The notation FS located between the phase and the time columns calls attention to a foreshock recorded preceding the main event.

The notation AS located between these columns calls attention to an aftershock recorded following the main event.

4. INTERPRETATION OF UNITED STATES COAST AND GEODETIC SURVEY DATA

The epicenter data reported by the USC&GS precedes each list of associated phases. This information appears as follows:

Line 1 (from left to right)

First group:	day of the month
Second group:	origin time of the event
Third group:	geographic coordinates of the epicenter
Fourth group:	geographic description

NOTE

An asterisk (*) following the origin time indicates epicenters believed accurate to $1/2^\circ$ in latitude and longitude and to 50 km in depth.

Line 2 (from left to right)

First group: depth (h) of the hypocenter in kilometers
Second group: magnitude (MAG) as determined by Pasadena
(PAS), Berkeley (BRK), or Palisades (PAL)

NOTE

MAG. (CGS) is m_p of Gutenberg and Richter from the P phase only. The Magnitude quoted is an average value determined from data forwarded by cooperating Standard stations and other observatories.

5. REMARKS

The Geotechnical Corporation routinely receives and preprocesses data collected from the 40 field stations of the LRSM Program. Information on background levels, magnification levels, operational procedures, available records, and other data can be provided to VELA-UNIFORM participants and other interested organizations. Requests for such information should be made to the attention of:

HQ USAF (AFTAC/TD-1)
Attn: Captain N.G. Maddox
Washington 25, D.C.

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	00 35 50.1		34.3 N 116.9 W H =033 KM			SAN BERNARDINO CY, CALIF. 4.25- PAS		
1	CP	eP	00 36 17.3	Z	999.9	99.9 (9)	1.5	
		e	00 36 18	LZ	10	13.0 (4)		
		eL	00 36 41	LZ	10	65.1 (4)		
1	TF	eP	00 36 31.3	Z	0.3	30.0 (0)	2.4	
		e	00 36 33	LZ	12	12.2 (2)		
		eLR	00 37 28	LZ	16	31.1 (2)		
1	MN	eP	00 36 54.0	Z	0.5	2.1 (0)	3.0	3.44
		e	00 37 06.5	Z	0.4	99.9 (9)		
		eL	00 38 12	LR	22	13.3 (2)		
		eL	00 38 13	R	999.9	99.9 (9)		
1	MV	eP	00 37 20.7	Z	0.5	1.8 (0)	6.0	3.98
		e	00 37 39	Z	0.6	99.9 (9)		
		eL	00 38 54	T	0.6	99.9 (9)		
1	FM	eP	00 37 20.8	Z	999.9	99.9 (9)	6.0	
		e	00 37 40	Z	1.0	40.1 (0)		
		eL	00 39 03	Z	0.8	54.7 (0)		
		eL	00 39 05	LZ	16	44.9 (1)		
		eL	00 39 05	LR	20	38.6 (1)		
		eL	00 39 05	LT	16	24.0 (2)		
1	WI	eP	00 37 34.5	Z	0.6	1.3 (0)	7.0	3.99
		e	00 38 00	Z	0.6	20.0 (0)		
		eL	00 39 25	LT	24	10.6 (2)		
		eL	00 39 32	R	0.8	69.4 (0)		
1	LC	eL	00 40 15	LR	32	71.8 (1)	9.0	
		eS	00 40 32.0	R	1.0	31.2 (0)		
						AVG.		3.80
1	CP	eP	00 41 11.6	Z	0.3	21.0 (0)	1.7	
		eS	00 41 36	T	0.3	28.9 (0)		
1	00 44 48.0		34.3 N 116.9 W H =033 KM			SAN BERNARDINO CY, CALIF. 2.75-3.00 PAS		
1	CP	eP	00 45 15.4	Z	0.3	36.7 (0)	1.5	
		eS	00 45 36	T	0.3	44.5 (0)		
1	TF	eP	00 45 29.9	Z	0.2	6.0 (0)	2.4	
		e	00 45 35	Z	0.3	18.0 (0)		
		eL	00 46 10	T	0.5	45.6 (0)		
1	CP	eP	00 48 02.5	Z	0.3	19.9 (0)	1.6	
		eS	00 48 24	T	0.3	38.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	00 57 30.4		34.3 N 117.0 W H = 033 KM			SAN BERNARDINO CY, CALIF. 2.50-2.75 PAS		
1	CP	eP	01 15 33.2	Z	0.3	53.5 (0)	1.5	
1	TF	eP	01 15 48.1	Z	0.2	4.0 (0)	3.3	
		e	01 15 52	Z	0.3	10.5 (0)		
1	CP	eS	01 15 52	R	0.3	79.1 (0)	1.5	
1	MN	eP	01 16 23.7	Z	0.5	4.3 (0)	4.6	
1	TF	eS	01 16 29	T	0.5	60.8 (0)	3.3	
1	MN	eS	01 17 20	R	0.7	2.7 (0)	4.6	
1	CP	eP	01 19 08.2	Z	0.2	9.1 (0)	1.6	
		eS	01 19 30	T	0.3	31.0 (0)		
1	01 50 20.4		52.4 N 170.1 W H = 038 KM			FOX-ALEUTIAN ISLANDS		
1	MV	eP	01 57 19.9	Z	0.9	12.8 (0)	36.0	4.79
		eP	01 57 23	LZ	23	47.4 (1)		
		ePCP	01 59 45	Z	0.7	9.9 (0)		
		eS	02 02 55	LT	22	74.6 (1)		
		eSS	02 05 25	LT	34	38.7 (2)		
		eLR	02 07 05	LZ	25	17.7 (2)		
		eL	02 07 40	LZ	24	24.8 (2)		
		eL	02 07 40	LR	24	16.8 (2)		
		eL	02 07 40	LT	24	56.6 (1)		
1	WI	eP	01 57 27.6	Z	1.0	26.2 (0)	37.0	4.99
		eP	01 57 37	LZ	18	60.1 (1)		
		ePP	01 59 16	LZ	25	47.9 (1)		
		eS	02 03 11	LT	24	11.6 (2)		
		eS	02 03 11	LR	22	52.9 (1)		
		eSS	02 06 05	LT	18	25.5 (2)		
		eLR	02 07 57	LZ	30	12.3 (2)		
		eL	02 08 16	LR	18	16.1 (2)		
		eL	02 08 16	LT	24	29.8 (2)		
1	MN	eP	01 57 39.2	Z	1.0	29.8 (0)	38.0	5.05
		eP	01 57 42	LZ	18	65.6 (1)		
		eS	02 03 40	LR	21	95.5 (1)		
		eS	02 03 40	LT	23	90.2 (1)		
		e	02 04 07	LR	23	11.4 (2)		
		eSS	02 06 35	LT	999.9	99.9 (9)		
		eLR	02 08 28	LZ	33	19.0 (2)		
		eL	02 09 20	LZ	23	26.1 (2)		
		eL	02 09 20	LR	23	19.6 (2)		
		eL	02 09 20	LT	23	12.1 (2)		
1	TF	eP	01 57 48.2	Z	1.0	42.0 (0)	39.0	5.13
		eP	01 57 50	LZ	15	71.3 (1)		
		ePCP	02 00 11	Z	0.8	9.9 (0)		
		eS	02 03 46	LR	24	15.9 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSS	02 06 50	LR	32	53.4 (2)		
		eLR	02 08 17	LZ	23	22.0 (2)		
1	FM	eP	01 58 05.1	Z	1.1	45.7 (0)	41.0	5.15
		eP	01 58 07	LZ	20	47.9 (1)		
		eS	02 04 23	LR	25	98.3 (1)		
		eS	02 04 23	LT	25	95.2 (1)		
		eLQ	02 07 45	LR	32	23.5 (2)		
		eLR	02 09 00	LZ	30	24.7 (2)		
		eL	02 11 20	LZ	25	21.3 (2)		
		eL	02 11 20	LR	23	14.2 (2)		
		eL	02 11 20	LT	24	19.0 (2)		
1	CP	eP	01 58 18.3	Z	0.9	45.2 (0)	43.0	5.20
		eP	01 58 19	LZ	20	58.9 (1)		
		ePP	02 00 08	Z	0.9	6.7 (0)		
		eS	02 04 45	LT	21	14.1 (2)		
		eLQ	02 08 20	LZ	22	14.6 (2)		
		eLR	02 10 00	LZ	27	28.8 (2)		
		eL	02 11 15	LZ	23	21.7 (2)		
		eL	02 11 15	LR	20	24.2 (1)		
		eL	02 11 15	LT	23	15.1 (2)		
1	LC	eP	01 59 07.2	Z	0.9	34.1 (0)	49.0	5.34
		eS	02 06 10	LT	23	73.8 (1)		
		eSCS	02 09 03	LT	20	49.5 (1)		
		eSS	02 10 05	LR	25	93.4 (1)		
		eSSS	02 11 00	LR	20	11.1 (2)		
		eLR	02 12 42	LT	27	26.1 (2)		
1	NG	eP	01 59 22.2	Z	1.0	84.8 (0)	51.0	5.66
		eS	02 06 38	LR	19	99.6 (1)		
		eS	02 06 38	LT	17	83.9 (1)		
		eSS	02 10 28	LT	16	97.2 (1)		
		eSSS	02 11 23	LR	22	99.1 (1)		
		eL	02 17 04	LR	30	11.3 (2)		
		eL	02 19 15	LZ	22	15.7 (2)		
		eL	02 19 15	LR	22	25.3 (2)		
		eL	02 19 15	LT	22	82.6 (1)		
1	SJ	eP	02 00 09.6	Z	1.0	12.0 (1)	58.0	5.88
		eP	02 00 11	LZ	16	89.6 (1)		
		ePP	02 02 22	LZ	18	40.1 (1)		
		eS	02 08 10	LR	20	99.9 (9)		
		eS	02 08 10	LT	20	12.6 (2)		
		e	02 09 17	LR	18	99.9 (9)		
		eSCS	02 09 47	LT	22	73.6 (1)		
		eSS	02 12 34	LR	999.9	99.9 (9)		
		e	02 13 15	LR	20	99.9 (9)		
		eLQ	02 14 30	LR	20	99.9 (9)		
		eLR	02 17 14	LR	26	99.9 (9)		
		eL	02 21 55	LZ	23	16.5 (2)		
		eL	02 21 55	LR	22	99.9 (9)		
		eL	02 21 55	LT	16	19.3 (2)		
1	DH	eP	02 00 30.0	Z	999.9	99.9 (9)	61.0	
		eP	02 00 30	LZ	17	77.9 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePP	02 02 52	LZ	20	30.5 (1)		
		eS	02 08 47	LR	20	10.2 (2)		
		eSS	02 13 35	LT	23	64.6 (1)		
		eLR	02 20 30	LZ	34	15.2 (2)		
		eL	02 28 02	LZ	20	58.9 (2)		
		eL	02 28 02	LR	18	35.3 (2)		
		eL	02 28 02	LT	18	31.5 (2)		
							AVG.	5.24
1	CP	eP	03 52 15.0	Z	0.2	37.8 (0)	1.5	
1	TF	eP	03 52 30.0	Z	0.2	6.0 (0)	3.2	
		e	03 52 33	Z	0.4	23.1 (0)		
1	CP	eS	03 52 35	T	0.3	28.9 (0)	1.5	
1	MN	eP	03 53 04.6	Z	0.9	11.4 (0)		
1	TF	eS	03 53 10	T	0.6	67.4 (0)	3.2	
1	MN	eL	03 54 01	T	1.0	8.9 (0)		
1	04 16 59.6		29.7 S 177.7 W				KERMADEC ISLANDS	
			H = 052 KM					
1	TF	eP	04 29 28.2	Z	0.9	42.0 (0)	85.0	5.51
		eP AS	04 29 45.1	Z	1.2	51.7 (0)		5.47
		eL	04 55 30	LZ	28	42.6 (1)		
1	CP	eP	04 29 31.5	Z	1.0	55.8 (0)	85.0	5.59
		eP AS	04 29 48.2	Z	1.3	79.1 (0)		5.62
		eLR	04 55 05	LZ	28	55.0 (1)		
1	MV	eP	04 29 37.5	Z	1.0	35.1 (0)	87.0	5.44
		eP AS	04 29 54.2	Z	1.2	28.2 (0)		5.26
		e	04 41 43	LT	27	30.1 (1)		
		eLR	04 56 24	LZ	30	55.7 (1)		
1	MN	eP	04 29 44.0	Z	1.0	33.9 (0)	88.0	5.47
		eP AS	04 30 00.5	Z	1.2	31.8 (0)		5.36
		eLQ	04 53 00	LR	40	77.0 (1)		
		eLR	04 56 51	LZ	29	44.0 (1)		
		eL	04 58 05	LZ	25	72.4 (1)		
		eL	04 58 05	LR	25	15.8 (1)		
		eL	04 58 05	LT	24	61.4 (1)		
1	WI	eP	04 29 54.9	Z	1.3	60.8 (0)	90.0	5.61
		eP AS	04 30 11.5	Z	1.3	29.3 (0)		5.30
		eLR	04 58 07	LZ	31	55.7 (1)		
		eL	04 59 16	LZ	25	53.8 (1)		
		eL	04 59 16	LR	25	35.0 (1)		
		eL	04 59 16	LT	23	44.0 (1)		
1	LC	eP	04 30 02.2	Z	1.2	60.6 (0)	92.0	5.80
		eP AS	04 30 19.3	Z	1.2	41.6 (0)		5.64
1	FM	eP	04 30 03.3	Z	1.0	37.0 (0)	92.0	5.66
		eP AS	04 30 20.0	Z	1.5	81.6 (0)		5.83
		eLR	04 58 40	LZ	28	43.5 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	SJ	eP	04 30 16.2	Z	1.2	31.0 (0)	95.0	5.61
		eP AS	04 30 35.0	Z	1.4	72.0 (0)		5.91
1	DH	eLR	05 13 40	LZ	30	23.7 (1)	118.0	
							AS .	5.55
							AVG.	5.59
1	CP	eP	05 08 24.8	Z	0.2	18.2 (0)	1.6	
		eS	05 08 46	T	0.3	31.0 (0)		
1	SJ	eP	05 37 21.5	Z	0.7	15.0 (0)	4.5	
		eS	05 38 17	R	0.9	12.1 (1)		
1	CP	eP	06 58 55.3	Z	0.2	71.4 (0)	1.6	
1	TF	eP	06 59 09.1	Z	0.2	10.0 (0)	3.3	
		e	06 59 14	Z	0.3	39.0 (0)		
1	CP	eS	06 59 17	T	0.3	77.7 (0)	1.6	
1	TF	eS	06 59 50	T	0.5	91.2 (0)	3.3	
1	CP	eP	08 40 13.7	Z	0.3	17.8 (0)	1.5	
1	TF	eP	08 40 30.2	Z	0.2	8.0 (0)	3.1	
1	CP	eS	08 40 33	T	0.3	35.1 (0)	1.5	
1	TF	e	08 40 36	Z	0.4	18.8 (0)	3.1	
		eS	08 41 09	Z	0.4	24.6 (0)		
1	MN	eP	09 37 18.3	Z	0.4	0.5 (0)		
1	MN	e	09 37 31	Z	0.5	8.1 (0)		
1	MN	eL	09 38 29	R	0.7	5.5 (0)		
1	LC	eP	10 05 12.0	Z	1.2	7.5 (0)		
1	MN	eP	10 06 50.2	Z	1.0	4.9 (0)		
1	WI	eP	10 07 01.4	Z	1.3	10.4 (0)		
1	DH	eL	10 18 07	LZ	24	23.5 (1)		
1	CP	eP	10 36 41.5	Z	0.3	37.8 (0)	1.6	
		eS	10 37 03	T	0.3	80.7 (0)		
1	CP	eP	10 49 03.0	Z	0.2	8.4 (0)	1.5	
		eS	10 49 24	T	0.3	18.6 (0)		
1	TF	eP	13 06 45.6	Z	0.2	8.0 (0)	2.6	
		e	13 06 49	Z	0.3	24.0 (0)		
		eS	13 07 22	T	0.4	83.4 (0)		
1	13 32 24.8		30.8 S 071.3 W				CENTRAL CHILE	
			H = 068 KM					
1	LC	eP	13 43 38.5	Z	0.7	15.9 (0)	71.0	5.05
1	DH	eP	13 43 47.5	Z	1.0	9.5 (0)	73.0	4.67
1	NG	eP	13 44 15.1	Z	0.7	31.0 (0)	78.0	5.34
1	FM	eP	13 44 25.0	Z	0.7	7.6 (0)	80.0	4.67
1	TF	eP	13 44 29.3	Z	0.9	9.6 (0)	80.0	4.66

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
1	MN	eP	13 44 37.5	Z	1.0	5.8 (0)	82.0	4.45
							AVG.	4.81
1	14 06 02.8		34.3 N 116.9 W				SAN BERNARDINO CY, CALIF.	
			H =033 KM		MAG	3.00-	PAS	
1	CP	eP	14 06 30.6	Z	0.3	52.5 (0)	1.5	
		eS	14 07 00	R	0.3	66.6 (0)		
1	MN	eP	14 07 06.8	Z	0.5	99.9 (9)	4.0	
		e	14 07 19	Z	0.5	5.6 (0)		
		eL	14 08 17	T	1.0	8.9 (0)		
1	CP	eP	17 54 43.5	Z	0.2	18.2 (0)	0.5	
		eS	17 54 50	T	0.3	28.9 (0)		
1	21 02 51.8		17.7 S 178.7 W				FIJI ISLANDS REGION	
			H =620 KM					
1	TF	eP	21 13 42.0	Z	0.9	54.9 (0)	77.0	5.00
1	MV	eP	21 13 49.0	Z	0.9	38.5 (0)	78.0	4.85
1	CP	eP	21 13 49.0	Z	0.7	35.1 (0)	78.0	4.92
1	MN	eP	21 13 57.6	Z	0.9	21.6 (0)	80.0	4.60
		epP	21 15 58	Z	1.3	4.7 (0)		
		esP	21 17 08	Z	1.0	4.1 (0)		
1	WI	eP	21 14 08.2	Z	0.9	73.0 (0)	82.0	5.20
		epP	21 17 22	Z	1.2	23.5 (0)		
1	FM	eP	21 14 19.6	Z	0.6	16.7 (0)	84.0	4.82
1	LC	eP	21 14 25.6	Z	0.7	25.7 (0)	85.0	4.96
		esP	21 17 51	Z	1.0	3.6 (0)		
							AVG.	4.91
1	CP	eP	21 48 32.6	Z	0.2	11.2 (0)	1.5	
		eS	21 48 53	T	0.3	31.0 (0)		
1	MN	eP	22 17 22.0	Z	0.5	10.0 (0)	3.6	
		eS	22 18 07	R	0.5	4.2 (0)		
2	00 41 39.7		34.3 N 117.0 W				SAN BERNARDINO CY, CALIF.	
			H =033 KM		MAG	4.25-4.50	PAS	
2	CP	eP	00 42 07.3	Z	999.9	99.9 (9)	1.7	
2	TF	eP	00 42 20.8	Z	0.5	7.9 (0)	2.6	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	00 43 05	LZ	15	79.3 (1)		
		eL	00 43 05	LR	15	45.3 (1)		
		eL	00 43 05	LT	15	99.9 (9)		
2	MN	eP	00 42 43.8	Z	0.3	3.6 (0)	4.3	4.18
		e	00 42 50	Z	0.5	99.9 (9)		
		eL	00 44 03	LR	25	32.7 (1)		
		eL	00 44 21	LZ	18	99.9 (1)		
		eL	00 44 21	LR	15	95.9 (1)		
		eL	00 44 21	LT	15	75.5 (1)		
2	MV	eP	00 43 08.0	Z	0.5	2.2 (0)	6.0	4.05
		eL	00 44 43	T	0.6	59.2 (0)		
		eL	00 44 52	LR	15	65.0 (1)		
		eL	00 44 52	LT	15	12.8 (2)		
2	FM	eP	00 43 11.8	Z	0.4	2.1 (0)	6.0	4.12
		e	00 43 31	Z	0.6	11.5 (0)		
		eL	00 44 52	R	0.6	17.4 (0)		
		eL	00 44 55	LT	15	18.9 (2)		
2	LC	eP	00 43 47.0	Z	0.9	2.8 (0)	9.0	4.49
		eL	00 46 13	R	1.4	54.6 (0)		
		eL	00 46 15	LT	17	44.2 (1)		
2	WI	eL	00 46 10	LZ	12	17.8 (2)	7.0	
2	DH	eL	00 59 20	LT	19	26.9 (1)	34.0	
		eL	01 02 01	LZ	19	26.3 (1)		
							AVG.	4.21
2	MN	eP	03 30 20.8	Z	0.3	15.6 (0)	1.0	
		eS	03 30 34	T	999.9	99.9 (9)		
2	MN	eP	03 36 50.1	Z	0.8	2.4 (0)		
2	05 30 53.8		09.9 S 159.9 E				SOLOMON ISLANDS	
			H =034 KM					
2	MV	eP	05 43 43.0	Z	0.9	2.5 (0)	88.0	4.45
		eLR	06 10 50	LZ	25	28.8 (1)		
		eL	06 18 25	LZ	20	64.4 (1)		
		eL	06 18 25	LR	18	31.6 (1)		
		eL	06 18 25	LT	18	41.7 (1)		
2	CP	eP	05 43 51.8	Z	1.0	4.4 (0)	90.0	4.61
		eLR	06 12 05	LZ	27	54.2 (1)		
2	MN	eP	05 43 52.0	Z	1.0	6.7 (0)	90.0	4.79
		e	05 44 35	Z	1.2	9.0 (0)		
		eLR	06 12 10	LZ	25	39.4 (1)		
		eL	06 19 30	LZ	18	84.4 (1)		
		eL	06 19 30	LR	20	59.0 (1)		
		eL	06 19 30	LT	18	30.5 (1)		
2	TF	eLR	06 11 35	LZ	25	30.1 (1)	88.0	
		eL	06 15 52	LZ	20	40.6 (1)		
		eL	06 15 52	LR	20	22.7 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	WI	eL	06 15 52	LT	999.9	99.9 (9)	91.0	
		eL	06 13 08	LT	20	18.9 (1)		
		eL	06 19 35	LZ	18	69.0 (1)		
		eL	06 19 35	LR	20	21.2 (1)		
2	FM	eL	06 19 35	LT	19	82.0 (1)	95.0	
		eLR	06 14 55	LZ	20	24.2 (1)		
		eL	06 22 32	LZ	18	70.9 (1)		
		eL	06 22 32	LR	20	44.6 (1)		
2	LC	eL	06 22 32	LT	18	43.0 (1)	99.0	
		eLR	06 15 50	LZ	35	42.0 (1)		
		eL	06 21 07	LZ	20	63.7 (1)		
		eL	06 21 07	LR	20	44.4 (1)		
2	SJ	eL	06 21 07	LT	18	23.1 (1)	112.0	
		eL	06 16 20	LT	20	59.0 (1)		
2	NG	eL	06 28 28	LR	22	34.9 (1)	112.0	
		eL	06 32 10	LR	18	56.5 (1)		
2	DH	eL	06 32 10	LT	22	32.6 (1)	123.0	
		eLR	06 30 45	LZ	30	20.3 (1)		
		eL	06 39 12	LZ	18	65.2 (1)		
		eL	06 39 12	LR	20	44.4 (1)		
				LT	20	10.0 (1)		
				AVG.				4.61
2	09 49 48.4	13.5 N 146.0 E	MARIANA ISLANDS					
		H = 067 KM						
2	MN eP	10 02 25.5	Z	0.9	2.5 (0)	86.0	4.22	
2	MN eP	12 24 53.0	Z	1.0	4.2 (0)			
2	MN eP	14 48 49.5	Z	1.2	10.3 (0)			
2	16 12 53.4	18.9 S 168.5 E	NEW HEBRIDES ISLANDS					
		H = 033 KM						
2	MN eP	16 25 48.2	Z	1.0	2.5 (0)	90.0	4.36	
2	MN eP	21 20 15.0	Z	0.8	1.9 (0)			
2	22 21 29.5	35.8 N 050.1 E	IRAN					
		H = 036 KM						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
2	23 36 23.7	35.5 N 050.1 E	IRAN					
		H = 033 KM						
3	LC eP	00 29 57.2	Z	0.9	4.6 (0)			
3	MN eP	10 16 39.3	Z	999.9	99.9 (9)	0.9		
		10 16 51	T	0.3	6.7 (0)			
3	WI eP	10 48 10.8	Z	0.4	4.5 (0)			
3	MN eP	10 48 22.5	Z	0.6	3.4 (0)			
3	LC eP	10 49 47.2	Z	0.6	6.0 (0)			
3	12 50 36.9	12.9 S 169.2 E	SANTA CRUZ ISLANDS REG.					
		H = 632 KM						
3	TF eP	13 01 56.5	Z	0.9	9.6 (0)	83.0	4.33	
3	CP eP	13 02 05.3	Z	0.8	12.1 (0)	84.0	4.55	
3	MN eP	13 02 07.5	Z	1.0	11.4 (0)	85.0	4.45	
3	WI eP	13 02 15.5	Z	1.0	8.7 (0)	86.0	4.41	
3	LC eP	13 02 41.7	Z	0.8	2.4 (0)	92.0	4.22	
							AVG.	4.39
3	WI eP	12 54 54.5	Z	0.4	5.2 (0)	0.9		
		12 55 07	R	0.5	99.9 (9)			
3	CP eP	13 10 56.5	Z	0.3	7.3 (0)	0.5		
		13 11 04	R	0.4	9.7 (0)			
3	CP eP	13 38 38.5	Z	0.3	5.2 (0)	0.8		
		13 38 49	T	0.4	6.9 (0)			
3	WI eP	13 48 53.4	Z	0.3	5.4 (0)	1.3		
		13 49 10	T	0.3	9.6 (0)			
3	WI eP	14 53 18.8	Z	0.3	3.1 (0)	2.8		
		14 53 54	T	0.5	7.2 (0)			
3	MN eP	14 55 05.0	Z	0.3	3.5 (0)	0.9		
		14 55 17	T	0.4	4.3 (0)			
3	WI eP	16 14 36.0	Z	0.2	3.1 (0)	1.4		
		16 14 53	R	0.4	8.6 (0)			
3	DH eP	17 12 18.2	Z	0.4	32.7 (0)	1.8		
		17 12 42	R	0.4	73.0 (0)			
3	CP eP	18 36 27.2	Z	0.3	10.5 (0)	1.4		
		18 36 45	R	999.9	99.9 (9)			
3	CP eP	20 38 08.3	Z	0.3	7.8 (0)	0.1		
		20 38 12	T	0.4	7.9 (0)			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
3	LC	eP	22 04 30.5	Z	1.0	4.8 (0)		
4	01 31	43.9	08.0 S 147.7 E H =091 KM				NEW GUINEA	
4	03 29	40.8	10.1 N 103.6 W H =033 KM				OFF COAST GUERRERO, MEXICO	
4	06 15	35.6	36.9 N 141.0 E H =077 KM				OFF COAST HONSHU, JAPAN	
4	07 23	04.2	21.8 S 065.6 W H =300 KM				SOUTHERN BOLIVIA	
4	SJ	eP	07 32 30.5	Z	0.7	65.7 (0)	58.0	5.27
		e	07 33 42	Z	1.5	89.6 (0)		
4	DH	eP	07 33 09.0	Z	0.8	34.2 (0)	64.0	5.13
4	LC	eP	07 33 24.4	Z	0.6	20.3 (0)	67.0	5.02
		epP	07 34 37	Z	0.8	5.7 (0)		
4	NG	eP	07 33 45.1	Z	0.7	17.6 (0)	70.0	4.90
4	CP	eP	07 34 02.5	Z	0.7	31.7 (0)	73.0	5.15
		epP	07 35 16	Z	0.9	11.5 (0)		
4	FM	eP	07 34 14.5	Z	0.7	52.7 (0)	75.0	5.37
		epP	07 35 27	Z	1.0	19.8 (0)		
4	TF	eP	07 34 24.5	Z	0.7	58.7 (0)	77.0	5.42
4	WI	eP	07 34 37.8	Z	0.8	82.1 (0)	79.0	5.61
		epP	07 35 51	Z	1.0	37.3 (0)		
4	MV	eP	07 34 41.8	Z	0.8	12.7 (0)	80.0	4.80
							AVG.	5.18
4	LC	eP	08 04 02.5	Z	0.9	16.8 (0)		
4	NG	eP	08 04 07.0	Z	0.5	8.3 (0)		
4	LC	e	08 04 54	Z	1.0	4.8 (0)		
4	08 16	18.8	36.1 N 123.5 E H =033 KM				YELLOW SEA	
4	SJ	eSKS	08 40 10	LT	18	64.2 (1)	98.0	
		e	08 41 47	LT	15	76.3 (1)		
		e	08 44 10	LT	18	85.6 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	LC	eP	08 43 23.3	Z	0.9	7.4 (0)		
4	NG	eP	09 37 07.5	Z	1.0	57.5 (0)		
4	10 34	27.8	06.1 S 149.9 E H =083 KM				NEW BRITAIN ISLAND	
4	TF	ePS	11 00 22	LR	22	36.4 (1)	94.0	
		eLR	11 17 42	LZ	25	12.2 (2)		
		eL	11 19 22	LZ	25	11.3 (2)		
		eL	11 19 22	LR	25	85.5 (1)		
		eL	11 19 22	LT	25	61.0 (1)		
4	LC	ePKKP	11 04 30	Z	0.8	2.1 (0)	104.0	
		eLR	11 23 08	LZ	30	88.2 (1)		
4	MV	eLR	11 17 05	LZ	28	89.0 (1)	92.0	
		eL	11 21 20	LZ	22	71.0 (1)		
		eL	11 21 20	LR	22	45.4 (1)		
		eL	11 21 20	LT	22	41.9 (1)		
4	MN	eLR	11 18 30	LZ	20	81.2 (1)	95.0	
		eL	11 20 40	LZ	25	79.6 (1)		
		eL	11 20 40	LR	25	56.7 (1)		
		eL	11 20 40	LT	25	42.3 (1)		
4	CP	eLR	11 18 45	LZ	28	11.0 (2)	96.0	
4	WI	eLR	11 19 00	LZ	25	42.5 (1)	97.0	
		eL	11 29 20	LZ	18	82.6 (1)		
		eL	11 29 20	LR	15	22.1 (1)		
		eL	11 29 20	LT	19	74.0 (1)		
4	FM	eLR	11 20 50	LZ	30	73.5 (1)	99.0	
		eL	11 25 37	LZ	22	58.9 (1)		
		eL	11 25 37	LR	22	23.6 (1)		
		eL	11 25 37	LT	20	41.2 (1)		
4	SJ	eLR	11 27 20	LR	27	13.7 (2)	112.0	
		eL	11 30 00	LZ	25	64.0 (1)		
		eL	11 30 00	LR	25	16.4 (2)		
		eL	11 30 00	LT	22	10.4 (2)		
4	NG	eLR	11 29 10	LZ	30	68.7 (1)	116.0	
		eL	11 36 57	LZ	20	46.5 (1)		
		eL	11 36 57	LR	22	40.8 (1)		
		eL	11 36 57	LT	20	24.3 (1)		
4	DH	eLR	11 33 40	LZ	35	32.0 (1)	126.0	
		eL	11 41 58	LZ	20	78.1 (1)		
		eL	11 41 58	LR	22	51.6 (1)		
		eL	11 41 58	LT	20	30.0 (1)		
4	LC	eP	10 46 52.6	Z	1.0	3.6 (0)		
4	WI	eP	11 29 31.5	Z	0.3	12.7 (1)	1.2	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	11 29 47	T	0.5	99.9 (9)		
4	MN	eP	12 02 31.4	Z	0.3	61.5 (0)	1.3	
4	WI	eP	12 02 39.8	Z	0.4	3.6 (0)	1.9	
		e	12 02 42	Z	0.5	26.2 (0)		
4	MN	eS	12 02 48	T	0.4	99.9 (9)	1.3	
4	WI	eS	12 03 06	T	0.5	86.0 (0)	1.9	
4	16 40 06.0		16.5 S 172.8 W H =033 KM			SAMOA ISLANDS REGION 5.00-5.25 PAL		
4	TF	eP	16 51 29.2	Z	1.0	20.8 (0)	69.0	5.18
		ePS	17 01 00	LR	22	16.2 (2)		
		e	17 09 50	LT	26	24.1 (2)		
		eLQ	17 12 50	LR	25	98.6 (1)		
		eLR	17 15 03	LZ	20	15.2 (2)		
		eL	17 22 05	LR	16	49.5 (2)		
		eL	17 22 05	LT	17	76.5 (1)		
4	CP	eP	16 51 30.6	Z	0.6	3.1 (0)	72.0	4.52
		eLR	17 13 28	LZ	25	88.3 (1)		
4	WI	eP	16 51 56.8	Z	999.9	99.9 (9)	77.0	
		eS	17 01 50	LR	18	12.0 (2)		
		eS	17 01 50	LT	20	18.7 (1)		
		eLQ	17 12 30	LR	24	15.8 (2)		
		eLR	17 17 20	LZ	18	82.6 (1)		
		eL	17 23 15	LZ	17	18.0 (2)		
		eL	17 23 15	LR	17	40.7 (1)		
		eL	17 23 15	LT	17	22.3 (2)		
4	FM	eP	16 52 10.5	Z	1.0	13.2 (0)	79.0	4.85
		eP	16 52 12	LZ	10	11.6 (1)		
		eS	17 02 15	LT	25	12.2 (2)		
		eS	17 02 15	LR	17	30.2 (1)		
		e	17 05 52	LT	22	48.7 (1)		
		eLQ	17 13 55	LT	20	14.9 (2)		
		eL	17 16 55	LZ	25	62.2 (1)		
		eLR	17 19 52	LZ	18	12.9 (2)		
		eL	17 26 25	LZ	17	27.4 (2)		
		eL	17 26 25	LR	18	17.7 (2)		
		eL	17 26 25	LT	15	64.4 (1)		
4	LC	eP	16 52 13.0	Z	1.0	8.4 (0)	80.0	4.59
		eS	17 02 22	LT	22	69.2 (1)		
		eS	17 02 22	LR	17	17.6 (2)		
		eSKS	17 03 00	LR	22	68.9 (1)		
		eLQ	17 14 10	LR	18	85.7 (1)		
		eLR	17 16 50	LZ	22	79.9 (1)		
		eL	17 22 25	LZ	18	25.4 (2)		
		eL	17 22 25	LR	18	13.3 (2)		
		eL	17 22 25	LT	18	11.9 (2)		
4	SJ	eP	16 52 44	LZ	15	37.9 (1)	86.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	17 03 17	LT	20	85.3 (1)		
		eL	17 25 00	LR	18	10.8 (2)		
4	MV	eS	17 01 15	LR	20	58.6 (1)	74.0	
		eS	17 01 15	LT	18	72.7 (1)		
		e	17 10 35	LR	25	11.6 (2)		
		eLR	17 16 12	LZ	18	69.5 (1)		
		eL	17 18 20	LZ	20	96.5 (1)		
		eL	17 18 20	LR	20	97.7 (0)		
		eL	17 18 20	LT	20	88.1 (1)		
4	MN	eS	17 01 27	LT	17	11.2 (2)	75.0	
		eS	17 01 27	LR	18	78.5 (1)		
		e	17 11 20	LR	22	14.2 (2)		
		eL	17 14 27	LZ	25	10.1 (2)		
		eLR	17 17 23	LZ	18	17.5 (2)		
		eL	17 23 45	LZ	17	24.7 (2)		
		eL	17 23 45	LR	17	10.3 (2)		
		eL	17 23 45	LT	15	31.9 (2)		
4	NG	eSKS	17 04 20	LR	15	56.1 (1)	98.0	
		ePPS	17 07 55	LR	17	29.4 (1)		
		eSS	17 11 40	LR	18	21.0 (1)		
		e	17 12 28	LR	18	30.0 (1)		
		eL	17 23 05	LT	23	11.4 (2)		
		eL	17 27 57	LR	22	61.2 (1)		
		eLR	17 31 03	LZ	18	57.3 (1)		
		eL	17 35 17	LZ	17	15.3 (2)		
		eL	17 35 17	LR	17	11.1 (2)		
4	DH	eSKS	17 05 10	LR	17	46.4 (1)	107.0	
		eS	17 06 32	LT	18	35.1 (1)		
		eSS	17 13 55	LR	22	56.8 (1)		
		e	17 24 40	LT	25	44.5 (1)		
		eLQ	17 30 25	LR	30	36.4 (1)		
		eLR	17 36 42	LZ	18	19.9 (2)		
							AVG.	4.78
4	17 49 59.4		39.8 N 104.7 W H =033 KM			COLORADO		
4	FM	eP	17 51 28.0	Z	0.5	2.4 (0)	6.0	4.10
		e	17 51 45	Z	0.5	9.9 (0)		
		eL	17 53 00	T	0.6	31.1 (0)		
4	LC	eP	17 52 12.2	Z	0.6	2.5 (0)	8.0	4.42
		eL	17 53 55	R	0.6	5.2 (0)		
4	NG	eP	17 55 34.8	Z	0.7	6.6 (0)	13.0	4.74
							AVG.	4.42
4	17 53 27.5		03.8 S 131.4 E H =033 KM			CERAM ISLAND REGION		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
4	18 46	01.6	44.6 N H =171 KM	147.9 E	KURILE ISLANDS			
4	19 31	31.5	04.9 N H =627 KM	122.8 E	CELEBES SEA			
4	MN	eL	21 35 30	LZ	32	35.8 (1)		
4	WI	eL	21 38 27	LZ	27	19.4 (1)		
4	MN	eL	21 38 40	LZ	25	37.6 (1)		
4	MN	eL	21 38 40	LR	25	13.8 (1)		
4	MN	eL	21 38 40	LT	25	28.6 (1)		
4	WI	eL	21 41 05	LZ	25	24.3 (1)		
4	WI	eL	21 41 05	LT	25	21.6 (1)		
4	TF	eL	21 41 38	LZ	20	52.8 (1)		
4	TF	eL	21 41 38	LR	22	46.3 (1)		
4	TF	eL	21 41 38	LT	25	33.8 (1)		
4	DH	eL	21 44 15	LZ	30	22.3 (1)		
4	DH	eL	21 58 55	LZ	22	62.2 (1)		
4	DH	eL	21 58 55	LR	22	41.3 (1)		
4	DH	eL	21 58 55	LT	15	15.6 (1)		
5	01 16	06.3	10.9 S H =033 KM	161.6 E	SOLOMON ISLANDS			
5	MN	eP	01 29 00.0	Z	0.7	3.8 (0)	89.0	4.70
		ePS	01 41 08	LR	18	27.2 (1)		
		eSS	01 46 15	LT	20	26.5 (1)		
		eLR	01 56 35	LZ	33	37.3 (1)		
		eL	02 07 03	LZ	17	26.1 (1)		
		eL	02 07 03	LR	18	30.3 (1)		
		eL	02 07 03	LT	17	20.3 (1)		
5	CP	eP	01 29 00.6	Z	999.9	99.9 (9)	89.0	
		eLR	01 56 32	LZ	33	60.7 (1)		
5	WI	eP	01 29 05.7	Z	0.7	2.1 (0)	90.0	4.46
		ePS	01 41 20	LT	22	29.9 (1)		
		eSS	01 46 23	LT	16	33.8 (1)		
		eSSS	01 50 04	LT	23	13.9 (1)		
		eLR	01 57 13	LZ	30	16.3 (1)		
		eL	02 03 17	LZ	18	26.5 (1)		
		eL	02 03 17	LR	20	67.9 (0)		
		eL	02 03 17	LT	20	30.0 (1)		
5	MV	eLR	01 55 30	LZ	32	37.4 (1)	88.0	
		eL	02 02 48	LZ	18	22.5 (1)		
		eL	02 02 48	LR	20	12.3 (1)		
		eL	02 02 48	LT	18	14.8 (1)		
5	FM	eLR	01 59 28	LZ	30	25.5 (1)	95.0	
		eL	02 08 03	LZ	18	34.5 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	02 08 03	LT	18	39.7 (1)		
		eL	02 08 03	LR	17	17.8 (1)		
5	NG	eLR	02 14 05	LZ	20	25.1 (1)	112.0	
5	DH	eLR	02 20 00	LZ	22	26.1 (1)	122.0	
						AVG.		4.58
5	05 11	11.2	17.7 S H =565 KM	178.6 W	FIJI ISLANDS REGION			
5	CP	eP	05 22 12.2	Z	0.7	5.7 (0)	78.0	4.11
5	MN	eP	05 22 21.3	Z	0.7	5.1 (0)	80.0	4.06
5	WI	eP	05 22 31.9	Z	0.7	7.1 (0)	81.0	4.24
						AVG.		4.24
5	CP	eP	09 41 38.9	Z	0.4	11.0 (0)	3.2	
		eS	09 42 19	T	0.4	12.2 (0)		
5	11 38	10.6	10.3 S H =050 KM	077.9 W	PERU			
5	SJ	eP	11 46 06.0	Z	999.9	99.9 (9)	43.0	
		eLR	11 59 55	LZ	26	55.9 (1)		
		eL	12 04 25	LZ	22	74.3 (1)		
		eL	12 04 25	LR	23	13.2 (2)		
		eL	12 04 25	LT	22	99.9 (9)		
5	DH	eP	11 47 21.3	Z	0.8	16.2 (0)	53.0	5.05
		eLR	12 07 21	LZ	23	29.8 (1)		
5	NG	eP	11 47 58.2	Z	0.7	4.2 (0)	58.0	4.58
		eLR	12 08 27	LZ	23	54.9 (1)		
5	FM	eP	11 48 05.5	Z	999.9	99.9 (9)	59.0	
		eLR	12 08 53	LZ	28	32.1 (1)		
		eL	12 12 03	LZ	18	64.7 (1)		
		eL	12 12 03	LR	17	23.7 (1)		
		eL	12 12 03	LT	19	73.3 (1)		
5	MN	eP	11 48 23.0	Z	0.7	2.9 (0)	61.0	4.47
		eLR	12 08 55	LZ	22	49.3 (1)		
		eL	12 10 52	LZ	22	49.3 (1)		
		eL	12 10 52	LR	21	43.9 (1)		
		eL	12 10 52	LT	18	27.9 (1)		
5	WI	eP	11 48 33.6	Z	0.7	4.9 (0)	63.0	4.64
		eLR	12 10 08	LZ	28	62.8 (1)		
		eL	12 13 57	LZ	21	88.9 (1)		
		eL	12 13 57	LR	22	69.9 (1)		
		eL	12 13 57	LT	20	38.0 (1)		
5	CP	eLR	12 06 30	LZ	23	84.3 (1)	57.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
5	TF	eLR	12 07 55	LZ	22	42.1 (1)	61.0	
		eL	12 11 18	LZ	20	39.3 (1)		
		eL	12 11 18	LR	21	39.1 (1)		
		eL	12 11 18	LT	21	51.0 (1)		
						AVG.		4.69
5	12 24 32.6		20.8 S 178.9 W			FIJI ISLANDS REGION		
			H =591 KM					AVG.
5	MN	eP	12 35 53.1	Z	0.7	3.4 (0)	82.0	3.98
5	WI	eP	12 36 03.6	Z	0.8	1.9 (0)	84.0	3.78
						AVG.		3.88
5	13 48 00.4		39.9 N 104.6 W			COLORADO		
			H =033 KM					
5	FM	eP	13 49 28.0	Z	0.5	2.3 (0)	6.0	4.07
		e	13 49 46	Z	0.5	16.4 (0)		
		eL	13 50 59	R	1.0	14.8 (1)		
		eL	13 51 08	LT	15	14.4 (2)		
5	WI	eP	13 50 22.0	Z	0.6	2.2 (0)	10.0	4.65
		eL	13 53 09	T	1.0	11.7 (0)		
5	MN	eP	13 50 40.0	Z	0.6	1.0 (0)	11.0	4.25
		eL	13 53 32	R	1.0	7.5 (0)		
5	NG	eP	13 51 07.6	Z	999.9	99.9 (9)	13.0	
		eL	13 55 14	T	0.6	15.4 (1)		
5	SJ	eP	13 52 07.0	Z	0.6	16.7 (0)	18.0	4.37
		eL	13 55 15	R	1.0	92.5 (0)		
5	MV	eL	13 54 20	LT	25	64.5 (1)	13.0	
5	DH	eL	14 00 07	LT	13	83.1 (1)	23.0	
						AVG.		4.33
5	MN	eP	15 13 02.5	Z	0.3	1.8 (0)	0.6	
		eS	15 13 11	R	0.5	6.9 (0)		
5	WI	eP	15 37 07.2	Z	0.3	3.5 (0)	0.8	
		eS	15 37 18	T	0.4	99.9 (9)		
6	02 13 25.1		30.7 N 142.0 E			SOUTH OF HONSHU, JAPAN		
			H =033 KM					
6	MN	eP	02 25 24.7	Z	0.6	1.7 (0)	79.0	4.20
		eL	02 50 00	LZ	28	11.1 (1)		
6	WI	eL	02 50 43	LZ	999.9	99.9 (9)	77.0	
6	TF	eLR	02 53 49	LZ	24	42.8 (1)	78.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	03 11 42	LZ	16	66.7 (1)		
		eL	03 11 42	LR	15	27.0 (1)		
		eL	03 11 42	LT	20	30.4 (1)		
6	SJ	eL	03 05 30	LR	20	76.5 (0)	98.0	
		eL	03 10 15	LZ	20	87.5 (0)		
		eL	03 10 15	LR	19	27.5 (1)		
		eL	03 10 15	LT	20	22.5 (1)		
						AVG.		4.20
6	03 45 37.4		20.7 S 071.9 W			NEAR COAST N. CHILE		
			H =060 KM					
6	SJ	eP	03 55 05.3	Z	999.9	99.9 (9)	55.0	
6	DH	eP	03 55 53.0	Z	999.9	99.9 (9)	62.0	
6	LC	eP	03 55 58.9	Z	1.0	16.0 (0)	63.0	4.98
		e	03 56 04	Z	1.0	8.6 (0)		
6	NG	eP	03 56 26.1	Z	0.6	7.2 (0)	67.0	4.90
6	FM	eP	03 56 49.5	Z	0.8	27.3 (0)	71.0	5.25
6	TF	eP	03 56 57.7	Z	0.9	25.8 (0)	72.0	5.17
6	MN	eP	03 57 03.9	Z	1.2	19.5 (0)	73.0	4.93
6	WI	eP	03 57 12.3	Z	1.0	74.7 (0)	75.0	5.55
						AVG.		5.13
6	04 04 09.8		49.0 N 154.3 E			KURILE ISLANDS		
			H =085 KM					
6	MV	eP	04 13 57.5	Z	1.0	18.5 (0)	58.0	5.06
		e	04 14 06	Z	0.8	4.9 (0)		
		epP	04 14 18	Z	0.6	7.0 (0)		
6	WI	eP	04 14 04.0	Z	0.6	10.1 (0)	59.0	5.02
		epP	04 14 23	Z	1.0	14.2 (0)		
		eLR	04 37 30	LZ	32	42.2 (1)		
6	MN	eP	04 14 14.3	Z	1.2	35.2 (0)	60.0	5.35
		e	04 14 23	Z	1.1	11.5 (0)		
		epP	04 14 33	Z	1.0	18.6 (0)		
6	TF	eP	04 14 20.8	Z	1.0	50.4 (0)	62.0	5.53
6	FM	eP	04 14 34.0	Z	0.6	10.3 (0)	64.0	4.98
		epP	04 14 54	Z	1.0	21.6 (0)		
6	NG	eP	04 15 20.0	Z	0.8	15.3 (0)	71.0	4.92
		epP	04 15 40	Z	0.7	12.8 (0)		
6	LC	eP	04 15 24.0	Z	1.2	18.1 (0)	71.0	4.82
		e	04 15 29	Z	0.6	2.5 (0)		
		epP	04 15 45	Z	0.9	8.5 (0)		
6	DH	eP	04 16 07.1	Z	0.7	30.5 (0)	79.0	5.26
		epP	04 16 28	Z	0.7	30.5 (0)		
6	SJ	eL	04 43 30	LZ	30	11.9 (1)	80.0	
		eL	04 43 30	LR	33	27.9 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	04 43 30	LT	25	11.1 (1)	AVG.	5.12
6	06 44 17.0		45.6 S 073.4 W H =033 KM				NEAR COAST OF S. CHILE	
6	SJ	eP	06 56 04.5	Z	1.0	49.1 (0)	77.0	5.49
		eL	07 21 04	LR	25	22.7 (1)		
		eL	07 22 55	LR	24	32.8 (1)		
		eL	07 22 55	LT	15	30.8 (1)		
6	LC	eP	06 56 41.5	Z	1.2	24.6 (0)	83.0	5.21
		eL	07 27 12	LZ	20	28.3 (1)		
		eL	07 27 35	LZ	17	60.2 (1)		
		eL	07 27 35	LT	18	46.8 (1)		
6	FM	eP	06 57 21.0	Z	1.0	9.2 (0)	81.0	4.70
		eLR	07 29 34	LZ	25	18.3 (1)		
6	TF	eLR	07 27 30	LZ	20	73.3 (1)	91.0	
		eL	07 28 20	LZ	20	73.3 (1)		
		eL	07 28 20	LR	15	32.4 (1)		
		eL	07 28 20	LT	21	43.8 (1)		
6	MN	eLR	07 28 50	LZ	25	21.1 (1)	93.0	
		eL	07 31 36	LR	14	23.2 (1)		
		eL	07 31 36	LT	20	16.2 (1)		
6	MV	eLR	07 29 25	LZ	20	11.6 (1)	95.0	
		eL	07 31 30	LZ	20	33.3 (1)		
		eL	07 31 30	LR	21	13.0 (1)		
		eL	07 31 30	LT	21	18.8 (1)		
6	WI	eLR	07 30 50	LZ	25	23.5 (1)	95.0	
							AVG.	5.13
6	WI	eP	07 19 50.5	Z	1.0	4.3 (0)		
6	MN	eP	07 19 54.5	Z	1.0	10.1 (0)		
6	08 52 46.8		53.5 N 153.5 E H =480 KM				SEA OF OKHOTSK	
6	WI	eP	09 01 52.1	Z	0.4	2.2 (0)	58.0	3.87
		ePCP	09 02 38	Z	0.8	1.9 (0)		
		epP	09 03 30	Z	0.8	1.9 (0)		
6	LC	eP	09 03 10.1	Z	0.6	3.0 (0)	70.0	4.03
6	DH	eP	09 03 43.9	Z	0.7	25.4 (0)	76.0	4.90
							AVG.	4.26
6	10 08 08.0		53.1 N 169.3 W H =033 KM				FOX-ALEUTIAN ISLANDS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
6	LC	eP	10 16 52.4	Z	0.8	2.9 (0)	49.0	4.32
		e	10 17 11	Z	1.0	4.9 (0)		
6	DH	eP	10 18 14.0	Z	0.6	17.1 (0)	60.0	5.28
							AVG.	4.80
6	11 28 11.9		22.0 S 113.7 W H =033 KM				EASTER ISLAND REGION	
6	LC	eP	11 37 41.0	Z	1.4	14.6 (0)	55.0	4.82
6	WI	eP	11 38 39.1	Z	1.2	11.8 (0)	63.0	4.82
		eLR	11 58 39	LZ	35	20.5 (1)		
6	SJ	eLR	11 55 01	LR	25	17.6 (1)	52.0	
		eL	11 56 45	LZ	18	18.7 (1)		
		eL	11 56 45	LR	20	51.0 (1)		
		eL	11 56 45	LT	20	16.8 (1)		
6	MN	eLR	11 57 40	LZ	28	22.3 (1)	61.0	
		eL	11 58 50	LZ	20	17.0 (1)		
		eL	11 58 50	LR	21	11.5 (1)		
		eL	11 58 50	LT	20	20.3 (1)		
6	MV	eLR	11 58 05	LZ	23	24.8 (1)	62.0	
							AVG.	4.82
6	FM	eP	16 05 53.4	Z	0.8	40.1 (0)	1.2	
		e	16 06 04	R	0.5	16.9 (0)		
		eS	16 06 08	R	0.9	83.8 (0)		
6	17 16 08.5		55.0 N 161.7 E H =033 KM				NEAR E. COAST KAMCHATKA	
6	17 55 18.5		03.7 S 131.4 E H =033 KM				CERAM ISLAND REGION	
6	LC	eP	21 29 10.0	Z	0.3	10.9 (0)	4.1	
		eS	21 30 00	T	0.4	19.0 (0)		
6	22 36 45.8		34.0 S 071.1 W H =088 KM				NEAR COAST CENTRAL CHILE	
6	LC	eP	22 48 09.9	Z	0.6	1.5 (0)	74.0	4.14
7	00 06 23.9		10.8 S 164.0 E H =100 KM				SOLOMON ISLANDS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	07 27	45.4	15.3 N H = 149 KM	061.2 W	LEEWARD ISLANDS			
7	LC	eP epP	07 35 43.8 07 36 18	Z Z	0.7 0.8	1.8 (0) 2.8 (0)	44.0	3.91
7	09 36	01.5	38.0 N H = 033 KM	106.3 E	CENTRAL CHINA			
7	MV	eP	09 49 08.4	Z	0.7	4.3 (0)	92.0	4.89
7	12 55	34.6	30.7 S H = 368 KM	179.3 W	KERMADEC ISLANDS			
7	14 03	37.0	29.2 N H = 411 KM	139.2 E MAG	BONIN ISLANDS REGION 6.75-7.00 BRK			
7	MV	eP eP epP epP esP eS eS eSP e e eSS esSS ePKKP eL eP'P' eLR	14 14 56.5 14 14 58 14 16 29 14 16 29 14 17 21 14 24 19 14 24 22 14 25 11 14 26 32 14 27 41 14 29 40 14 32 10 14 33 48 14 35 21 14 41 46 14 42 05	Z LZ Z LZ Z R LR Z LT LR LR Z LZ Z	999.9 20 1.4 23 1.7 3.5 999.9 2.3 26 34 21 21 1.0 24 1.3	99.9 (9) 23.0 (2) 12.6 (1) 18.9 (2) 17.1 (1) 37.8 (2) 99.9 (9) 16.0 (1) 34.2 (2) 53.3 (2) 36.7 (2) 22.4 (2) 8.8 (0) 35.2 (2) 16.9 (0)	79.0	
7	WI	eP eP epP epP esP ePP ePP eS eS eS ePKKP eP'P'	14 15 04.9 14 15 07 14 16 33 14 16 39 14 17 24 14 18 10 14 18 13 14 24 35 14 24 35 14 24 37 14 33 46 14 41 27	Z LZ LZ Z LZ LZ Z R T LT Z Z	1.0 19 20 1.2 25 17 1.5 2.5 3.0 999.9 1.0 1.4	40.8 (1) 99.9 (9) 20.6 (2) 16.9 (1) 17.9 (2) 20.7 (2) 19.4 (1) 55.2 (1) 72.0 (1) 99.9 (9) 16.5 (0) 39.4 (0)	80.0	6.07

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
7	MN	eSKPP' eP eP epP eS esSS	14 44 25 14 15 10.7 14 15 12 14 16 40 14 24 40 14 32 28	Z Z LZ LZ LR LR	1.2 1.1 20 21 999.9 999.9	16.9 (0) 37.2 (1) 99.9 (9) 35.6 (2) 99.9 (9) 99.9 (9)	81.0	6.00
7	TF	eP eP epP epP esP ePP ePP eS eS eS e e e eSS esSS eLQ	14 15 12.1 14 15 14 14 16 45 14 16 48 14 17 27 14 18 22 14 18 29 14 24 50 14 24 50 14 24 53 14 25 05 14 25 32 14 28 03 14 30 30 14 32 35 14 36 00	Z LZ LZ Z LZ Z LZ R T LR T R LT LR LR LR	1.0 16 16 999.9 22 1.1 17 3.0 3.0 999.9 3.0 5.0 26 27 28 21	44.5 (1) 43.9 (2) 34.7 (2) 99.9 (9) 25.6 (2) 83.4 (0) 17.3 (2) 21.3 (2) 13.3 (2) 99.9 (9) 10.6 (2) 34.0 (2) 41.7 (2) 33.4 (2) 25.4 (2) 30.3 (2)	82.0	6.12
7	FM	eP eP epP epP esP ePP ePP eSKS eSKS eS eS eSS e ePKKP eLQ eLR eL eL eL	14 15 28.0 14 15 30 14 17 02 14 17 03 14 17 47 14 18 45 14 18 47 14 25 14 14 25 15 14 25 23 14 25 23 14 29 50 14 32 38 14 33 34 14 37 25 14 39 45 14 41 35 14 41 35 14 41 35	Z LZ Z LZ LZ LZ Z T LT R T LR LT Z LR LZ LZ LR LT	1.0 19 2.0 18 25 23 2.3 4.0 999.9 3.5 4.0 29 30 0.7 31 26 999.9 20 1.0 18 20 1.5 24 Z Z 24 T T 999.9	38.3 (1) 15.1 (2) 53.2 (1) 19.8 (2) 13.2 (2) 15.0 (2) 45.1 (1) 30.0 (2) 99.9 (9) 41.2 (2) 24.0 (2) 34.3 (2) 36.1 (2) 7.0 (0) 54.6 (2) 99.9 (9) 99.9 (9) 34.2 (2) 28.1 (2)	85.0	6.16
7	CP	eP eP epP epP esP esP ePP ePP eS eS eS ePKKP eSKS	14 15 31.0 14 15 34 14 17 05 14 17 07 14 17 48 14 17 54 14 18 53 14 18 58 14 25 18 14 25 18	Z LZ LZ Z LZ Z LZ LZ T T LT	1.0 18 20 1.5 24 1.5 2.0 24 3.4 999.9	57.3 (1) 22.2 (2) 19.7 (2) 29.2 (1) 16.8 (2) 17.1 (1) 36.5 (1) 19.6 (2) 12.1 (2) 99.9 (9)	86.0	6.33

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	14 25 28	R	2.0	40.6 (1)		
		eS	14 25 28	T	2.1	42.2 (1)		
		eSP	14 26 25	LZ	18	62.4 (2)		
		e	14 27 25	LZ	25	32.4 (2)		
		esSP	14 29 10	LZ	30	21.7 (2)		
		eSS	14 31 18	LT	23	54.5 (2)		
		ePKKP	14 33 31	Z	0.9	8.9 (0)		
		esSS	14 33 50	LT	29	29.2 (2)		
		eL	14 37 30	LZ	24	26.0 (2)		
		eLR	14 39 42	LZ	999.9	99.9 (9)		
		eP'P'	14 41 35	Z	1.4	27.8 (0)		
		eSKPP'	14 44 17	Z	1.8	41.7 (0)		
		eL	14 47 10	LZ	23	51.0 (2)		
		eL	14 47 10	LR	20	12.6 (2)		
		eL	14 47 10	LT	22	21.5 (2)		
7	LC	eP	14 16 03.2	Z	999.9	99.9 (9)	92.0	
		eP	14 16 06	LZ	20	10.0 (2)		
		epP	14 17 41	Z	2.0	31.8 (1)		
		epP	14 17 41	LZ	19	13.7 (2)		
		esP	14 18 27	LZ	25	25.2 (2)		
		ePP	14 19 49	Z	2.3	72.8 (1)		
		ePP	14 19 53	LZ	22	18.1 (2)		
		eSKS	14 26 00	R	2.7	80.1 (1)		
		eSKS	14 26 02	LR	21	98.3 (2)		
		eS	14 26 31	R	3.5	56.0 (1)		
		eSP	14 27 46	Z	3.5	40.4 (1)		
		eSP	14 27 50	LZ	21	72.6 (2)		
		e	14 28 45	LZ	22	46.2 (2)		
		e	14 29 16	Z	4.5	63.0 (1)		
		eSS	14 33 05	LT	23	25.7 (2)		
		ePKKP	14 33 16	Z	1.0	12.1 (0)		
		epPKKP	14 33 56	Z	1.1	11.9 (0)		
		esSS	14 35 18	LT	28	22.2 (2)		
		eLQ	14 38 58	LT	26	26.5 (2)		
		eP'P'	14 41 24	Z	999.9	99.9 (9)		
		eLR	14 42 00	LZ	999.9	99.9 (9)		
7	NG	eP	14 16 11.1	Z	0.9	23.4 (0)	94.0	5.22
		eP	14 16 14	LZ	20	71.1 (1)		
		epP	14 17 45	Z	1.2	40.1 (0)		
		epP	14 17 46	LZ	19	12.0 (2)		
		esP	14 18 30	LZ	22	93.0 (1)		
		ePP	14 20 00	Z	1.6	23.9 (1)		
		ePP	14 20 07	LZ	19	28.3 (2)		
		eSKS	14 26 03	T	1.4	31.6 (1)		
		eSKS	14 26 05	LT	999.9	99.9 (9)		
		eS	14 26 40	R	1.8	24.8 (1)		
		eS	14 26 40	T	1.7	14.7 (1)		
		eS	14 26 40	LR	19	99.9 (9)		
		eSP	14 27 55	LZ	21	42.6 (2)		
		eSP	14 27 59	Z	2.0	16.3 (1)		
		ePS	14 28 48	LT	17	71.7 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
		esS	14 29 22	LR	25	40.7 (2)			
		esPS	14 30 40	LT	23	20.0 (2)			
		eSS	14 33 15	LR	23	70.1 (2)			
		esSS	14 35 40	LT	23	15.6 (2)			
		eLQ	14 38 50	LR	19	41.4 (2)			
		eLR	14 42 37	LZ	999.9	99.9 (9)			
		eL	14 49 28	LZ	22	13.2 (2)			
		eL	14 49 28	LR	22	42.7 (2)			
		eL	14 49 28	LT	20	18.2 (2)			
7	SJ	eP	14 16 49.9	Z	1.0	20.6 (0)	103.0	5.81	
		eP	14 16 50	LZ	17	10.4 (2)			
		epP	14 18 19	LZ	16	16.4 (2)			
		epP	14 18 22	Z	2.0	25.7 (1)			
		esP	14 19 02	LZ	25	80.9 (1)			
		ePP	14 20 55	Z	2.1	58.9 (1)			
		ePP	14 20 55	LZ	15	45.2 (2)			
		eSKS	14 26 44	R	4.0	27.6 (2)			
		eSKS	14 26 45	LR	999.9	99.9 (9)			
		eSKKS	14 27 22	R	4.0	27.6 (2)			
		eS	14 27 51	R	3.5	19.1 (2)			
		eLR	14 44 53	LZ	999.9	99.9 (9)			
7	DH	eSKS	14 26 46	T	2.5	54.1 (1)	102.0		
		eSKS	14 26 47	LT	20	30.7 (2)			
		eS	14 27 50	LR	21	37.9 (2)			
		eS	14 27 50	LT	20	15.3 (2)			
		e	14 29 20	LT	20	24.0 (2)			
		eSS	14 35 14	LR	26	60.2 (2)			
		e	14 37 55	LR	29	27.0 (2)			
							AVG.	5.96	
7	23 55	03.0	13.9 N 120.6 E	COAST CENTRAL LUZON; P. I.					
			H = 178 KM						
8	01 43	43.8	62.6 N 151.6 W	CENTRAL ALASKA					
			H = 033 KM						
8	MN	eP	01 50 06.2	Z	0.7	2.5 (0)	32.0	4.19	
8	MN	eP	05 22 41.5	Z	0.3	2.4 (0)	1.7		
		eS	05 23 05	R	0.5	14.3 (0)			
8	MN	eP	07 22 28.0	Z	0.3	3.6 (0)	1.5		
		eS	07 22 47	R	0.4	4.0 (0)			
8	09 02	54.4	36.5 N 055.0 E	NORTHERN IRAN					
			H = 033 KM						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MN	eP eS	10 12 50.0 10 13 07	Z T	0.3 0.5	5.5 (0) 6.8 (0)	1.3	
8	CP	eP eS	11 07 42.5 11 08 03	Z R	0.3 0.3	6.1 (0) 46.9 (0)	1.5	
8	MN	eP	11 18 17.0	Z	1.0	3.4 (0)		
8	11 28 23.3		04.9 S 154.0 E H = 100 KM				NEW BRITAIN REGION	
8	LC	ePP	11 46 36	Z	1.0	6.0 (0)	101.0	
8	MN	eP	11 48 18.2	Z	0.8	2.0 (0)		
8	14 19 00.1		37.1 N 095.5 E H = 033 KM				TSINGHAI PROVINCE, CHINA	
8	18 00 41.1		23.6 S 069.4 W H = 100 KM				NEAR COAST OF N. CHILE	
8	DH	eP epP	18 11 16.9 18 11 39	Z Z	0.7 0.8	20.4 (0) 36.5 (0)	66.0	5.36
8	LC	eP epP ePCP	18 11 20.0 18 11 43 18 11 53	Z Z Z	1.0 1.2 1.0	21.8 (0) 16.8 (0) 21.8 (0)	66.0	5.24
8	CP	eP	18 11 56.2	Z	0.9	15.4 (0)	72.0	5.03
8	FM	eP epP	18 12 10.1 18 12 33	Z Z	0.9 1.4	24.5 (0) 59.1 (0)	74.0	5.16
8	TF	eP	18 12 18.9	Z	1.0	33.6 (0)	76.0	5.32
8	MN	eP epP	18 12 25.0 18 12 47	Z Z	0.9 1.0	11.8 (0) 8.5 (0)	77.0	4.92
8	WI	eP epP	18 12 33.3 18 12 57	Z Z	1.0 1.1	65.4 (0) 44.5 (0)	79.0	5.54
8	MV	eP epP	18 12 37.0 18 13 00	Z Z	1.0 1.2	9.2 (0) 17.0 (0)	79.0	4.70
							AVG.	5.16
8	18 18 29.1		15.2 S 173.7 W H = 033 KM				TONGA ISLANDS REGION	
8	TF	eP	18 29 47.9	Z	2.0	68.2 (1)	71.0	6.33

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	tP	18 29 54.5D	Z	1.9	52.6 (1)	73.0	6.24
8	MV	eP eS e eLR	18 29 56.0 18 39 20 18 39 20 18 48 50 18 51 15	Z LR LT LT LZ	1.5 30 13 24 999.9	25.0 (1) 15.7 (2) 24.0 (2) 87.3 (1) 99.9 (9)	73.0	6.02
8	MN	tP eP ePP eS eP'P'	18 30 05.4D 18 30 06 18 32 45 18 39 41 18 57 43	Z LZ LZ T Z	999.9 999.9 20 4.5 2.5	99.9 (9) 99.9 (9) 30.8 (1) 48.1 (1) 10.7 (1)	74.0	
8	WI	eP eP'P'	18 30 17.5 18 57 55	Z Z	999.9 2.0	99.9 (9) 28.2 (0)	77.0	
8	FM	tP eP eS eS eLQ eLR	18 30 30.3D 18 30 32 18 40 32 18 40 32 18 51 15 18 53 55	Z LZ LR LT LT LZ	1.9 21 21 20 30 999.9	96.5 (1) 75.2 (1) 22.0 (2) 11.8 (2) 26.0 (2) 99.9 (9)	79.0	6.43
8	LC	eP eP eS eS eSS eLR eL eL eL	18 30 35.5 18 30 37 18 40 40 18 40 40 18 46 05 18 54 25 18 56 53 18 56 53 18 56 53	Z LZ LR LT LR LZ LZ LR LT	0.8 999.9 18 18 20 23 23 23 23	10.3 (1) 99.9 (9) 37.6 (2) 22.2 (2) 14.6 (2) 99.9 (9) 99.9 (9) 46.5 (2) 86.4 (2)	80.0	5.77
8	NG	eP e	18 32 02.0 18 32 14	Z Z	1.3 1.2	97.3 (0) 15.5 (1)	98.0	6.30
8	DH	e eSKS ePS e eLR eL eL eL	18 42 04 18 43 19 18 46 20 18 47 15 19 07 20 19 15 00 19 15 00 19 15 00	LR LR LR LZ LZ LZ LR LT	25 19 25 23 999.9 999.9 21 21	16.0 (2) 13.9 (2) 17.0 (2) 11.3 (2) 99.9 (9) 99.9 (9) 75.3 (2) 14.4 (2)	107.0	
8	SJ	eLR	18 57 10	LZ	999.9	99.9 (9)	85.0	
							AVG.	6.18
8	21 27 22.2		25.8 S 063.4 W H = 620 KM				ARGENTINA	
8	SJ	eP eP e epP esP	21 36 52.0 21 36 53 21 38 43 21 39 19 21 39 42	Z LZ LZ Z Z	999.9 999.9 999.9 1.5 1.2	99.9 (9) 99.9 (9) 99.9 (9) 72.9 (1) 39.4 (1)	63.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSP	21 39 55	LZ	999.9	99.9 (9)		
		e	21 41 53	LZ	999.9	99.9 (9)		
		eS	21 44 38	T	3.0	45.6 (2)		
		eS	21 44 38	R	2.7	41.0 (2)		
		e	21 45 32	LR	999.9	99.9 (9)		
		eSCS	21 45 51	T	3.3	99.9 (9)		
		esS	21 48 05	T	3.4	41.2 (2)		
		eP!P!	22 05 11	Z	1.0	8.5 (0)		
		eP!P!	22 05 47	Z	1.6	23.5 (1)		
		eSKPP!	22 08 13	Z	1.5	12.5 (1)		
8	DH	eP	21 37 26.5	Z	999.9	99.9 (9)	69.0	
		eP	21 37 27	LZ	18	27.9 (2)		
		e	21 38 58	LZ	18	43.3 (1)		
		epP	21 39 26	Z	1.6	92.2 (1)		
		ePP	21 40 25	LZ	999.9	99.9 (9)		
		eS	21 45 44	R	3.0	75.3 (2)		
		eS	21 45 44	T	3.0	23.0 (2)		
		eS	21 45 45	LR	999.9	99.9 (9)		
		esS	21 49 10	LR	999.9	99.9 (9)		
		eSS	21 50 08	LR	999.9	99.9 (9)		
		eP!P!	22 05 30	Z	1.2	31.6 (0)		
		eSKPP!	22 07 44	Z	1.5	60.5 (0)		
8	LC	iP	21 37 41.5C	Z	999.9	99.9 (9)	71.0	
		eP	21 37 43	LZ	19	70.7 (2)		
		e	21 39 17	LZ	22	99.9 (9)		
		epP	21 39 40	Z	1.1	62.9 (0)		
		e	21 42 56	Z	1.0	24.2 (0)		
		eS	21 46 13	T	2.0	27.0 (1)		
		eS	21 46 13	R	1.7	12.0 (1)		
		eS	21 46 13	LT	999.9	99.9 (9)		
		eSP	21 46 52	Z	2.0	25.7 (1)		
		eSPP	21 47 20	Z	2.0	21.2 (1)		
		e	21 49 00	LR	23	82.9 (2)		
		esS	21 49 34	T	4.0	69.3 (1)		
		esSS	21 54 00	LT	31	99.9 (9)		
		e	21 59 37	LT	23	99.9 (9)		
		eP!P!	22 05 25	Z	1.3	56.0 (0)		
		eSKPP!	22 08 15	Z	1.5	64.2 (0)		
		e	22 14 26	Z	1.0	7.2 (0)		
8	NG	eP	21 38 01.0	Z	1.0	42.5 (1)	75.0	5.92
		eP	21 38 01	LZ	10	95.0 (1)		
		e	21 40 15	LZ	22	99.9 (9)		
		epP	21 40 44	Z	1.1	24.9 (1)		
		epP	21 40 50	LZ	999.9	99.9 (9)		
		eS	21 46 48	R	2.0	57.7 (1)		
		eS	21 46 48	T	2.2	54.4 (1)		
		eS	21 46 50	LR	999.9	99.9 (9)		
		eS	21 46 50	LT	999.9	99.9 (9)		
		e	21 47 17	R	2.5	23.1 (2)		
		e	21 50 00	LT	999.9	99.9 (9)		
		eSKPP!	22 08 03	Z	1.5	17.8 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	CP	iP	21 38 15.3C	Z	999.9	99.9 (9)	77.0	
		iP	21 38 17.3C	LZ	17	99.9 (9)		
		epP	21 40 13	LZ	999.9	99.9 (9)		
		epP	21 40 21	Z	1.0	77.5 (0)		
		ePP	21 41 23	LZ	31	99.9 (9)		
		ePPP	21 43 15	LZ	22	27.7 (2)		
		eS	21 47 19	R	3.5	97.4 (1)		
		eS	21 47 19	T	3.5	38.9 (1)		
		eS	21 47 20	LR	999.9	99.9 (9)		
		eSCS	21 47 38	R	4.0	16.8 (2)		
		esS	21 50 25	LT	999.9	99.9 (9)		
		esSS	21 55 22	LT	999.9	99.9 (9)		
		ePKKP	21 57 04	Z	1.1	7.0 (0)		
		eLR	21 59 23	LZ	999.9	99.9 (9)		
		eP!P!	22 05 00	Z	1.2	11.0 (0)		
		eSKPP!	22 07 42	Z	1.5	50.7 (0)		
8	TF	eP	21 38 35.5	Z	0.8	99.9 (9)	81.0	
		epP	21 40 41	Z	1.0	75.6 (0)		
		eS	21 47 59	T	3.0	19.0 (2)		
		eS	21 47 59	R	2.3	58.6 (1)		
		eP!P!	22 05 14	Z	1.2	32.3 (0)		
		eSKPP!	22 07 40	Z	1.2	19.3 (0)		
8	MN	iP	21 38 40.5C	Z	999.9	99.9 (9)	82.0	
		eP	21 38 42	LZ	999.9	99.9 (9)		
		epP	21 40 46	Z	1.0	29.1 (0)		
		epPP	21 43 51	Z	1.5	80.7 (0)		
		eS	21 48 08	R	2.5	37.3 (1)		
		eS	21 48 08	T	3.0	61.7 (1)		
		eSKS	21 48 15	T	2.3	99.9 (9)		
		e	21 49 15	R	2.2	26.2 (1)		
		ePKKP	21 57 05	Z	0.8	14.2 (0)		
		eP!P!	22 05 03	Z	1.4	24.5 (0)		
		eSKPP!	22 07 21	Z	1.6	20.7 (0)		
		e	22 11 53	Z	5.5	98.5 (1)		
		eP!P!P!	22 25 00	Z	1.0	3.4 (0)		
8	WI	iP	21 38 48.4C	Z	999.9	99.9 (9)	84.0	
		eP	21 38 49	LZ	999.9	99.9 (9)		
		e	21 40 45	LZ	999.9	99.9 (9)		
		epP	21 40 54	Z	1.1	86.3 (0)		
		esP	21 42 04	Z	1.0	58.6 (0)		
		epPP	21 44 11	Z	1.0	38.3 (0)		
		eSKS	21 48 24	R	2.5	70.3 (1)		
		eS	21 48 34	R	1.5	18.3 (1)		
		eSP	21 49 26	Z	3.0	94.0 (1)		
		esS	21 52 15	T	6.0	24.2 (2)		
		ePKKP	21 57 03	Z	1.0	49.6 (0)		
		eP!P!	22 05 07	Z	1.3	47.7 (0)		
		eSKPP!	22 07 35	Z	1.5	66.3 (0)		
		eP!P!P!	22 25 11	Z	1.0	2.2 (0)		
		e	22 27 20	Z	2.2	65.8 (0)		
		e	22 27 49	Z	2.0	49.3 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
8	MV	eP	21 38 51.8	Z	0.8	46.0 (0)	84.0	5.13
		eP	21 38 54	LZ	20	99.9 (9)		
		e	21 40 40	LZ	999.9	99.9 (9)		
		epP	21 41 02	Z	1.2	62.6 (0)		
		esP	21 42 00	LZ	999.9	99.9 (9)		
		e	21 43 40	LZ	999.9	99.9 (9)		
		e	21 48 25	LT	999.9	99.9 (9)		
		e	21 48 30	T	4.5	30.5 (2)		
		e	21 50 32	LT	17	18.9 (2)		
		esSS	21 51 33	LT	20	11.5 (2)		
		ePKKP	21 56 59	Z	1.2	10.8 (1)		
		eSSS	21 57 55	LR	999.9	99.9 (9)		
		e	21 58 52	LT	32	47.3 (2)		
		eP!P!	22 05 05	Z	1.2	45.5 (0)		
		eSKPP!	22 07 30	Z	1.0	14.8 (0)		
							AVG.	5.53

8 22 55 01.2 50.5 N 176.8 W ANDREANOF-ALEUTIAN ISLANDS
H =033 KM

8	MV	eP	23 02 35.0	Z	1.0	92.5 (0)	40.0	5.43
		e	23 02 46	Z	0.8	28.4 (0)		
		ePCP	23 04 39	Z	1.1	68.5 (0)		
		eLR	23 12 00	LZ	20	21.2 (2)		
		eL	23 15 45	LZ	22	25.3 (2)		
		eL	23 15 45	LR	21	15.3 (2)		
		eL	23 15 45	LT	19	17.5 (2)		
8	WI	eP	23 02 45.5	Z	1.0	49.6 (0)	41.0	5.22
		e	23 02 55	Z	999.9	99.9 (9)		
		ePCP	23 04 43	Z	1.2	76.4 (0)		
8	MN	eP	23 02 55.2	Z	999.9	99.9 (9)	43.0	
		ePCP	23 04 52	Z	1.2	50.1 (0)		
		e	23 12 55	R	2.0	41.4 (0)		
8	TF	eP	23 03 03.0	Z	1.1	16.5 (1)	43.0	5.67
8	FM	eP	23 03 21.6	Z	1.5	49.0 (1)	46.0	6.24
8	CP	eP	23 03 32.1	Z	1.1	94.0 (0)	47.0	5.73
		ePCP	23 05 01	Z	1.2	61.8 (0)		
8	LC	eP	23 04 20.7	Z	1.0	99.9 (9)	54.0	
		e	23 04 31	Z	1.3	74.6 (0)		
		eLR	23 25 08	LZ	20	24.5 (2)		
		eL	23 26 45	LZ	18	27.6 (2)		
		eL	23 26 45	LR	23	23.2 (2)		
		eL	23 26 45	LT	25	19.8 (2)		
8	NG	eP	23 04 35.5	Z	1.0	44.5 (1)	56.0	6.44
		e	23 05 53	Z	1.2	12.4 (1)		
8	SJ	eP	23 05 21.1	Z	1.4	52.9 (1)	62.0	6.51
		e	23 05 45	Z	1.4	28.4 (1)		
8	DH	eP	23 05 41.0	Z	999.9	99.9 (9)	65.0	
							AVG.	5.89

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	SJ	eP	03 29 05.4	Z	0.7	4.7 (0)		
9	LC	eP	03 30 25.6	Z	0.9	3.7 (0)		
9	CP	eP	03 31 21.4	Z	0.6	1.2 (0)		
9	FM	eP	03 31 53.9	Z	1.0	3.5 (0)		
9	MN	eP	03 32 14.9	Z	1.1	4.2 (0)		
9	WI	eP	03 32 30.8	Z	0.7	3.6 (0)		
9	SJ	eL	03 32 51	R	0.9	18.4 (0)		
9	07 30 12.2		05.4 S 147.9 E				NEAR N. COAST NEW GUINEA	
			H =173 KM					
9	10 17 39.5		43.5 N 147.3 E				KURILE ISLANDS REGION	
			H =034 KM					
9	MN	eP	13 14 03.5	Z	1.0	1.7 (0)		

9 14 16 05.2 22.4 S 177.0 W TONGA ISLANDS REGION
H =204 KM

9	TF	eP	14 27 46.8	Z	1.0	4.2 (0)	79.0	4.12
		epP	14 28 33	Z	1.2	12.9 (0)		
9	CP	eP	14 27 51.6	Z	0.9	4.4 (0)	80.0	4.20
9	MV	eP	14 27 55.8	Z	0.9	4.2 (0)	80.0	4.17
		epP	14 28 42	Z	1.4	13.0 (0)		
9	MN	eP	14 28 03.6	Z	1.0	4.2 (0)	82.0	4.13
		epP	14 28 50	Z	1.7	24.8 (0)		
9	WI	eP	14 28 14.8	Z	0.8	6.4 (0)	84.0	4.41
		epP	14 29 01	Z	1.2	14.0 (0)		
9	LC	eP	14 28 28.5	Z	1.1	11.9 (0)	87.0	4.64
		epP	14 29 14	Z	1.1	20.9 (0)		
							AVG.	4.28

9 14 27 04.1 04.7 S 153.7 E NEW BRITAIN REGION
H =117 KM

9	MN	epP	14 40 26.1	Z	1.0	3.4 (0)	92.0	
9	17 37 46.9		07.1 S 129.1 E				BANDA SEA	
			H =194 KM					
9	20 54 13.7		17.7 S 173.6 W				TONGA ISLANDS REGION	
			H =060 KM				MAG 5.20- CGS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
9	TF	eP	21 05 40.3	Z	1.0	7.5 (0)	73.0	4.59
		e	21 05 52	Z	1.0	50.4 (0)		
		eLR	21 27 27	LZ	25	10.4 (2)		
9	CP	eP	21 05 44.2	Z	1.0	5.8 (0)	74.0	4.44
		e	21 05 59	Z	1.0	20.4 (0)		
		eLR	21 27 55	LZ	25	73.9 (1)		
9	MV	eP	21 05 48.5	Z	999.9	99.9 (9)	75.0	
		e	21 06 02	Z	0.9	14.0 (0)		
		eLR	21 28 06	LZ	24	75.0 (1)		
9	MN	eP	21 05 56.8	Z	0.8	7.0 (0)	76.0	4.66
		e	21 06 08	Z	1.0	48.2 (0)		
		eLR	21 28 35	LZ	24	10.6 (2)		
		eL	21 30 35	LZ	25	10.7 (2)		
		eL	21 30 35	LR	24	35.3 (1)		
		eL	21 30 35	LT	22	85.9 (1)		
9	WI	eP	21 06 08.8	Z	0.8	6.4 (0)	78.0	4.62
		e	21 06 23	Z	1.0	40.1 (0)		
		eS	21 16 03	LR	20	16.4 (1)		
		eS	21 16 03	LT	17	40.6 (1)		
		e	21 27 25	LZ	23	32.7 (1)		
		eLR	21 29 03	LZ	25	13.3 (2)		
		eL	21 31 52	LZ	25	13.6 (2)		
		eL	21 31 52	LR	24	32.6 (1)		
		eL	21 31 52	LT	25	13.5 (2)		
9	FM	eP	21 06 21.0	Z	0.9	8.1 (0)	81.0	4.63
		e	21 06 35	Z	1.0	28.1 (0)		
		eLQ	21 30 19	LT	22	28.8 (1)		
		eLR	21 31 09	LZ	22	55.6 (1)		
		eL	21 34 12	LZ	22	59.3 (1)		
		eL	21 34 12	LR	22	48.1 (1)		
		eL	21 34 12	LT	23	19.2 (1)		
9	LC	eP	21 06 24.8	Z	0.8	5.0 (0)	81.0	4.47
		e	21 06 39	Z	1.0	46.1 (0)		
		eL	21 31 32	LZ	24	81.2 (1)		
9	SJ	eLR	21 33 30	LZ	24	40.4 (1)	86.0	
		eL	21 35 43	LZ	25	34.9 (1)		
		eL	21 35 43	LR	23	37.3 (1)		
		eL	21 35 43	LT	23	97.8 (1)		
9	DH	eLR	21 43 10	LZ	23	29.1 (1)	107.0	
							AVG.	4.57
9	21 17 02.0		39.9 N 140.5 E				NORTHERN HONSHU, JAPAN	
			H =033 KM					
9	MV	eP	21 28 21.8	Z	1.1	4.5 (0)	72.0	4.41
9	WI	eP	21 28 28.1	Z	1.1	9.0 (0)	73.0	4.71
9	MN	eP	21 28 36.5	Z	1.1	8.4 (0)	74.0	4.61
9	FM	eP	21 28 54.5	Z	0.9	5.4 (0)	77.0	4.58
9	LC	eP	21 29 37.0	Z	0.8	2.8 (0)	85.0	4.45

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.55
9	LC	eP	21 26 41.3	Z	0.3	31.2 (0)	1.4	
		eS	21 26 59	T	0.3	27.7 (0)		
9	CP	eP	22 42 50.0	Z	0.3	13.5 (0)		
9	MN	eP	22 43 26.2	Z	0.3	0.3 (0)		
9	MN	e	22 43 39	Z	0.6	2.8 (0)		
9	FM	eP	23 26 04.5	Z	0.5	63.7 (0)		
9	MN	eP	23 26 52.3	Z	0.5	2.5 (0)		
9	WI	eP	23 27 02.3	Z	0.3	5.8 (0)	4.7	
9	MN	e	23 27 08	Z	0.5	27.6 (0)		
9	WI	e	23 27 18	Z	0.5	17.9 (0)	4.7	
9	MV	eP	23 27 54.0	Z	0.7	1.8 (0)		
9	LC	eP	23 27 56.0	Z	0.7	5.4 (0)		
9	WI	eS	23 28 00	R	999.9	99.9 (9)	4.7	
9	MN	eL	23 28 07	T	0.6	24.1 (0)		
9	MV	eL	23 29 25	T	0.7	5.2 (0)		
9	LC	eL	23 29 27	R	0.7	13.1 (0)		
10	LC	eP	00 26 32.0	Z	0.8	7.1 (0)		
10	FM	eP	00 49 44.7	Z	0.5	24.7 (0)		
10	FM	eP	01 14 32.5	Z	0.5	22.0 (0)	1.5	
		eS	01 14 52	R	0.5	20.8 (0)		
10	MN	eP	02 07 29.0	Z	0.2	8.2 (0)	1.1	
		eS	02 07 43	R	0.6	6.9 (0)		
10	04 56 19.4		28.3 S 062.7 E				INDIAN OCEAN	
			H =033 KM					
10	DH	eP*1	05 15 47.5	Z	1.4	72.5 (0)	143.0	
10	NG	eP*1	05 16 10.0	Z	1.2	41.1 (1)	151.0	
		eP*2	05 16 17	Z	1.1	18.0 (1)		
		eLR	06 13 02	LZ	27	65.3 (1)		
		eL	06 19 20	LZ	24	12.3 (2)		
		eL	06 19 20	LR	24	81.2 (1)		
		eL	06 19 20	LT	22	44.2 (1)		
10	SJ	eP*1	05 16 21.5	Z	1.4	47.6 (0)	162.0	
		eP*2	05 17 21	Z	1.3	48.0 (0)		
		ePP	05 20 51	Z	1.8	71.4 (0)		
		eSS	05 41 26	LR	29	39.3 (1)		
		e	05 46 35	LR	20	32.2 (1)		
		eL	06 15 20	LR	25	39.8 (1)		
		eL	06 32 10	LZ	20	38.9 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
10	WI	eL	06 32 10	LT	22	14.6 (2)	167.0					
		eL	06 32 10	LR	22	77.5 (1)						
		eP11	05 16 23.4	Z	1.3	19.8 (0)						
		eP12	05 17 27	Z	1.2	72.3 (0)						
		ePP	05 21 14	Z	1.6	83.0 (0)						
		e	05 25 11	Z	1.2	5.2 (0)						
		ePP	05 21 17	LZ	14	35.7 (1)						
		eSS	05 41 55	LR	29	23.6 (1)						
		e	05 47 38	LR	27	44.2 (1)						
		eSSS	05 48 50	LR	26	48.2 (1)						
		e	05 53 20	LR	30	52.1 (1)						
		eLQ	06 17 21	LT	43	91.6 (1)						
		eLR	06 21 10	LZ	30	69.0 (1)						
		eL	06 32 00	LZ	27	75.5 (1)						
		eL	06 32 00	LR	24	65.0 (1)						
10	MV	eL	06 32 00	LT	24	91.6 (1)	169.0					
		eP11	05 16 24.0	Z	1.5	28.0 (0)						
		eP12	05 17 33	Z	1.0	20.9 (0)						
		ePP	05 21 21	Z	1.5	22.4 (0)						
		eSS	05 43 12	LT	22	36.2 (1)						
		e	05 55 50	LT	31	78.2 (1)						
		eLR	06 18 43	LZ	40	11.4 (2)						
		eL	06 35 12	LZ	21	72.0 (1)						
		eL	06 35 12	LR	23	47.3 (1)						
		eL	06 35 12	LT	21	54.0 (1)						
		10	FM	eP11	05 16 24.9	Z			1.5	10.7 (1)	168.0	
				eP12	05 17 33	Z			1.1	49.5 (0)		
				ePP	05 21 17	Z			1.5	32.2 (0)		
				e	05 43 29	LT			22	53.4 (1)		
				e	06 11 05	LT			34	56.5 (1)		
eLR	06 19 47			LZ	35	76.5 (1)						
eL	06 31 37			LZ	22	41.9 (1)						
eL	06 31 37			LR	24	91.0 (1)						
eL	06 31 37			LT	23	38.8 (1)						
10	MN			eP11	05 16 26.0D	Z	1.5	50.7 (0)	170.0			
				eP12	05 17 39	Z	1.0	39.6 (0)				
				ePP	05 21 28	Z	1.6	47.5 (0)				
				e	05 24 58	Z	1.0	5.1 (0)				
				eSS	05 42 28	LT	23	25.9 (1)				
				e	05 44 02	LZ	25	34.6 (1)				
		eSSS	05 47 17	LT	32	33.7 (1)						
		e	05 49 38	LT	35	57.6 (1)						
		e	05 53 28	LT	33	42.3 (1)						
		e	06 14 27	LR	38	53.7 (1)						
		eLQ	06 17 08	LT	38	62.9 (1)						
		eLR	06 19 48	LZ	38	11.6 (2)						
		eL	06 33 45	LZ	22	92.5 (1)						
		eL	06 33 45	LR	21	46.9 (1)						
		eL	06 33 45	LT	22	89.2 (1)						
10	LC	eP11	05 16 26.1	Z	1.6	50.2 (0)	170.0					
		eP12	05 17 40	Z	1.5	42.8 (0)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
10	TF	ePP	05 21 30	Z	1.4	46.2 (0)	173.0					
		eLR	06 15 55	LZ	40	59.7 (1)						
		eP11	05 16 28.0	Z	1.3	24.2 (0)						
		eP12	05 17 53	Z	1.3	56.5 (0)						
		ePP	05 21 45	Z	2.0	10.5 (1)						
		e	05 25 14	Z	1.3	16.1 (0)						
		eSS	05 43 10	LR	23	41.1 (1)						
		e	05 44 10	LT	22	45.9 (1)						
		eSSS	05 50 29	LT	30	71.9 (1)						
		e	05 52 35	LR	35	79.7 (1)						
		eLR	06 25 57	LZ	28	11.2 (2)						
		eL	06 27 55	LZ	23	12.6 (2)						
		eL	06 27 55	LR	23	77.2 (1)						
		eL	06 27 55	LT	23	61.1 (1)						
		10	CP	eP11	05 16 29.0	Z			1.5	42.9 (0)	176.0	
eP12	05 18 05			Z	1.4	62.6 (0)						
ePP	05 21 53			Z	2.0	10.9 (1)						
e	05 25 09			Z	1.0	5.8 (0)						
e	05 51 07			LZ	25	27.2 (1)						
eLR	06 21 28			LZ	25	70.0 (1)						
10 06 11 56.2 08.4 S 157.4 E SOLOMON ISLANDS H =039 KM												
10	TF			eP	06 24 51.5	Z	1.0	8.4 (0)	90.0	4.88		
				eLR	06 56 55	LZ	20	73.5 (1)				
		eL	07 01 40	LZ	16	12.4 (2)						
		eL	07 01 40	LR	17	72.7 (1)						
10	MN	eP	06 24 57.6	Z	1.7	35.9 (0)	91.0	5.38				
		eL	06 52 52	LZ	23	24.9 (1)						
10	CP	eP	06 25 01.0	Z	1.0	2.9 (0)	92.0	4.56				
		eLR	06 53 51	LZ	24	81.8 (1)						
10	WI	eP	06 25 02.8	Z	1.5	16.8 (0)	92.0	5.15				
		eL	06 58 00	LZ	27	59.7 (1)						
100.0 AVG. 4.99												
10	MN	eP	10 39 41.3	Z	0.8	2.0 (0)						
		eP	10 39 42.0	Z	1.0	6.8 (0)						
10	LC	eP	10 40 09.5	Z	1.0	3.6 (0)						
		eP	04 50 11.0	Z	0.7	1.5 (0)						
10	CP	eP	12 07 02.0	Z	0.3	1.0 (0)	3.3					
		e	12 07 07	Z	0.4	4.0 (0)						
		eS	12 07 43	T	0.5	8.6 (0)						
10	CP	iP	14 57 06.0C	Z	0.3	15.6 (0)	0.6					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	14 57 14	R	999.9	99.9 (9)		
10	WI	eP	15 48 43.5	Z	0.4	4.7 (0)	1.2	
		eS	15 48 59	R	0.5	16.8 (0)		
10	16 09 58.3		49.7 N 155.8 E			KURILE ISLANDS REGION		
			H =045 KM					
10	WI	eP	16 19 49.6	Z	0.8	2.0 (0)	58.0	4.20
10	MN	eP	16 20 00.0	Z	0.8	3.0 (0)	60.0	4.42
10	FM	eP	16 20 19.6	Z	0.6	3.0 (0)	62.0	4.61
10	LC	eP	16 21 10.6	Z	0.7	1.9 (0)	71.0	4.20
						AVG.		4.36
10	16 56 04.5		27.2 S 176.8 W			KERMADEC ISLANDS REGION		
			H =088 KM					
10	TF	eP	17 08 16.0	Z	1.0	21.0 (0)	82.0	4.95
		e	17 18 41	LT	20	56.4 (1)		
		eLQ	17 29 30	LT	30	83.9 (1)		
		eLR	17 33 25	LZ	22	15.6 (2)		
		eL	17 35 00	LZ	22	15.1 (2)		
		eL	17 35 00	LR	22	98.0 (1)		
		eL	17 35 00	LT	23	25.4 (1)		
10	CP	eP	17 08 20.3	Z	1.0	14.6 (0)	83.0	4.90
		eLR	17 33 03	LZ	27	12.8 (2)		
10	MV	eP	17 08 26.0	Z	1.0	17.1 (0)	84.0	4.97
		eP	17 08 28	LZ	999.9	99.9 (9)		
		e	17 18 45	LT	20	54.6 (1)		
		ePS	17 20 00	LT	30	47.8 (1)		
		eLQ	17 30 20	LR	30	25.9 (1)		
		eLR	17 33 43	LZ	26	95.8 (1)		
		eL	17 35 23	LZ	25	92.8 (1)		
		eL	17 35 23	LR	25	15.7 (1)		
		eL	17 35 23	LT	25	58.5 (1)		
10	MN	eP	17 08 32.6	Z	1.1	26.6 (0)	86.0	5.10
		eP	17 08 37	LZ	20	16.3 (1)		
		e	17 19 08	LT	22	61.6 (1)		
		ePS	17 20 10	LT	25	38.7 (1)		
		eSS	17 24 40	LT	24	43.6 (1)		
		eSSS	17 28 05	LT	23	32.3 (1)		
		eLQ	17 30 52	LR	30	60.6 (1)		
		eLR	17 34 27	LZ	24	11.4 (2)		
		eL	17 38 10	LZ	20	13.6 (2)		
		eL	17 38 10	LR	22	41.9 (1)		
		eL	17 38 10	LT	22	10.3 (2)		
10	WI	eP	17 08 44.0	Z	1.0	12.6 (0)	88.0	4.93

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	17 08 51	LZ	18	16.7 (1)		
		e	17 19 23	LR	24	54.6 (1)		
		eSP	17 20 30	LZ	18	33.5 (1)		
		eSS	17 25 10	LT	24	40.0 (1)		
		eSSS	17 29 05	LT	23	26.7 (1)		
		eLQ	17 31 55	LR	37	14.5 (2)		
		eLR	17 36 10	LZ	25	81.5 (1)		
		eL	17 37 55	LZ	24	79.9 (1)		
		eL	17 37 55	LR	25	36.3 (1)		
		eL	17 37 55	LT	25	76.1 (1)		
10	LC	eP	17 08 52.3	Z	1.2	14.9 (0)	90.0	5.00
		e	17 19 43	LT	25	55.5 (1)		
		eSS	17 25 47	LT	25	32.4 (1)		
		eLQ	17 33 14	LT	33	51.1 (1)		
		eLR	17 37 02	LZ	24	93.6 (1)		
		eL	17 39 20	LZ	23	10.3 (2)		
		eL	17 39 20	LR	25	34.3 (1)		
		eL	17 39 20	LT	22	74.5 (1)		
10	FM	eP	17 08 53.6	Z	1.2	16.8 (0)	90.0	5.05
		e	17 19 48	LT	22	58.3 (1)		
		eSS	17 25 48	LR	23	33.6 (1)		
		eSSS	17 29 38	LR	25	28.7 (1)		
		eLQ	17 32 33	LT	38	98.7 (1)		
		eLR	17 36 58	LZ	25	68.1 (1)		
		eL	17 41 03	LZ	21	80.1 (1)		
		eL	17 41 03	LR	20	67.6 (1)		
		eL	17 41 03	LT	20	24.3 (1)		
10	SJ	eSKS	17 19 41	LT	20	65.4 (1)	93.0	
		ePS	17 21 30	LT	20	53.7 (1)		
		eSS	17 26 00	LT	28	50.9 (1)		
		eLQ	17 35 37	LR	28	67.3 (1)		
		eLR	17 39 15	LZ	25	60.6 (1)		
		eL	17 42 33	LZ	21	11.3 (2)		
		eL	17 42 33	LR	21	83.1 (1)		
		eL	17 42 33	LT	20	32.0 (2)		
10	NG	eLR	17 46 23	LZ	28	67.6 (1)	107.0	
10	DH	eL	17 52 10	LR	25	51.4 (1)	116.0	
		eL	17 55 58	LZ	23	15.8 (2)		
		eL	17 55 58	LR	23	10.3 (2)		
		eL	17 55 58	LT	24	41.1 (1)		
						AVG.		4.99
10	LC	eP	17 40 45.0	Z	1.0	4.1 (0)		
10	MN	eP	17 42 06.8	Z	0.9	3.3 (0)		
10	WI	eP	17 42 16.5	Z	1.1	5.6 (0)		
10	WI	eP	18 55 26.7	Z	0.7	1.7 (0)		
10	WI	eP	21 08 27.1	Z	0.6	0.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
10	23 04	42.0	08.0 S 108.6 E H = 193 KM				S. COAST CENTRAL JAVA	
10	DH	eP*1	23 24 02.6	Z	1.0	91.4 (0)	147.0	
10	SJ	eP*1	23 24 11.0	Z	0.8	35.5 (0)	149.0	
11	02 34	09.6	48.9 S 124.6 E H = 033 KM				SOUTH OF AUSTRALIA	
11	02 34	09.7	48.9 S 124.6 E H = 033 KM				SOUTH OF AUSTRALIA	
11	SJ	eL	04 11 23	LR	21	25.9 (1)		
11	MN	eP	09 13 50.5	Z	0.5	1.9 (0)		
11	WI	eP	09 14 43.0	Z	0.8	1.3 (0)		
11	10 28	17.5	39.4 N 110.3 W H = 033 KM				CENTRAL UTAH	
11	FM	eP	10 28 39.8	Z	999.9	99.9 (9)	1.3	
		e	10 28 45	R	0.6	59.7 (0)		
		eL	10 28 58	R	0.8	20.2 (1)		
11	WI	eP	10 29 43.2	Z	0.7	1.6 (0)	6.0	3.77
		eL	10 31 13	R	0.8	5.9 (0)		
11	MN	eP	10 29 49.5	Z	0.7	1.2 (0)	6.0	3.66
		e	10 30 11	Z	0.6	3.5 (0)		
11	LC	eP	10 30 13.0	Z	0.4	0.4 (0)	8.0	3.82
		e	10 30 40	Z	0.7	4.8 (0)		
		eL	10 32 19	R	0.7	4.1 (0)		
							AVG.	3.75
11	13 54	36.3	19.7 S 178.4 W H = 630 KM				FIJI ISLANDS	
11	MN	eP	14 05 48.0	Z	0.7	1.6 (0)	81.0	3.61
11	WI	eP	14 05 58.2	Z	0.5	1.2 (0)	83.0	3.69
							AVG.	3.65
11	TF	eP	14 57 21.6	Z	0.9	6.4 (0)		
11	WI	eP	14 57 22.5	Z	0.5	0.8 (0)		
11	MN	eP	14 57 34.5	Z	1.0	4.2 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
11	16 14	47.1	39.1 N 144.3 E H = 044 KM				OFF E. COAST HONSHU, JAPAN	
11	WI	eP	17 16 21.1	Z	0.4	2.2 (0)	4.5	
		e	17 16 27	Z	0.8	8.4 (0)		
11	MN	eP	17 17 03.7	Z	0.5	0.6 (0)		
11	FM	eP	17 17 10.5	Z	0.6	2.9 (0)		
11	WI	eS	17 17 17	R	999.9	99.9 (9)	4.5	
11	FM	eL	17 18 30	T	0.6	4.6 (0)		
11	MN	eL	17 18 49	R	0.7	3.3 (0)		
11	17 51	58.9	24.8 S 177.6 W H = 098 KM				TONGA ISLANDS	
11	CP	eP	18 04 08.6	Z	1.0	8.6 (0)	82.0	4.54
11	MV	eP	18 04 12.3	Z	1.0	12.8 (0)	83.0	4.81
11	MN	eP	18 04 19.7	Z	1.0	8.5 (0)	84.0	4.63
11	WI	eP	18 04 30.4	Z	0.8	2.6 (0)	86.0	4.21
		esP	18 05 10	Z	1.0	3.9 (0)		
11	FM	eP	18 04 40.4	Z	1.0	7.1 (0)	88.0	4.65
11	LC	eP	18 04 41.5	Z	1.0	7.2 (0)	88.0	4.66
		esP	18 05 22	Z	1.0	4.8 (0)		
							AVG.	4.58
11	LC	eP	18 03 27.0	Z	0.8	1.4 (0)		
11	18 09	58.6	03.9 S 143.6 E H = 033 KM				NEAR N. COAST NEW GUINEA	
11	18 23	30.8	05.3 S 150.6 E H = 058 KM				BISMARCK SEA	
11	FM	eP	21 44 33.6	Z	0.5	2.6 (0)		
11	TF	eP	23 00 18.5	Z	0.7	9.1 (0)		
11	23 32	57.0	03.5 N 126.9 E H = 063 KM				MOLUCCA PASSAGE	
12	00 02	58.4	33.0 N 136.0 E H = 407 KM				SOUTHERN HONSHU, JAPAN	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
12	10 08	48.5	04.8 S 153.8 E H =094 KM			NEW BRITAIN		
12	11 29	39.5	39.6 N 140.5 E H =066 KM			NORTHERN HONSHU, JAPAN		
12	13 56	32.4	60.3 S 025.9 W H =033 KM			SANDWICH ISLANDS REGION		
12	15 50	08.0	18.6 S 168.6 E H =102 KM			NEW HEBRIDES IS. REGION		
12	22 56	45.8	04.6 N 096.5 E H =138 KM			SUMATRA		
13	00 25	02.5	07.2 N 093.1 E H =033 KM			NICOBAR ISLANDS		
13	04 21	21.2	63.3 N 149.7 W H =047 KM			SOUTH CENTRAL ALASKA		
13	WI	eP	04 27 17.3	Z	0.7	2.7 (0)	29.0	4.10
		eS	04 32 25	LR	22	49.3 (1)		
		eS	04 32 25	LT	20	18.2 (1)		
		eLR	04 37 03	LZ	27	30.6 (1)		
		eL	04 37 45	LZ	23	55.0 (1)		
		eL	04 37 45	LR	15	70.7 (1)		
		eL	04 37 45	LT	19	76.7 (1)		
13	MV	eP	04 27 22.0	Z	0.7	5.5 (0)	29.0	4.40
		eP AS	04 27 27.3	Z	0.7	17.5 (0)		4.90
		ePCP	04 30 28	Z	0.8	7.6 (0)		
		e	04 32 55	LR	24	17.7 (1)		
		eL	04 34 35	LZ	20	12.9 (1)		
13	MN	eP	04 27 38.5	Z	999.9	99.9 (9)	31.0	
		eSCP	04 34 14	Z	1.0	1.7 (0)		
13	FM	eP	04 27 46.5	Z	0.8	3.2 (0)	32.0	4.21
		eP AS	04 27 51.9	Z	1.0	21.7 (0)		4.94
13	TF	eP	04 27 59.0	Z	0.7	10.4 (0)	34.0	4.82
		eP AS	04 28 04.3	Z	0.9	42.0 (0)		5.32
		ePCP	04 30 38	Z	1.2	6.4 (0)		
		eL	04 38 28	LZ	22	73.0 (1)		
13	CP	eP	04 28 28.3	Z	0.9	6.7 (0)	37.0	4.46
		eL	04 40 25	LZ	22	52.3 (1)		
13	NG	eP	04 28 36.9	Z	0.7	24.0 (0)	38.0	5.12

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP AS	04 28 42.1	Z	999.9	99.9 (9)		
		eLQ	04 39 57	LR	23	75.7 (1)		
		eLR	04 43 56	LZ	18	10.2 (2)		
13	LC	eP	04 29 02.0	Z	0.7	1.8 (0)	41.0	3.95
		eP AS	04 29 07.7	Z	0.9	11.2 (0)		4.64
13	LC	eL	04 42 11	LT	20	50.5 (1)	41.0	
13	DH	eP	04 29 46.2	Z	1.0	10.0 (0)	47.0	4.76
		eLQ	04 45 15	LR	20	10.2 (2)		
		eLR	04 49 30	LT	17	69.0 (2)		
13	SJ	e	04 41 05	LZ	20	37.0 (1)	49.0	
		eL	04 45 30	LR	36	96.7 (1)		
		eL	04 47 40	LZ	25	32.6 (1)		
		eL	04 47 40	LR	23	42.3 (2)		
		eL	04 47 40	LT	22	18.7 (2)		
							AS .	4.95
							AVG.	4.48
13	MN	eP	07 03 23.5	Z	0.3	2.4 (0)	0.6	
		eS	07 03 32	R	0.3	16.0 (0)		
13	CP	eP	07 18 50.1	Z	0.2	15.2 (0)	0.6	
		eS	07 18 59	T	999.9	99.9 (9)		
13	MV	eP	08 11 30.0	Z	0.5	4.2 (0)	4.1	
13	MV	eL	08 11 48	LR	15	58.4 (1)		
13	MN	eP	08 12 07.8	Z	0.8	5.0 (0)	5.2	
13	WI	eP	08 12 11.1	Z	0.5	2.5 (0)		
13	MV	eS	08 12 21	T	0.7	99.9 (9)	4.1	
13	TF	eP	08 12 22.6	Z	0.5	7.9 (0)	6.0	
13	MV	eL	08 12 25	LT	16	94.6 (1)		
13	WI	e	08 12 31	Z	1.0	88.4 (0)		
13	MN	eS	08 13 21	R	1.2	38.5 (0)	5.2	
13	TF	eL	08 13 30	T	0.5	9.3 (0)	6.0	
13	08 13	34.4	04.7 S 153.8 E H =112 KM			NEW BRITAIN		
13	LC	ePP	08 31 20	Z	0.8	2.8 (0)	101.0	
13	MN	eL	08 13 37	LT	22	53.7 (1)		
13	WI	eL	08 13 38	R	1.0	51.3 (0)		
13	WI	eL	08 13 47	LR	15	84.2 (1)		
13	TF	eL	08 14 12	LR	20	10.7 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	TF	eL	08 15 00	LZ	14	12.5 (2)		
13	MN	eP	08 34 47.3	Z	999.9	99.9 (9)	0.9	
		eS	08 34 59	R	999.9	99.9 (9)		
13	WI	eP	08 35 03.8	Z	0.4	1.9 (0)	2.4	
		eS	08 35 35	R	0.4	99.9 (9)		
13	LC	eP	11 24 18.0	Z	1.0	3.6 (0)		
13	WI	eP	11 25 30.2	Z	0.9	10.2 (0)		
13	CP	eP	13 23 49.0	Z	0.2	99.9 (9)		
13	14 57 27.9		61.4 N 147.2 W				KENAI PENINSULA, ALASKA	
			H = 069 KM					
13	WI	eP	15 03 04.8	Z	1.0	6.6 (0)	27.0	4.18
		e	15 08 16	LZ	27	38.3 (1)		
		eLR	15 11 06	LZ	29	11.0 (2)		
13	MV	eP	15 03 08.0	Z	0.8	12.3 (0)	27.0	4.55
		ePCP	15 06 24	Z	1.0	4.8 (0)		
		eLR	15 08 05	LZ	26	29.8 (1)		
13	MN	eP	15 03 24.5	Z	1.0	23.8 (0)	29.0	4.83
		ePCP	15 06 26	Z	1.0	2.5 (0)		
13	FM	eP	15 03 33.0	Z	1.0	10.8 (0)	30.0	4.56
		ePCP	15 06 29	Z	0.8	9.6 (0)		
13	TF	eP	15 03 45.1	Z	0.9	22.6 (0)	31.0	4.96
		eLR	15 12 45	LZ	25	11.2 (2)		
13	CP	eP	15 04 15.3	Z	0.8	12.9 (0)	35.0	4.90
		eLR	15 14 55	LZ	26	90.8 (1)		
13	NG	eP	15 04 32.3	Z	0.5	4.9 (0)	37.0	4.63
		eL	15 15 06	LR	35	52.1 (1)		
		eL	15 19 37	LZ	18	15.6 (2)		
		eL	15 19 37	LR	21	39.4 (1)		
		eL	15 19 37	LT	17	14.9 (2)		
13	LC	eP	15 04 50.1	Z	1.2	16.8 (0)	39.0	4.75
13	SJ	eLQ	15 20 42	LR	25	65.7 (1)	47.0	
		eLR	15 22 35	LZ	35	67.6 (1)		
13	DH	eLR	15 21 28	LZ	31	65.7 (1)	46.0	
		eL	15 24 55	LZ	17	22.7 (2)		
		eL	15 24 55	LR	17	11.0 (2)		
		eL	15 24 55	LT	18	66.7 (2)		
							AVG.	4.67
13	16 45 59.1		02.8 N 127.9 E				HALMAHERA REGION	
			H = 033 KM					
13	MN	eP	16 47 06.0	Z	0.9	1.9 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
13	CP	eP	18 12 10.1	Z	999.9	99.9 (9)	1.5	
		eS	18 12 29	T	0.3	99.9 (9)		
13	LC	eP	20 53 10.0	Z	0.2	24.2 (0)	1.5	
		eS	20 53 29	R	0.3	99.9 (9)		
13	22 45 28.4		35.2 N 028.3 E				DODECANESE ISLANDS	
			H = 039 KM					
13	23 20 42.6		20.4 N 122.0 E				BATAN ISLAND, P. I.	
			H = 147 KM					
14	WI	eP	04 46 02.4	Z	0.4	3.9 (0)	2.0	
		eS	04 46 29	R	0.6	99.9 (9)		
14	08 53 49.4		04.8 S 153.8 E				SOLOMON ISLANDS	
			H = 117 KM					
14	13 06 52.3		41.8 N 141.1 E				NORTHERN HONSHU, JAPAN	
			H = 097 KM					
14	FM	eL	13 30 07	LZ	35	32.1 (1)	75.0	
14	LC	eL	13 30 15	LZ	30	18.8 (1)	83.0	
		eL	13 32 10	LZ	25	18.0 (1)		
		eL	13 32 10	LR	23	18.3 (1)		
		eL	13 32 10	LT	21	18.2 (1)		
14	WI	eL	13 30 40	LZ	30	10.9 (1)	71.0	
		eL	13 36 25	LZ	21	24.6 (1)		
		eL	13 36 25	LR	15	15.5 (1)		
		eL	13 36 25	LT	20	24.0 (1)		
14	MN	eL	13 34 59	LZ	26	14.3 (1)	71.0	
		eL	13 37 30	LZ	24	31.8 (1)		
		eL	13 37 30	LR	20	13.1 (1)		
		eL	13 37 30	LT	23	28.5 (1)		
14	MV	eL	13 35 37	LZ	23	15.6 (1)	70.0	
		eL	13 38 45	LZ	25	23.3 (1)		
		eL	13 38 45	LR	25	12.3 (1)		
		eL	13 38 45	LT	25	13.7 (1)		
14	TF	eL	13 35 40	LR	28	42.6 (1)	73.0	
		eL	13 38 34	LZ	23	42.5 (1)		
		eL	13 38 34	LR	23	50.5 (1)		
14	FM	eP	13 10 16.2	Z	1.0	20.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
14	WI	eP	13 10 24.4	Z	1.2	15.8 (0)		
14	MN	eP	13 10 35.8	Z	1.2	13.3 (0)		
14	16 52 49.8		50.3 N 090.6 E H =033 KM				OUTER MONGOLIA U.S.S.R.	
14	WI	eP	17 05 27.4	Z	1.0	6.8 (0)	86.0	4.67
		eL	17 34 59	LT	22	13.9 (1)		
		eL	17 40 00	LZ	21	76.1 (0)		
		eL	17 40 00	LR	20	11.5 (1)		
		eL	17 40 00	LT	26	28.6 (1)		
14	NG	eP	17 10 34.8	Z	0.7	6.3 (0)		
14	18 01 30.8		43.8 N 148.3 E H =125 KM				KURILE ISLANDS	
14	WI	eP	18 12 03.4	Z	0.9	5.2 (0)	66.0	4.41
14	MN	eP	18 12 12.2	Z	0.9	9.9 (0)	67.0	4.69
14	LC	eP	18 13 18.0	Z	0.8	2.1 (0)	78.0	4.00
							AVG.	4.37
14	MN	eP	19 13 19.4	Z	0.8	10.2 (0)	1.6	
		eS	19 13 40	R	0.5	3.9 (0)		
14	LC	eP	19 50 31.5	Z	0.8	2.8 (0)		
14	SJ	eL	19 55 30	LT	26	14.7 (1)		
14	SJ	eL	19 59 09	LZ	20	23.4 (1)		
14	SJ	eL	19 59 09	LR	24	42.8 (1)		
14	SJ	eL	19 59 09	LT	23	10.9 (2)		
14	WI	eP	20 52 17.6	Z	0.6	2.8 (0)		
15	MN	eP	00 41 05.7	Z	0.5	0.6 (0)	3.9	
		e	00 41 09	Z	0.6	99.9 (9)		
		eS	00 41 54	T	999.9	99.9 (9)		
15	02 37 56.4		17.3 S 178.9 W H =509 KM				FIJI ISLANDS	
15	03 48 38.0		67.2 N 013.7 E H =033 KM				NEAR COAST CENTRAL NORWAY	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	WI	eP	03 59 21.5	Z	0.7	1.1 (0)	66.0	4.11
15	LC	eP	03 59 55.6	Z	1.0	2.4 (0)	71.0	4.18
		e	04 00 06	Z	1.0	6.0 (0)		
							AVG.	4.14
15	06 34 58.6		40.7 N 117.5 W H =033 KM				NEVADA	
							MAG 4.50-4.75	PAS
15	WI	eP	06 35 11.3	Z	999.9	99.9 (9)	0.7	
15	MN	eP	06 35 33.0	Z	999.9	99.9 (9)	2.2	
		eP	06 35 35	LZ	15	99.9 (9)		
		eL	06 36 03	LR	999.9	99.9 (9)		
15	MV	eP	06 35 46.5	Z	999.9	99.9 (9)	3.1	
		eL	06 36 55	LZ	12	39.7 (2)		
15	FM	eP	06 36 03.5	Z	0.5	41.6 (0)	4.3	
		eL	06 36 17	R	0.5	75.9 (0)		
		eL	06 37 08	LR	17	27.1 (2)		
		eL	06 37 08	LT	18	22.9 (2)		
15	TF	eP	06 36 27.5	Z	0.7	8.3 (0)	6.0	4.47
		e	06 36 45	Z	0.6	28.1 (0)		
		eL	06 38 45	LZ	12	25.1 (2)		
15	CP	eP	06 36 54.5	Z	0.5	6.0 (0)	8.0	4.88
		e	06 37 22	Z	0.5	8.7 (0)		
		eL	06 39 05	T	0.6	32.5 (0)		
		eL	06 39 10	LT	15	21.4 (2)		
15	LC	eP	06 37 53.7	Z	0.8	2.8 (0)	12.0	4.42
		e	06 38 45	Z	1.0	10.9 (0)		
		e	06 40 34	R	1.0	8.7 (0)		
		eL	06 41 20	LT	18	87.7 (1)		
		eL	06 41 24	R	1.2	38.4 (0)		
		eL	06 42 23	LZ	15	94.7 (1)		
15	SJ	eP	06 39 38.0	Z	1.0	14.4 (0)	21.0	4.25
		eL	06 46 02	LT	18	20.8 (2)		
15	NG	eP	06 39 51.0	Z	0.9	13.0 (0)	22.0	4.32
		eL	06 46 48	LT	15	25.0 (1)		
							AVG.	4.47
15	FM	eP	13 47 05.9	Z	0.3	6.1 (0)	1.3	
		eS	13 47 23	R	0.5	14.4 (0)		
15	14 22 35.2		04.6 S 152.1 E H =053 KM				NEW BRITAIN	
15	15 28 12.1		18.9 S 177.3 W H =602 KM				FIJI ISLANDS	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
15	LC	eP	16 33 41.0	Z	0.3	1.7 (0)	3.0	
		e	16 33 46	Z	0.4	2.5 (0)		
		eS	16 34 19	T	0.5	8.6 (0)		
15	LC	eP	20 21 02.6	Z	0.3	1.3 (0)	1.6	
		eS	20 21 24	R	0.4	18.9 (0)		
15	FM	eP	23 40 57.4	Z	0.3	16.0 (0)	1.5	
		eS	23 41 18	R	999.9	99.9 (9)		
16	WI	eP	00 41 44.4	Z	999.9	99.9 (9)	0.7	
		eS	00 41 54	R	999.9	99.9 (9)		
16	WI	eP	01 21 19.0	Z	999.9	99.9 (9)		
16	MN	eP	01 21 40.4	Z	0.3	2.4 (0)	2.5	
		eS	01 22 13	R	999.9	99.9 (9)		
16	WI	eP	01 42 20.3	Z	0.3	11.4 (0)		
16	MN	eP	01 42 40.0	Z	0.4	2.6 (0)	2.8	
		eS	01 43 15	T	0.5	8.0 (0)		
16	WI	eP	03 51 30.4	Z	0.3	8.1 (0)	0.8	
		eS	03 51 41	T	0.4	99.9 (9)		
16	05 25 26.6		03.1 S 139.5 E H =043 KM			NEAR N. COAST NEW GUINEA		
16	CP	eP	06 11 35.3	Z	0.3	25.9 (0)	0.8	
		eS	06 11 46	R	999.9	99.9 (9)		
16	WI	eP	06 12 22.8	Z	999.9	99.9 (9)		
16	MN	eP	06 12 44.5	Z	0.3	1.5 (0)	2.6	
		eS	06 13 18	R	0.5	12.5 (0)		
16	WI	eP	06 27 38.8	Z	999.9	99.9 (9)		
16	MN	eP	06 28 00.4	Z	0.4	0.5 (0)	2.6	
		eS	06 28 34	R	0.5	99.9 (9)		
16	06 34 15.6		36.2 N 071.3 E H =145 KM			HINDU KUSH		
16	WI	eP	08 27 33.2	Z	999.9	99.9 (9)		
16	MN	eP	08 27 58.0	Z	0.4	4.1 (0)	1.8	
		eS	08 28 23	R	0.5	6.5 (0)		
16	CP	eP	08 36 32.8	Z	0.3	2.5 (0)	0.8	
		eS	08 36 44	T	0.4	11.0 (0)		
16	11 06 45.7		38.7 N 117.5 W H =033 KM			NEVADA		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
16	MN	eP	11 06 48.2	Z	999.9	99.9 (9)	0.1	
16	WI	eP	11 07 18.9	Z	0.5	7.7 (0)	2.0	
16	MV	eP	11 07 27.0	Z	0.4	10.6 (0)	2.7	
		eLG	11 08 00	T	0.5	39.4 (0)		
16	TF	eP	11 07 53.0	Z	0.4	5.7 (0)	4.5	4.25
		eLG	11 08 48	R	0.6	17.9 (0)		
16	FM	eP	11 08 03.8	Z	0.4	2.3 (0)	5.3	4.03
		eLG	11 08 57	T	0.5	12.8 (0)		
							AVG.	4.14
16	MN	eP	11 16 14.8	Z	0.3	1.8 (0)	0.1	
		eS	11 16 19	R	0.4	3.6 (0)		
16	CP	eP	12 14 21.1	Z	999.9	99.9 (9)		
16	MN	eP	12 15 58.7	Z	0.8	3.0 (0)		
16	CP	eP	15 30 59.0	Z	0.3	5.1 (0)	0.9	
		eS	15 31 11	T	0.4	99.9 (9)		
16	WI	eP	20 52 00.0	Z	999.9	99.9 (9)		
16	WI	eP	22 27 53.3	Z	0.5	99.9 (9)		
17	MN	eP	00 11 42.5	Z	0.3	4.3 (0)	2.6	
		e	00 11 46	Z	0.4	9.5 (0)		
		e	00 12 10	R	0.4	8.2 (0)		
		eS	00 12 15	R	0.5	45.3 (0)		
17	WI	iP	00 55 10.3C	Z	0.3	26.2 (0)	0.7	
		eS	00 55 20	R	999.9	99.9 (9)		
17	WI	iP	01 40 55.0C	Z	0.3	8.1 (0)	0.7	
		eS	01 41 05	R	0.5	16.1 (0)		
17	02 15 49.7		04.2 S 127.6 E H =033 KM			CERAM		
17	WI	eP	06 01 02.3	Z	999.9	99.9 (9)		
17	MN	eP	06 01 24.0	Z	0.3	1.8 (0)	2.6	
		e	06 01 28	Z	0.4	2.9 (0)		
		eS	06 01 57	R	0.5	34.9 (0)		
17	WI	eP	06 42 45.5	Z	1.1	4.2 (0)		
17	WI	eP	08 40 05.1	Z	0.4	2.3 (0)	2.4	
		eS	08 40 35	R	0.2	8.7 (0)		
17	CP	eP	10 00 07.8	Z	0.5	25.2 (0)	1.4	
		eS	10 00 25	T	999.9	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	11 00	16.0	02.1 N H = 393 KM	122.9 E	CELEBES SEA			
17	WI	ePD	11 14 05.1	Z	1.2	7.0 (0)	110.0	
		eP†	11 18 03.6	Z	0.6	5.7 (0)		
		ePP	11 18 43	Z	1.5	67.4 (0)		
		esPS	11 30 12	LT	18	56.1 (1)		
		e	11 31 19	LZ	21	79.0 (1)		
		e	11 34 00	LZ	17	37.2 (1)		
17	MN	ePD	11 14 08.5	Z	1.3	6.6 (0)	110.0	
		eP†	11 18 05.4	Z	999.9	99.9 (9)		
		ePP	11 18 48	Z	1.2	21.2 (0)		
		esPP	11 21 00	LZ	20	36.1 (1)		
		eSP	11 27 40	LZ	22	30.8 (1)		
		esPS	11 30 21	LR	20	80.1 (1)		
		eSS	11 34 14	LR	25	44.4 (1)		
		esSS	11 36 10	LR	28	34.9 (1)		
		eSSS	11 39 40	LR	25	38.0 (1)		
		e	11 44 00	LR	24	54.0 (1)		
17	CP	eP†	11 18 12.0	Z	0.6	15.8 (0)	114.0	
		ePP	11 18 50	Z	1.9	64.5 (0)		
17	FM	eP†	11 18 13.2	Z	999.9	99.9 (9)	115.0	
		ePP	11 19 07	Z	2.0	64.2 (0)		
		esPS	11 31 02	LT	26	99.0 (1)		
		e	11 32 04	LZ	21	84.4 (1)		
17	NG	eP†	11 18 30.2	Z	0.6	24.0 (0)	124.0	
		ePP	11 20 02	Z	1.2	27.2 (0)		
		esPP	11 22 31	LZ	16	37.4 (1)		
		eSS	11 36 57	LT	21	37.3 (1)		
		esSS	11 39 20	LT	22	75.8 (1)		
17	SJ	eP†	11 18 43.9	Z	1.5	20.5 (1)	131.0	
		ePP	11 21 01	Z	1.5	11.7 (1)		
		eSKP	11 21 28	Z	1.3	99.9 (9)		
17	DH	eP†	11 18 46.5	Z	1.6	14.1 (1)	132.0	
		ePP	11 21 35	Z	1.4	29.3 (1)		
17	MV	esPP	11 20 36	LZ	26	30.3 (1)	108.0	
		e	11 26 55	LR	23	31.5 (1)		
		esPS	11 29 50	LR	19	72.0 (1)		
		e	11 30 40	LZ	26	64.0 (1)		
17	CP	eP	12 12 47.8	Z	0.3	13.4 (0)	0.7	
		eS	12 12 57	R	0.5	27.6 (0)		
17	12 29	52.2	00.2 N H = 126 KM	124.3 E	HALMAHERA REGION			
17	WI	eP	14 05 50.2	Z	999.9	99.9 (9)	0.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
17	CP	eS	14 06 00	R	0.3	13.7 (0)		
		eP	14 16 24.8	Z	0.3	15.5 (0)	0.7	
		eS	14 16 35	T	999.9	99.9 (9)		
17	17 25	40.8	38.0 N H = 033 KM	106.1 E	TINGSIA PROVINCE, CHINA			
17	MN	eP	17 54 06.6	Z	1.0	3.4 (0)		
17	TF	eP	19 39 11.7	Z	0.7	8.3 (0)		
17	MN	eP	19 39 14.0	Z	0.9	9.9 (0)		
17	WI	eP	19 39 17.5	Z	1.6	39.5 (0)		
17	MN	eP	20 28 38.6	Z	1.0	8.6 (0)		
17	WI	eP	20 28 42.5	Z	1.6	27.6 (0)		
17	MN	eP	20 44 30.6	Z	1.0	5.1 (0)		
17	WI	eP	20 44 34.4	Z	1.1	5.6 (0)		
17	22 02	45.2	08.2 S H = 151 KM	120.5 E	FLORES REGION			
18	02 06	09.2	39.8 N H = 077 KM	071.4 E	KIRGHIZ, S.S.R.			
18	02 54	47.1	21.6 N H = 306 KM	143.1 E	MARIANA ISLANDS REGION MAG 5.00- CGS			
18	WI	eP	03 06 38.8	Z	0.6	14.3 (0)	83.0	4.97
		epP	03 07 51	Z	1.1	16.9 (0)		
18	TF	eP	03 06 41.0	Z	1.0	33.6 (0)	83.0	5.12
18	MN	eP	03 06 41.8	Z	0.7	22.6 (0)	83.0	5.10
		epP	03 07 53	Z	1.2	24.1 (0)		
		ePP	03 09 54	Z	1.0	5.5 (0)		
18	CP	eP	03 06 59.0	Z	0.8	21.5 (0)	87.0	5.12
18	FM	eP	03 07 00.6	Z	0.7	12.1 (0)	87.0	4.93
		epP	03 08 10	Z	1.0	10.4 (0)		
18	LC	eP	03 07 34.5	Z	1.0	7.2 (0)	95.0	4.76
		epP	03 08 42	Z	1.0	6.0 (0)		
		ePP	03 11 25	Z	1.0	3.6 (0)		
							AVG.	5.00
18	03 51	00.2	23.8 N H = 124 KM	093.9 E	INDIA BURMA BORDER REGION			

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	eP	05 44 34.6	Z	0.7	1.9 (0)		
18	WI	eP	05 44 36.5	Z	0.7	1.1 (0)		
18	07 48 36.6		35.2 S 104.8 W H =033 KM				EASTER ISLAND REGION	
18	LC	eP	07 59 31.8	Z	0.8	1.4 (0)	68.0	4.12
18	MN	eP	08 00 10.5	Z	1.0	4.7 (0)	74.0	4.40
		eL	08 20 30	LZ	20	21.2 (1)		
		eL	08 25 15	LZ	20	42.5 (1)		
		eL	08 25 15	LR	15	23.6 (1)		
		eL	08 25 15	LT	20	24.5 (1)		
18	FM	eP	08 00 12.0	Z	0.8	4.1 (0)	74.0	4.44
18	WI	eP	08 00 27.0	Z	1.0	3.4 (0)	77.0	4.33
18	TF	eL	08 17 40	LZ	20	42.7 (1)	71.0	
		eL	08 17 40	LR	20	25.8 (1)		
						AVG.		4.32
18	10 33 58.4		28.3 S 178.2 W H =214 KM				KERMADEC ISLANDS	
18	TF	eP	10 46 05.1	Z	1.0	37.8 (0)	84.0	5.09
		epP	10 46 56	Z	1.0	33.6 (0)		
18	CP	eP	10 46 08.8	Z	1.0	42.1 (0)	85.0	5.13
		epP	10 47 01	Z	1.0	34.8 (0)		
18	MV	eP	10 46 14.0	Z	1.0	31.9 (0)	86.0	5.10
		epP	10 47 06	Z	1.2	34.4 (0)		
18	MN	eP	10 46 20.2	Z	1.0	25.1 (0)	87.0	5.01
		epP	10 47 12	Z	1.2	18.1 (1)		
18	WI	eP	10 46 31.2	Z	1.4	62.8 (0)	88.0	5.26
		epP	10 47 24	Z	1.1	22.6 (0)		
		epPP	10 50 53	Z	1.2	8.8 (0)		
18	FM	eP	10 46 39.0	Z	1.0	34.9 (0)	91.0	5.32
		epP	10 47 32	Z	1.2	32.2 (0)		
18	LC	eP	10 46 39.8	Z	1.0	27.9 (0)	91.0	5.23
		esP	10 48 05	Z	1.2	11.2 (0)		
18	SJ	eP	10 46 57.0	Z	1.0	14.8 (0)	95.0	5.15
		epP	10 47 52	Z	1.2	38.0 (0)		
						AVG.		5.16
18	MN	eP	11 06 57.0	Z	0.5	4.1 (0)	0.3	
		eS	11 07 03	R	0.6	6.8 (0)		
18	11 30 07.3		24.7 S 180.0 H =486 KM				FIJI ISLANDS REGION	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
18	MN	eP	11 41 54.8	Z	0.7	1.9 (0)	86.0	3.87
18	WI	eP	11 42 05.5	Z	1.0	5.7 (0)	88.0	4.27
18	LC	eP	11 42 12.7	Z	1.0	4.8 (0)	89.0	4.28
						AVG.		4.14
18	12 37 16.1		02.7 N 129.1 E H =096 KM				HALMAHERA REGION	
18	LC	eP	12 55 53.0	Z	0.8	2.1 (0)	116.0	
18	CP	eP	13 09 16.4	Z	0.3	7.2 (0)	1.5	
		eS	13 09 36	R	0.5	38.2 (0)		
18	WI	eP	13 52 09.5	Z	0.8	1.3 (0)		
18	WI	eL	13 53 58	R	1.0	12.5 (0)		
18	WI	eP	15 35 10.2	Z	0.5	1.7 (0)	1.2	
		eS	15 35 26	R	0.6	13.1 (0)		
18	DH	eP	19 46 20.8	Z	0.3	25.1 (0)	1.7	
		eS	19 46 45	T	0.4	64.3 (0)		
18	20 47 41.5		43.7 N 147.0 E H =080 KM				EAST OF HOKKAIDO, JAPAN	
18	20 56 32.3		18.4 S 176.9 W H =308 KM				FIJI ISLANDS REGION	
18	MN	eP	21 08 04.2	Z	0.7	1.9 (0)	79.0	4.03
18	MN	eP	22 56 06.0	Z	0.9	6.0 (0)		
18	FM	eP	22 56 27.5	Z	1.1	12.9 (0)		
18	MN	eP	23 08 02.0	Z	1.0	3.9 (0)		
19	MN	eP	00 12 57.4	Z	0.4	3.8 (0)	0.1	
		eS	00 13 01	R	0.4	13.1 (0)		
19	CP	eP	00 24 17.8	Z	0.3	3.1 (0)		
19	CP	eP	00 57 43.0	Z	0.2	23.5 (0)		
19	CP	tP	01 09 51.4D	Z	0.2	17.9 (0)		
19	CP	eP	03 44 43.4	Z	0.5	0.4 (0)	3.7	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	03 44 58	Z	0.5	8.7 (0)		
		eS	03 45 28	T	0.5	6.4 (0)		
19	CP	eP	05 05 40.8	Z	0.5	1.4 (0)	3.0	
		e	05 05 52	Z	0.5	13.1 (0)		
		eS	05 06 19	T	0.5	12.9 (0)		
19	05 17 18.1		51.5 N 170.8 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM					
19	WI	eP	05 24 30.0	Z	0.8	4.0 (0)	37.0	4.27
19	FM	eP	05 25 06.5	Z	1.0	6.9 (0)	42.0	4.37
19	SJ	eP	05 27 10.6	Z	1.0	29.4 (0)	58.0	5.26
						AVG.		4.63
19	05 17 19.7		51.6 N 170.3 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM					
19	WI	tP	10 33 35.3C	Z	999.9	99.9 (9)		
19	MN	eP	10 33 56.9	Z	0.3	1.1 (0)	2.6	
		eS	10 34 30	R	0.4	15.4 (0)		
19	11 01 39.8		31.2 S 178.1 W				KERMADEC ISLANDS REGION	
			H =028 KM					
19	CP	eP	11 14 22.2	Z	0.7	2.8 (0)	87.0	4.56
19	MN	eP	11 14 33.3	Z	0.8	1.4 (0)	89.0	4.22
19	WI	eP	11 14 44.4	Z	0.9	1.7 (0)	91.0	4.36
						AVG.		4.38
19	WI	tP	12 34 40.1C	Z	999.9	99.9 (9)		
19	MN	eP	12 35 01.6	Z	0.3	1.7 (0)	2.6	
		e	12 35 05	Z	0.4	3.5 (0)		
		eS	12 35 30	R	0.4	6.3 (0)		
19	12 56 19.7		04.7 S 154.0 E				SOLOMON ISLANDS	
			H =098 KM					
19	MN	eP	13 09 18.4	Z	0.6	1.3 (0)	92.0	4.44
		epP	13 09 43	Z	1.4	22.8 (0)		
		epP	13 09 49	LZ	19	26.5 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSKS	13 19 50	LR	20	32.2 (1)		
		eSP	13 21 25	LZ	22	62.7 (1)		
		eSS	13 25 40	LR	22	55.4 (1)		
		eLQ	13 34 42	LT	28	36.1 (1)		
		eLR	13 37 30	LZ	35	31.1 (2)		
		eL	13 40 25	LZ	27	20.2 (2)		
		eL	13 40 25	LR	25	12.4 (2)		
		eL	13 40 25	LT	25	11.6 (2)		
19	WI	eP	13 09 23.3	Z	0.5	0.4 (0)	93.0	4.03
		eP	13 09 30	LZ	19	26.7 (1)		
		epP	13 09 47	Z	1.3	8.8 (0)		
		eSKS	13 19 46	LT	21	53.6 (1)		
		eSP	13 21 35	LZ	20	64.2 (1)		
		eLR	13 38 17	LZ	37	24.6 (2)		
		eL	13 41 10	LZ	25	13.9 (2)		
		eL	13 41 10	LR	25	28.4 (1)		
		eL	13 41 10	LT	25	11.2 (2)		
19	TF	epP	13 09 44	LZ	17	55.1 (1)	89.0	
		eSKS	13 19 37	LT	20	44.6 (1)		
		eSP	13 21 04	LZ	23	85.8 (1)		
		eLR	13 37 23	LZ	35	27.9 (2)		
		eL	13 39 05	LZ	26	15.8 (2)		
		eL	13 39 05	LR	27	15.6 (2)		
		eL	13 39 05	LT	26	73.0 (1)		
19	CP	epP	13 09 45	LZ	18	24.7 (1)	92.0	
		eSKS	13 19 50	LT	22	52.6 (1)		
		eSP	13 21 35	LZ	20	49.6 (1)		
		eSS	13 26 55	LT	17	64.0 (1)		
		eLR	13 38 00	LZ	34	28.7 (2)		
		eL	13 40 20	LZ	26	13.0 (2)		
		eL	13 40 20	LT	26	82.0 (1)		
19	LC	eP	13 10 07	LZ	15	24.1 (1)	101.0	
		eSKS	13 20 30	LR	19	24.9 (1)		
		eSP	13 23 06	LZ	21	61.5 (1)		
		eLR	13 42 08	LZ	34	23.0 (2)		
		eL	13 45 35	LZ	24	62.3 (1)		
		eL	13 45 35	LR	26	48.7 (1)		
19	MV	eSKS	13 19 30	LR	17	35.6 (1)	89.0	
		eSS	13 25 34	LT	18	57.7 (1)		
		eLR	13 36 20	LZ	33	35.2 (2)		
		eL	13 39 00	LZ	26	28.2 (2)		
		eL	13 39 00	LR	26	13.6 (2)		
		eL	13 39 00	LT	26	15.6 (2)		
19	FM	eSKS	13 20 15	LR	20	32.7 (1)	96.0	
		eSP	13 22 27	LZ	21	65.6 (1)		
		eLR	13 39 52	LZ	33	23.4 (2)		
		eL	13 43 02	LZ	26	19.1 (2)		
		eL	13 43 02	LR	26	11.4 (2)		
		eL	13 43 02	LT	26	16.0 (2)		
19	SJ	eSKS	13 21 20	LT	22	44.8 (1)	108.0	
		eSP	13 24 27	LZ	20	64.3 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
19	NG	eLQ	13 43 57	LR	19	76.2 (1)	112.0					
		eLR	13 46 03	LZ	28	13.9 (2)						
		eL	13 49 23	LZ	27	13.2 (2)						
		eL	13 49 23	LR	25	18.8 (2)						
		eL	13 49 23	LT	27	29.6 (2)						
		ePS	13 25 20	LR	23	27.8 (1)						
		eSS	13 30 47	LT	23	43.5 (1)						
		eSSS	13 35 47	LR	18	48.5 (1)						
		eLR	13 48 56	LZ	32	20.3 (2)						
		eL	13 52 25	LZ	27	15.4 (2)						
19	DH	eL	13 52 25	LR	27	96.8 (1)	123.0					
		eL	13 52 25	LT	26	69.8 (1)						
		eSS	13 33 43	LR	20	47.6 (1)						
		eLR	13 52 44	LZ	35	13.2 (2)						
		eL	13 59 28	LZ	26	19.4 (2)						
		eL	13 59 28	LR	26	12.9 (2)						
		eL	13 59 28	LT	25	61.4 (1)						
									AVG.	4.24		
		19	LC	eP	15 26 08.5	Z			0.8	10.2 (0)		
		19	TF	eP	16 47 45.8	Z			0.2	20.0 (0)	1.5	
19	MV	eP	16 48 01.5	Z	0.3	3.3 (0)	2.6					
19	TF	eS	16 48 06	R	0.3	36.2 (0)	1.5					
19	MV	e	16 48 08	Z	0.4	7.5 (0)	2.6					
19	MN	eP	16 48 10.4	Z	0.3	0.5 (0)	3.2					
19	MV	eS	16 48 35	R	0.5	16.6 (0)	2.6					
19	MN	eS	16 48 50	R	0.5	9.4 (0)	3.2					
19	LC	eP	18 15 18.3	Z	0.3	0.8 (0)	3.0					
		eS	18 15 55	T	0.5	6.2 (0)						
19	CP	eP	19 45 47.7D	Z	0.3	65.4 (0)						
19	20	15 58.8	23.9 S 179.4 W	KERMADEC ISLANDS REGION								
			H =451 KM									
20	MN	eP	06 04 53.4	Z	0.3	6.0 (0)	0.3					
		eS	06 04 58	R	0.3	5.9 (0)						
20	08	32 37.3	20.0 S 174.1 W	TONGA ISLANDS REGION								
			H =033 KM									
20	TF	eP	08 44 19.0	Z	0.9	3.3 (0)	75.0	4.29				
20	CP	eP	08 44 24.0	Z	1.0	11.6 (0)	76.0	4.86				
20	MV	eP	08 44 28.6	Z	0.8	3.8 (0)	77.0	4.47				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MN	eP	08 44 36.5	Z	1.0	16.0 (0)	78.0	5.00
	WI	eP	08 44 48.7	Z	1.0	4.5 (0)	81.0	4.39
	FM	eP	08 44 59.3	Z	1.0	11.4 (0)	83.0	4.95
	LC	eP	08 45 01.5	Z	0.9	12.1 (0)	83.0	5.03
	SJ	eP	08 45 22.3	Z	1.0	19.0 (0)	87.0	5.21
							AVG.	4.77
20	08	47 23.3	23.4 S 179.3 E	FIJI ISLANDS REGION				
			H =512 KM					
20	MV	eP	08 58 58.6	Z	0.8	2.8 (0)	84.0	3.95
20	MN	eP	08 59 05.6	Z	0.9	1.8 (0)	85.0	3.71
		epP	09 01 05	Z	1.3	9.2 (0)		
20	WI	eP	08 59 16.5	Z	1.0	4.5 (0)	87.0	4.16
		epP	09 01 17	Z	1.2	5.2 (0)		
20	FM	eP	08 59 26.6	Z	0.8	5.0 (0)	89.0	4.40
20	LC	eP	08 59 30.0	Z	1.1	8.9 (0)	90.0	4.61
		epP	09 01 31	Z	1.2	3.7 (0)		
							AVG.	4.16
20	CP	eP	13 10 07.3	Z	0.4	5.0 (0)	1.6	
		eS	13 10 29	T	0.4	12.9 (0)		
20	MN	eP	13 11 56.5	Z	0.6	0.6 (0)		
20	CP	eP	13 41 05.9	Z	0.2	15.2 (0)		
20	18	20 55.8	61.8 S 161.2 E	BALLENY ISLANDS REGION				
			H =029 KM					
20	LC	eLQ	19 10 40	LR	30	27.3 (1)	119.0	
		eLR	19 16 25	LZ	22	36.8 (1)		
20	MV	eLR	19 15 18	LZ	25	40.6 (1)	118.0	
20	MN	eLR	19 16 05	LZ	22	56.9 (1)	119.0	
20	WI	eLR	19 16 40	LZ	26	33.8 (1)	121.0	
20	SJ	eL	19 17 05	LR	28	91.9 (1)	119.0	
20	NG	eLR	19 27 20	LZ	20	53.5 (1)	139.0	
20	LC	eP	18 53 23.0	Z	0.6	1.5 (0)		
20	19	32 27.4	17.8 N 144.6 E	MARIANA ISLANDS				
			H =033 KM					
20	WI	eP	19 44 56.8	Z	1.1	5.6 (0)	84.0	4.61

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
20	MN	eP	19 44 58.7	Z	0.8	2.8 (0)	85.0 AVG.	4.45 4.53
20	MN	eP	20 06 04.5	Z	1.0	3.2 (0)		
20	20 57 21.1		13.7 S 169.9 E H =166 KM				SANTA CRUZ ISLANDS	
20	LC	eP	21 26 08.6	Z	0.3	5.2 (0)	1.5	
		e	21 26 16	T	0.5	3.0 (0)		
		e	21 26 26	T	0.5	2.2 (0)		
		eS	21 26 29	T	0.5	10.6 (0)		
21	00 44 19.7		09.0 S 112.4 E H =064 KM				NEAR S. COAST OF JAVA	
21	TF	eP	01 03 17.5	Z	0.8	39.7 (0)	125.0	
21	WI	eP	01 03 17.5	Z	1.0	45.8 (0)	126.0	
21	MN	eP	01 03 18.5	Z	1.0	34.1 (0)	126.0	
		eP	01 03 23	LZ	18	23.6 (0)		
		ePP	01 05 05	LZ	22	62.4 (0)		
		ePKS	01 06 33	LR	20	50.9 (0)		
		e	01 14 30	LR	19	48.4 (0)		
		eSPP	01 16 48	LZ	24	11.1 (1)		
		eSS	01 22 15	LR	999.9	99.9 (9)		
		e	01 23 18	LR	23	14.5 (1)		
21	CP	eP	01 03 25.2	Z	0.8	30.9 (0)	129.0	
		ePP	01 05 31	Z	1.6	60.1 (0)		
		ePP	01 05 32	LZ	19	97.9 (1)		
		ePKS	01 06 55	LT	20	99.9 (9)		
		eSPP	01 17 20	LZ	23	11.6 (2)		
		e	01 20 07	LZ	19	97.9 (1)		
		eSS	01 23 15	LT	24	99.9 (9)		
		e	01 25 00	LT	23	99.9 (9)		
		eSSS	01 28 15	LT	21	99.9 (9)		
		eLR	01 45 00	LZ	23	22.6 (2)		
21	FM	eP	01 03 26.5	Z	1.0	28.5 (0)	130.0	
		eP	01 03 29	LZ	14	27.9 (1)		
		ePP	01 05 38	LZ	22	60.1 (1)		
		eSKP	01 06 43	Z	1.4	27.2 (0)		
		eSKP	01 07 07	LZ	20	68.1 (1)		
21	LC	eP	01 03 29.2	Z	0.8	3.5 (0)	138.0	
		eP	01 03 35	LZ	14	44.8 (1)		
		e	01 03 39.2	Z	0.8	33.0 (0)		
		ePP	01 06 22	LZ	14	74.7 (1)		
		eSKP	01 07 11	Z	1.0	14.5 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	01 07 22	LR	22	11.7 (2)		
		ePS	01 16 30	LR	15	63.0 (1)		
		eSPP	01 18 35	LZ	20	78.1 (1)		
21	NG	eP	01 03 33.8	Z	0.6	3.6 (0)	139.0	
		eP	01 03 34	LZ	13	48.8 (1)		
		e	01 03 43.2	Z	1.0	34.7 (0)		
		ePP	01 06 27	LZ	19	70.9 (1)		
		ePPP	01 09 45	LZ	20	51.6 (1)		
		eSKKS	01 13 20	LT	17	49.5 (1)		
		ePKKS	01 16 05	LT	17	80.0 (1)		
		ePPS	01 18 44	LZ	24	86.3 (1)		
		eSS	01 25 10	LT	20	11.0 (2)		
		eSSS	01 29 53	LT	23	11.2 (2)		
		eL	01 34 40	LZ	30	15.4 (2)		
21	DH	eP	01 03 55.5	Z	0.8	15.5 (1)	146.0	
		eP	01 03 56	LZ	13	48.7 (2)		
		ePP	01 07 19	LZ	17	97.8 (1)		
		eSKKS	01 14 08	LT	20	65.2 (1)		
		ePS	01 17 43	LT	23	51.4 (1)		
		e	01 23 22	LZ	20	65.1 (1)		
		eSS	01 26 07	LT	20	73.4 (1)		
		e	01 27 12	LT	19	81.4 (1)		
		e	01 28 50	LT	35	14.9 (2)		
		eSSS	01 31 10	LT	30	18.3 (2)		
21	SJ	eP	01 03 55.9	Z	0.7	58.5 (0)	146.0	
		eP	01 03 56	LZ	15	20.6 (2)		
		ePS	01 17 35	LT	22	13.5 (2)		
		eSS	01 26 10	LT	22	20.3 (2)		
21	MV	ePP	01 04 54	LZ	22	99.9 (9)	123.0	
		ePKS	01 10 30	LR	15	33.4 (1)		
		eSKKS	01 11 55	LR	16	44.4 (1)		
		eSP	01 14 43	LZ	22	99.9 (9)		
		eSS	01 21 50	LR	24	14.7 (2)		
		eSSS	01 25 43	LR	25	92.0 (1)		
		eLR	01 40 57	LZ	33	99.9 (9)		
21	WI	eP	01 16 26.3	Z	1.2	5.2 (0)		
21	01 26 31.5		04.2 S 152.9 E H =150 KM				NEW BRITAIN	
21	02 11 20.7		51.2 N 179.8 E H =060 KM				ANDREANOF-ALEUTIAN ISLANDS	
21	MV	eP	02 19 09.4	Z	999.9	99.9 (9)	43.0	
		eP AS	02 19 23.3	Z	0.9	8.6 (0)		4.48

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	WI	eP	02 19 17.8	Z	999.9	99.9 (9)	43.0	
		eP AS	02 19 32.1	Z	1.0	11.4 (0)		4.55
21	MN	eP	02 19 28.3	Z	0.7	99.9 (9)	44.0	
		eP AS	02 19 43.2	Z	0.9	4.8 (0)		4.23
21	FM	eP	02 19 56.9	Z	999.9	99.9 (9)	48.0	
		eP AS	02 20 07.5	Z	1.1	14.1 (0)		4.82
21	LC	eP	02 20 52.8	Z	999.9	99.9 (9)	56.0	
		eP AS	02 21 06.8	Z	0.7	2.4 (0)		4.33
							AS .	4.48
21	03 28 35.3		15.4 N 121.8 E				CENTRAL LUZON; P. I.	
			H =046 KM					
21	06 27 49.1		52.5 N 168.7 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM					
21	MV	eP	06 34 39.4	Z	0.9	19.7 (0)	35.0	5.04
		eS	06 40 18	LR	22	10.3 (2)		
		eS	06 40 18	LT	18	16.4 (2)		
		eL	06 42 37	LZ	32	99.9 (9)		
21	WI	eP	06 34 49.2	Z	1.0	99.9 (9)	36.0	
		ePCP	06 37 23	Z	1.0	8.0 (0)		
		eSCP	06 41 09	Z	1.0	1.1 (0)		
21	MN	eP	06 35 00.9	Z	1.0	11.1 (0)	37.0	4.61
21	TF	eP	06 35 09.2	Z	0.9	19.3 (0)	38.0	4.89
21	FM	eP	06 35 26.0	Z	1.3	32.9 (0)	40.0	4.87
21	CP	eP	06 35 38.5	Z	1.0	7.2 (0)	42.0	4.39
		eS	06 42 04	LT	20	99.9 (9)		
		eL	06 45 20	LR	22	99.9 (9)		
21	LC	eP	06 36 29.4	Z	1.0	18.2 (0)	48.0	5.06
		eS	06 43 30	LR	22	94.4 (1)		
		eS	06 43 30	LT	22	73.7 (1)		
		eSS	06 46 25	LT	20	77.3 (1)		
		eL	06 51 50	LR	20	10.1 (2)		
21	NG	eP	06 36 44.6	Z	0.7	15.1 (0)	50.0	5.03
21	DH	eP	06 37 53.2	Z	999.9	99.9 (9)	60.0	
		eS	06 46 06	LR	16	12.7 (2)		
		eS	06 46 06	LT	20	57.1 (1)		
		eL	06 59 11	LR	23	42.1 (2)		
		eL	07 00 40	LZ	22	10.0 (2)		
		eL	07 00 40	LR	23	42.1 (2)		
		eL	07 00 40	LT	21	18.1 (2)		
							AVG.	4.84
21	06 31 42.4		52.6 N 168.6 W				FOX-ALEUTIAN ISLANDS	
			H =039 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eP	06 38 42.3	Z	0.8	3.7 (0)	36.0	4.31
21	MN	eP	06 39 01.2	Z	1.2	7.3 (0)	38.0	4.36
21	CP	eP	06 39 47.2	Z	1.3	11.1 (0)	42.0	4.47
							AVG.	4.38
21	06 45 26.5		17.0 S 173.4 W				TONGA ISLANDS REGION	
			H =053 KM					
21	MN	eP	06 57 10.0	Z	1.0	0.7 (0)	76.0	3.64
		e	06 57 35	Z	1.0	5.5 (0)		
21	LC	eP	06 57 39.0	Z	999.9	99.9 (9)	81.0	
		e	06 58 04	Z	1.0	6.0 (0)		
21	MN	eP	07 02 50.6	Z	0.7	0.7 (0)		
21	07 07 05.9		52.8 N 168.8 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM					
21	MN	eP	07 14 20.6	Z	0.8	0.9 (0)	38.0	3.63
21	SJ	eP	07 37 33.6	Z	1.2	37.7 (0)		
21	08 36 53.9		52.8 N 168.6 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM					
21	WI	eP	08 43 54.0	Z	1.0	2.2 (0)	36.0	3.99
21	MN	eP	08 44 02.9	Z	0.8	0.9 (0)	37.0	3.63
							AVG.	3.81
21	08 42 48.3		52.4 N 168.5 W				FOX-ALEUTIAN ISLANDS	
			H =033 KM				MAG 6.25- BRK	
21	MV	eP	08 49 39.0	Z	0.7	15.9 (0)	35.0	5.05
		e	08 49 40	LZ	15	99.9 (9)		
21	WI	eP	08 49 47.5	Z	1.0	99.9 (9)	36.0	
		eP	08 49 57	LZ	999.9	99.9 (9)		
21	MN	eP	08 49 58.4	Z	999.9	99.9 (9)	37.0	
		e	08 50 00	LZ	999.9	99.9 (9)		
21	TF	eP	08 50 07.2	Z	0.5	12.6 (0)	38.0	4.97

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	FM	e	08 50 14	Z	1.0	63.0 (0)		
		eP	08 50 25.0	Z	1.2	26.3 (0)	40.0	4.80
		eP	08 50 25	LZ	13	45.4 (2)		
		ePP	08 51 40	LZ	16	36.7 (2)		
21	CP	eP	08 50 39.2	Z	999.9	99.9 (9)	42.0	
		eP	08 50 40	LZ	15	65.6 (2)		
		ePP	08 51 58	LZ	17	45.8 (2)		
		eS	08 57 03	LR	19	99.9 (9)		
21	LC	eP	08 51 28.5	Z	1.0	21.8 (0)	48.0	5.14
		eP	08 51 30	LZ	15	36.1 (2)		
		e	08 51 37	Z	1.0	48.5 (0)		
21	NG	eP	08 51 43.8	Z	0.8	74.6 (0)	50.0	5.66
		eP	08 51 45	LZ	999.9	99.9 (9)		
21	SJ	eP	08 52 31.0	Z	1.0	39.2 (0)	57.0	5.39
		eP	08 52 32	LZ	999.9	99.9 (9)		
		e	08 52 48	Z	1.3	26.3 (1)		
21	DH	eP	08 52 52.1	Z	0.7	70.3 (0)	60.0	5.83
		eP	08 52 55	LZ	17	41.9 (2)		
		eS	09 01 06	LR	999.9	99.9 (9)		
		eSCS	09 02 19	LR	17	87.3 (2)		
		eSS	09 04 43	LR	20	74.1 (2)		
		eLQ	09 07 50	LR	18	95.5 (2)		
							AVG.	5.26
21	08 50 08.2		52.8 N 168.1 W			FOX-ALEUTIAN ISLANDS		
			H =033 KM					
21	LC	eP	08 58 51.2	Z	1.0	4.8 (0)	49.0	4.45
21	NG	eP	08 59 01.5	Z	1.0	17.3 (0)	50.0	4.94
21	DH	eP	09 00 10.0	Z	1.0	26.2 (0)	61.0	5.28
							AVG.	4.89
21	09 00 41.4		52.4 N 168.5 W			FOX-ALEUTIAN ISLANDS		
			H =033 KM					
21	MV	eP	09 07 30.3	Z	0.8	24.6 (0)	35.0	5.18
21	WI	eP	09 07 40.5	Z	0.8	7.4 (0)	36.0	4.60
21	MN	eP	09 07 52.3	Z	999.9	99.9 (9)	37.0	
21	TF	eP	09 08 00.7	Z	0.8	17.4 (0)	38.0	4.90
21	FM	eP	09 08 18.0	Z	999.9	99.9 (9)	40.0	
21	CP	eP	09 08 31.2	Z	999.9	99.9 (9)	42.0	
21	LC	eP	09 09 21.5	Z	0.8	4.3 (0)	48.0	4.53
21	NG	eP	09 09 37.0	Z	0.8	41.1 (0)	50.0	5.41
21	SJ	eP	09 10 24.6	Z	999.9	99.9 (9)	57.0	
21	DH	eP	09 10 45.6	Z	999.9	99.9 (9)	60.0	
							AVG.	4.92

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	09 10 01.6		52.5 N 168.5 W			FOX-ALEUTIAN ISLANDS		
			H =033 KM					
21	MV	eP	09 16 50.0	Z	0.8	49.3 (0)	35.0	5.48
21	WI	eP	09 17 00.5	Z	999.9	99.9 (9)	36.0	
21	MN	eP	09 17 11.5	Z	999.9	99.9 (9)	37.0	
21	TF	eP	09 17 21.2	Z	0.8	47.2 (0)	38.0	5.33
21	FM	eP	09 17 37.8	Z	999.9	99.9 (9)	40.0	
21	CP	eP	09 17 52.1	Z	999.9	99.9 (9)	42.0	
21	LC	eP	09 18 40.8	Z	0.8	27.2 (0)	48.0	5.33
21	NG	eP	09 18 55.2	Z	0.8	51.4 (0)	50.0	5.50
21	SJ	eP	09 19 44.2	Z	1.0	49.0 (0)	57.0	5.49
21	DH	eP	09 20 05.0	Z	999.9	99.9 (9)	60.0	
							AVG.	5.43
21	09 33 15.5		42.4 N 142.3 E			S. COAST HOKKAIDO, JAPAN		
			H =027 KM					
21	MV	eP	09 44 19.2	Z	1.0	14.1 (1)	69.0	6.04
21	WI	eP	09 44 26.1	Z	0.9	44.1 (0)	70.0	5.50
21	MN	iP	09 44 34.9D	Z	999.9	99.9 (9)	71.0	
21	TF	eP	09 44 40.2	Z	1.0	15.9 (1)	72.0	6.02
21	FM	iP	09 44 53.0D	Z	1.0	17.7 (1)	74.0	5.99
21	CP	eP	09 45 02.5	Z	1.3	13.1 (1)	76.0	5.82
21	NG	eP	09 45 30.5	Z	1.0	10.4 (1)	81.0	5.76
21	LC	eP	09 45 36.5	Z	0.8	67.5 (0)	83.0	5.84
21	DH	eP	09 46 10.8	Z	1.0	34.3 (1)	89.0	6.50
		e	09 47 12	Z	1.7	25.2 (1)		
21	SJ	eP	09 46 18.5	Z	1.0	78.4 (0)	91.0	5.96
							AVG.	5.94
21	09 42 46.0		22.8 S 066.5 W			BOLIVIA-ARGENTINA BORDER		
			H =200 KM					
21	DH	eP	09 53 07.7	Z	0.8	77.7 (0)	65.0	5.48
21	LC	eP	09 53 18.0	Z	1.0	47.3 (0)	67.0	5.17
21	NG	eP	09 53 42.5	Z	0.9	13.3 (0)	71.0	4.67
21	CP	eP	09 53 54.8	Z	0.8	36.1 (0)	73.0	5.15
21	FM	eP	09 54 07.5	Z	1.0	12.5 (1)	75.0	5.59
21	TF	eP	09 54 17.4	Z	1.0	84.0 (0)	77.0	5.42
21	MN	iP	09 54 23.2D	Z	1.4	13.0 (1)	78.0	5.46
21	WI	eP	09 54 31.5	Z	999.9	99.9 (9)	79.0	
21	MV	eP	09 54 34.8	Z	1.1	31.6 (0)	80.0	4.95
							AVG.	5.24
21	MV	eP	12 07 15.7	Z	0.3	2.2 (0)	0.9	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MV	eS	12 07 28	T	0.4	10.7 (0)		
		eP	12 43 17.0	Z	0.7	3.1 (0)		
21	WI	eP	12 43 30.5	Z	1.2	3.5 (0)		
21	MN	eP	12 43 38.0	Z	1.0	2.3 (0)		
21	LC	eP	12 45 12.5	Z	0.8	1.4 (0)		
21	LC	e	12 45 24	Z	1.0	6.0 (0)		
21	MN	eP	13 38 20.6	Z	1.0	3.1 (0)		
21	MN	eP	14 00 01.5	Z	999.9	99.9 (9)		
21	WI	eP	14 00 22.6	Z	0.5	1.2 (0)	3.0	
21	MV	eP	14 00 32.3	Z	0.3	7.4 (0)	2.5	
21	WI	eS	14 01 01	R	999.9	99.9 (9)	3.0	
21	MV	eS	14 01 04	T	0.5	17.6 (0)	2.5	
21	14 40	40.3	52.6 N 168.3 W	FOX-ALEUTIAN ISLANDS				
			H =016 KM					
21	15 10	22.9	52.5 N 168.7 W	FOX-ALEUTIAN ISLANDS				
			H =033 KM					
21	15 28	17.6	52.7 N 168.8 W	FOX-ALEUTIAN ISLANDS				
			H =049 KM					
21	WI	eP	15 35 20.0	Z	1.5	10.1 (0)	36.0	4.47
21	MN	eP	15 35 30.0	Z	0.9	1.8 (0)	38.0	3.90
21	LC	eP	15 36 57.2	Z	1.0	2.4 (0)	48.0	4.13
21	NG	eP	15 37 10.2	Z	1.0	13.0 (0)	50.0	4.81
						AVG.		4.33
21	17 35	56.1	04.6 S 153.8 E	NEW BRITAIN REGION				
			H =095 KM					
21	17 47	30.8	14.2 N 051.7 E	GULF OF ADEN				
			H =027 KM					
21	MN	eP	18 06 34.5	Z	1.0	2.3 (0)	127.0	
21	18 20	44.7	15.3 N 121.7 E	COAST CENTRAL LUZON, P. I.				
			H =055 KM					
21	WI	eP	18 34 34.0	Z	1.0	3.4 (0)	102.0	4.99

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	MN	eP	18 41 27.4	Z	0.3	5.1 (0)	0.5	
		eS	18 41 35	R	0.4	7.8 (0)		
21	20 27	13.3	52.4 N 168.5 W	FOX-ALEUTIAN ISLANDS				
			H =040 KM					
21	WI	eP	20 34 12.0	Z	1.0	3.4 (0)	36.0	4.17
21	MN	eP	20 34 23.0	Z	1.0	1.5 (0)	37.0	3.78
21	LC	eP	20 35 52.5	Z	1.0	3.6 (0)	48.0	4.34
						AVG.		4.09
21	MN	eP	21 02 09.8	Z	0.3	15.3 (0)	1.0	
		eS	21 02 23	R	0.3	17.3 (0)		
21	21 27	51.6	00.9 S 080.9 W	NEAR CENTRAL ECUADOR				
			H =033 KM					
21	SJ	eP	21 34 25	LZ	12	13.1 (2)	33.0	
		eS	21 39 45	LR	19	19.9 (2)		
		eS	21 39 45	LT	15	14.9 (2)		
		eL	21 41 52	LR	20	25.1 (2)		
21	LC	eP	21 35 36.5	Z	0.5	3.2 (0)	41.0	4.33
21	DH	eP	21 35 51.5	Z	1.0	70.7 (0)	43.0	5.34
		eP	21 35 52	LZ	13	11.1 (2)		
		eS	21 42 25	LR	13	20.4 (2)		
		eS	21 42 25	LT	17	22.0 (2)		
		eSCS	21 45 54	LR	15	18.3 (2)		
		eL	21 49 10	LZ	30	19.6 (2)		
		eL	21 55 10	LR	21	26.5 (2)		
		eL	21 55 10	LZ	20	11.6 (2)		
		eL	21 55 10	LT	21	90.9 (1)		
21	NG	eP	21 36 19.1	Z	1.0	56.5 (0)	47.0	5.55
21	MN	eP	21 37 00.7	Z	999.9	99.9 (9)	52.0	
21	WI	eP	21 37 12.0	Z	999.9	99.9 (9)	54.0	
21	MV	eP	21 37 22.6	Z	0.7	3.9 (0)	55.0	4.55
		eP	21 37 23	LZ	14	99.9 (9)		
		eS	21 45 02	LR	17	31.0 (1)		
		eS	21 45 02	LT	19	15.7 (2)		
		eSCS	21 47 03	LT	20	73.4 (1)		
		eSS	21 49 07	LT	20	62.9 (1)		
		eL	21 51 28	LT	32	28.4 (2)		
21	LC	eS	21 41 50	LR	15	63.0 (1)	41.0	
		eS	21 41 50	LT	20	10.3 (2)		
		e	21 45 05	LT	30	19.7 (2)		
		eLQ	21 46 38	LT	30	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
21	TF	eS	21 44 12	LR	24	15.9 (2)	51.0	
		eS	21 44 12	LT	20	60.3 (1)		
		eSCS	21 46 42	LR	20	85.6 (1)		
		eSS	21 48 12	LR	21	86.8 (1)		
		eL	21 50 50	LR	30	21.5 (2)		
		eL	21 53 08	LZ	15	12.9 (2)		
		eL	21 53 08	LR	22	20.1 (2)		
		eL	21 53 08	LT	22	14.2 (2)		
21	CP	eL	21 47 35	LT	27	99.9 (9)	47.0	
							AVG.	4.94
21	DH	eP	22 19 44.5	Z	0.9	23.3 (0)		
21	MV	eP	23 12 16.5	Z	999.9	99.9 (9)		
22	00 52 23.4		22.0 S 170.1 E			LOYALTY ISLANDS REGION		
			H =033 KM			MAG 6.50-6.75 PAS		
22	TF	eP	01 05 10.0	Z	0.7	6.2 (0)	88.0	4.95
		eP	01 05 12	LZ	9	81.5 (2)		
		e	01 06 23	Z	1.2	38.7 (0)		
		ePP	01 08 51	LZ	13	19.5 (2)		
		eSKS	01 15 34	LR	24	17.7 (2)		
		e	01 20 11	LR	20	17.0 (2)		
		eLQ	01 28 30	LT	15	15.2 (2)		
		eLR	01 32 40	LZ	22	50.6 (2)		
22	MV	eP	01 05 12.0	Z	0.5	4.2 (0)	88.0	4.92
		eP	01 05 13	LZ	14	18.3 (2)		
		e	01 15 55	LR	19	15.9 (2)		
		eSS	01 21 20	LT	28	35.7 (2)		
		eSSS	01 25 30	LT	19	25.3 (2)		
		e	01 28 45	LR	20	25.0 (2)		
		eLQ	01 29 35	LR	999.9	99.9 (9)		
		eLR	01 33 01	LZ	37	99.9 (9)		
22	CP	eP	01 05 15.3	Z	0.6	3.0 (0)	89.0	4.67
		eP	01 05 18	LZ	16	16.5 (2)		
		ePP	01 08 48	LZ	21	99.9 (1)		
		eSKS	01 15 37	LT	23	20.2 (2)		
		ePS	01 17 15	LT	25	60.4 (2)		
		eSS	01 20 44	LT	30	27.1 (2)		
		eSSS	01 25 21	LZ	29	37.1 (2)		
		e	01 28 50	LR	24	28.4 (2)		
		eLQ	01 29 55	LR	24	46.8 (2)		
		eLR	01 33 25	LZ	32	75.7 (2)		
		eL	01 42 45	LZ	999.9	99.9 (9)		
		eL	01 42 45	LR	18	40.0 (2)		
		eL	01 42 45	LT	18	61.6 (2)		
22	MN	eP	01 05 20.5	Z	0.7	6.3 (0)	90.0	4.92

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eP	01 05 23	LZ	18	13.9 (2)		
		ePP	01 09 00	LZ	16	97.5 (1)		
		e	01 12 25	LZ	15	66.8 (1)		
		eS	01 16 13	LR	22	18.0 (2)		
		ePKKP	01 22 54	Z	1.1	1.9 (0)		
		eSSS	01 25 35	LT	999.9	99.9 (9)		
		eSKKP	01 26 01	Z	0.9	3.0 (0)		
		e	01 28 23	LR	19	13.0 (2)		
		eLQ	01 29 20	LT	999.9	99.9 (9)		
		eP ⁺ P ⁺	01 31 01	Z	0.9	1.2 (0)		
		eLR	01 33 53	LZ	999.9	99.9 (9)		
22	WI	eP	01 05 29.5	Z	0.6	1.9 (0)	92.0	4.61
		eP	01 05 30	LZ	18	12.8 (3)		
		ePP	01 09 08	LZ	19	69.9 (2)		
		eSKS	01 16 03	LT	24	99.9 (9)		
22	FM	eP	01 05 46.2	Z	0.8	3.4 (0)	96.0	4.93
		eP	01 05 47	LZ	20	96.2 (1)		
		ePP	01 10 18	LZ	15	59.7 (1)		
		eLR	01 36 16	LZ	31	81.6 (2)		
22	LC	eP	01 05 51.3	Z	0.8	2.1 (0)	97.0	4.80
		eP	01 05 53	LZ	18	87.8 (1)		
		e	01 06 12	Z	1.0	6.1 (0)		
		ePP	01 09 46	LZ	20	94.4 (1)		
		eSKS	01 16 37	LR	26	74.6 (1)		
		eS	01 17 30	LR	25	72.5 (1)		
		ePS	01 18 48	LT	999.9	99.9 (9)		
		ePKKP	01 22 40	Z	0.9	3.7 (0)		
		eSS	01 24 00	LR	25	99.9 (9)		
		eSSS	01 27 40	LR	25	24.2 (2)		
		e	01 29 12	LR	26	97.4 (1)		
		eLR	01 36 50	LZ	999.9	99.9 (9)		
22	SJ	eP	01 05 50	LZ	15	97.5 (1)	100.0	
		ePP	01 10 00	LZ	15	12.2 (2)		
		eSKS	01 16 30	LR	12	11.1 (2)		
		eS	01 17 25	LT	21	12.6 (2)		
		eLR	01 39 45	LZ	999.9	99.9 (9)		
22	NG	ePD	01 06 05	LZ	17	30.9 (1)	113.0	
		eP ⁺	01 10 57.6	Z	0.7	6.4 (0)		
		ePP	01 11 50	LZ	24	87.6 (1)		
		ePS	01 21 16	LR	26	28.4 (2)		
		ePPS	01 22 44	LR	22	16.1 (2)		
		eSS	01 27 31	LR	31	34.3 (2)		
		eSSS	01 32 10	LR	35	99.9 (9)		
		eLQ	01 35 00	LR	23	24.6 (2)		
		eLR	01 45 30	LZ	999.9	99.9 (9)		
22	DH	ePP	01 12 55	LZ	22	13.2 (2)	123.0	
		eSPP	01 24 30	LZ	18	25.9 (2)		
		eSS	01 29 55	LR	28	99.9 (9)		
		eSSS	01 34 05	LR	25	25.2 (2)		
		e	01 38 00	LR	22	28.8 (2)		
		eLQ	01 44 20	LT	28	27.8 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLR	01 50 15	LZ	22	42.3 (2)	AVG.	4.82
22	CP	eP	00 53 56.4	Z	0.3	1.0 (0)		
22	CP	e	00 53 59	Z	999.9	99.9 (9)		
22	01 13	02.6	22.0 S 170.1 E	LOYALTY ISLANDS REGION				
			H = 033 KM					
22	01 28	48.9	21.9 S 170.1 E	LOYALTY ISLANDS REGION				
			H = 033 KM					
22	TF	eP	01 41 35.2	Z	1.0	12.6 (0)	88.0	5.10
22	MV	eP	01 41 39.5	Z	1.5	37.7 (0)	89.0	5.36
22	CP	eP	01 41 41.0	Z	1.5	25.6 (0)	89.0	5.19
22	MN	eP	01 41 47.3	Z	1.5	32.6 (0)	90.0	5.30
						AVG.		5.23
22	01 59	50.3	09.2 S 112.4 E	NEAR S. COAST OF JAVA				
			H = 069 KM					
22	MV	eP†	02 18 44.6	Z	0.9	32.0 (0)	124.0	
22	WI	eP†	02 18 48.7	Z	1.0	31.6 (0)	126.0	
		eL	02 59 42	LZ	25	16.5 (3)		
22	TF	eP†	02 18 49.3	Z	0.8	32.3 (0)	126.0	
22	MN	eP†	02 18 49.6	Z	1.3	51.8 (0)	127.0	
22	CP	eP†	02 18 56.0	Z	1.2	62.6 (0)	129.0	
		ePP	02 21 01	Z	1.9	64.5 (0)		
		eSKP	02 22 22	Z	2.1	41.5 (0)		
22	FM	eP†	02 18 57.8	Z	2.0	19.8 (1)	130.0	
		eSKP	02 22 17	Z	1.9	96.3 (0)		
		eL	03 07 34	LZ	22	22.7 (2)		
22	LC	eP†	02 18 59.0	Z	0.8	3.6 (0)	138.0	
		epP†	02 19 11	Z	1.2	45.4 (0)		
		ePP	02 21 50	Z	2.0	30.7 (0)		
		eSKP	02 22 41	Z	1.2	13.2 (0)		
22	NG	eP†	02 19 02.0	Z	0.6	3.6 (0)	140.0	
		epP†	02 19 14	Z	0.9	16.7 (0)		
22	DH	eP†	02 19 27.0	Z	0.8	12.1 (1)	146.0	
22	SJ	eP†	02 19 27.3	Z	999.9	99.9 (9)	146.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	CP	eP	04 56 40.0	Z	0.3	12.4 (0)		
22	CP	eP	06 06 28.8	Z	0.4	5.0 (0)	1.5	
		eS	06 06 48	T	0.4	23.5 (0)		
22	TF	eP	06 12 32.8	Z	0.3	21.0 (0)	1.3	
		eS	06 12 49	T	0.4	39.7 (0)		
22	06 35	57.1	01.1 S 081.0 W	NEAR COAST OF ECUADOR				
			H = 033 KM					
22	MN	eP	06 45 08.3	Z	0.7	0.7 (0)	52.0	3.78
22	MN	eP	07 13 08.3	Z	0.3	1.4 (0)	3.4	
		eS	07 13 51	R	0.5	4.9 (0)		
22	WI	eP	07 24 00.0	Z	0.6	1.4 (0)		
22	LC	eP	07 24 11.4	Z	0.6	1.0 (0)		
22	09 24	41.5	00.9 N 125.8 E	MOLUCCA SEA				
			H = 033 KM					
22	LC	eP†	09 43 33.8	Z	999.9	99.9 (9)	120.0	
22	MN	eP	11 01 31.5	Z	1.0	2.3 (0)		
22	SJ	eP	11 02 08.5	Z	1.2	52.7 (0)		
22	WI	eP	11 02 30.0	Z	0.8	1.3 (0)		
22	11 28	03.4	15.1 S 173.0 W	SAMOA ISLANDS REGION				
			H = 055 KM					
22	MN	eP	11 39 35.6	Z	1.0	7.1 (0)	74.0	4.54
22	WI	eP	11 39 48.0	Z	1.0	5.6 (0)	76.0	4.48
22	FM	eP	11 40 00.6	Z	999.9	99.9 (9)	78.0	
22	LC	eP	11 40 05.2	Z	999.9	99.9 (9)	79.0	
						AVG.		4.51
22	MN	eP	11 36 01.1	Z	0.3	1.7 (0)	4.3	
		eS	11 36 54	R	0.4	15.6 (0)		
22	14 09	29.7	04.7 N 125.7 E	NEAR COAST MINDANAO, P.I.				
			H = 018 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	15 20 31.0		52.5 N 168.8 W H = 047 KM			FOX-ALEUTIAN ISLANDS 6.25- PAS		
22	MV	eP	15 27 20.0	Z	0.9	4.9 (0)	35.0	4.43
		eP	15 27 20	LZ	14	14.9 (2)		
		e	15 27 38	Z	0.9	27.1 (0)		
		ePP	15 28 41	LZ	14	21.8 (2)		
		ePCP	15 29 57	Z	0.9	12.3 (0)		
		eS	15 32 52	LR	999.9	99.9 (9)		
		eSCP	15 33 34	Z	1.5	32.9 (0)		
		eSS	15 35 15	LT	999.9	99.9 (9)		
22	WI	eP	15 27 30.0	Z	999.9	99.9 (9)	36.0	
		eP	15 27 30	LZ	13	12.2 (2)		
		e	15 28 24	Z	1.2	86.8 (0)		
		ePP	15 29 08	Z	1.2	65.9 (0)		
		eSCP	15 33 38	Z	2.0	63.4 (0)		
		eSCS	15 37 48	R	3.0	29.1 (1)		
		eL	15 41 36	Z	16.0	7.0 (0)		
22	MN	eP	15 27 40.5	Z	999.9	99.9 (9)	37.0	
		eP	15 27 41	LZ	15	10.4 (2)		
		eS	15 33 30	LT	999.9	99.9 (9)		
		eSCP	15 33 43	Z	2.4	12.6 (1)		
		eSCS	15 37 51	R	3.3	24.8 (1)		
		eL	15 39 20	T	10.0	60.9 (2)		
22	TF	eP	15 27 49.2	Z	999.9	99.9 (9)	38.0	
		eP	15 27 50	LZ	12	54.1 (2)		
		eS	15 33 33	LR	999.9	99.9 (9)		
22	FM	eP	15 28 06.9	Z	999.9	99.9 (9)	41.0	
		eP	15 28 09	LZ	13	21.8 (2)		
		ePP	15 29 57	LZ	18	16.8 (2)		
		ePP	15 30 00	Z	2.5	25.2 (1)		
		eSCP	15 33 59	Z	2.3	10.5 (1)		
		eL	15 38 37	LZ	25	29.4 (2)		
22	CP	eP	15 28 21.9	Z	999.9	99.9 (9)	42.0	
		eP	15 28 23	LZ	16	23.5 (2)		
		eSCP	15 34 02	Z	1.8	27.6 (0)		
		eS	15 34 37	LT	999.9	99.9 (9)		
		eS	15 34 41	T	3.5	18.9 (1)		
		eSCS	15 37 55	LT	999.9	99.9 (9)		
		eSCS	15 38 23	R	3.0	12.1 (1)		
22	LC	eP	15 29 10.3	Z	999.9	99.9 (9)	48.0	
		eP	15 29 10	LZ	12	11.8 (2)		
		ePP	15 31 15	Z	2.5	18.4 (1)		
		ePP	15 31 32	LZ	14	11.5 (2)		
		eSP	15 35 40	LZ	999.9	99.9 (9)		
		eSS	15 38 58	LT	999.9	99.9 (9)		
22	NG	eP	15 29 25.4	Z	999.9	99.9 (9)	50.0	
		eP	15 29 37	LZ	20	52.3 (1)		
		eS	15 36 37	LR	999.9	99.9 (9)		
		eS	15 36 40	R	2.8	43.8 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
22	SJ	eP	15 30 14.5	Z	1.0	78.4 (0)	57.0	5.69
		eP	15 30 15	LZ	12	25.3 (2)		
		e	15 30 33	Z	1.4	53.6 (1)		
		eS	15 38 01	LR	999.9	99.9 (9)		
		eLR	15 42 22	LZ	999.9	99.9 (9)		
22	DH	eP	15 30 34.8	Z	0.8	18.2 (0)	60.0	5.20
		eP	15 30 35	LZ	20	29.6 (2)		
		e	15 30 39	Z	0.8	87.6 (0)		
		eS	15 38 45	LR	19	87.1 (2)		
		eS	15 38 45	LT	18	99.9 (9)		
		ePS	15 39 20	LT	14	26.9 (2)		
		eSS	15 43 07	LT	22	51.0 (2)		
		eSSS	15 45 40	LR	18	50.9 (2)		
		eLQ	15 48 35	LR	22	44.0 (2)		
		eLR	15 50 50	LZ	20	39.2 (2)		
							AVG.	5.10
22	23 27 59.5		05.1 S 151.2 E H = 105 KM			NEW BRITAIN REGION		
22	MN	eP	23 41 06.4	Z	1.0	7.9 (0)	94.0	5.08
22	WI	eP	23 41 10.5	Z	1.0	3.3 (0)	95.0	4.71
22	CP	eP	23 41 12.0	Z	0.8	3.4 (0)	95.0	4.82
							AVG.	4.87
23	00 43 56.3		41.3 N 020.4 E H = 033 KM			ALBANIA-YUGOSLAVIA REGION		
23	LC	eP	02 03 29.5	Z	0.8	2.1 (0)		
23	WI	eP	02 40 30.4	Z	999.9	99.9 (9)		
23	MN	eP	02 40 52.4	Z	0.3	4.8 (0)	2.7	
23	MV	eP	02 41 14.8	Z	0.3	1.1 (0)	3.3	
23	MN	eS	02 41 27	T	999.9	99.9 (9)	2.7	
23	MV	eS	02 41 56	R	0.4	7.4 (0)	3.3	
23	CP	eP	03 34 15.6	Z	0.2	2.7 (0)	1.1	
		eS	03 34 30	T	0.2	24.1 (0)		
23	MV	eP	03 58 53.6	Z	0.4	0.5 (0)		
23	MN	eP	03 59 02.9	Z	1.0	2.3 (0)		
23	WI	eP	03 59 49.1	Z	0.5	0.8 (0)		
23	LC	eL	04 31 12	LZ	22	11.7 (1)		
23	LC	eL	04 34 05	LZ	20	21.1 (1)		
23	LC	eL	04 34 05	LR	20	11.1 (1)		
23	LC	eL	04 34 05	LT	16	11.8 (1)		
23	WI	eP	06 21 15.6	Z	0.6	1.8 (0)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	06 28	07.0	37.9 N H =196 KM	073.1 E	HINDU KUSH			
23	CP	eP eS	08 15 38.5 08 15 48	Z T	0.3 999.9	6.1 (0) 99.9 (9)	0.7	
23	08 20	09.2	26.7 N H =033 KM	116.4 E	FUKIEN PROVINCE, CHINA			
23	WI	eP eS	08 20 55.6 08 21 06	Z T	0.4 0.4	18.3 (0) 6.1 (0)	0.7	
23	NG	eP	09 37 52.8	Z	1.0	35.0 (0)		
23	MN	eP	09 45 03.4	Z	1.0	1.5 (0)		
23	10 21	55.3	15.3 N H =052 KM	121.7 E	NEAR E. COAST LUZON, P.I.			
23	10 48	14.1	52.5 N H =053 KM	168.9 W	FOX-ALEUTIAN ISLANDS			
23	WI	eP eL eL eL eL	10 55 12.0 11 05 58 11 08 18 11 08 18 11 08 18	Z LZ LZ LR LT	1.0 25 17 17 17	3.3 (0) 12.0 (1) 18.0 (1) 10.8 (1) 22.1 (1)	36.0	4.17
23	MN	eP	10 55 28.9	Z	1.0	1.5 (0)	38.0	3.80
23	FM	eP	10 55 53.8	Z	1.5	17.6 (0)	41.0	4.62
						AVG.		4.20
23	WI	eP eS	14 00 23.4 14 00 34	Z T	0.4 0.4	16.8 (0) 9.5 (0)	0.8	
23	WI	eP eS	14 07 49.7 14 08 00	Z R	0.3 0.3	22.6 (0) 8.3 (0)	0.7	
23	15 04	37.6	52.5 N H =033 KM	168.3 W	FOX-ALEUTIAN ISLANDS			
23	MN	eP	15 11 46.3	Z	0.5	0.5 (0)	37.0	3.64
23	LC	eP	15 13 16.5	Z	0.6	0.5 (0)	48.0	3.73
						AVG.		3.68

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
23	15 34	30.5	38.1 S H =031 KM	179.4 W	COAST N. IS., NEW ZEALAND			
23	18 52	38.8	52.5 N H =033 KM	169.0 W	FOX-ALEUTIAN ISLANDS			
23	FM	eP eS	18 55 38.5 18 55 47	Z T	0.3 0.4	1.0 (0) 10.5 (0)	0.6	
23	MN	eP	19 45 48.1	Z	0.7	1.5 (0)		
23	20 15	13.3	01.4 S H =205 KM	152.5 E	NEW IRELAND REGION			
23	CP	eP eS	20 55 22.5 20 55 34	Z T	999.9 999.9	99.9 (9) 99.9 (9)	0.8	
24	TF	eP	00 16 59.1	Z	0.4	26.0 (0)	2.7	
24	MV	eP	00 17 01.1	Z	0.5	29.5 (0)	2.0	
24	MN	eP e	00 17 13.4 00 17 24	Z Z	0.5 0.6	1.8 (0) 11.6 (0)	3.8	
24	MV	eS	00 17 28	T	0.5	41.3 (0)	2.0	
24	TF	eS	00 17 33	T	0.5	53.0 (0)	2.7	
24	MN	eS	00 18 00	R	0.9	27.6 (0)	3.8	
24	00 23	53.1	59.1 S H =033 KM	026.0 W	SANDWICH ISLANDS REGION			
24	WI	eP†	00 42 51.5	Z	0.9	6.8 (0)	125.0	
24	MV	eP†	00 42 52.5	Z	1.1	8.0 (0)	125.0	
24	03 42	42.1	39.1 N H =033 KM	139.0 E	W. COAST N. HONSHU, JAPAN			
24	MV	eP	03 54 07.9	Z	1.0	6.5 (0)	73.0	4.61
24	WI	eP	03 54 15.9	Z	1.0	6.6 (0)	74.0	4.55
24	MN	eP	03 54 23.5	Z	0.7	4.0 (0)	75.0	4.49
24	LC	eP	03 55 22.4	Z	1.0	3.6 (0)	86.0	4.39
						AVG.		4.51
24	MV	eP	04 32 20.3	Z	0.4	8.9 (0)	1.5	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	WI	eP	04 32 28.8	Z	999.9	99.9 (9)	2.6	
24	MN	eP	04 32 34.4	Z	0.3	0.5 (0)	2.9	
		e	04 32 37	Z	0.5	4.3 (0)		
24	MV	eS	04 32 39	R	0.4	30.2 (0)	1.5	
24	WI	eS	04 33 02	R	999.9	99.9 (9)	2.6	
24	MN	eS	04 33 11	R	0.5	20.3 (0)	2.9	
24	FM	eP	05 12 53.6	Z	0.2	34.0 (0)	0.7	
		eS	05 13 03	R	0.3	75.0 (0)		
24	WI	eP	05 25 00.7	Z	999.9	99.9 (9)		
24	WI	eP	10 55 02.3	Z	1.0	4.4 (0)		
24	LC	eP	10 55 53.8	Z	0.8	2.0 (0)		
24	NG	eL	11 11 20	LZ	32	31.8 (1)		
24	11	11 42.0	73.6 N 057.5 E	NOVAYA ZEMLYA				
24	WI	eP	11 22 28.0	Z	1.6	19.1 (0)	65.0	5.07
		eL	11 42 20	LZ	40	20.3 (2)		
		eL	11 48 45	LZ	27	28.8 (2)		
		eL	11 48 45	LR	26	25.9 (2)		
		eL	11 48 45	LT	26	11.5 (2)		
		e	17 31 48	LZ	368	11.5 (2)		
24	MV	eP	11 22 41.3	Z	1.4	11.6 (0)	67.0	4.91
24	LC	eP	11 23 20.2	Z	1.3	14.0 (0)	74.0	4.83
		eLR	11 45 58	LZ	43	18.1 (2)		
		eL	11 58 00	LZ	18	26.3 (2)		
		eL	11 58 00	LR	21	70.4 (1)		
		eL	11 58 00	LT	20	17.1 (2)		
24	DH	eL	11 38 20	LZ	37	31.0 (2)	60.0	
		eL	11 50 10	LZ	17	35.9 (2)		
		eL	11 50 10	LR	16	43.4 (1)		
		eL	11 50 10	LT	17	24.1 (2)		
		e	17 42 25	LZ	215	24.1 (2)		
24	NG	eL	11 38 30	LZ	35	20.3 (2)	59.0	
		eL	17 19 30	LZ	200	20.3 (2)		
24	FM	eL	11 42 50	LZ	35	15.4 (2)	67.0	
		eL	11 47 35	LR	28	87.4 (1)		
		eL	11 47 35	LT	28	11.5 (2)		
24	MN	eLR	11 45 00	LZ	39	13.4 (2)	67.0	
		eL	11 52 30	LZ	23	22.4 (2)		
		eL	11 52 30	LR	23	11.7 (2)		
		eL	11 52 30	LT	22	16.2 (2)		
24	TF	eLR	11 45 54	LR	40	18.4 (2)	72.0	
		eL	11 50 04	LZ	25	17.6 (2)		
		eL	11 50 04	LR	27	18.3 (2)		
		eL	11 50 04	LT	25	11.3 (2)		
24	CP	eL	11 46 40	LZ	30	14.1 (2)	73.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	SJ	eLR	11 52 30	LZ	26	13.0 (2)	78.0	
		eL	12 00 50	LZ	18	16.1 (2)		
		eL	12 00 50	LR	18	27.7 (2)		
		eL	12 00 50	LT	18	37.5 (2)		
							AVG.	4.94
24	11	40 46.7	22.0 S 170.1 E	LOYALTY ISLANDS REGION H = 033 KM				
24	MN	eP	11 53 43.4	Z	1.0	3.2 (0)	90.0	4.48
24	WI	eP	11 53 53.7	Z	1.0	2.2 (0)	92.0	4.44
							AVG.	4.46
24	CP	eP	13 16 30.4	Z	0.5	3.2 (0)		
24	CP	e	13 16 41	Z	0.7	81.4 (0)		
24	LC	eP	13 17 25.2	Z	0.5	3.6 (0)		
24	MN	eP	13 18 25.3	Z	0.8	0.9 (0)		
24	LC	eL	13 19 02	R	0.7	9.6 (0)		
24	WI	eP	17 21 54.5	Z	999.9	99.9 (9)	0.7	
		eS	17 22 04	R	0.4	8.1 (0)		
24	17	43 05.3	08.4 S 078.7 W	NEAR COAST CENTRAL PERU H = 080 KM				
24	LC	eP	17 51 42.7	Z	1.0	7.2 (0)	48.0	4.52
		epP	17 52 03	Z	0.9	4.6 (0)		
24	DH	eP	17 51 56.8	Z	0.7	10.2 (0)	50.0	4.86
24	MN	eP	17 53 01.4	Z	0.8	2.9 (0)	59.0	4.36
24	FM	eP	17 53 01.7	Z	1.0	7.1 (0)	59.0	4.65
24	WI	eP	17 53 11.9	Z	0.9	5.9 (0)	61.0	4.64
							AVG.	4.60
24	CP	eP	18 46 48.4	Z	0.3	27.7 (0)	0.1	
		eS	18 46 52	T	0.5	57.3 (0)		
24	NG	eP	20 25 04.0	Z	0.8	20.0 (0)		
24	NG	eL	22 22 35	LZ	20	43.3 (1)		
24	CP	eL	23 09 20	LZ	20	10.7 (2)		
24	SJ	eL	23 10 00	LZ	20	10.3 (2)		
24	LC	eL	23 10 30	LZ	27	95.2 (1)		
24	TF	eL	23 10 30	LT	18	13.2 (2)		
24	MV	eL	23 11 15	LZ	23	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
24	MN	eL	23 12 10	LZ	22	18.4 (2)		
24	TF	eL	23 12 20	LZ	18	29.5 (2)		
24	TF	eL	23 12 20	LR	18	90.3 (1)		
24	TF	eL	23 12 20	LT	18	13.2 (2)		
24	SJ	eL	23 12 25	LZ	18	94.0 (1)		
24	SJ	eL	23 12 25	LR	18	23.0 (2)		
24	SJ	eL	23 12 25	LT	18	18.0 (2)		
24	FM	eL	23 12 39	LZ	23	71.0 (1)		
24	LC	eL	23 12 48	LZ	19	81.3 (1)		
24	LC	eL	23 12 48	LT	18	48.6 (1)		
24	WI	eL	23 13 33	LZ	23	13.6 (2)		
24	MN	eL	23 14 33	LZ	19	16.6 (2)		
24	MN	eL	23 14 33	LR	20	79.4 (1)		
24	MN	eL	23 14 33	LT	19	14.8 (2)		
24	FM	eL	23 14 39	LZ	19	56.2 (1)		
24	FM	eL	23 14 39	LR	18	20.8 (1)		
24	FM	eL	23 14 39	LT	18	61.5 (1)		
24	WI	eL	23 17 21	LZ	17	14.9 (2)		
24	WI	eL	23 17 21	LR	17	17.8 (2)		
24	WI	eL	23 17 21	LT	17	89.4 (1)		
25	WI	eP	00 58 58.3	Z	0.3	11.7 (0)	0.5	
		eS	00 59 06	R	0.4	14.0 (0)		
25	WI	eP	01 47 15.2	Z	999.9	99.9 (9)		
25	MN	eP	01 47 37.2	Z	0.3	0.5 (0)	2.6	
		e	01 47 42	Z	0.3	4.9 (0)		
		eS	01 48 10	R	0.5	11.1 (0)		
25	WI	eP	06 56 58.0	Z	999.9	99.9 (9)		
25	MN	eP	06 57 19.7	Z	0.3	2.9 (0)	2.6	
		eS	06 57 53	T	0.5	22.1 (0)		
25	12 09 45.6		36.2 S 100.2 W			SOUTH PACIFIC OCEAN		
			H = 033 KM					
25	SJ	eP	12 20 14.9	Z	0.7	28.9 (0)	64.0	5.51
		eS	12 28 50	LR	17	97.3 (1)		
		eSCS	12 30 15	LR	17	67.6 (1)		
		eLQ	12 36 17	LR	30	21.2 (2)		
		eLR	12 40 00	LZ	20	66.5 (1)		
		eL	12 40 00	LR	17	32.4 (2)		
		eL	12 40 00	LT	18	24.1 (2)		
25	LC	eP	12 20 46.1	Z	1.0	7.2 (0)	69.0	4.73
		eS	12 29 50	LR	15	45.0 (1)		
		eS	12 29 50	LT	15	37.0 (1)		
		eL	12 39 10	LR	30	70.4 (1)		
25	CP	eP	12 20 59.7	Z	1.0	11.4 (0)	71.0	4.86
25	TF	eP	12 21 20.0	Z	0.8	10.2 (0)	74.0	4.83

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	12 30 47	LR	18	51.9 (1)		
		eL	12 40 55	LR	30	22.3 (2)		
		eL	12 44 25	LZ	22	16.0 (2)		
25	FM	eP	12 21 29.1	Z	1.0	20.9 (0)	76.0	5.12
25	MN	eP	12 21 31.2	Z	1.0	11.4 (0)	76.0	4.86
		eL	12 42 05	LZ	20	19.3 (1)		
		eL	12 42 05	LR	20	50.1 (1)		
		eL	12 42 05	LT	20	80.3 (1)		
25	MV	eP	12 21 39.0	Z	1.0	9.6 (0)	77.0	4.78
		eLQ	12 42 35	LR	25	64.0 (1)		
		eL	12 46 45	LZ	22	12.5 (2)		
		eL	12 46 45	LR	20	62.7 (1)		
		eL	12 46 45	LT	22	50.7 (1)		
25	WI	eP	12 21 46.0	Z	1.0	7.6 (0)	79.0	4.62
		eL	12 43 07	LT	30	11.9 (2)		
25	DH	eP	12 22 00.1	Z	0.8	18.3 (0)	81.0	5.09
		eLQ	12 44 05	LR	50	37.9 (2)		
		eLR	12 49 30	LZ	30	23.6 (2)		
25	NG	eL	12 46 40	LR	30	12.8 (2)	82.0	
						AVG.		4.93
25	12 43 58.9		28.2 S 063.2 W			S. DEL ESTERO PROV., ARG.		
			H = 589 KM					
25	WI	eP	13 38 37.0	Z	1.0	3.2 (0)		
25	MN	eP	13 55 05.3	Z	0.3	2.9 (0)	0.6	
		eS	13 55 14	T	0.5	21.6 (0)		
25	MN	eP	13 57 46.5	Z	1.0	2.4 (0)		
25	DH	eL	14 08 00	LZ	25	86.7 (1)		
25	MV	eL	14 08 40	LZ	23	32.1 (1)		
25	WI	eL	14 08 45	LZ	24	34.5 (1)		
25	MN	eL	14 09 00	LZ	35	35.4 (1)		
25	MN	eL	14 15 00	LZ	23	67.6 (1)		
25	MN	eL	14 15 00	LR	20	30.0 (1)		
25	MN	eL	14 15 00	LT	20	38.6 (1)		
25	WI	eL	14 45 00	LZ	23	55.8 (1)		
25	WI	eL	14 45 00	LR	20	40.8 (1)		
25	WI	eL	14 45 00	LT	20	34.0 (1)		
25	18 57 45.4		36.7 N 141.0 E			NEAR COAST HONSHU, JAPAN		
			H = 080 KM					
26	MV	eP	00 39 09.2	Z	0.3	9.7 (0)	0.9	
		eS	00 39 21	R	0.3	44.5 (0)		
26	01 19 10.2		16.6 N 099.2 W			GUERRERO, MEXICO		
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
26	LC	eP	01 23 07.3	Z	0.9	11.2 (0)	17.0	4.02
		e	01 23 15	Z	0.8	99.9 (9)		
		eL	01 28 21	T	3.0	23.4 (1)		
		eL	01 28 25	LR	17	18.0 (2)		
		eL	01 28 25	LT	14	16.4 (2)		
26	MN	eP	01 24 54.5	Z	0.8	4.8 (0)	27.0	4.21
26	WI	eP	01 25 11.4	Z	0.8	6.5 (0)	29.0	4.44
						AVG.		4.22
26	05 28 36.7		52.5 N 168.4 W			FOX-ALEUTIAN ISLANDS		
			H = 033 KM					
26	06 12 26.5		12.8 N 060.9 W			WINDWARD ISLANDS		
			H = 032 KM					
26	08 58 11.1		39.3 N 010.6 W			OFF COAST OF PORTUGAL		
			H = 019 KM					
26	14 58 56.4		38.6 N 072.8 E			TADZIK, S.S.R.		
			H = 188 KM					
26	MN	eL	18 17 32	LT	22	10.7 (2)		
26	MN	eP	20 18 58.8	Z	0.3	3.2 (0)	3.0	
		e	20 19 07	Z	0.4	6.3 (0)		
26	WI	eP	20 19 16.3	Z	0.3	1.1 (0)		
26	WI	e	20 19 28	Z	0.3	3.9 (0)		
26	MN	eS	20 19 51	R	0.5	18.0 (0)	3.0	
26	MV	eP	20 19 57.0	Z	0.5	1.2 (0)		
26	WI	eL	20 20 26	R	999.9	99.9 (9)		
26	MV	eL	20 21 14	T	0.7	4.6 (0)		
26	22 25 15.5		53.9 N 168.7 E			KOMANDORSKIE ISLANDS		
			H = 033 KM			MAG 6.50- PAS		
26	MV	eP	22 33 55.0	Z	0.7	36.2 (0)	48.0	5.51
		eP	22 33 55	LZ	15	99.9 (9)		
		ePP	22 36 00	LZ	15	23.4 (2)		
		ePPP	22 36 30	LZ	15	18.2 (2)		
		e	22 36 45	Z	1.8	11.5 (1)		
		eSCP	22 39 10	LZ	22	16.5 (2)		
		eS	22 40 55	R	3.0	65.1 (1)		
		eS	22 40 55	T	3.5	73.1 (1)		
		ePS	22 40 45	LT	20	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		ePPS	22 41 07	R	3.5	83.3 (1)		
		eSCS	22 43 40	LT	15	99.9 (9)		
		eSCS	22 43 45	R	2.5	31.2 (1)		
		eL	22 44 30	LT	999.9	99.9 (9)		
26	WI	eP	22 34 01.6	Z	1.0	99.9 (9)	49.0	
		eP	22 34 03	LZ	18	24.0 (2)		
		ePPS	22 41 44	T	2.8	41.4 (1)		
		eSCS	22 43 52	R	3.2	22.4 (1)		
26	MN	eP	22 34 13.4	Z	0.7	34.3 (0)	51.0	5.42
		eP	22 34 14	LZ	17	25.0 (2)		
		e	22 35 40	LZ	18	18.4 (2)		
		e	22 37 10	Z	2.5	29.9 (1)		
		eS	22 41 27	R	3.0	43.2 (1)		
		eS	22 41 27	T	2.7	53.2 (1)		
		eS	22 41 27	LT	999.9	99.9 (9)		
		eSCS	22 44 03	R	3.2	70.0 (1)		
26	CP	eP	22 34 49.7	Z	1.0	26.9 (0)	56.0	5.22
		eP	22 34 51	LZ	18	36.8 (2)		
		e	22 36 28	Z	2.0	25.6 (1)		
		e	22 39 55	LZ	18	16.4 (2)		
		eS	22 42 37	R	2.4	90.1 (0)		
		eS	22 42 39	LR	23	99.9 (9)		
		eS	22 42 39	LT	24	99.9 (9)		
		ePPS	22 42 59	R	2.5	14.1 (1)		
		e	22 43 37	T	999.9	99.9 (9)		
		e	22 43 48	T	2.5	11.8 (1)		
		eSCS	22 44 36	R	3.0	23.5 (1)		
		eSS	22 46 35	LT	20	60.5 (2)		
		eSSS	22 49 00	LT	20	45.5 (2)		
		eL	22 50 32	LT	999.9	99.9 (9)		
26	NG	eP	22 35 28.2	Z	0.7	27.1 (0)	61.0	5.45
		eP	22 35 30	LZ	18	10.3 (2)		
		ePCS	22 40 02	R	2.0	11.1 (1)		
		eS	22 43 47	R	2.5	44.6 (1)		
		eS	22 43 47	T	2.8	20.9 (2)		
		eS	22 43 47	LR	999.9	99.9 (9)		
26	DH	eP	22 36 23.0	Z	0.7	3.5 (0)	70.0	4.50
		e	22 37 55	Z	1.0	5.1 (0)		
		eS	22 45 25	LR	20	45.9 (1)		
		eS	22 45 25	LT	27	24.3 (1)		
		ePS	22 46 15	LR	20	32.0 (1)		
		eSS	22 50 03	LR	18	38.1 (1)		
		eSSS	22 53 27	LR	20	72.1 (1)		
		eL	22 56 45	LR	25	76.6 (1)		
26	SJ	eP	22 36 26.2	Z	1.0	91.7 (0)	70.0	5.76
		eP	22 36 27	LZ	17	39.6 (1)		
		e	22 37 40	LZ	12	30.1 (1)		
		e	22 38 07	Z	1.5	33.7 (1)		
		ePP	22 38 50	LZ	12	37.9 (1)		
		eS	22 45 36	R	2.5	10.7 (1)		
		eS	22 45 36	T	3.5	81.0 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eS	22 45 25	LR	19	99.9 (9)		
							AVG.	5.31
26	23 25	16.7	23.9 N 065.4 E			ARABIAN SEA		
			H =034 KM					
26	MN	eP	23 44 02.8	Z	0.8	8.1 (0)	118.0	
		e	23 44 10	Z	0.8	11.9 (0)		
26	23 46	14.7	54.0 N 168.8 E			KOMANDORSKIE ISLANDS		
			H =033 KM					
26	MV	eP	23 54 54.0	Z	0.7	98.8 (0)	48.0	5.95
		ePCP	23 56 20	Z	0.7	20.9 (0)		
		ePP	23 56 30	Z	0.8	39.2 (0)		
27	MV	eSCP	00 00 13	Z	1.5	23.7 (0)	48.0	
		eS	00 01 53	R	2.5	11.7 (1)		
		eS	00 01 53	T	2.2	65.3 (0)		
		eSCS	00 04 43	R	2.5	97.6 (0)		
26	WI	eP	23 54 59.3	Z	1.0	80.2 (0)	49.0	5.67
27	WI	eSCP	00 00 17	Z	2.5	16.4 (1)	49.0	
		eS	00 02 04	R	1.7	44.5 (0)		
		eS	00 02 04	T	1.5	32.6 (0)		
		eSCS	00 04 53	R	2.5	93.4 (0)		
26	MN	eP	23 55 12.3	Z	0.8	43.5 (0)	51.0	5.46
27	MN	eS	00 02 26	R	1.5	12.2 (0)	51.0	
		eS	00 02 26	T	2.2	87.3 (0)		
		eSCS	00 05 00	R	3.0	17.2 (1)		
26	CP	eP	23 55 48.6	Z	1.0	29.7 (0)	56.0	5.27
26	LC	eP	23 56 30.4	Z	1.0	55.4 (0)	61.0	5.61
26	DH	eP	23 57 21.5	Z	0.9	7.0 (0)	69.0	4.76
26	SJ	eP	23 57 24.2	Z	0.9	52.9 (0)	70.0	5.57
26	NG	eP	23 57 27.0	Z	0.5	25.7 (0)	71.0	5.51
27	NG	eS	00 04 46	R	2.5	33.4 (1)	71.0	
		eS	00 04 46	T	1.8	90.7 (0)		
		ePS	00 04 57	R	2.0	13.9 (1)		
							AVG.	5.47
27	01 28	47.6	53.9 N 168.7 E			KOMANDORSKIE ISLANDS		
			H =033 KM					
27	WI	eP	01 37 34.1	Z	0.9	4.2 (0)	49.0	4.43
27	MN	eP	01 37 46.0	Z	1.1	5.0 (0)	51.0	4.39
27	FM	eP	01 38 07.4	Z	1.0	6.8 (0)	54.0	4.63
27	LC	eP	01 39 04.2	Z	0.8	2.9 (0)	62.0	4.49

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
							AVG.	4.49
27	01 37	57.1	23.7 S 065.4 W			JUJUY PROVINCE, ARGENTINA		
			H =227 KM					
27	LC	eP	01 48 35.1	Z	1.0	4.9 (0)	68.0	4.19
27	CP	eP	01 49 10.1	Z	0.8	5.1 (0)	74.0	4.30
27	FM	eP	01 49 24.5	Z	0.6	5.7 (0)	77.0	4.48
27	MN	eP	01 49 38.8	Z	1.0	4.1 (0)	79.0	4.14
27	WI	eP	01 49 46.2	Z	0.9	11.8 (0)	81.0	4.64
							AVG.	4.35
27	04 13	54.7	14.8 S 173.2 W			SAMOA ISLANDS		
			H =054 KM					
27	TF	eP	04 25 07.7	Z	1.0	12.6 (0)	71.0	4.83
		eLR	04 46 20	LZ	24	50.8 (1)		
		eL	04 46 55	LZ	26	54.7 (1)		
		eL	04 46 55	LR	25	40.7 (1)		
27	MV	eP	04 25 15.6	Z	0.6	2.0 (0)	72.0	4.26
		eLR	04 47 10	LT	30	42.0 (1)		
27	MN	eP	04 25 25.2	Z	1.0	7.3 (0)	74.0	4.56
		eL	04 47 54	LZ	29	41.4 (1)		
27	WI	eP	04 25 37.6	Z	0.8	3.2 (0)	76.0	4.34
		epP	04 26 04	Z	1.0	6.5 (0)		
		eLR	04 49 03	LZ	24	28.2 (1)		
27	FM	eP	04 25 50.4	Z	1.0	10.3 (0)	78.0	4.75
		eL	04 50 29	LZ	25	26.1 (1)		
		eL	04 50 29	LR	25	23.9 (1)		
27	LC	eP	04 25 55.2	Z	0.9	4.7 (0)	79.0	4.41
		eLR	04 53 00	LZ	30	31.2 (1)		
27	NG	eL	05 10 21	LZ	24	30.3 (1)	97.0	
		eL	05 30 54	LZ	19	36.5 (1)		
		eL	05 30 54	LR	19	30.8 (1)		
							AVG.	4.52
27	06 45	35.3	05.1 S 152.2 E			NEW BRITAIN		
			H =066 KM					
27	08 24	48.1	12.5 N 120.9 E			COAST MINDORO, P.I.		
			H =033 KM					
27	11 13	38.2	28.6 S 067.4 W			NEAR COAST CENTRAL CHILE		
			H =033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
27	SJ	eP	11 24 06.5	Z	0.9	23.2 (0)	63.0	5.24
27	DH	eP	11 24 55.4	Z	0.8	11.9 (0)	71.0	4.97
		eP AS	11 25 23.2	Z	0.8	17.8 (0)		5.15
27	LC	eP	11 24 55.9	Z	1.0	39.4 (0)	71.0	5.39
		eP AS	11 25 24.0	Z	1.0	25.8 (0)		5.21
27	CP	eP	11 25 27.7	Z	0.8	6.8 (0)	77.0	4.73
27	FM	eP	11 25 43.9	Z	1.0	41.3 (0)	80.0	5.28
		eP AS	11 26 12.1	Z	1.0	24.1 (0)		5.04
27	TF	eP	11 25 48.7	Z	0.9	12.9 (0)	81.0	4.89
27	MN	eP	11 25 55.2	Z	1.0	9.0 (0)	82.0	4.75
		eP AS	11 26 24.1	Z	1.0	5.7 (0)		4.56
27	WI	eP	11 26 04.2	Z	1.0	18.6 (0)	84.0	5.17
		eP AS	11 26 33.2	Z	1.1	12.2 (0)		4.94
27	MV	eP	11 26 06.9	Z	1.0	6.4 (0)	84.0	4.71
							AS :	4.98
							AVG.	5.01
27	12 48 17.9		09.1 S 113.1 E				OFF COAST OF JAVA	
			H =040 KM					
27	SJ	eP*1	13 07 56.0	Z	0.8	17.8 (0)	146.0	
27	14 02 02.1		04.9 S 145.1 E				NEAR N. COAST NEW GUINEA	
			H =035 KM					
27	MV	eP	14 15 27.1	Z	0.8	4.7 (0)	97.0	5.14
		eLR	14 45 50	LZ	25	65.9 (1)		
		eL	14 52 24	LZ	25	65.9 (1)		
		eL	14 52 24	LR	25	40.3 (1)		
27	TF	eP	14 15 31.8	Z	0.8	4.9 (0)	97.0	5.15
		eLR	14 46 20	LZ	30	74.2 (1)		
27	MN	eP	14 15 38.3	Z	0.8	2.9 (0)	99.0	5.02
		eLR	14 47 07	LZ	29	76.0 (1)		
27	WI	eP	14 15 40.7	Z	1.0	3.2 (0)	99.0	4.98
		eLR	14 48 09	LZ	28	86.6 (1)		
27	LC	ePKKP	14 31 56	Z	0.8	17.4 (0)	108.0	
		e	14 32 14	Z	1.0	14.7 (0)		
		eLR	14 53 30	LZ	26	35.8 (1)		
		eL	14 57 44	LZ	26	47.8 (1)		
		eL	14 57 44	LR	25	41.1 (1)		
27	CP	eLR	14 47 54	LZ	30	65.8 (1)	99.0	
27	FM	eLR	14 49 50	LZ	25	43.5 (1)	102.0	
		eL	14 53 10	LZ	22	55.3 (1)		
		eL	14 53 10	LR	25	31.1 (1)		
		eL	14 53 10	LT	23	53.2 (1)		
27	SJ	eL	14 55 41	LT	30	14.3 (2)	116.0	
27	NG	eLR	14 58 27	LZ	28	38.8 (1)	118.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eL	15 20 33	LZ	23	54.2 (1)		
		eL	15 20 33	LR	22	36.3 (1)		
27	DH	eLR	15 04 49	LZ	25	80.2 (1)	128.0	
		eL	15 07 15	LZ	20	62.8 (1)		
		eL	15 07 15	LT	24	64.9 (1)		
							AVG.	5.07
27	WI	eP	14 08 51.7	Z	1.0	2.1 (0)		
27	CP	eL	14 18 49	LZ	23	70.3 (1)		
27	TF	e	14 18 24	LR	20	53.9 (1)		
27	TF	eL	14 20 19	LZ	20	11.1 (2)		
27	TF	eL	14 21 15	LZ	19	29.2 (1)		
27	TF	eL	14 21 15	LR	18	80.7 (1)		
27	TF	eL	14 21 15	LT	18	12.7 (2)		
27	MN	eL	14 22 04	LZ	25	55.6 (1)		
27	MV	eLR	14 22 41	LZ	18	90.9 (1)		
27	FM	eL	14 23 04	LZ	18	24.9 (1)		
27	WI	eLR	14 23 34	LZ	21	54.9 (1)		
27	FM	eL	14 24 10	LZ	15	20.7 (1)		
27	FM	eL	14 24 10	LT	18	40.4 (1)		
27	DH	eL	14 28 35	LZ	22	52.5 (1)		
27	DH	eL	14 30 00	LZ	25	44.5 (1)		
27	DH	eL	14 30 00	LT	20	38.5 (1)		
27	18 18 42.0		39.9 N 142.0 E				OFF W. COAST HONSHU, JAPAN	
			H =036 KM					
27	MV	eP	18 29 55.1	Z	0.6	3.3 (0)	71.0	4.54
		eP AS	18 30 07.8	Z	1.2	49.7 (0)		5.40
		eS	18 39 09	LR	13	44.8 (1)		
		eLQ	18 47 13	LT	30	56.0 (1)		
		eLR	18 51 14	LZ	30	54.5 (1)		
27	WI	eP	18 30 01.6	Z	0.6	3.6 (0)	72.0	4.57
		eS	18 39 45	LR	18	28.3 (1)		
		eS	18 39 45	LT	19	99.9 (9)		
		e	18 47 25	LR	29	49.7 (1)		
		eLR	18 50 54	LZ	36	54.1 (1)		
		eL	18 55 25	LZ	20	52.0 (1)		
		eL	18 55 25	LR	20	39.3 (1)		
		eL	18 55 25	LT	21	35.0 (1)		
27	MN	eP	18 30 09.8	Z	0.8	6.3 (0)	73.0	4.68
		eP AS	18 30 27.2	Z	1.1	38.5 (0)		5.33
		eS	18 39 39	LR	25	59.4 (1)		
		eS	18 39 39	LT	14	29.8 (1)		
		eSS	18 44 04	LR	42	48.2 (1)		
		eSSS	18 47 43	LR	22	29.6 (1)		
		eLR	18 52 35	LZ	25	70.2 (1)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
27	TF	eP	18 30 14.5	Z	0.6	5.2 (0)	74.0	4.67	
		eP AS	18 30 27.2	Z	1.0	37.8 (0)			
		eS	18 39 47	LR	18	47.8 (1)			
		eS	18 39 47	LT	18	40.4 (1)			
		eLQ	18 49 35	LR	23	37.7 (1)			
		eLR	18 52 39	LZ	25	93.1 (1)			
		eL	18 52 53	LZ	25	93.1 (1)			
		eL	18 52 53	LR	28	96.4 (1)			
		eL	18 52 53	LT	23	49.6 (1)			
		eP	18 30 27.8	Z	1.0	17.2 (0)			76.0
eP AS	18 30 42.5	Z	1.2	58.3 (0)					
eS	18 40 12	LR	18	42.1 (1)					
eS	18 40 12	LT	20	38.0 (1)					
eSS	18 44 40	LR	15	18.2 (1)					
eLQ	18 51 20	LR	20	29.5 (1)					
eLR	18 54 45	LZ	25	54.4 (1)					
eL	18 56 18	LZ	25	54.4 (1)					
eL	18 56 18	LT	24	60.4 (1)					
eP	18 30 35.7	Z	1.0	7.2 (0)	78.0	4.65			
eP AS	18 30 49.8	Z	1.2	40.2 (0)					
eL	18 54 15	LZ	30	94.1 (1)					
27	NG	eP	18 31 07.8	Z	0.8	15.7 (0)	84.0	5.18	
27	LC	eP	18 31 10.4	Z	1.0	20.9 (0)	84.0	5.21	
27	DH	eP AS	18 31 24.5	Z	1.0	46.7 (0)	92.0	5.94	
		eL	19 04 08	LZ	40	14.7 (2)			
								AS .	5.39
								AVG.	4.94
28	DH	eP	00 35 41.0	Z	1.0	80.6 (0)			
28	MV	eP	01 07 58.4	Z	0.4	2.2 (0)	0.3		
		eS	01 08 04	R	0.5	10.1 (0)			
28	MN	eP	02 50 28.0	Z	0.3	5.7 (0)	0.6		
		eS	02 50 37	R	0.4	13.8 (0)			
28	LC	eP	03 29 25.4	Z	0.3	2.6 (0)	0.2		
		eS	03 29 30	R	0.4	14.0 (0)			
28	WI	eP	05 36 35.5	Z	1.0	3.3 (0)			
28	CP	eP	06 00 26.0	Z	0.3	14.6 (0)	0.1		
		eS	06 00 30	T	0.4	11.1 (0)			
28	CP	eP	06 28 20.8	Z	0.5	4.4 (0)			
28	MN	eP	08 50 59.4	Z	0.3	14.3 (0)	0.1		
		eS	08 51 03	R	0.4	20.4 (0)			
28	WI	eP	09 08 04.3	Z	0.3	9.5 (0)	0.2		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG	
28	MN	eS	09 08 15	R	0.4	11.2 (0)	0.1		
		eP	09 17 09.1	Z	0.3	7.4 (0)			
		eS	09 17 12	R	0.4	22.1 (0)			
28	10 01	23.6	48.4 N 113.9 W	MONTANA					
							H =033 KM		
28	WI	eP	10 03 10.7	Z	0.5	0.8 (0)	7.0	3.85	
		e	10 03 40	Z	0.6	4.6 (0)			
28	MN	eL	10 05 05	R	0.7	23.7 (0)	11.0		
		eP	10 04 04.0	Z	999.9	99.9 (9)			
28	MN	eL	10 06 47	R	0.7	1.9 (0)			
		eP	12 53 06.1	Z	0.3	4.3 (0)			
28	MN	eS	12 53 17	R	0.4	8.3 (0)			
		eP	14 47 08.1	Z	0.8	15.7 (0)			
							53.7 N 163.7 W	FOX-ALEUTIAN ISLANDS	
							H =033 KM		
28	WI	eP	14 53 42.3	Z	1.0	8.8 (0)	33.0	4.61	
		eS	14 59 15	LR	15	12.8 (1)			
		eS	14 59 15	LT	23	17.8 (1)			
		eLR	15 01 20	LR	22	36.7 (1)			
		eL	15 04 27	LZ	19	29.2 (1)			
		eL	15 04 27	LR	19	32.0 (1)			
		eL	15 04 27	LT	20	28.9 (1)			
		eP	14 53 53.4	Z	999.9	99.9 (9)			34.0
		eS	14 59 26	LR	18	11.2 (1)			
		eS	14 59 26	LT	10	81.5 (3)			
eLR	15 03 13	LZ	22	31.0 (1)					
eL	15 08 37	LZ	17	16.3 (1)					
eL	15 08 37	LR	15	24.2 (1)					
eL	15 08 37	LT	8	36.8 (3)					
eP	14 54 36.7	Z	0.9	4.4 (0)	39.0	4.19			
eLR	15 05 50	LZ	20	27.4 (1)					
28	LC	eP	14 55 25.2	Z	1.0	4.9 (0)	45.0	4.32	
		eLR	15 09 45	LZ	22	38.9 (2)			
28	NG	eP	14 55 40.1	Z	0.9	10.3 (0)	47.0	4.85	
		eLR	15 14 10	LZ	25	29.0 (1)			
28	MV	eLR	15 02 23	LZ	20	31.1 (1)	31.0		
		eLR	15 02 35	LZ	18	17.5 (1)			
28	TF	eL	15 02 35	LR	19	37.4 (1)			
		eL	15 02 35	LT	16	20.9 (1)			
28	FM	eLR	15 07 49	LZ	20	22.4 (1)	38.0		
28	SJ	eLR	15 15 35	LT	20	20.2 (1)	53.0		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
	eL		15 17 45	LZ	18	29.0 (1)		
	eL		15 17 45	LR	15	40.5 (1)		
	eL		15 17 45	LT	18	64.7 (1)		
							AVG.	4.49
28	LC	eP	16 11 49.4	Z	0.3	2.1 (0)	3.0	
		e	16 11 54	Z	0.3	4.3 (0)		
		eS	16 12 27	T	0.4	9.6 (0)		
28	CP	eP	18 37 17.8	Z	0.3	10.4 (0)	0.1	
		eS	18 37 21	R	0.4	20.6 (0)		
28	WI	eP	19 01 41.7	Z	0.4	1.9 (0)	0.1	
		eS	19 01 45	R	0.5	8.2 (0)		
28	19 50	10.7	42.9 N 145.4 E	OFF COAST HOKKAIDO, JAPAN				
			H = 041 KM					
28	MV	eP	20 00 59.2	Z	1.0	6.4 (0)	67.0	4.68
28	MN	eP	20 01 04.9	Z	0.8	6.6 (0)	68.0	4.75
28	WI	eP	20 01 05.5	Z	0.8	3.2 (0)	68.0	4.44
28	FM	eP	20 01 32.2	Z	0.8	5.8 (0)	72.0	4.63
28	CP	eP	20 01 43.4	Z	1.0	5.8 (0)	74.0	4.48
28	LC	eP	20 02 18.4	Z	0.8	5.8 (0)	81.0	4.58
							AVG.	4.59
28	21 39	07.9	17.1 S 014.1 W	SOUTH ATLANTIC OCEAN				
			H = 033 KM					
28	DH	eP	21 51 24.1	Z	1.2	93.0 (0)	82.0	5.69
28	LC	eP	21 52 54.2	Z	1.0	4.9 (0)	101.0	5.02
28	NG	eL	22 22 10	LZ	25	24.1 (1)	92.0	
							AVG.	5.35
28	23 29	30.2	34.7 N 023.9 E	MEDITERRANEAN SEA				
			H = 033 KM					
29	CP	eP	00 04 35.2	Z	0.3	5.2 (0)		
29	CP	eP	01 38 52.0	Z	0.3	4.3 (0)	1.5	
		eS	01 39 12	T	0.3	32.2 (0)		
29	04 12	09.0	02.4 N 127.1 E	HALMAHERA REGION				
			H = 033 KM					

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	WI	ePD	04 26 26.1	Z	1.0	2.1 (0)	107.0	
		e	04 30 35	Z	1.1	2.7 (0)		
		ePKKP	04 41 52	Z	1.1	4.0 (0)		
29	MN	ePD	04 26 27.8	Z	1.0	1.5 (0)	108.0	
		eP	04 30 36.8	Z	1.2	3.6 (0)		
29	CP	eP	04 30 42.0	Z	0.7	2.2 (0)	111.0	
		ePP	04 31 17	Z	1.5	22.4 (0)		
29	LC	eP	04 30 56.6	Z	0.9	5.6 (0)	119.0	
		ePKKP	04 41 17.5	Z	1.2	3.7 (0)		
29	WI	eP	06 22 19.2	Z	0.4	29.5 (0)	0.7	
		eS	06 22 29	T	0.6	16.9 (0)		
29	08 04	25.7	23.9 N 065.2 E	AFGHANISTAN				
			H = 033 KM					
29	MN	eP	08 23 11.9	Z	1.0	2.3 (0)	117.0	
29	WI	eP	10 19 40.5	Z	0.9	3.3 (0)		
29	10 41	04.1	20.0 S 069.9 W	NORTHERN CHILE				
			H = 046 KM					
29	SJ	{P	10 50 31.3C	Z	2.0	41.1 (1)	55.0	6.11
		{P	10 50 32 C	LZ	13	13.9 (2)		
		eS	10 58 06	LR	19	68.7 (2)		
		eS	10 58 06	LT	15	18.7 (2)		
		eS	10 58 10	R	3.0	98.7 (1)		
		eS	10 58 10	T	4.0	32.8 (2)		
		eSCS	11 00 21	R	4.5	46.1 (2)		
29	DH	eP	10 51 23.1	Z	1.8	87.6 (1)	62.0	6.59
		{P	10 51 24 C	LZ	13	33.0 (2)		
		eS	10 59 46	LR	999.9	99.9 (9)		
		eSS	11 03 40	LR	23	19.8 (2)		
		eLQ	11 07 16	LR	35	43.3 (2)		
29	LC	{P	10 51 27.0C	Z	2.0	21.5 (1)	63.0	5.84
		{P	10 51 27 C	LZ	16	15.5 (2)		
		eS	10 59 55	R	3.5	18.1 (1)		
		eS	10 59 55	T	4.0	49.0 (1)		
		eS	10 59 55	LR	21	13.6 (2)		
		eS	10 59 55	LT	21	36.0 (2)		
		ePS	11 00 30	T	2.2	53.1 (0)		
		ePS	11 00 30	LT	27	18.5 (2)		
		eSCS	11 01 15	LT	18	24.2 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eSCS	11 01 19	T	3.5	34.0 (1)		
		e	11 02 10	LT	25	16.0 (2)		
		eSS	11 04 00	LR	26	25.8 (2)		
		eLQ	11 07 00	LT	32	34.0 (2)		
29	NG	eP	10 51 57.2	Z	999.9	99.9 (9)	67.0	
		tP	10 51 58 C	LZ	14	17.0 (2)		
		eS	11 00 48	LR	17	33.6 (2)		
		eSS	11 05 08	LR	27	29.7 (2)		
		e	11 06 50	LT	21	12.4 (2)		
		eLQ	11 08 10	LR	27	43.7 (2)		
29	CP	eLR	11 12 45	LZ	22	27.1 (2)		
		tP	10 52 05.9C	Z	2.0	26.7 (1)	69.0	5.94
		eP	10 52 06	LZ	15	18.1 (2)		
		eS	11 01 06	LR	999.9	99.9 (9)		
		eS	11 01 11	R	4.0	81.2 (1)		
		ePS	11 01 31	R	4.0	40.6 (1)		
		eSCS	11 02 01	T	3.5	40.9 (1)		
		eSS	11 05 53	LR	23	36.5 (2)		
		eSSS	11 09 08	LT	22	25.7 (2)		
		eLR	11 13 17	LZ	21	17.7 (2)		
		eL	11 17 45	LZ	22	43.7 (2)		
		eL	11 17 45	LR	22	27.5 (2)		
		eL	11 17 45	LT	24	49.9 (2)		
29	FM	eP	11 20 20	Z	2.2	50.9 (0)		
		tP	10 52 19.5C	Z	1.0	99.3 (0)	71.0	5.75
		tP	10 52 20 C	LZ	16	15.9 (2)		
		eS	10 01 32	LR	19	31.7 (2)		
		eS	10 01 32	LT	16	47.3 (2)		
		eS	10 01 35	R	3.8	38.9 (1)		
		eS	10 01 35	T	4.0	69.4 (1)		
		eSCS	10 02 17	T	4.0	55.5 (1)		
		eSS	10 06 17	LT	25	48.5 (2)		
		eSSS	10 09 49	LR	34	44.4 (2)		
		eLQ	10 12 34	LR	39	44.3 (2)		
		eLR	10 16 14	LZ	30	53.3 (2)		
		eL	10 25 44	LZ	20	47.7 (2)		
		eL	10 25 44	LR	24	29.4 (2)		
		eL	10 25 44	LT	18	55.8 (2)		
29	TF	tP	10 52 29.0C	Z	2.0	36.7 (1)	73.0	6.02
		tP	10 52 29 C	LZ	15	24.0 (2)		
		eS	11 01 52	LR	17	47.1 (2)		
		eS	11 01 52	LT	17	58.5 (2)		
		eS	11 01 54	R	3.0	40.6 (1)		
		eS	11 01 54	T	4.0	15.3 (2)		
		eSS	11 06 43	LT	30	55.8 (2)		
		eSSS	11 09 29	LT	22	17.9 (2)		
		eLQ	11 11 53	LR	34	52.4 (2)		
		eLR	11 15 00	LZ	24	15.2 (2)		
		eL	11 18 55	LZ	30	40.4 (2)		
		eL	11 18 55	LR	23	54.6 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	MN	eL	11 18 55	LT	30	39.1 (2)		
		tP	10 52 35.5C	Z	2.0	24.8 (1)	74.0	5.80
		eP	10 52 36	LZ	999.9	99.9 (9)		
		eS	11 02 07	R	4.4	60.2 (1)		
		eS	11 02 07	T	4.2	59.3 (1)		
		eS	11 02 07	LR	999.9	99.9 (9)		
		e	11 02 36	R	3.9	42.6 (1)		
		e	11 02 58	R	3.5	21.8 (1)		
		eSS	11 06 41	LR	999.9	99.9 (9)		
		eSSS	11 10 33	LR	24	14.8 (2)		
		eP	11 20 12	Z	1.5	4.6 (0)		
29	WI	tP	10 52 44.7C	Z	1.0	16.2 (1)	75.0	5.91
		tP	10 52 45 C	LZ	18	99.9 (9)		
		eS	11 02 24	T	2.2	79.7 (0)		
		eS	11 02 24	LT	14	24.9 (2)		
		eSCS	11 03 07	T	3.8	34.0 (1)		
		e	11 04 16	T	4.5	48.3 (1)		
		eSS	11 07 17	LT	26	30.9 (2)		
29	MV	tP	10 52 48.1C	Z	2.0	11.9 (1)	76.0	5.53
		tP	10 52 49 C	LZ	15	23.4 (2)		
		eS	11 02 31	R	4.5	40.8 (1)		
		eS	11 02 31	T	45.0	32.9 (0)		
		eS	11 02 35	LT	17	99.9 (9)		
		eSS	11 07 10	LT	30	54.2 (2)		
		eSSS	11 11 12	LT	31	19.2 (2)		
		eLQ	11 13 15	LT	33	45.8 (2)		
		eLR	11 18 15	LZ	27	39.4 (2)		
		eL	11 36 00	LZ	20	38.4 (2)		
		eL	11 36 00	LR	20	22.1 (2)		
		eL	11 36 00	LT	18	70.5 (1)		
							AVG.	5.94
29	14 47 41.4		31.2 S 177.9 W				KERMADEC ISLANDS REGION	
			H =043 KM				MAG 6.00-6.25 PAS	
29	TF	eP	15 00 16.9	Z	0.9	32.3 (0)	86.0	5.36
		eP	15 00 20	LZ	10	25.6 (4)		
		eSKS	15 10 35	LR	15	79.2 (1)		
		eS	15 10 53	LT	14	26.3 (2)		
		eSS	15 16 25	LT	18	13.2 (2)		
		e	15 22 52	LT	21	10.5 (2)		
		eLR	15 26 38	LZ	22	14.4 (2)		
29	CP	eP	15 00 20.0	Z	1.0	30.5 (0)	86.0	5.29
		eP	15 00 20	LZ	10	19.6 (4)		
		eS	15 10 53	LR	22	19.2 (2)		
		e	15 23 01	LT	25	21.0 (2)		
		eLR	15 28 52	LZ	20	48.5 (2)		
		eL	15 32 25	LZ	19	92.9 (2)		
		eL	15 32 25	LR	19	99.9 (9)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
29	MV	eL	15 32 25	LT	20	44.4 (2)	87.0	5.15				
		eP	15 00 25.5	Z	1.0	17.5 (0)						
		eP	15 00 30	LZ	9	12.8 (4)						
		eSKS	15 10 58	LT	14	91.8 (1)						
		eSS	15 16 13	LR	22	61.8 (1)						
29	MN	eLQ	15 23 41	LR	24	14.0 (2)	89.0	5.23				
		eLR	15 28 42	LZ	999.9	99.9 (9)						
		eP	15 00 32.1	Z	1.0	19.0 (0)						
		eP	15 00 35	LZ	10	90.8 (3)						
		ePP	15 03 54	Z	2.0	19.8 (0)						
		eSKS	15 11 03	LT	14	82.7 (1)						
		eS	15 11 25	LR	16	20.6 (2)						
		ePS	15 12 27	LT	20	91.9 (1)						
		ePPS	15 13 28	LT	25	97.8 (1)						
		eSS	15 17 15	LR	18	86.3 (1)						
		e	15 18 14	LT	14	60.0 (1)						
29	WI	eSSS	15 21 04	LT	20	70.7 (1)	91.0	5.35				
		e	15 23 55	LR	24	84.8 (1)						
		eLR	15 29 13	LZ	22	14.4 (2)						
		eP	15 00 43.0	Z	1.0	19.7 (0)						
		eP	15 00 47	LZ	11	99.9 (9)						
		eSKS	15 11 20	LT	15	91.6 (1)						
		eS	15 11 49	LR	16	20.8 (2)						
		ePS	15 13 10	LT	21	11.3 (2)						
		eSS	15 17 42	LR	20	87.3 (1)						
		e	15 24 13	LR	21	12.0 (2)						
		29	LC	eLR	15 30 48	LZ			999.9	99.9 (9)	93.0	4.89
eP	15 00 49.5			Z	1.1	6.0 (0)						
eP	15 00 52			LZ	12	23.8 (1)						
ePP	15 04 30			Z	1.6	8.4 (0)						
eSKS	15 11 23			LT	15	54.8 (1)						
eS	15 12 00			LR	17	76.0 (1)						
eS	15 12 00			LT	17	15.6 (2)						
ePS	15 13 13			LT	20	83.5 (1)						
eSS	15 18 00			LR	20	82.9 (1)						
eSSS	15 21 40			LR	23	36.2 (1)						
eSSSS	15 24 05			LR	22	42.6 (1)						
e	15 26 35			LR	16	15.7 (2)						
eLR	15 32 25			LZ	20	23.8 (2)						
eL	15 38 18			LZ	999.9	99.9 (9)						
eL	15 38 18			LR	19	24.8 (2)						
29	FM			eL	15 38 18	LT	18	43.8 (2)	93.0	5.16		
				eP	15 00 51.3	Z	1.0	10.2 (0)				
		eP	15 00 54	LZ	13	14.9 (1)						
		eSKS	15 11 30	LR	15	72.1 (1)						
		eS	15 12 07	LR	18	75.1 (1)						
		eS	15 12 07	LT	16	43.8 (2)						
		eSS	15 18 00	LT	16	11.8 (2)						
		e	15 20 50	LT	15	68.6 (1)						
		eSSSS	15 24 29	LT	16	15.3 (2)						
		eLQ	15 25 42	LT	20	63.6 (1)						

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG				
29	SJ	eLR	15 30 35	LZ	20	67.1 (1)	96.0	5.21				
		eL	15 42 20	LZ	18	55.5 (2)						
		eL	15 42 20	LR	18	42.1 (2)						
		eL	15 42 20	LT	18	15.2 (2)						
		eP	15 01 03	LZ	13	21.4 (1)						
		eSKS	15 11 35	LR	15	19.7 (2)						
		eS	15 12 17	LR	17	11.7 (2)						
		eS	15 12 17	LT	17	15.9 (2)						
		eSP	15 13 50	LZ	15	96.5 (1)						
		e	15 14 48	LT	18	10.9 (2)						
		29	NG	eSS	15 18 20	LT			19	12.1 (2)	111.0	5.21
e	15 20 35			LT	16	11.3 (2)						
eSSS	15 22 53			LT	19	78.0 (1)						
e	15 24 50			LT	18	14.1 (2)						
eLQ	15 28 00			LT	20	16.7 (2)						
eLR	15 33 49			LZ	19	11.0 (2)						
ePP	15 07 15			LZ	13	25.9 (1)						
eSKS	15 12 35			LR	16	23.8 (1)						
ePS	15 16 25			LR	999.9	99.9 (9)						
eSS	15 22 33			LR	22	52.1 (1)						
29	DH			eLQ	15 37 03	LT	17	81.6 (1)	120.0	5.21		
		eLR	15 42 30	LZ	20	78.2 (1)						
		eL	15 51 30	LZ	18	28.7 (2)						
		eL	15 51 30	LR	18	28.5 (2)						
		eL	15 51 30	LT	19	57.7 (1)						
		eLR	15 48 20	LZ	21	48.4 (2)						
		eL	15 52 55	LZ	19	12.3 (3)						
		eL	15 52 55	LR	19	86.0 (2)						
		eL	15 52 55	LT	19	21.5 (2)						
		AVG. 5.21										
		29	15 20 42.3	31.4 S 177.6 W	KERMADEC ISLANDS REGION			H =041 KM				
29	TF	eP	15 33 19.8	Z	0.9	6.4 (0)	86.0	4.67				
29	CP	eP	15 33 21.8	Z	1.2	7.0 (0)	86.0	4.58				
29	MN	eP	15 33 33.8	Z	1.2	3.6 (0)	89.0	4.44				
29	WI	eP	15 33 46.2	Z	1.3	6.3 (0)	92.0	4.78				
AVG. 4.62												
29	18 13 59.3	31.6 S 177.8 W	KERMADEC ISLANDS REGION			H =033 KM						
29	CP	eP	18 26 36.2	Z	1.0	6.1 (0)	86.0	4.62				
29	MN	eP	18 26 51.8	Z	1.1	3.9 (0)	89.0	4.51				
		e	18 27 45	Z	1.4	7.5 (0)						
29	WI	eP	18 27 01.5	Z	1.0	5.4 (0)	91.0	4.80				

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
29	LC	e	18 27 54	Z	1.4	10.4 (0)	93.0	
		eLR	19 01 32	LZ	20	23.8 (1)		
		eL	19 08 38	LZ	20	40.9 (1)		
		eL	19 08 38	LR	20	17.2 (1)		
		eL	19 08 38	LT	20	32.6 (1)		
								AVG. 4.64
29	18 19 40.7	31.5 S 177.6 W	KERMADEC ISLANDS REGION					
								H =033 KM
29	TF	eP	18 32 18.0	Z	0.8	4.9 (0)	86.0	4.62
		eP AS	18 35 56.3	Z	1.0	12.6 (0)		4.93
29	CP	eP	18 32 20.5	Z	1.0	6.1 (0)	86.0	4.62
		eP AS	18 36 00.4	Z	1.1	11.3 (0)		4.84
29	MV	eP	18 32 27.1	Z	1.0	4.7 (0)	88.0	4.68
		eP AS	18 36 06.5	Z	1.2	7.3 (0)		4.78
29	MN	eP	18 32 33.2	Z	1.2	6.1 (0)	89.0	4.67
		eP AS	18 36 12.8	Z	1.1	7.8 (0)		4.81
29	WI	eP	18 32 44.3	Z	1.1	5.4 (0)	91.0	4.76
		eP AS	18 36 23.5	Z	1.1	10.8 (0)		5.06
29	MV	eLR	18 58 48	LZ	20	32.4 (1)	88.0	
29	FM	eLR	19 01 20	LZ	18	11.8 (1)	93.0	
		eL	19 11 03	LZ	18	35.4 (1)		
		eL	19 11 03	LR	19	33.3 (1)		
		eL	19 11 03	LT	19	21.1 (1)		
								AS . 4.88
								AVG. 4.67
29	LC	eP	20 43 09.6	Z	0.2	9.3 (0)	1.5	
		eS	20 43 29	T	0.5	16.3 (0)		
29	MN	eP	21 40 29.4	Z	0.5	13.1 (0)	1.3	
29	WI	eP	21 40 39.0	Z	0.6	3.6 (0)	1.7	
29	MN	eS	21 40 46	R	0.5	9.2 (0)	1.3	
29	WI	eS	21 41 02	T	0.6	9.7 (0)	1.7	
30	01 57 43.7	14.9 S 166.6 E	NEW HEBRIDES ISLANDS					
								H =049 KM
30	MN	eP	02 10 30.2	Z	1.0	2.4 (0)	88.0	4.33
		eL	02 35 51	LZ	34	36.6 (1)		
30	WI	eP	02 10 37.6	Z	1.0	3.3 (0)	90.0	4.47
								AVG. 4.40

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
30	FM	eP	02 29 59.2	Z	1.0	6.0 (0)		
		eP	02 30 04.7	Z	0.9	8.0 (0)		
		eL	02 30 26	LT	25	59.6 (1)		
		eP	02 30 31.4	Z	1.5	19.6 (0)		
		eL	02 31 47	LR	20	56.6 (1)		
		eL	02 32 33	LZ	15	26.6 (1)		
		eL	02 32 33	LR	18	16.0 (2)		
		eL	02 32 33	LT	15	16.4 (2)		
		eP	03 53 28.4	Z	1.0	2.4 (0)		
		eP	03 53 58.7	Z	1.3	4.6 (0)		
		30	TF	eL	04 14 25	LZ		
30	07 07 10.5	15.4 N 119.7 E	WEST LUZON, PHILIPPINE IS.					
								H =033 KM
30	13 23 09.8	28.2 S 175.8 W	KERMADEC ISLANDS					
								H =047 KM
30	MV	eP	13 35 37.5	Z	1.1	5.9 (0)	84.0	4.59
30	MN	eP	13 35 44.2	Z	1.0	7.2 (0)	86.0	4.66
30	WI	eP	13 35 55.4	Z	1.0	7.7 (0)	88.0	4.84
30	LC	eP	13 36 02.5	Z	0.9	3.7 (0)	89.0	4.57
								AVG. 4.67
30	15 25 40.3	36.8 N 072.3 E	HINDU KUSH					
								H =232 KM
30	LC	eP	16 30 14	Z	0.8	5.1 (0)		
30	17 47 15.4	21.1 S 169.3 E	LOYALTY ISLANDS					
								H =071 KM
30	TF	eP	17 59 56.5	Z	1.0	8.4 (0)	87.0	4.78
30	MN	eP	18 00 10.4	Z	0.9	5.5 (0)	91.0	4.81
30	WI	eP	18 00 16.6	Z	1.0	3.3 (0)	92.0	4.62
								AVG. 4.74
30	18 16 21.4	04.7 S 153.7 E	NEW BRITAIN					
								H =116 KM
30	MN	eP	18 29 35.2	Z	999.9	99.9 (9)	92.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		e	18 32 24	Z	1.3	9.2 (0)		
		e	18 38 53	LZ	19	25.1 (1)		
		eSKS	18 39 34	LR	20	99.9 (9)		
		e	18 41 14	LR	999.9	99.9 (9)		
		e	18 43 04	LT	999.9	99.9 (9)		
		eSS	18 46 31	LT	22	13.2 (2)		
		eSSS	18 49 51	LT	999.9	99.9 (9)		
		eLR	18 57 31	LZ	999.9	99.9 (9)		
30	WI	epP	18 29 48.5	Z	1.1	4.1 (0)	93.0	
		esP	18 30 10	Z	1.5	13.0 (0)		
		eSKS	18 39 49	LT	20	13.8 (2)		
		eSP	18 41 35	LZ	21	19.2 (2)		
		e	18 42 59	LZ	25	13.5 (2)		
		eSS	18 46 30	LT	20	11.2 (2)		
		e	18 48 35	LZ	20	77.3 (1)		
		eLQ	18 53 50	LR	28	10.5 (2)		
30	MV	eLR	18 58 15	LZ	42	79.1 (2)		
		eSKS	18 39 31	LR	18	89.1 (1)	90.0	
		eS	18 39 59	LR	20	89.2 (1)		
		eS	18 39 59	LT	18	89.0 (1)		
		eSP	18 41 00	LZ	22	13.6 (2)		
		eSS	18 45 33	LR	21	90.4 (1)		
		esSS	18 46 43	LZ	18	99.6 (1)		
		eSSS	18 49 15	LR	21	49.7 (1)		
		eLQ	18 53 26	LT	32	14.0 (2)		
		eLR	18 56 56	LZ	31	40.1 (2)		
30	TF	eS	18 39 34	LR	23	17.2 (2)	89.0	
		eS	18 39 34	LT	20	76.6 (1)		
		eSP	18 41 05	LZ	22	21.2 (2)		
		e	18 45 43	LZ	21	13.7 (2)		
		eLQ	18 53 55	LT	25	15.0 (2)		
		eLR	18 57 10	LZ	34	71.9 (2)		
30	FM	eSKS	18 40 21	LR	27	10.9 (2)	97.0	
		eSP	18 42 16	LZ	21	18.2 (2)		
		ePPS	18 43 12	LR	25	13.0 (2)		
		eSS	18 47 43	LR	23	11.6 (2)		
		eSSS	18 51 05	LR	999.9	99.9 (9)		
		eLR	19 00 04	LZ	33	99.9 (9)		
30	LC	eSKS	18 40 37	LR	20	71.7 (1)	101.0	
		eSP	18 43 00	LZ	20	16.1 (2)		
		e	18 45 28	LR	18	60.2 (1)		
		eSS	18 48 40	LR	17	86.8 (1)		
		eSSS	18 52 30	LR	29	10.1 (2)		
		eLR	19 02 22	LZ	30	69.1 (2)		
		eL	19 05 47	LZ	25	20.9 (2)		
		eL	19 05 47	LR	24	16.7 (2)		
		eL	19 05 47	LT	23	72.4 (1)		
30	SJ	eSKS	18 41 09	LT	20	10.5 (2)	108.0	
		eSP	18 44 20	LZ	20	14.8 (2)		
		eSS	18 50 00	LT	23	12.4 (2)		
		eSSS	18 54 25	LT	21	11.9 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
		eLQ	19 02 50	LT	24	79.7 (1)		
		eLR	19 06 20	LZ	30	41.1 (2)		
30	NG	eSP	18 45 18	LZ	25	15.7 (2)	113.0	
		eSS	18 51 00	LT	18	10.7 (2)		
		eSSS	18 55 48	LT	18	11.6 (2)		
		eLR	19 09 05	LZ	30	99.9 (9)		
		eL	19 23 38	LZ	20	12.7 (2)		
		eL	19 23 38	LR	20	12.8 (2)		
		eL	19 23 38	LT	17	54.1 (1)		
30	LC	eP	21 03 31.8	Z	0.7	2.4 (0)		
30	21 16 42.5		05.0 N 125.8 E				BANDA SEA	
			H =033 KM					
30	22 08 38.3		42.6 N 144.3 E				NEAR COAST HOKKAIDO, JAPAN	
			H =086 KM					
30	22 50 25.9		27.1 S 176.5 W				KERMADEC ISLANDS	
			H =049 KM					
30	MN	eP	23 02 58.4	Z	1.0	6.4 (0)	85.0	4.65
31	FM	eP	01 58 20.6	Z	0.5	2.0 (0)	1.6	
		eS	01 58 43	T	0.5	13.4 (0)		
31	02 48 35.5		08.1 S 120.9 E				FLORES SEA	
			H =033 KM					
31	08 00 23.4		52.5 N 160.8 E				NEAR W. COAST KAMCHATKA	
			H =047 KM					
31	MV	eP	08 09 41.2	Z	0.8	3.7 (0)	54.0	4.47
31	WI	eP	08 09 46.2	Z	1.0	7.7 (0)	54.0	4.69
		e	08 10 18	Z	1.4	26.5 (0)		
		eL	08 31 12	LZ	18	30.7 (1)		
		eL	08 31 35	LZ	17	24.6 (1)		
		eL	08 31 35	LR	20	28.5 (1)		
		eL	08 31 35	LT	15	16.0 (1)		
31	MN	eP	08 09 56.7	Z	1.0	4.8 (0)	56.0	4.48

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	TF	eP	08 11 24	Z	1.2	7.3 (0)		
		eP	08 10 09.4	Z	1.0	8.4 (0)	57.0	4.72
31	FM	eP	08 10 17.3	Z	1.0	5.4 (0)	58.0	4.53
		e	08 10 33	Z	1.0	13.5 (0)		
31	CP	eP	08 10 30.5	Z	1.0	2.9 (0)	61.0	4.32
31	NG	eP	08 11 05.8	Z	1.0	8.6 (0)	66.0	4.79
31	LC	eP	08 11 10.5	Z	0.9	2.8 (0)	67.0	4.35
						AVG.		4.54
31	08 00 23.8		52.5 N 160.8 E			NEAR E. COAST KAMCHATKA		
			H =051 KM					
31	MN	eP	09 17 45.5	Z	1.0	1.6 (0)		
31	LC	eP	09 18 15.1	Z	0.8	2.1 (0)		
31	11 00 59.5		00.1 S 099.3 E			NEAR COAST OF SUMATRA		
			H =033 KM					
31	MV	eP	11 20 02.4	Z	1.0	4.7 (0)	126.0	
31	WI	eP	11 20 04.5	Z	1.0	2.2 (0)	127.0	
		eL	12 04 30	LT	25	37.5 (1)		
		eL	12 11 45	LZ	22	42.2 (1)		
		eL	12 11 45	LR	22	30.7 (1)		
		eL	12 11 45	LT	20	66.1 (1)		
31	MN	eP	11 20 06.5	Z	1.5	9.4 (0)	128.0	
		eL	12 04 40	LZ	22	17.9 (1)		
		eL	12 09 17	LZ	20	24.4 (1)		
		eL	12 09 17	LR	25	61.4 (1)		
		eL	12 09 17	LT	18	25.7 (1)		
31	FM	eP	11 20 16.8	Z	0.7	2.6 (0)	131.0	
		eSKP	11 23 39	Z	1.2	12.4 (0)		
		eL	12 08 18	LR	30	51.6 (1)		
		eL	12 13 26	LZ	22	20.0 (1)		
		eL	12 13 26	LR	22	71.3 (1)		
31	LC	eP	11 20 25.6	Z	0.6	1.0 (0)	139.0	
		eSKP	11 24 05	Z	1.2	5.6 (0)		
		eL	12 17 10	LZ	20	15.9 (1)		
		eL	12 22 08	LR	22	69.3 (1)		
		eL	12 22 08	LT	20	37.9 (1)		
31	SJ	eP	11 20 44.0	Z	1.0	22.3 (0)	148.0	
		eL	12 15 42	LZ	30	87.7 (1)		
		eL	12 22 20	LZ	22	21.4 (1)		
		eL	12 22 20	LR	22	29.3 (2)		
		eL	12 22 20	LT	20	99.1 (1)		
31	CP	eL	12 05 28	LZ	22	24.8 (1)	133.0	
31	NG	eL	12 09 10	LR	27	10.3 (2)	135.0	

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	MN	eP	11 43 41.2	Z	999.9	99.9 (9)		
31	MN	eP	12 19 27.5	Z	999.9	99.9 (9)	1.3	
		eS	12 19 44	R	0.6	40.6 (0)		
31	LC	eP	13 55 00.5	Z	0.6	12.8 (0)		
31	LC	eL	13 57 02	T	1.0	7.0 (0)		
31	WI	eP	13 57 54.7	Z	0.7	3.3 (0)		
31	15 42 23.0		62.5 N 149.5 W			CENTRAL ALASKA		
			H =113 KM					
31	WI	eP	15 48 09.0	Z	0.7	3.3 (0)	28.0	4.08
31	MV	eP	15 48 12.0	Z	0.8	7.4 (0)	29.0	4.38
31	MN	eP	15 48 28.7	Z	0.7	11.1 (0)	31.0	4.70
31	FM	eP	15 48 43.0	Z	1.0	8.1 (0)	32.0	4.39
31	TF	eP	15 48 48.6	Z	0.7	6.2 (0)	32.0	4.43
31	LC	eP	15 49 53.2	Z	0.9	3.7 (0)	41.0	4.18
						AVG.		4.36
31	LC	eL	18 05 58	LZ	35	94.9 (1)		
31	MN	eL	18 01 20	LZ	27	59.6 (1)		
31	MN	eL	18 02 38	LZ	25	54.8 (1)		
31	MN	eL	18 02 38	LT	22	29.5 (1)		
31	SJ	eL	18 10 10	LT	27	77.1 (1)		
31	SJ	eL	18 12 12	LZ	25	42.4 (1)		
31	SJ	eL	18 12 12	LR	25	56.6 (1)		
31	SJ	eL	18 12 12	LT	23	70.9 (1)		
31	18 28 24.6		15.3 N 121.5 E			LUZON, PHILIPPINE ISLANDS		
			H =067 KM					
31	19 40 10.5		22.7 S 171.4 E			LOYALTY ISLANDS REGION		
			H =039 KM					
31	MV	eP	19 52 57.2	Z	0.5	2.9 (0)	88.0	4.75
31	MN	eP	19 53 05.5	Z	0.6	7.3 (0)	90.0	5.05
		eLR	20 21 45	LZ	25	99.9 (9)		
31	LC	eP	19 53 33.5	Z	0.6	0.8 (0)	96.0	4.43
		eL	20 24 30	LZ	25	10.8 (2)		
31	MV	eL	20 21 00	LZ	23	11.3 (2)	88.0	
		eL	20 22 15	LZ	24	11.7 (2)		
		eL	20 22 15	LR	25	36.5 (1)		
		eL	20 22 15	LT	24	11.3 (2)		

DAY	STA	PHASE	TIME	INST	PER	AMPL	DIST	MAG
31	SJ	eL	20 27 57	LT	25	53.1 (1)	99.0	
		eL	20 31 05	LZ	20	16.6 (1)		
		eL	20 31 05	LT	22	82.2 (1)		
31	NG	eL	20 34 30	LZ	28	96.1 (1)	112.0	
		eL	20 37 05	LZ	23	99.0 (1)		
		eL	20 37 05	LR	25	71.1 (1)		
31	DH	eL	20 41 20	LR	27	82.2 (0)	112.0	
						AVG.		4.74
31	20 49 35.3		47.1 N 122.0 W	PIERCE CTY., WASHINGTON				
			H =033 KM					
31	MV	eP	20 51 32.0	Z	0.7	23.6 (0)	8.0	5.33
		eL	20 53 35	LR	24	99.9 (9)		
31	MN	eP	20 51 50.0	Z	1.0	35.2 (0)	9.0	5.54
		eL	20 54 20	LZ	25	99.9 (9)		
31	LC	eP	20 53 56.7	Z	0.8	23.3 (0)	19.0	4.49
		eL	21 00 00	LT	15	50.0 (1)		
31	NG	eP	20 54 40.9	Z	0.8	41.1 (0)	23.0	4.94
		eL	21 01 42	T	2.0	16.8 (1)		
		eL	21 01 55	LR	18	62.6 (1)		
		eL	21 01 55	LT	18	13.2 (2)		
31	SJ	eP	20 55 16.5	Z	0.8	31.6 (0)	27.0	5.03
		eL	21 01 05	LR	17	92.9 (1)		
		eL	21 03 01	Z	0.8	23.7 (0)		
		eL	21 06 45	LZ	15	69.5 (1)		
		eL	21 06 45	LR	12	15.9 (2)		
		eL	21 06 45	LT	15	12.0 (2)		
						AVG.		5.07
31	21 45 04.7		28.3 S 178.4 W	KERMADEC ISLANDS REGION				
			H =239 KM					
31	MN	epP	21 58 24	Z	1.0	3.2 (0)	87.0	
31	23 37 18.9		21.6 S 176.8 W	TONGA ISLANDS				
			H =033 KM					
31	MN	eP	23 49 33.5	Z	1.4	7.6 (0)	81.0	4.47
31	LC	eP	23 49 57.7	Z	1.0	8.6 (0)	86.0	4.76
						AVG.		4.62