

**New Zealand Department of Scientific and Industrial Research  
GEOPHYSICS DIVISION**

NEW ZEALAND  
**SEISMOLOGICAL  
REPORT  
1968**

**SEISMOLOGICAL OBSERVATORY BULLETIN  
E - 151**



International  
Seismological  
Centre

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NEW ZEALAND

SEISMOLOGICAL  
REPORT

1968

SEISMOLOGICAL OBSERVATORY BULLETIN

E - 151





SEISMOLOGICAL OBSERVATORY, WELLINGTON,  
NEW ZEALAND

ALL measurement and interpretation of records is carried out at the central station in Wellington. Communications should therefore be addressed to:

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CONTENTS

	Page
Scientific Staff ... ..	4
Introduction ... ..	5
Stations of the New Zealand Network	
The Network in 1968 ... ..	6
Three-Letter Station Codes . . . . .	6
Index of Station Positions . . . . .	7
Station Timing Arrangements . . . . .	8
Instrumentation and Lithology ... ..	8
Earthquakes in the New Zealand Region	
Principal Earthquakes in 1968 ... ..	12
Instrumentally Determined Origins ... ..	14
List of Origins .. . . .	14
Station Readings for New Zealand Earthquakes ... ..	33
Felt Earthquakes	
The Felt Reporting System .. . . .	291
Places Reporting Felt Earthquakes in 1968 . . . . .	294
Earthquakes Felt in Standard Localities ... ..	313
Unconfirmed Reports ... ..	319
Felt Earthquake Reports from outside New Zealand ... ..	320
Station Readings of Distant Earthquakes	
Stations within New Zealand ... ..	321
Other Stations under New Zealand control .. . . .	461
Publications by Staff Members . . . . .	627
Exchange Agreements . . . . .	630
List of Maps ... ..	632



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## INTRODUCTION

The form of these Reports is now well established, and no significant changes have been introduced in this volume.

The activity of the period was dominated by the magnitude 7.1 Inangahua earthquake on May 23. Readings for this event and its aftershocks have already been collected in a special Report (Bulletin E-147) published in 1971, but events of magnitude 4 and above are also listed here. Attributions of felt observations have been revised, and those given in this volume are to be preferred.

Epicentre and magnitude data will be found to differ slightly from those in the Inangahua Report, for which some modifications were incorporated in the computer programme. Those given in this volume have been prepared by the standard methods, so that they will be directly comparable with the data presented in the series of annual volumes. For investigations limited to the Inangahua sequence, where high accuracy is important, the data in the Inangahua volume form a homogeneous and internally consistent set. However, when comparability with other published data is the main requirement, the data in this volume should be used.

The most important changes to the recording network in this period were the installation of temporary stations at Castlepoint, Denniston and Cape Foulwind, and the closing of the strong-motion station at Bunnythorpe. Details are given in the appropriate sections of the text.



# STATIONS OF THE NEW ZEALAND NETWORK

## THE NETWORK IN 19

The New Zealand Seismograph Network not only covers the two main islands of New Zealand proper, but includes stations in adjacent territories from Samoa to the Antarctic. The stations are of two kinds, one having short-period instruments intended to record shocks originating within about 1000 km, and the other having long-period instruments designed to provide information about distant earthquakes and the physical condition of the Earth. These functions interlock, and every seismograph gives some useful information in both fields.

The only new station established in 1968 is at Castlepoint, where portable buildings have been erected to house long-period instruments intended for surface-wave studies. Until these instruments are ready, a Willmore instrument is being used to provide additional local earthquake information. The Mark I Willmore seismometer at Gisborne has been replaced with the improved Mark II, and it has been found possible to double the magnification of the instrument at Suva without excessive background disturbance. At Roxburgh and at Kaimata, the timing has been improved by substituting quartz crystal chronometers for the pendulum clocks hitherto in use.

The station at Bunnythorpe was established in 1932, and in 1942 the original Jagger shock-recorder was replaced with a three-component Imamura instrument complete with timing. Although its magnification was low, its records were invaluable for studying the larger shocks, which overloaded other close stations. The death of Mr C.H. Stevens, who attended carefully to the station for the greater part of its existence, and some planned extensions to the buildings of the Manawatu-Oroua Power Board, on whose property it stood, made it necessary to dismantle the instrument, which has made a worthy contribution to New Zealand earthquake study.

### THREE-LETTER STATION CODES

Throughout the tabular sections of this Report, stations are identified by the international three-letter code abbreviations allotted by the U.S. Coast and Geodetic Survey. Codes for stations of the New Zealand network are listed below: -

Afiamalau	AFI	East Cape	ECZ	Raoul Island	RAO
Apia	API	Gebbies Pass	GPZ	Rarotonga	RAR
Auckland	AUC	Gisborne	GNZ	Roxburgh	ROX
Bunnythorpe	BUN	Great Barrier	GBZ	Scott Base	SBA
Cape Reinga	CRZ	Kaimata	KAI	Suva	SUV
Castlepoint	CAZ	Karapiro	KRP	Tarata	TNZ
Campbell Island	CBZ	Mangahao	MNG	Tuai	TUA
Chateau	CNZ	Milford Sound	MSZ	Waipapa Point	WPZ
Chatham Island	CIZ	Monowai	MNW	Wairakei	WNZ
Cobb River	COB	Mount John	MJZ	Wellington	WEL
Dennistown	DNS	Onerahi	ONE	Foulwind	FLW

## STATION POSITIONS

### INDEX OF STATION POSITIONS

STN	LATITUDE			LONGITUDE			ALT M	GEOCENTRIC DIRECTION COSINES		
	D	M	S	D	M	S		A	B	C
AFI	13	54	34 S	171	46	38 W	706	-0.961 070	-0.138 881	-0.238 865
API	13	48	26 S	171	46	30 W	2	-0.961 482	-0.138 979	-0.237 142
AUC	36	51	36 S	174	46	41 E	79	-0.798 711	+0.072 996	-0.597 271
BUN	40	17.0	S	175	38.1	E	60	-0.762 783	+0.058 225	-0.644 027
CAZ	40	54	15 S	176	13	34 E	6	-0.756 343	+0.049 889	-0.652 270
CBZ	52	33	03 S	169	09	33 E	30	-0.599 744	+0.114 849	-0.791 907
CIZ	43	57	18 S	176	33	56 W	45	-0.720 923	-0.043 266	-0.691 663
CNZ	39	12	00 S	175	32	51 E	1116	-0.774 682	+0.060 322	-0.629 467
COB	41	05	16 S	172	44	02 E	213	-0.749 824	+0.095 603	-0.654 894
CRZ	34	25	55 S	172	40	47 E	140	-0.819 834	+0.105 317	-0.562 833
DNS	41	44	17 S	171	47	47 E	600	-0.740 764	+0.106 795	-0.663 222
ECZ	37	41	37 S	178	32	46 E	40	-0.793 026	+0.020 126	-0.608 855
FLW	41	45	08 S	171	29	59 E	20	-0.739 941	+0.111 247	-0.663 408
GBZ	36	13	04 S	175	28	52 E	70	-0.806 157	+0.063 712	-0.598 262
GNZ	38	38	39 S	178	01	21 E	30	-0.782 622	+0.027 021	-0.621 911
GPZ	43	41	47 S	172	38	40 E	225	-0.719 365	+0.092 861	-0.658 397
KAI	42	31	33 S	171	24	31 E	82	-0.730 944	+0.110 432	-0.673 443
KRP	37	55	30 S	175	32	15 E	64	-0.788 423	+0.061 530	-0.612 049
HJZ	43	59	14 S	170	27	58 E	1000	-0.711 861	+0.119 557	-0.692 069
MNG	40	37	07 S	175	28	55 E	396	-0.758 859	+0.059 963	-0.648 488
MNW	45	46	49 S	167	37	07 E	155	-0.683 548	+0.150 054	-0.714 315
NSZ	44	40	14 S	167	55	01 E	38	-0.697 726	+0.149 361	-0.700 627
ONE	35	46	33 S	174	21	45 E	30	-0.809 242	+0.079 881	-0.582 020
RAO	29	15.1	S	177	55.1	W	110	-0.873 304	-0.031 742	-0.486 140
RAR	21	12	45 S	159	46	24 W	28	-0.875 524	-0.322 592	-0.359 711
ROX	45	28	33 S	169	19	13 E	106	-0.691 423	+0.130 391	-0.710 586
SBA	77	51	01 S	166	45	22 E	38	-0.206 194	+0.048 529	-0.977 307
SUV	18	08	56 S	178	27	26 E	6	-0.950 524	+0.025 599	-0.309 595
TNZ	39	11	14 S	174	22	49 E	123	-0.773 432	+0.076 103	-0.629 294
TUA	38	48	29 S	177	09	02 E	274	-0.780 343	+0.038 839	-0.624 145
WEL	41	17	10 S	174	46	06 E	122	-0.750 486	+0.068 717	-0.657 304
WNZ	38	37	53 S	176	06	10 E	350	-0.781 415	+0.053 232	-0.621 736
WPZ	46	39	37 S	168	50	59 E	15	-0.675 767	+0.133 195	-0.724 982

## TIMING ARRANGEMENTS

The Seismological Observatory is administratively responsible for the New Zealand Time Service, which broadcasts 15 sets of time-signals daily through the stations of the New Zealand Broadcasting Corporation. These signals, whose error seldom exceeds 20 msec, are automatically impressed upon the records at all stations within New Zealand. The arrangements used have been described by B.H. Olsson (N.Z. Journal of Science and Technology, Vol. 37B, pp. 115-8, 1955 Sep.). Minute marks are derived in most cases from a quartz crystal clock, the remaining stations having an electric pendulum clock of the Synchronome type. Stations of the World-Wide Standard Seismograph Network have the timing arrangements usual at such stations. At Suva, the operator records several time-signals a day by depressing a hand-key when the signal is heard.

## INSTRUMENTATION AND LITHOLOGY

Stations are listed in the alphabetical order of their international three-letter code designations. Pendulum and galvanometer periods  $T_0$  and  $T_g$  are given in seconds. The damping of electromagnetic instruments, when not listed, may be assumed to be critical. Magnifications listed are for the period of maximum response.

Instrument	Compt	$T_0$	$T_g$	Damping	Magnification
<b>API APIAMALU</b>					
World-Wide Standard Station.					
Foundation: Basaltic lava flows.					
Benioff	ZNE	1.0	0.75		12,500 at 1.0 sec
Press-Ewing	ZNE	15	100		750 at 15 sec
<b>API APIA</b>					
Foundation: Coral sand on Recent and Pleistocene basalt.					
Willmore I (Photo-cell amplifier used with pen-and-ink recorder)					
	Z	0.7	0.5		
<b>AUC AUCKLAND</b>					
Foundation: Volcanic beds on Tertiary sandstone and mudstone.					
Willmore I (Photo-cell amplifier used with pen-and-ink recorder)					
	Z	1	2		7,600 at 0.8 sec
<b>BUN BUNNYTHORPE</b>					
Strong-motion station without automatic time-signal recording.					
Foundation: Gravels, silts, and sands.					
Imamura	Z	2		5:1	1
	NE	8		5:1	1
Station dismantled 1968 November 12.					
<b>CAZ CASTLEPOINT</b>					
Temporary installation in building intended for long-period instruments for surface-wave research. Paper speed is 30 mm/min.					
Foundation: Mudstone.					
Willmore I	Z	1	0.25		2,900 at 0.25 sec

<b>CEZ CAMPBELL ISLAND</b>					
Foundation: Basalt.					
Willmore II	Z	1	0.25		5,000 at 0.25 sec
<b>CIZ CHATHAM ISLAND</b>					
Foundation: Clay over basalt.					
Willmore II	Z	1.0	0.25		4,440 at 0.2 sec
	N	1.0	0.25		5,110 at 0.2 sec
	E	1.0	0.25		4,400 at 0.2 sec
<b>CNZ CHATEAU</b>					
Foundation: Volcanic ash and lava.					
Willmore I	Z	1.0	0.25		41,900 at 0.2 sec
<b>COB COBB RIVER</b>					
Foundation: Schist.					
Willmore II	Z	1.0	0.25		27,450
<b>CRZ CAPE REINGA</b>					
Foundation: Cretaceous basic volcanics.					
Willmore II	Z	1.0	0.25		9,345 at 0.25 sec
	N	1.0	0.25		10,200 at 0.20 sec
	E	1.0	0.25		9,785 at 0.20 sec
<b>DNS DENNISTON</b>					
Temporary station operating from 1968 May 26 to 1968 Jul 2.					
Foundation: Tertiary sandstone over granite.					
Willmore I	Z	1.0	0.25		1200 at 0.25 sec
<b>ECZ EAST CAPE</b>					
Foundation: Mudstone and sandstone.					
Willmore II	Z	1.0	0.25		5,200 at 0.3 sec
<b>FLW FOULWIND</b>					
Temporary station operating from 1968 May 24 to 1968 Jul 2.					
Foundation: Quaternary gravel and sand.					
Willmore I	Z	1.0	0.2		7200 at 0.2 sec
	N	1.0	0.2		4900 at 0.2 sec
	E	1.0	0.2		6100 at 0.2 sec
<b>GBZ GREAT BARRIER</b>					
Foundation: Tertiary volcanics.					
Willmore II	Z	1.0	0.25		3,770 at 1.0 sec
<b>GNZ GISBORNE</b>					
Foundation: Alluvium on Tertiary mudstone.					
Willmore I	Z	1.0	0.25		8,900 at 0.3 sec (until Jan 24)
Willmore II	Z	1.0	0.25		17,900 at 0.25 sec (from Jan 24)



GPZ	GEBBIES PASS	Foundation: Rhyolite.					
	Wood-Anderson	N	0.8	crit.	2,800		
KAI	KAIMATA	Foundation: Moraine and river gravels over Tertiary mudstone and sandstone.					
	Wood-Anderson	X	0.8	crit.	2,800		
	This instrument is oriented so that the X-component lies north-east.						
KRP	KARAPIRO	Foundation: Greywacke.					
	Benioff	Z	1.0	0.25	36,500 at 0.3 sec		
		N	1.0	0.25	12,200 at 1.0 sec		
		E	1.0	0.25	43,200 at 0.5 sec		
MNG	MANGAHAO	Foundation: Greywacke.					
	Willmore II	Z	1.0	0.25	48,600 at 0.3 sec		
MSZ	MILFORD SOUND	Foundation: Gneiss.					
	Willmore II	Z	1	0.25	52,650 at 0.25 sec		
MNW	MONOWAI	Foundation: Tertiary sandstone.					
	Willmore II	Z	1.0	0.25	28,800 at 0.25 sec		
MJZ	MOUNT JOHN	Foundation: Greywacke.					
	Willmore II	Z	1.0	0.25	30,480 at 0.25 sec		
		N			43,600 at 0.25 sec		
		E			41,050 at 0.25 sec		
ONE	ONERAHI	Foundation: Basalt.					
	Wood-Anderson	E	0.8	crit.	2,800		
RAO	RAOUL ISLAND	Foundation: Volcanic rock.					
	Willmore II	Z	1.0	0.25	4,800 at 0.25 sec		
RAR	RAROTONGA	World-Wide Standard Station.					
	Foundation: Basalt.						
	Benioff	ZNE	1.0	0.75	6,250 at 1 sec		
	Press-Ewing	ZNE	15	100	375 at 15 sec		
ROX	ROXBURGH	Foundation: Chlorite schist.					
	Willmore I	Z	1.0	0.25	12,100 at 0.25 sec		
	Galitzin	Z	12	12	200 approximately		
		NE	24	24	300 approximately		

		NEW ZEALAND REGION					
SBA	SCOTT BASE	World-Wide Standard Station.					
	Foundation: Frozen basaltic debris resting on lava-flows.						
	Benioff	ZNE	1.0	0.75	6,250 (summer)		
					25,000 (winter)		
	Press-Ewing	ZNE	30	100	750 (summer)		
					1,500 (winter)		
SUV	SUVA	Foundation: Hard fine-grained calcareous marl.					
	Willmore II	Z	1.0	0.25	6,500 at 0.2 sec		
					(until Sep 25)		
					13,000 at 0.2 sec		
					(from Sep 25)		
TNZ	TARATA	Foundation: Pleistocene mudstone.					
	Willmore II	Z	1.0	0.25	7,000 at 0.2 sec		
TUA	TUAI	Foundation: Thick Tertiary sandstone and mudstone.					
	Willmore II	Z	1.0	0.25	7,500 at 0.2 sec		
WEL	WELLINGTON	World-Wide Standard Station.					
	Foundation: Greywacke.						
	Benioff	ZNE	1.0	0.75	6,250 at 1.0 sec		
	Press-Ewing	ZNE	15	100	750 at 15 sec		
	Willmore II	Z	1.0	0.25	22,750 at 0.20 sec		
	Wood-Anderson	NE	0.8	crit.	1,400		
	Imamura	Z	1	5:1	1		
		NE	4	5:1	1		
	The Willmore Z instrument is operated at the bottom of a borehole approximately 60 metres deep.						
WPZ	WAIKAPA POINT	Foundation: Sand overlying Jurassic sediments.					
	Willmore II	Z	1	0.25	3,000 at 0.2 sec		
WNZ	WAIKAKEI	Foundation: Pumice breccia.					
	Willmore I	Z	1.0	0.25	300 (approximately)		

## EARTHQUAKES IN THE NEW ZEALAND REGION

### PRINCIPAL EARTHQUAKES IN 1968

The outstanding seismological event in New Zealand in 1968 was the occurrence of a shallow magnitude 7.1 earthquake at Inangahua on May 23 (Epicentre 68/269). This shock has been discussed extensively in Bulletin 193 of the Department of Scientific and Industrial Research (Seismological Observatory Bulletin S-154), and station readings for it and its aftershocks have already been published in a special Report in this series (Bulletin E-147), which also contains maps and an extensive bibliography.

There have been only sixteen comparable earthquakes since 1848, and this is the first since 1960 to reach magnitude 7. In the epicentral region intensities of MM X were experienced, and three deaths resulted. Buildings, bridges, and other structures were seriously damaged, and road and rail communications were cut. Significant damage extended to Reefton, Westport, and Greymouth, and the felt area included most of the country except the Bay of Plenty and the East Cape and Coromandel Peninsulas. In the epicentral region uplift occurred, and an existing fault scarp was rejuvenated with a maximum movement of about 45 cm. At Rotokohu, 8 km to the south, other displacements have been interpreted as traces of bedding faults in the underlying sediments. Fuller details are given in papers listed in the bibliography cited above.

Numerous aftershocks followed, the largest having a magnitude of 6.0 (Epicentre 68/339). Its felt area extended from Taranaki to Westland. Other aftershocks with magnitudes 5 are Epicentres 68/270-3, 337, 347, 352, 378, 411, 448, 474, 519, 528 and 530. The aftershocks were mostly confined to an elliptical region about 40 by 25 km, extending to the southwest of the epicentre of the main shock. The focal depth of all shocks in the sequence was close to 12 km.

Several other shocks were responsible for minor damage. On November 1 a magnitude 5.5 earthquake centred in Palliser Bay (Epicentre 68/743) gave rise to an intensity of MM 6 in Wellington city, deranging goods and causing superficial damage to older structures. With the possible exception of the magnitude 6.0 Seddon earthquake in April 1966 (Epicentre 66/180), this shock was more strongly felt in Wellington than any other since the Wairarapa earthquakes in 1942.

Earlier in the year, a shallow magnitude 5.5 earthquake near Lake Taupo on January 30 (Epicentre 68/036) damaged buildings at Turangi, and caused intensities of MM 5 or more in several other settlements near the Lake. The felt area did not extend south of Wanganui.

On September 25, minor damage occurred at Otautau in Southland. The shock responsible (Epicentre 68/671) had a magnitude of 6.5 and was centred at sea, 30 km south of Puysegur Point, where the intensity reached MM 7. Intensities exceeded MM 5 in many places throughout Otago and Southland. Nine of the numerous aftershocks were reported felt. An earlier large shock in the Fiordland Region (Epicentre 68/146) reached magnitude 5.8, and was followed by several aftershocks. Intensities reached MM 5 in the Manapouri-Te Anau area, and the felt area included southern Westland as well as Otago and Southland.

A shock of magnitude 5.1 on January 24 (Epicentre 68/027) was centred within a few kilometres of Christchurch. It produced an intensity of MM 5 in the city and was felt in all parts of Canterbury and in central Westland without causing damage.

No exceptional deep-focus earthquakes occurred, but the shock on May 5 (Epicentre 68/212) at a depth of 226 km beneath the central North Island had a magnitude of 5.6, and was felt throughout Hawke's Bay and Taranaki and as far south as Wellington. Only isolated reports indicated intensities above MM 5.

Another deep shock on November 1 (Epicentre 68/746) had a magnitude of 5.8 and a depth of 294 km. Its felt area was similar, but it was not well reported, probably because of the large shallow shock near Palliser Bay twelve hours earlier (Epicentre 68/743).

On July 25 a large shock in the Kermadec region, about 900 km north-east of New Zealand (Epicentre 68/558) with a magnitude of 7.7, was felt on Raoul Island. A second shock felt on Raoul Island on September 27 had a slightly lower magnitude and came from almost the same epicentre. Neither was felt in New Zealand. On March 10, a shock closer to New Zealand, about 120 km northeast of East Cape and possibly of intermediate depth (Epicentre 68/120) had a magnitude of 6.0 and was felt in the East Cape district.

Only one shallow earthquake (Epicentre 68/150) attracts attention because of its location. This was a shock of magnitude 3.7 on April 2 in the Taieri basin about 70 km northwest of Dunedin. Although shocks in this region are less frequent than in some other parts of the country, they cannot be considered unusual.

Three shocks at slightly greater than normal depth call for comment. The most southerly of these (Epicentre 68/534) occurred on July 8 off Banks' Peninsula and had a magnitude of 3.8. It was assigned a depth of  $59 \pm 17$  km. Previously, only crustal activity has been observed in this part of the country. The calculated value of the depth depends largely on the reading at Gebbies Pass, but the record is clear, and the solution is better than that obtained by restricting the computer programme to shallow depths.

The magnitude 3.8 shock in Cook Strait close to Wellington on December 13 (Epicentre 68/834) is rather less surprising, and the position assigned a little less certain. The depth found is  $63 \pm 10$  km. Other similar shocks have since been observed. Their position is consistent with the broad regional pattern of earthquake occurrence, and it seems reasonable to assume that improvements in the recording network are resulting in a more ready identification of shocks at about this depth.

A shock in inland Marlborough on August 28 (Epicentre 68/620) assigned a depth of 82 km lies slightly to the east of the known limit of shocks at this depth, and an epicentre solution restricted to normal focal depth is only slightly inferior, giving a standard error of 1.2 compared with 1.0. It is possible, however, that similar considerations to those advanced when discussing the previous shock should apply.



## INSTRUMENTALLY DETERMINED ORIGINS

The following chronological list of the origins of New Zealand earthquakes is a summary of the determinations included in the next section of the Report, in which the detailed readings for each recording station are given. The Reference Number allocated in the first column of this list is used to identify the same shock in other sections of the Report. Date, Origin Time, Latitude and Longitude should be self-explanatory. Focal depths are given in kilometres, but it should be noted that when shocks are within the crust, the computer is restricted to solutions at depths of 12 or 33 km. The shallower depth is assigned if either of the phases Pg or Sg has been identified, and the greater depth if P\* or S\* is present without Pg or Sg. Quantities so restricted are identified by the letter R. The magnitude given conforms with Richter's original magnitude scale, and is a mean of all separate determinations shown with the detailed station readings. SE is the standard error of the time residuals (in seconds), of those phases that have been used in obtaining the solution. In cases where the number of readings is exactly the number needed for a formal solution the letters ND (Not Defined) appear. NUM OBS is the number of separate phase readings used, and NUM STN the number of stations that recorded the shock, whether the readings were used in the epicentre solution or not.

The main list is followed by a short supplementary one containing only those shocks whose small magnitude or unfavourable position has resulted in insufficient data for an epicentre solution by computer. An asterisk following a reference number in the main list indicates that one or more earthquakes in the supplementary list come next in chronological order.

The lists are intended to contain all shocks of magnitude 4.0 and above within the New Zealand region, together with those shocks of lower magnitude or beyond the boundary of the region that have been reported felt. The boundary of the region is taken at approximately 10° from Wellington. Because accurate distance estimates cannot be made until the final stages of the interpretation, the readings of a few local shocks near the boundary will be found only in the "Distant" section of the Report and vice versa.

## LIST OF ORIGINS

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	SE SEC	NUM OBS	NUM STN
68/ 001	JAN 01 20 34 13	NEAR 38.9S	176.9E		3.3			
002	02 08 41 51.7	38.11S	177.30E	33 R	3.7	0.7	6	4
003	03 02 12 04.8	37.26S	177.36E	218	4.7	0.9	13	9
004	07 16 36 35.7	44.80S	167.46E	33 R	4.0	0.7	7	4
005	08 13 18 06.9	39.78S	174.14E	141	4.1	0.7	9	6
006	08 15 32 41.5	42.10S	174.22E	33 R	4.4	1.3	15	9
007	08 15 37 58.3	42.13S	174.23E	33 R	4.7	1.1	17	12
008	08 15 46 57.8	42.29S	174.19E	33 R	4.8	0.8	5	3
009	08 16 29 08.7	42.04S	174.16E	33 R	4.2	1.0	8	5
010	09 03 27 17.7	42.09S	174.19E	33 R	4.6	1.3	14	11

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	SE SEC	NUM OBS	NUM STN
68/ 011	JAN 09 03 36 52.8	42.03S	174.17E	33 R	3.8	1.1	9	6
012	09 11 33 40.9	42.02S	174.16E	33 R	3.9	1.3	7	5
013	10 01 48 35.2	39.78S	176.92E	33 R	4.1	0.9	12	9
014	10 05 22 53.8	38.54S	175.17E	157	4.0	1.1	9	6
015	10 18 15 38.3	37.30S	176.99E	195	4.0	1.5	10	7
016	10 23 27 30.8	37.95S	176.11E	225	4.3	1.6	9	8
017	13 10 26 33.5	38.24S	176.08E	169	4.2	0.8	11	8
018	15 03 09 19.9	38.06S	176.02E	210	4.0	1.6	9	7
019	15 03 52 10.5	38.36S	177.73E	115	4.4	1.5	7	6
020	15 11 03 39	NEAR TEKAPO (105)			3.1			
021	19 11 55 46.2	43.23S	167.68E	122	3.9	0.9	11	7
022	19 20 21 48.4	33.72S	179.14W	248	4.8	1.2	9	8
023	20 21 21 31	29.9S	179.5W	349	5.8			
024	22 06 47 33.6	38.01S	176.39E	180	4.0	1.2	12	8
025	23 15 10 55.7	42.31S	174.12E	33 R	4.1	0.7	12	7
026	24 03 36 05.4	37.25S	176.88E	278	4.3	0.6	9	7
027	24 05 19 30.9	43.60S	172.32E	33 R	5.1	0.6	18	13
028	24 06 42 31.9	43.54S	172.35E	33 R	4.0	0.7	10	7
029	24 07 56 03.4	43.56S	172.35E	33 R	4.0	0.8	9	6
030	25 13 26 24.2	40.27S	174.91E	68	4.0	0.3	7	4
031	26 16 19 02.1	36.72S	179.52W	195	4.8	1.7	12	8
032	28 08 47 34.1	38.11S	176.17E	214	4.9	1.4	17	12
033	28 12 32 03.1	38.44S	179.30E	339	4.6	1.3	8	5
034	29 11 09 22.6	43.41S	170.98E	12 R	3.7	1.4	8	6
035	29 15 43 24.4	34.28S	179.55W	230	5.6	2.0	12	11
036	30 05 38 54.4	38.99S	175.77E	12 R	5.4	0.9	10	10
037	30 05 42 17.4	38.98S	175.74E	12 R	3.9	1.7	5	4
038	30 07 14 38.2	38.69S	176.66E	12 R	3.9	1.1	5	5
039	FEB 01 13 30 21.9	49.25S	163.75E	33 R	4.9	2.1	12	9
040	02 19 01 01.0	38.44S	176.26E	12 R	4.3	1.3	11	10
041	02 19 27 23.7	37.47S	177.18E	33 R	4.0	1.3	10	8
042	03 01 27 39.1	38.36S	176.36E	12 R	3.9	0.8	8	6
043	03 01 54 43.9	38.31S	176.38E	12 R	4.4	1.3	12	9
044	03 20 00 09.0	38.37S	176.30E	12 R	3.4	0.5	4	3
045	04 03 35 24.0	40.30S	174.28E	109	4.9	1.3	18	11
046	04 22 08 25.4	40.75S	174.52E	33 R	3.4	0.4	8	5
047	04 22 11 14.1	41.08S	175.63E	12 R	3.8	1.2	11	6
048	06 04 29 15.6	40.95S	175.57E	33 R	4.7	1.4	20	12
049	06 19 03 08.6	36.88S	177.47E	12 R	3.9	1.9	12	10
050	11 06 19 04.2	38.80S	177.73E	33 R	4.1	1.7	13	10
051	11 13 27 45.3	40.29S	173.55E	170	5.1	1.8	21	13
052	11 18 43 00.6	34.13S	179.61W	216	5.2	1.7	21	16
053	11 23 15 03.0	37.60S	176.82E	199	4.7	1.6	17	12
054	13 16 33 53.2	40.81S	172.83E	12 R	3.8	1.7	13	9
055	14 06 10 19.2	42.45S	174.25E	33 R	4.3	0.6	10	9
056	14 21 01 07.2	44.99S	167.71E	123	4.2	1.9	9	7
057	15 00 00 55.6	43.06S	167.39E	125	4.5	1.7	10	7
058	15 05 53 55.0	33.03S	179.85W	33 R	4.7	4.0	13	11
059	15 14 51 23.3	33.20S	179.71E	258	5.0	2.3	13	8
060	15 17 45 10.6	39.04S	175.87E	12 R	3.3	0.9	9	6



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 061	FEB 15 19 17 03.1	38.59S	176.53E	94	4.1	1.4	8	9
062	16 09 31 23.8	39.62S	177 25E	33 R	4.3	1.6	14	11
063	16 09 53 08.5	39.72S	177 35E	33 R	4.0	1.5	9	8
064	16 16 35 24.9	39.91S	177 48E	12 R	4.3	1.1	11	9
065	17 15 52 13.7	37.17S	179 12W	33 R	4.3	1.9	14	11
066	17 21 24 38.2	44.50S	167.90E	12 R	4.4	1.8	11	7
067	17 21 30 45.4	44.53S	167 84E	12 R	4.3	2.3	10	6
068	18 15 05 21.8	38.97S	175 76E	12 R	3.7	0.6	9	7
069	19 07 49 26.0	38.25S	175 93E	215	5.0	1.6	21	16
070	19 10 53 43.2	41.11S	175 21E	33 R	3.7	1.3	14	6
071	20 00 38 27.1	42.72S	172.69E	33 R	4.2	1.3	20	9
072	20 16 11 23.8	40.90S	176 82E	33 R	3.6	0.8	13	9
073	21 09 18 34.4	43.03S	167 58E	117	3.9	1.8	13	8
074	21 16 23 14.7	38.46S	176 26E	12 R	3.8	0.9	6	6
075	21 20 47 44.0	39.54S	174 86E	80	4.4	2.2	12	9
076	22 02 01 42.0	44.60S	167.56E	33 R	5.2	1.7	18	16
077	22 02 12 55.6	44.51S	167 61E	12 R	4.6	1.4	9	5
078	22 02 23 53.1	44.62S	167 79E	12 R	4.0	1.1	8	6
079	23 12 10 06.3	44.46S	167 94E	12 R	3.5	0.9	13	6
080	23 17 45 51.7	43.09S	167 59E	122	3.6	1.7	7	4
081	23 22 44 28.0	38.10S	178.30E	12 R			0	1
082	23 23 33 49.4	38.66S	176 73E	12 R	4.5	1.9	16	11
083	24 01 11 23.7	33.07S	177 46W	33 R	6.1	1.9	21	14
084	24 04 49 25.3	44.66S	167 86E	12 R	5.0	1.6	17	10
085	24 08 23 12.8	44.58S	167 82E	12 R	5.0	1.7	14	10
086	24 11 26 58.4	38.58S	177.64E	123	4.5	1.7	15	11
087	24 19 01 27.7	40.85S	174 57E	33 R	4.1	1.8	15	8
088	25 03 43 05.5	36.41S	177 60E	242	4.6	1.9	18	12
089	26 05 57 18.4	44.67S	167 41E	12 R	5.0	1.2	12	9
090	26 15 31 52.1	44.48S	167 77E	12 R	4.3	1.7	10	6
091	26 16 34 53.9	44.54S	167.67E	12 R	4.3	0.9	10	7
092	28 00 13 55.6	44.95S	167 61E	94	4.8	1.1	10	5
093	28 02 29 12.2	43.06S	167 59E	96	4.6	2.5	8	4
094	28 03 30 20.7	43.11S	167 32E	58	4.2	0.3	6	3
095	29 00 18 47.6	43.24S	166 81E	33 R	4.1	1.0	7	4
096	MAR 02 16 35 47.9	37.62S	177.67E	123	4.0	1.6	19	14
097	03 00 08 17.4	44.48S	167 58E	12 R	4.7	2.7	27	13
098	03 02 11 03.4	35.30S	179 02E	33 R	4.3	1.9	37	15
099	03 07 16 24.8	44.61S	168 33E	105	3.9	1.6	15	10
100	03 07 21 00.0	44.56S	167 93E	12 R	3.6	1.4	16	8
101	03 09 15 10.3	44.51S	167.80E	12 R	3.5	1.4	16	8
102	03 10 35 27.0	38.72S	176 10E	12 R	2.6	1.8	6	5
103	03 10 35 34.0	37.88S	177 69E	120	3.8	3.0	22	14
104	03 11 09 31.9	38.04S	176 21E	205	3.9	1.4	17	11
105	03 16 39 19.8	39.17S	179 84E	33 R	4.2	2.6	23	15
106	03 22 56 16.8	34.09S	179.33W	33 R	5.5	2.2	26	18
107	03 22 59 31.6	34.06S	179 34W	33 R	4.6	0.9	11	12
108	04 20 35 38.5	38.39S	176 19E	222	4.4	1.5	21	13
109	04 21 57 57.0	37.76S	176 69E	12 R	4.2	1.9	22	12
110	04 22 00 48.8	37.76S	176 70E	12 R	4.0	2.0	16	10

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 111	MAR 05 05 00 02.4	40.18S	176.15E	12 R	3.5	1.3	11	4
112	05 08 43 09.9	40.37S	174 17E	122	3.8	1.8	13	9
113	05 15 48 48.8	38.62S	177 89E	214	4.7	1.5	22	16
114	05 22 41 53.6	40.85S	176 48E	12 R	3.6	1.3	11	7
115	06 04 37 28.2	45.46S	166 97E	33 R	4.7	1.4	19	10
116	08 05 20 41.4	43.54S	167.69E	12 R	3.4	1.2	9	5
117	08 21 32 33.7	39.05S	174 80E	240	3.9	1.3	16	10
118	08 23 33 59.4	38.63S	175 83E	208	4.5	1.3	22	14
119	09 11 15 45.5	41.07S	178 52E	33 R	4.0	1.4	21	12
120	10 07 11 22.5	35.75S	179 41E	70 R	6.0	2.2	30	20
121	11 03 39 31.5	40.18S	173.68E	187	4.4	1.1	21	12
122	12 13 37 39.3	39.43S	176 19E	109	4.8	1.2	23	17
123	13 14 48 23.6	38.36S	177 81E	270	4.4	1.2	21	14
124	14 10 05 15.2	46.75S	165 53E	33 R	4.4	1.7	13	6
125	15 12 09 57.9	34.28S	179 65E	320	4.4	2.1	18	12
126	16 04 35 32.3	39.21S	179.48E	33 R	4.0	1.8	20	13
127	16 11 33 32.8	38.85S	176 12E	144	3.7	0.7	13	9
128	16 16 32 44.4	38.65S	175 68E	139	3.8	1.5	16	12
129	16 19 55 32.8	39.32S	176 13E	109	4.2	1.1	22	15
130	17 11 22 24.1	41.11S	175 53E	12 R	3.6	1.0	18	7
131	20 09 08 31.9	40.30S	173.54E	169	4.8	1.8	29	18
132	20 16 26 43.7	39.41S	175 43E	12 R	3.2	1.3	13	7
133	21 06 04 06.2	38.04S	177 37E	147	4.1	1.8	20	11
134	21 07 11 28.5	40.26S	175 70E	33 R	4.8	2.6	32	17
135	23 05 33 30.5	39.43S	174 82E	12 R	3.9	2.0	25	14
136	23 05 44 53.3	39.48S	174.84E	12 R	3.7	1.8	16	7
137	23 22 09 08.6	39.25S	177 12E	12 R	4.2	1.5	25	11
138	26 23 46 54.4	37.53S	179 51E	33 R	4.8	2.4	33	17
139	27 11 06 40.2	43.30S	167 54E	83	4.2	2.4	14	7
140	28 16 34 23.9	38.16S	176 52E	12 R	3.9	1.5	13	9
141	APR 01 16 57 52.2	41.75S	172.56E	12 R	2/9	1.8	10	6
142	01 17 32 06.9	41.69S	172 49E	12 R	3.1	0.9	11	5
143	01 17 39 53.6	41.78S	172 59E	12 R	3.8	2.1	23	10
144	02 03 46 24.1	39.95S	178 78E	33 R	4.1	1.4	14	9
145	02 05 36 14.4	38.33S	176 07E	209	3.7	2.2	13	9
146	02 08 12 44.9	43.20S	166.66E	12 R	5.8	1.8	27	15
147	02 09 45 29.3	43.08S	166 65E	12 R	3.7	0.4	9	5
148	02 10 51 20.7	38.98S	175 06E	221	3.8	1.3	15	11
149	02 12 04 50	FIORDLAND						
150	02 14 32 41.9	43.41S	170.00E	12 R	3.7	1.2	12	7
151	02 15 48 50	FIORDLAND						
152	02 17 20	FIORDLAND						
153	02 17 53 57.6	43.22S	166.65E	12 R	4.4	2.2	22	10
154	02 18 01 21.7	43.21S	166 81E	12 R	5.4	2.4	28	15
155	02 18 51 20.0	43.19S	166 53E	12 R	4.3	2.3	20	10
156	04 03 58 59.4	43.24S	166.85E	12 R	3.6	1.3	15	6
157	04 08 32 57.9	38.56S	175 70E	179	4.2	2.3	24	14
158	04 10 48 35.3	44.43S	168 33E	12 R	3.3	0.8	11	7
159	04 11 51 39.8	45.23S	166 93E	12 R	4.4	2.0	22	11
160	04 12 28 44.1	31.15S	178 74E	326	5.4	3.2	16	11



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 161	APR 04 14 04 03.2	32.26S	179.63E	256	4.9	1.3	12	10
162	04 17 16 35.2	33.42S	175.63E	195	3.9	1.0	16	10
163	04 18 29 28.4	43.21S	166.89E	12 R	4.5	1.6	24	10
164	04 22 39 13.2	40.87S	172.91E	12 R	3.9	2.6	20	9
165	05 02 04 17.1	44.84S	167.77E	110	4.4	1.2	15	10
166	05 08 43 12.3	41.80S	174.27E	12 R	3.4	1.7	16	7
167	06 21 46 59.1	44.99S	167.82E	132	4.1	1.5	15	8
168	07 02 34 00.0	NEAR WAIRAKEI (41)						
169	07 02 35 14.6	40.43S	174.20E	12 R	3.5	1.2	19	9
170	07 19 45 16.8	41.08S	174.35E	33 R	4.1	1.7	22	14
171	10 12 41 37.6	38.29S	175.93E	195	3.9	1.0	14	9
172	10 19 35 32.1	38.48S	176.04E	177	4.6	1.4	26	15
173	12 07 39 52.8	45.03S	167.49E	94	4.1	1.1	12	7
174	14 08 02 03.9	38.03S	176.20E	12 R	3.2	2.1	5	4
175	14 08 47 53.3	38.84S	175.29E	245	4.1	1.3	16	10
176	14 13 39 19.7	38.68S	176.36E	12 R	3.7	2.4	17	9
177	15 05 19 41.7	37.98S	177.43E	33 R	4.9	1.9	26	18
178	15 15 16 33.7	41.22S	175.47E	12 R	3.9	1.9	25	11
179	16 09 39 52.8	41.43S	172.57E	210	3.6	1.3	20	11
180	16 19 18 39.9	38.92S	174.95E	180	4.6	1.7	22	19
181	16 20 29 18.2	37.56S	179.41E	33 R	4.4	2.0	28	17
182	18 09 28 32.8	31.84S	178.84E	329	5.3	3.5	22	14
183	18 12 54 08.8	34.97S	179.28E	275	4.2	1.4	15	11
184	18 20 30 43.0	45.01S	171.09E	12 R	3.6	1.4	19	8
185	21 05 23 24.4	33.25S	178.92W	33 R	4.7	1.7	19	15
186	21 10 14 07.1	40.31S	173.92E	138	3.8	1.5	19	11
187	22 07 01 40.7	34.03S	179.24E	263	4.3	2.8	15	11
188	22 21 52 51.3	44.41S	167.75E	12 R	4.8	1.5	27	15
189	22 22 50 49.3	44.41S	167.75E	12 R	4.8	0.6	4	4
190	22 22 50 50.9	44.38S	167.69E	12 R	4.8	2.0	30	15
191	23 17 47 20	NEAR WAIRAKEI (41)						
192	26 07 46 58.0	46.61S	164.84E	33 R	4.1	1.2	15	9
193	26 10 43 05.8	45.37S	167.19E	84	4.6	1.4	18	11
194	26 22 18 43.9	38.30S	177.73E	12 R	3.6	1.7	18	6
195	28 03 46 13.5	38.21S	179.10W	33 R	3.8	1.5	12	9
196	29 04 43 14.6	30.76S	179.41E	594	5.3	1.9	13	11
197	29 19 21 52.2	46.29S	167.30E	33 R	4.1	1.3	18	9
198	30 14 11 50.0	45.46S	167.34E	120	4.0	1.5	15	9
199	MAY 01 02 18 49.9	39.21S	175.28E	33 R	4.0	1.4	14	8
200	02 04 15 47.9	39.12S	177.97E	12 R	3.4	1.9	9	5
201	02 10 56 58.9	38.46S	176.04E	12 R	3.5	2.0	13	9
202	02 12 24 49.0	38.53S	175.80E	200	4.4	1.4	15	8
203	03 01 31 23.3	41.34S	175.04E	33 R	3.7	0.5	9	7
204	03 18 27 26.3	37.18S	177.29E	216	4.0	1.5	13	10
205	03 18 37 45.1	47.29S	165.80E	33 R	4.1	1.5	9	4
206	03 22 57 45.3	40.71S	175.54E	12 R	3.8	1.1	9	5
207	04 04 11 32.1	45.25S	166.59E	33 R	4.4	1.7	14	7
208	04 04 14 32.7	43.18S	166.84E	12 R	3.7	0.8	9	4
209	04 07 08 33.2	38.02S	176.38E	12 R	4.0	1.9	12	7
210	04 10 17 06.1	46.30S	165.44E	94	3.9	2.0	6	4

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 211	MAY 04 21 37 51.8	33.16S	176.39E	176	4.2	0.8	15	9
212	05 09 05 56.1	39.29S	174.64E	220	5.6	1.3	23	16
213	05 09 09 16.0	39.31S	174.78E	231	5.1	1.5	25	16
214	06 04 23 46.0	36.54S	179.28W	214	4.0	1.9	9	7
215	06 06 33 08.4	36.71S	179.44W	188	4.3	1.1	12	8
216	06 09 09 12.2	45.12S	167.72E	93	3.6	0.6	6	3
217	06 13 57 34.0	39.58S	174.41E	219	3.9	1.5	12	7
218	06 17 05 15.6	36.72S	179.52W	181	4.1	1.2	14	8
219	06 17 37 09.7	35.11S	179.06W	225	5.1	0.7	17	13
220	06 18 12 54.4	35.07S	179.08W	234	4.9	1.9	13	8
221	06 18 33 46.1	35.18S	179.29W	235	4.5	1.8	12	8
222	06 19 14 07.5	37.97S	176.13E	207	4.2	1.1	14	8
223	06 19 56 03.9	34.99S	178.89W	33 R	4.4	2.7	12	8
224	07 10 31 21.9	35.51S	179.38W	33 R	4.2	0.9	9	9
225	07 10 32 05.8	35.62S	178.93W	217	4.7	0.9	16	12
226	07 18 06 06.5	39.22S	174.64E	218	4.4	0.6	14	8
227	08 11 43 57.8	33.29S	177.90W	248	5.5	2.7	13	10
228	08 13 09 41.6	35.29S	178.92W	33 R	4.4	2.6	15	12
229	08 13 26 43.4	35.41S	178.83W	33 R	4.4	2.6	14	10
230	08 17 47 37.5	47.25S	165.34E	33 R	3.8	2.0	11	5
231	09 09 27 15.6	33.47S	179.33W	376	5.2	1.9	11	7
232	09 09 31 28.9	34.70S	178.55W	33 R	5.1	1.6	16	13
233	09 12 57 12.5	38.57S	175.82E	178	3.8	0.9	9	6
234	09 21 44 53.9	38.06S	176.03E	231	4.2	1.5	13	7
235	10 14 53 16.2	33.17S	178.00W	33 R	5.4	3.1	14	10
236	10 15 16 52.3	41.02S	177.55E	33 R	4.3	1.2	12	8
237	11 01 40 21.7	35.75S	179.19W	12 R	4.6	1.2	21	12
238	11 14 53 03.0	40.47S	178.73E	33 R	4.1	1.4	15	8
239	12 15 11 08.9	40.76S	177.41E	12 R	4.7	2.0	27	12
240	15 02 56 00.4	38.85S	177.89E	33 R	3.8	2.0	9	6
241	15 06 01 23.1	34.24S	178.41W	33 R	5.0	2.0	16	12
242	15 06 57 31.1	38.98S	177.93E	33 R	4.6	1.9	17	12
243	15 10 01 27.8	37.39S	176.89E	236	4.0	1.4	12	9
244	15 11 33 52.8	38.91S	175.87E	12 R	3.2	1.5	7	4
245	16 02 38 19.3	39.44S	174.99E	117	3.9	1.9	16	10
246	17 01 33 40.3	38.29S	175.90E	189	4.1	1.0	11	7
247	17 02 30 26.6	41.07S	175.43E	12 R	4.1	0.7	10	6
248	17 23 58 48.0	38.69S	176.93E	12 R	3.5	0.5	8	5
249	18 03 16 29.6	39.76S	174.15E	216	4.4	1.4	19	12
250	19 03 21 39.2	39.35S	179.54E	100	4.4	1.4	6	5
251	19 05 31 41.1	38.36S	175.77E	222	4.2	0.9	10	6
252	19 21 09 01.7	38.75S	175.75E	147	4.1	0.9	9	6
253	19 22 38 43.4	39.80S	174.11E	138	3.9	0.5	10	5
254	20 05 32 37.7	37.08S	177.25E	235	4.4	0.7	12	7
255	20 07 35 08.3	39.23S	175.00E	12 R	4.7	1.7	26	14
256	20 07 49 21.3	38.54S	175.85E	135	4.1	0.5	10	7
257	20 14 30 08.7	40.85S	175.61E	12 R	3.8	1.0	14	7
258	20 19 08 30.8	47.32S	165.95E	33 R	4.0	0.6	6	3
259	21 07 32 42.6	40.20S	174.44E	33 R	3.5	0.3	11	6
260	21 08 20 04.5	36.82S	177.27E	217	4.1	0.7	6	4



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
66/ 261	MAY 21 12 26 33.2	39.33S	177.45E	33	4.2	1.1	10	7
262	21 17 06 13.1	40.70S	176.15E	33	4.1	1.3	13	8
263	21 23 08 54.9	40.32S	173.81E	91	3.9	0.7	12	7
264	22 07 50 49.8	39.07S	175.23E	12	3.5	0.7	10	4
265	22 09 32 01.2	37.08S	178.23E	139	4.4	1.3	10	7
266	22 11 27 48.6	44.92S	167.81E	79	3.8	1.0	7	4
267	23 10 10 56.6	39.37S	175.96E	168	4.0	1.0	13	8
268	23 14 21 59.5	38.91S	175.29E	219	3.8	0.7	5	3
269	23 17 24 17.1	41.77S	172.01E	12	7.1	0.9	24	22
270	23 17 33	INANGAHUA AFTERSHOCK			5+			
271	23 17 43	INANGAHUA AFTERSHOCK			5+			
272	23 17 49 41.5	41.77S	171.88E	12	5.2	3.7	12	8
273	23 17 50 11.8	41.97S	171.73E	12	5.1	2.4	18	9
274	23 18 19 29.1	41.74S	171.87E	12	4.4	0.9	10	5
275	23 18 24 17.9	41.79S	171.96E	12	4.8	1.3	7	5
276	23 18 28 06.9	41.78S	171.82E	12	4.4	1.5	9	5
277	23 18 38 16.7	41.85S	171.73E	12	4.2	1.6	8	5
278	23 18 44 33.9	41.71S	171.96E	12	4.9	1.9	15	9
279	23 18 51 33.3	41.81S	171.85E	12	4.3	0.3	8	5
280	23 18 54 42.7	41.98S	171.96E	12	4.7	1.0	7	5
281	23 19 00 24.4	41.94S	172.00E	12	4.4	1.8	8	5
282	23 19 05 39.7	41.54S	171.89E	12	4.4	0.9	11	5
283	23 19 18 52.7	42.03S	172.24E	12	4.1	2.6	10	9
284	23 19 31 38.0	41.72S	171.85E	12	4.0	1.3	10	5
285	23 19 35 01.9	42.39S	171.74E	12	4.0	1.8	8	5
286	23 19 46 27.0	41.91S	171.78E	12	4.1	1.6	9	5
287	23 19 49 03.5	41.75S	171.94E	12	4.0	1.9	12	6
288	23 19 54 41.6	41.81S	171.90E	12	4.2	1.9	9	6
289	23 19 59 41.5	41.94S	171.88E	12	4.0	0.7	9	6
290	23 20 04 14.4	41.77S	171.90E	12	4.8	2.2	23	14
291	23 20 16 27.3	41.89S	171.66E	12	4.2	1.5	15	7
292	23 20 20 11.4	41.82S	171.95E	12	4.8	1.7	12	7
293	23 20 26 49.0	41.95S	171.55E	12	4.1	2.6	10	7
294	23 20 42 21.0	41.93S	171.85E	12	4.0	2.9	13	7
295	23 21 09 50.9	41.64S	171.88E	12	4.8	1.8	30	14
296	23 21 17 16.4	41.75S	171.96E	12	4.1	1.3	17	7
297	23 21 32 56.6	41.92S	171.89E	12	4.0	1.6	13	7
298	23 21 55 33.4	41.54S	172.25E	12	4.2	1.2	15	7
299	23 21 56 45.4	35.27S	177.75E	33	4.2	2.2	7	5
300	23 21 58 48.2	41.82S	171.62E	12	4.3	1.3	13	7
301	23 22 29 30.3	41.84S	171.86E	12	4.1	1.4	15	8
302	23 22 36 18.1	41.92S	172.00E	12	4.6	1.2	18	8
303	23 23 01 42.2	41.86S	171.84E	12	4.1	1.3	16	8
304	23 23 03 29.5	41.77S	171.95E	12	4.9	1.8	14	8
305	23 23 13 40.4	41.87S	171.90E	12	4.2	1.8	18	8
306	23 23 42 38.5	41.74S	171.93E	12	4.0	1.5	15	8
307	23 23 48 24.1	41.63S	171.90E	12	4.0	1.0	16	8
308	24 00 25 57.2	41.66S	171.87E	12	4.4	1.6	14	8
309	24 00 34 07.2	41.74S	171.78E	12	4.0	1.3	16	8
310	24 00 47 28.4	41.93S	171.86E	12	4.0	0.6	9	8

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
66/ 311	MAY 24 01 03 48.1	41.93S	171.82E	12 R	4.2	1.7	16	8
312	24 01 36 14.7	41.89S	171.81E	12 R	4.0	1.4	14	8
313	24 02 15 07.6	41.82S	171.94E	12 R	4.0	2.0	19	8
314	24 02 31 01.2	41.91S	171.73E	12 R	4.5	1.7	18	8
315	24 02 47 39.1	41.77S	171.93E	12 R	4.4	2.0	16	8
316	24 03 03 49.8	41.75S	171.98E	12 R	4.5	1.6	17	8
317	24 03 29 43.2	41.65S	171.88E	12 R	4.2	1.6	16	8
318	24 03 30 00.1	41.77S	171.81E	12 R	4.3	2.7	7	5
319	24 03 36 23.5	41.76S	171.84E	12 R	4.2	1.2	17	8
320	24 04 04 39.2	42.06S	171.96E	12 R	4.7	1.1	17	8
321	24 04 29 35.3	41.76S	171.99E	12 R	4.4	1.9	16	8
322	24 04 59 27.3	42.04S	171.93E	12 R	4.5	1.3	16	8
323	24 05 45 10.6	41.81S	171.96E	12 R	4.2	1.2	19	8
324	24 06 18 46.2	41.74S	171.85E	12 R	4.1	1.7	10	8
325	24 06 43 00.9	41.83S	171.84E	12 R	4.1	1.5	22	8
326	24 07 22 46.8	41.85S	172.04E	12 R	4.9	2.0	16	8
327	24 08 44 48.4	41.81S	171.64E	12 R	4.4	1.8	19	8
328	24 09 01 36.1	41.79S	171.92E	12 R	4.1	1.0	15	8
329	24 10 24 10.9	41.74S	172.13E	12 R	4.6	1.7	21	9
330	24 10 44 45.3	41.77S	171.79E	12 R	4.4	0.9	17	9
331	24 12 35 38.1	41.87S	171.89E	12 R	4.7	1.2	17	9
332	24 12 41 23.1	41.77S	171.92E	12 R	4.2	0.9	16	9
333	24 13 24 57.8	41.78S	171.99E	12 R	4.2	1.6	20	9
334	24 13 31 15.4	41.63S	171.85E	12 R	4.0	1.3	18	9
335	24 15 08 53.2	41.77S	172.04E	12 R	4.5	1.5	21	9
336	24 17 25 38.2	41.74S	171.97E	12 R	4.5	1.0	17	9
337	24 17 40 53.7	41.87S	171.91E	12 R	5.6	1.2	17	9
338	24 20 36 26.6	41.75S	171.79E	12 R	4.0	1.2	19	8
339	24 20 57 27.4	42.03S	171.81E	12 R	6.0	2.0	13	9
340	24 21 23 00.0	41.90S	171.82E	12 R	4.0	1.8	14	7
341	24 21 37 39.0	41.86S	171.92E	12 R	4.4	1.8	17	7
342	24 23 51 53.4	41.99S	171.81E	12 R	4.0	1.6	20	9
343	25 02 10 58.2	41.97S	171.84E	12 R	4.9	1.6	16	9
344	25 04 42 23.3	35.94S	178.07E	33 R	4.2	1.5	14	9
345	25 05 27 19.5	41.96S	171.82E	12 R	4.2	1.4	17	8
346	25 11 02 27.5	38.22S	176.28E	183	4.3	1.2	8	6
347	25 11 18 13.5	41.76S	171.79E	12 R	5.0	1.3	20	11
348	25 19 30 49.6	41.79S	171.72E	12 R	4.0	1.2	11	7
349	25 20 58 32.1	41.81S	171.79E	12 R	3.8	1.3	12	5
350	25 21 07 28.5	41.68S	171.94E	12 R	4.0	1.0	18	8
351	25 22 19 05.2	41.97S	171.80E	12 R	4.2	1.6	17	7
352	25 23 49 15.9	41.92S	171.80E	12 R	5.5	1.4	20	11
353	26 01 10 49.0	39.56S	176.87E	33 R	5.2	1.7	28	19
354	26 01 21 28.5	41.73S	171.96E	12 R	4.2	1.3	19	7
355	26 01 30 37.8	44.96S	167.71E	104	3.6	1.9	8	6
356	26 02 50 56.0	41.71S	171.99E	12 R	4.0	1.1	19	7
357	26 03 20 06.7	41.89S	171.83E	12 R	4.0	1.2	18	8
358	26 04 29 09.9	41.82S	171.87E	9	4.5	1.4	24	13
359	26 11 16 27.2	41.77S	171.92E	14	4.1	1.1	19	8
360	26 14 21 28.4	38.53S	175.89E	136	3.9	1.3	10	7



REF	NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S	E	NUM OBS	NUM STN
68/	361	MAY 26 20 37 37.6	41.69S	171.91E	11	4.8	2.0	16	16	10
	362	26 23 23 20.7	42.01S	171.87E	10	4.2	0.7	16	8	8
	363	28 07 01 49.2	38.23S	176.09E	168	4.3	1.3	16	10	10
	364	28 15 41 26.8	41.89S	171.91E	15	3.8	0.9	12	6	6
	365	28 23 23 22.6	41.89S	171.73E	12	4.0	0.9	15	7	7
	366	28 23 26 41.0	41.86S	171.72E	13	3.5	1.5	12	7	7
	367	29 09 56 19.7	41.76S	171.95E	10	4.4	1.7	13	7	7
	368	29 05 59 24.0	41.95S	171.89E	14	4.0	1.8	14	7	7
	369	29 06 09 07.4	41.71S	171.93E	12	4.8	1.6	19	11	11
	370	29 06 54 19.4	41.90S	171.80E	12	4.0	0.7	13	7	7
	371	29 10 18 43.0	38.40S	176.11E	155	4.3	1.5	14	9	9
	372	29 10 25 40.8	41.80S	172.04E	11	4.2	1.8	16	7	7
	373	29 11 34 18.4	41.99S	171.89E	11	4.4	1.1	12	7	7
	374	29 12 26 14.1	41.93S	171.77E	12	4.1	1.5	15	7	7
	375	29 20 01 46.5	41.75S	172.17E	12 R	4.4	1.1	16	7	7
	376	30 01 17 26.4	41.81S	172.03E	13	4.0	1.2	16	7	7
	377	30 02 00 07.6	41.89S	171.78E	12	4.1	1.4	11	7	7
	378	30 04 24 57.2	41.83S	171.80E	14	5.3	1.2	13	10	10
	379	30 08 57 30.2	37.96S	175.98E	275	3.9	0.4	11	7	7
	380	30 11 52 44.2	41.77S	172.07E	12	4.1	1.0	15	7	7
	381	30 16 27 43.5	41.84S	172.00E	11	4.1	1.2	17	7	7
	382	30 17 04 48.0	41.81S	171.99E	10	4.2	1.2	17	7	7
	383	30 23 11 29.7	41.85S	171.92E	13	4.1	1.1	17	7	7
	384	31 02 42 05.4	38.69S	177.42E	207	4.1	2.7	11	9	9
	385	31 04 52 51.5	41.73S	172.00E	11	4.7	1.0	11	6	6
	386	31 10 40 20.4	37.77S	177.54E	33 R	4.3	2.1	24	12	12
	387	31 14 39 12.5	41.76S	172.00E	8	4.1	1.2	11	6	6
	388	31 15 23 18.8	38.36S	175.90E	184	3.9	0.8	12	9	9
	389	JUN 01 00 20 53.2	41.83S	171.99E	13	4.0	1.5	19	7	7
	390	01 00 33 55.9	41.86S	171.94E	12	4.0	1.2	17	7	7
	391	01 02 41 31.3	38.37S	175.76E	191	4.6	1.3	19	11	11
	392	01 08 42 18.1	31.70S	176.14W	381	5.7	1.9	10	8	8
	393	01 09 19 06.7	33.95S	177.93W	568	4.6	1.1	6	4	4
	394	01 12 07 26.8	39.23S	174.72E	33 R	4.7	1.4	24	14	14
	395	01 16 51 31.6	39.30S	174.86E	33 R	4.4	1.3	23	13	13
	396	01 22 03 13.7	39.26S	174.86E	12 R	3.8	1.3	13	7	7
	397	01 23 45 04.1	39.29S	174.85E	12 R	3.8	1.6	14	7	7
	398	02 01 01 52.1	39.39S	176.69E	12 R	3.7	1.0	13	8	8
	399	02 03 33 13.2	41.92S	173.15E	33 R	3.5	0.6	16	8	8
	400	02 08 26 52.9	41.74S	171.99E	11	4.0	1.4	15	7	7
	401	02 10 46 54.8	39.21S	174.68E	33 R	3.8	1.2	12	6	6
	402	02 11 56 43.0	41.69S	171.82E	15	4.9	1.6	16	10	10
	403	02 16 48 57.4	41.85S	171.94E	12	4.0	1.4	15	7	7
	404	02 21 28 15.0	44.56S	168.03E	84	3.9	1.6	12	7	7
	405	03 00 28 14.7	38.66S	175.76E	175	3.9	1.1	11	6	6
	406	03 17 38 29.8	41.07S	172.08E	12 R	3.6	1.7	11	6	6
	407	03 20 59 44.5	37.43S	177.41E	170	4.2	1.1	14	9	9
	408	04 01 51 07.8	38.68S	175.77E	151	4.0	1.0	12	8	8
	409	04 02 25 51.1	39.25S	175.06E	143	3.9	1.7	10	6	6
	410	05 01 15 00.6	44.99S	169.25E	33 R	3.5	1.4	11	7	7

REF	NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S	E	NUM OBS	NUM STN
68/	411	JUN 05 12 43 17.8	41.81S	171.88E	14	5.3	1.1	14	11	11
	412	05 19 50 19.4	39.15S	175.40E	12 R	3.6	1.3	13	7	7
	413	06 04 01 25.9	41.96S	171.83E	12	4.2	0.6	11	7	7
	414	06 04 03 36.1	41.97S	171.89E	10	4.5	0.7	12	7	7
	415	06 04 58 35.7	41.90S	171.89E	15	4.3	1.0	14	7	7
	416	06 06 06 55.7	42.04S	171.79E	11	4.2	1.0	15	7	7
	417	06 17 08 42.1	41.91S	171.95E	10	4.6	2.1	13	7	7
	418	06 20 56 04.1	41.94S	171.77E	10	4.1	1.3	17	7	7
	419	07 15 22 42.9	41.82S	172.07E	11	4.1	1.9	17	7	7
	420	07 18 53 58.7	41.81S	171.99E	11	4.2	1.3	12	6	6
	421	08 03 02 32.8	41.80S	172.06E	12	4.2	1.1	16	7	7
	422	08 10 06 23.7	44.90S	167.67E	73	3.6	0.9	9	5	5
	423	08 13 34 23.4	43.02S	167.80E	134	4.1	1.5	13	8	8
	424	08 19 45 08.2	41.96S	171.71E	11	3.9	0.8	12	6	6
	425	09 00 51 22.1	39.33S	174.76E	12 R	4.1	1.2	9	4	4
	426	09 05 54 17.7	40.46S	176.52E	12 R	3.7	1.2	9	5	5
	427	09 16 09 19.3	39.96S	175.67E	60	3.7	1.4	8	5	5
	428	09 19 06 33.9	41.94S	171.94E	7	4.8	1.4	19	10	10
	429	10 08 36 15.3	41.78S	171.94E	16	4.7	1.2	9	7	7
	430	10 08 46 27.1	38.22S	176.37E	213	4.1	1.4	9	6	6
	431	10 18 15 11.3	41.99S	171.99E	12	4.1	0.8	15	7	7
	432	10 22 33 56.7	41.85S	171.91E	13	3.8	1.2	17	7	7
	433	11 07 07 36.8	41.94S	171.76E	11	3.4	1.3	13	7	7
	434	11 17 25 19.8	41.72S	174.29E	12 R	3.4	0.9	12	6	6
	435	11 18 26 26.3	41.81S	174.34E	12 R	3.5	1.2	12	6	6
	436	11 22 14 53.9	41.08S	172.54E	12 R	4.2	1.4	22	13	13
	437	12 04 49 18.9	34.09S	177.60E	162	4.3	2.4	11	9	9
	438	12 06 29 58.7	41.81S	171.97E	12	3.2	1.6	15	7	7
	439	12 07 46 37.9	41.87S	171.86E	11	3.3	1.6	15	7	7
	440	12 10 47 46.4	40.54S	177.19E	12 R	3.9	1.5	19	10	10
	441	12 11 29 04.0	40.42S	176.73E	12 R	4.4	1.5	24	15	15
	442	12 23 50 26.2	45.13S	167.54E	111	3.7	0.9	9	5	5
	443	13 06 21 06.6	41.97S	171.79E	10	3.7	1.3	14	6	6
	444	13 09 57 56.9	40.70S	177.01E	12 R	3.7	1.5	13	8	8
	445	13 10 41 48.0	38.83S	177.85E	33 R	4.5	1.7	12	9	9
	446	13 20 20 46.2	37.77S	177.40E	33 R	4.1	1.1	10	6	6
	447	14 18 43 49.5	41.85S	172.06E	11	4.5	1.6	14	7	7
	448	14 19 03 27.0	41.79S	171.96E	15	5.5	1.0	14	10	10
	449	14 19 09 00.1	41.85S	171.94E	12	3.3	1.5	9	5	5
	450	14 21 17 10.8	45.18S	167.48E	82	3.7	0.8	9	5	5
	451	15 05 56 36.9	41.71S	171.90E	12 R	3.2	1.3	8	5	5
	452	15 12 10 53.5	42.00S	171.84E	12 R	4.7	1.3	21	11	11
	453	15 14 29 08.4	41.77S	172.04E	12	3.1	1.2	14	7	7
	454	16 05 58 34.8	41.95S	171.66E	11	4.8	1.3	16	11	11
	455	16 15 09 13.1	40.19S	175.02E	12 R	3.7	1.1	13	8	8
	456	16 17 25 33.3	41.80S	171.89E	14	4.2	1.1	22	11	11
	457	17 00 01 14.0	41.90S	172.00E	12 R	3.2	1.0	0	2	2
	458	17 16 40 13.5	40.67S	175.85E	12 R	4.2	1.0	17	7	7
	459	17 19 36 41.4	46.11S	167.10E	12 R	4.2	0.7	10	5	5
	460	18 06 41 27.2	41.81S	172.03E	12	3.6	1.0	16	7	7



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 461	JUN 18 13 56 28.2	41.79S	171.83E	13	4.5	1.0	22	11
462	18 16 38 39.9	41.99S	171.98E	12	3.8	1.3	15	7
463	18 17 06 17.0	41.91S	171.91E	12	3.2	0.8	14	7
464	18 17 30 56.9	43.34S	167.16E	33 R	5.2	1.1	11	8
465	18 17 58 37.9	37.21S	176.65E	254	5.5	1.3	22	15
466	19 18 30 27.0	40.84S	174.61E	12 R	4.0	1.2	13	7
467	19 22 12 22.0	41.04S	172.55E	12 R	3.5	1.1	10	6
468	20 03 08 04.6	42.00S	171.76E	12 R	4.6	1.0	17	11
469	20 06 12 13.5	46.08S	167.28E	33 R	3.9	1.7	12	7
470	20 16 38 04.5	41.71S	171.99E	13	3.4	1.2	14	7
471	20 23 53 54.6	41.83S	171.93E	13	3.3	1.4	13	7
472	22 02 14 21.5	41.80S	171.73E	13	3.5	0.5	13	7
473	22 20 24 23.9	37.97S	176.79E	169	4.1	0.8	13	7
474	23 11 14 43.9	41.87S	171.73E	11	5.2	1.4	9	8
475	23 11 26 25.7	38.35S	177.03E	12 R	4.4	1.5	24	13
476	23 16 29 27.8	41.76S	171.86E	14	3.0	1.4	13	6
477	24 03 19 41.6	41.10S	175.71E	12 R	3.8	1.5	13	8
478	24 12 08 52.5	41.85S	171.71E	12	3.5	0.9	14	7
479	24 16 01 04.4	39.97S	176.37E	12 R	3.6	1.3	11	8
480	25 12 37 33.7	41.82S	171.95E	12	4.1	0.7	12	6
481	25 13 07 31.7	41.84S	171.99E	12	4.2	0.9	12	6
482	25 15 39 16.4	36.60S	177.95E	123	4.0	2.5	14	9
483	25 23 25 41.8	41.23S	172.35E	12 R	4.4	1.0	16	7
484	25 23 44 10.6	41.27S	172.23E	12 R	4.3	0.7	12	6
485	26 04 28 11.5	41.91S	171.75E	10	3.5	1.4	14	7
486	26 07 03 00.0	41.94S	171.86E	10	4.6	1.1	11	7
487	26 09 56 25.7	41.49S	173.54E	33 R	3.7	1.5	15	9
488	26 18 58 17.3	38.87S	176.21E	106	3.6	1.7	12	8
489	26 21 15 42.7	44.15S	168.31E	12 R	4.1	1.2	14	8
490	26 22 01 46.8	39.04S	177.42E	12 R	3.9	0.7	12	8
491	26 22 37 13.0	33.97S	179.44W	283	4.8	0.9	13	10
492	27 01 01 59.9	40.15S	174.95E	12 R	3.6	1.3	11	6
493	27 08 16 44.6	34.65S	179.05W	329	4.8	1.7	12	8
494	27 10 07 05.4	40.18S	174.90E	12 R	3.6	1.0	12	6
495	28 00 29 18.3	37.40S	176.68E	12 R	4.1	1.3	9	5
496	29 09 26 23.4	41.84S	171.88E	11	3.7	1.5	15	7
497	29 17 11 01.7	37.39S	176.82E	12 R	4.4	1.7	15	10
498	29 20 23 06.1	41.87S	171.94E	12	3.4	1.8	12	5
499	29 23 23 13.9	42.36S	171.61E	12 R	4.0	1.4	14	6
500	30 01 16 14.1	37.83S	176.63E	93	4.0	0.3	5	3
501	30 02 00 00.5	41.99S	171.77E	11	4.3	0.6	12	6
502	30 06 40 06.3	40.26S	174.74E	12 R	3.9	0.8	11	6
503	30 12 37 34.0	35.29S	179.77E	214	4.7	1.9	10	8
504	30 18 33 44.8	38.34S	177.01E	33 R	4.0	1.7	14	8
505	30 20 44 26.0	37.67S	176.25E	161	4.3	0.8	7	4
506	JUL 01 17 15 21.1	41.96S	171.76E	11	3.7	0.9	15	7
507	01 19 57 56.7	41.99S	171.75E	12	3.8	0.8	14	7
508	02 00 19 01.8	38.35S	177.65E	12 R	4.0	0.6	7	5
509	02 05 54 48.3	41.92S	171.76E	12	3.5	1.5	14	6
510	02 09 09 39.4	41.96S	172.08E	12	3.2	0.9	12	6

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 511	JUL 02 17 41 39.3	43.87S	168.97E	33 R	3.2	1.8	4	3
512	02 18 16 57.2	41.66S	171.92E	12	3.7	0.9	14	6
513	02 19 49 17.4	45.17S	167.01E	33 R	5.4	1.8	18	12
514	03 06 22 39.0	41.87S	172.04E	12 R	4.0	0.8	11	6
515	03 09 49 31.5	41.73S	171.89E	12 R	3.5	1.5	6	4
516	03 12 47 30.9	42.01S	171.81E	12 R	4.7	1.3	17	10
517	04 09 19 35.5	44.92S	167.66E	97	4.6	1.7	12	8
518	04 11 33 01.1	44.27S	168.41E	12 R	4.2	1.5	12	7
519	05 13 20 29.8	44.22S	167.93E	12 R	5.2	1.0	16	10
520	05 22 13 03.4	41.79S	172.02E	12 R	4.3	1.1	15	7
521	05 22 17 53.3	41.81S	172.01E	12 R	4.4	1.5	15	7
522	06 01 24 27.0	42.00S	172.88E	12 R	3.6	1.5	12	6
523	06 04 50 41.5	44.23S	168.30E	33 R	3.6	1.8	7	6
524	06 05 12 48.8	44.12S	168.17E	33 R	3.7	1.1	6	7
525	06 07 03 22.4	41.77S	172.13E	12 R	4.1	1.5	13	7
526	06 11 24 25.5	37.68S	176.40E	199	4.5	0.7	12	8
527	06 15 26 32.9	44.01S	167.66E	33 R	3.7	0.8	6	4
528	06 23 04 38.7	38.21S	175.92E	182	5.1	1.3	18	11
529	07 01 08 35.8	44.27S	168.02E	12 R	3.9	1.2	13	6
530	07 03 25 10.0	41.82S	171.98E	12 R	5.0	1.4	19	11
531	07 14 22 07.5	44.02S	167.59E	33 R	4.0	1.7	8	6
532	07 14 22 08.3	44.30S	168.08E	12 R	3.9	1.4	9	6
533	07 17 59 47.2	44.32S	168.08E	12 R	4.2	2.1	12	7
534	08 16 11 00.6	43.92S	173.29E	59	3.8	1.3	10	6
535	08 22 15 38.0	39.31S	174.70E	227	4.6	1.6	19	11
536	09 03 00 27.7	41.83S	171.72E	12 R	4.1	1.5	17	7
537	09 07 14 42.6	35.69S	175.81E	12 R	3.5	1.7	7	4
538	09 14 01 27.3	41.79S	178.49E	33 R	4.3	1.1	11	8
539	09 23 37 35.6	45.63S	166.52E	33 R	3.8	1.0	7	4
540	10 10 54 53.1	40.20S	174.17E	33 R	3.9	0.9	11	8
541	10 12 29 09.7	41.82S	171.73E	12 R	4.0	1.6	16	8
542	13 01 05 23.5	41.84S	171.92E	12 R	3.8	1.2	12	7
543	13 07 41 14.2	36.78S	175.70E	12 R	3.7	0.5	6	4
544	14 20 41 10.6	39.31S	174.92E	12 R	4.5	1.6	14	8
545	14 21 23 35.8	39.27S	175.00E	12 R	3.3	1.2	9	4
546	15 19 13 39.7	38.74S	176.90E	12 R	2.9	1.5	5	4
547	15 20 34 32.3	37.24S	176.54E	286	5.0	1.0	19	13
548	16 11 07 07.0	41.82S	171.87E	12 R	3.8	1.6	15	8
549	17 02 05 39.9	39.16S	175.23E	147	4.6	1.5	21	13
550	17 08 46 38.3	45.12S	167.31E	12 R	3.6	0.7	7	4
551	17 21 25 33.9	38.02S	176.53E	192	4.8	1.6	18	12
552	18 16 21 24.9	37.98S	176.28E	244	4.2	1.1	15	10
553	19 02 42 10.3	41.77S	172.09E	12 R	4.1	1.8	21	10
554	21 05 59 57.8	41.62S	171.86E	12 R	4.3	1.4	16	8
555	22 16 24 51.0	41.70S	171.58E	12 R	3.5	0.9	7	4
556	24 00 00 56.2	35.05S	177.91E	118	4.7	2.0	18	11
557	24 18 53 53.9	41.53S	171.91E	33 R	3.4	1.7	7	5
558	25 07 23 07.8	30.77S	178.39W	60 R	7.7	R	0	12
559	28 04 39 55.2	38.64S	176.41E	111	3.9	1.1	13	10
560	28 23 15 52.4	40.31S	173.65E	194	4.5	2.0	20	11



REF	NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/	561	JUL 29 17 32 18.3	39.30S	176.32E	161	4.2	1.9	14	10
	562	29 22 16 01.8	41.57S	171.72E	12 R	4.4	1.7	12	7
	563	30 04 13 39.3	43.11S	167.49E	79	3.9	0.8	7	4
	564	30 22 18 19.3	41.71S	171.88E	12 R	4.0	1.0	20	8
	565	AUG 02 06 12 19.7	43.20S	167.74E	168	4.7	1.1	13	9
	566	02 11 35 53.9	43.05S	167.55E	93	4.4	0.8	9	5
	567	02 22 37 11.6	42.02S	171.90E	12 R	3.9	1.9	14	7
	568	03 07 34 33.8	36.82S	177.68E	165	4.0	2.1	7	5
	569	03 10 44 48.6	40.69S	178.28E	33 R	4.3	0.8	10	5
	570	04 03 23 20.4	41.72S	172.29E	12 R	3.7	1.0	19	9
	571	05 17 07 12.2	47.86S	165.13E	33 R	4.3	0.8	7	4
	572	05 21 11 10.0	41.81S	171.88E	12 R	3.8	1.9	14	9
	573	05 21 14 26.5	41.78S	171.76E	12 R	3.6	1.3	9	5
	574	06 09 08 37.7	41.74S	172.04E	12 R	3.7	1.9	14	7
	575	07 18 47 43.9	41.83S	172.01E	12 R	4.4	1.3	19	11
	576	08 01 52 54.2	42.13S	171.92E	12 R	4.0	1.9	15	8
	577	09 11 36 52.6	43.24S	167.38E	76	3.8	0.4	7	4
	578	09 22 33 39.4	39.41S	176.04E	33 R	5.0	2.0	25	15
	579	10 10 29 35.1	34.33S	179.29W	271	5.2	1.6	15	12
	580	11 01 04 35.6	40.96S	174.14E	12 R	3.7	1.3	11	7
	581	12 18 24 44.4	41.83S	172.04E	33 R	3.3	1.7	12	6
	582	13 09 08 19.2	40.04S	176.59E	12 R	3.4	1.6	10	8
	583	13 10 48 24.3	41.82S	172.08E	12 R	3.7	1.3	9	6
	584	15 05 06 16.3	41.46S	174.43E	12 R	4.3	1.9	14	10
	585	17 23 00 28.9	41.82S	172.21E	12 R	3.9	1.5	16	8
	586	18 02 45 02.8	41.82S	172.09E	12 R	4.0	0.9	16	8
	587	18 02 58 57.9	44.59S	167.84E	12 R	5.0	1.8	15	10
	588	18 06 24 12.0	47.63S	164.56E	33 R	4.3	0.9	8	6
	589	18 15 14 27.8	37.40S	176.89E	265	4.7	1.1	16	10
	590	19 06 31 31.8	44.58S	167.42E	12 R	4.4	1.5	13	6
	591	19 17 11 07.8	41.91S	171.93E	12 R	3.5	1.0	9	6
	592	19 17 11 24.6	41.92S	171.92E	12 R	3.6	1.5	6	6
	593	20 03 01 37.3	42.51S	172.39E	12 R	4.0	1.2	19	9
	594	20 06 36 21.3	40.38S	174.08E	12 R	4.1	0.7	19	8
	595	20 11 43 29.5	38.40S	175.82E	151	4.0	0.9	10	6
	596	20 13 09 21.8	44.90S	167.74E	33 R	5.0	1.6	17	10
	597	20 20 55 04.1	39.14S	174.98E	267	5.2	1.1	27	15
	598	21 02 19 40.9	41.88S	171.74E	12 R	3.7	0.9	5	4
	599	21 06 24 39.4	36.82S	177.11E	338	4.6	0.2	7	5
	600	21 12 41 36.8	41.78S	172.24E	12 R	3.6	1.5	13	9
	601	21 14 14 58.9	44.35S	167.69E	12 R	4.7	0.9	12	7
	602	22 17 30 33.2	38.19S	176.30E	161	4.1	1.0	9	5
	603	22 23 57 31.0	36.61S	177.40E	12 R	4.4	1.2	24	10
	604	24 09 55 34.7	39.93S	175.80E	126	4.2	0.7	12	7
	605	24 11 07 20.9	41.60S	171.91E	12 R	3.7	1.9	11	5
	606	25 03 32 43.5	41.71S	171.90E	12 R	4.4	1.6	31	9
	607	25 06 11 47.5	44.66S	168.33E	90	4.2	0.8	11	9
	608	25 09 37 24.1	44.92S	167.46E	86	4.4	1.3	10	7
	609	25 12 23 37.4	41.90S	172.11E	12 R	3.5	1.9	16	9
	610	29 20 56 22.4	41.70S	171.79E	12 R	3.9	1.8	15	7

REF	NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/	611	AUG 26 14 14 02.1	38.46S	176.31E	111	3.8	0.2	6	4
	612	26 16 09 59.4	33.37S	179.57W	292	5.3	1.4	15	10
	613	26 19 55 01.0	36.54S	178.00E	33 R	4.3	1.6	9	5
	614	27 03 32 38.8	37.69S	176.93E	33 R	4.5	0.9	6	4
	615	27 07 08 18.7	38.57S	176.28E	33 R	4.1	1.9	11	9
	616	27 09 13 09.3	42.12S	172.16E	12 R	4.1	1.9	21	7
	617	27 16 32 17.3	43.60S	166.95E	93	4.1	1.9	8	5
	618	27 17 02 29.1	39.23S	175.60E	12 R	3.4	0.9	8	5
	619	28 03 33 06.8	40.13S	175.15E	33 R	3.8	1.6	13	7
	620	28 03 42 47.8	41.84S	173.20E	82	3.9	1.0	9	5
	621	28 09 42 48.7	39.58S	174.32E	236	4.2	1.9	11	9
	622	28 20 29 38.9	39.94S	174.12E	110	4.0	1.1	14	10
	623	29 14 39 10.1	41.70S	172.11E	12 R	4.3	1.2	24	9
	624	30 10 49 30.9	38.46S	175.87E	168	4.1	0.3	7	4
	625	30 14 34 39.9	41.28S	173.64E	116	5.3	1.7	26	19
	626	30 21 53 36.8	38.35S	175.70E	226	4.5	1.1	14	9
	627	30 22 52 09.6	37.46S	177.40E	172	4.9	1.2	21	14
	628	31 01 59 32.9	37.35S	177.27E	185	4.4	0.9	10	7
	629	31 07 45 46.2	38.60S	175.70E	162	4.5	1.1	16	11
	630	31 12 13 37.1	39.46S	175.67E	12 R	4.0	0.6	11	5
	631	31 13 42 16.8	41.74S	172.04E	12 R	4.0	1.1	15	6
	632	31 16 31 58.2	36.11S	178.39E	280	4.3	0.9	6	4
	633	31 17 43 55.3	39.48S	174.58E	145	4.3	0.7	12	8
	634	SEP 01 16 44 36.7	41.84S	171.74E	12 R	4.1	1.2	23	7
	635	02 08 29 47.3	41.76S	172.17E	12 R	3.9	0.9	11	6
	636	02 10 40 35.6	41.98S	171.64E	12 R	4.1	1.2	18	9
	637	02 17 07 58.1	37.18S	177.07E	308	3.8	1.1	8	5
	638	03 21 51 16.4	41.97S	171.91E	12 R	3.2	1.3	9	5
	639	05 15 10 13.4	41.80S	172.09E	12 R	3.4	1.2	8	5
	640	06 06 11 36.9	41.81S	172.07E	12 R	3.8	0.7	10	9
	641	07 06 31 25.3	37.69S	176.37E	220	4.9	0.3	14	8
	642	08 13 08 08.8	37.81S	177.46E	81	4.3	1.5	9	6
	643	08 21 22 33.2	37.95S	177.54E	91	4.5	0.9	8	5
	644	09 04 08 39.6	41.80S	171.94E	12 R	4.9	0.9	14	9
	645	10 07 00 02.9	39.21S	174.63E	12 R	4.1	1.9	13	5
	646	12 13 29 56.8	40.28S	176.00E	12 R	3.8	2.1	10	9
	647	12 13 51 57.2	41.81S	171.72E	12 R	3.8	0.9	12	6
	648	12 14 46 13.6	40.39S	175.99E	12 R	3.6	1.8	10	5
	649	13 13 18 29.6	41.85S	171.96E	12 R	3.9	1.4	19	7
	650	14 07 20 13.0	40.48S	175.22E	12 R	4.0	2.0	14	6
	651	14 15 35 36.7	38.78S	175.09E	273	4.7	0.9	16	10
	652	14 15 56 12.7	41.76S	172.00E	12 R	3.7	0.9	13	7
	653	14 17 31 11.5	41.84S	172.22E	12 R	3.6	0.9	6	4
	654	14 19 12 09.1	44.96S	167.72E	12 R	4.2	1.9	14	7
	655	15 00 43 51.2	39.20S	175.32E	179	4.4	2.0	10	6
	656	15 08 49 17.9	41.36S	173.43E	114	4.5	2.2	15	8
	657	16 12 29 24.6	41.67S	171.42E	12 R	3.7	1.0	7	5
	658	18 03 39 53.4	41.78S	172.23E	12 R	3.6	1.1	5	3
	659	18 09 26 02.1	41.98S	171.94E	12 R	3.8	1.1	12	9
	660	18 13 49 54.3	41.03S	175.87E	12 R	4.3	0.9	11	9



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
66/ 661	SEP 18 15 43 33.5	39.39S	176.23E	33 R	4.1	1.0	9	6
662	19 16 11 04.7	41.70S	171.94E	12 R	4.0	1.5	15	6
663	19 17 12 03.1	41.15S	174.27E	12 R	4.0	0.9	15	8
664	20 01 55 28.3	36.87S	177.90E	221	4.5	1.3	8	6
665	21 02 03 41.8	40.16S	174.85E	12 R	4.3	1.7	15	6
666	21 02 51 49.6	42.02S	171.98E	12 R	3.9	0.7	11	5
667	23 01 26 59.2	33.26S	177.60E	12 R	4.2	2.2	14	6
668	23 12 30 13.0	41.66S	172.08E	12 R	3.6	1.1	16	7
669	24 02 32 59.0	41.50S	173.03E	108	3.9	1.3	10	7
670	25 02 34 24.4	38.48S	175.75E	189	4.4	0.5	10	5
671	25 07 02 47.6	46.71S	166.78E	12 R	6.5	1.9	20	13
672	25 07 55 42.5	46.48S	166.24E	12 R	4.9	1.9	16	6
673	25 08 20 31.0	46.40S	166.84E	12 R	4.9	1.2	10	5
674	25 08 26 59.0	46.37S	166.53E	12 R	4.8	2.8	16	6
675	25 09 12 52.1	46.48S	166.65E	12 R	4.3	1.1	11	5
676	25 09 41 29.5	46.36S	166.69E	12 R	4.1	1.4	12	5
677	25 10 12 49.3	46.59S	166.69E	12 R	3.9	2.0	7	4
678	25 16 48 33.2	46.61S	166.50E	12 R	4.4	1.4	12	6
679	25 18 35 28.2	38.19S	176.56E	173	4.5	1.8	10	9
680	26 03 25 07.2	46.46S	166.71E	12 R	4.5	1.4	11	6
681	27 00 01 27.3	40.48S	174.59E	120	4.3	1.3	14	9
682	27 13 18 46.0	39.48S	177.34E	12 R	4.2	1.8	13	8
683	29 13 37 58.3	33.02S	178.24W	304	5.5	0.9	16	9
684	30 10 27 28.7	41.27S	175.66E	12 R	3.7	1.5	12	5
685	OCT 01 11 16 59.7	36.16S	177.93E	275	4.3	0.9	8	5
686	01 13 15 07.6	36.44S	177.29E	12 R	4.1	1.1	12	6
687	01 14 21 24.5	39.27S	174.78E	220	4.4	1.7	15	10
688	01 23 17 15.9	37.98S	177.84E	142	4.8	2.2	16	10
689	02 03 17 50.1	39.92S	174.37E	137	4.2	1.5	11	7
690	02 13 07 16.2	39.65S	174.42E	220	4.5	1.4	14	7
691	02 18 55 41.2	41.60S	171.37E	12 R	4.1	1.1	17	6
692	03 12 18 05.1	33.82S	178.65W	316	5.8	1.9	17	11
693	05 06 05 44.9	33.94S	179.54W	271	5.9	2.1	14	8
694	05 06 08 26.3	46.60S	166.09E	12 R	5.1	1.5	10	4
695	05 06 36 03.1	41.21S	174.20E	55	3.7	1.0	8	5
696	05 11 17 07.3	38.21S	176.40E	177	4.6	1.0	18	11
697	05 15 09 05.7	39.71S	175.48E	12 R	4.2	1.9	11	6
698	06 14 39 24	NEAR MANAPOURI (139)						
699	06 16 45 31.0	46.11S	167.19E	12 R	4.4	1.2	11	6
700	07 00 37 51.3	41.52S	171.76E	12 R	3.6	1.9	6	4
701	08 12 06 28.3	41.78S	171.92E	12 R	4.0	0.8	20	9
702	08 23 59 55.8	39.89S	174.28E	218	4.9	1.6	20	12
703	09 09 09 13.7	38.92S	176.30E	105	4.4	0.8	14	9
704	09 19 27 18.8	38.04S	178.26E	169	4.4	1.8	16	10
705	10 16 52 29.7	38.97S	176.22E	86	3.8	1.1	13	8
706	10 17 46 30.0	41.65S	171.93E	12 R	4.2	1.3	19	9
707	10 18 47 00.2	46.38S	166.14E	12 R	4.3	2.5	10	5
708	11 01 27 40.4	41.83S	172.22E	12 R	3.5	1.2	9	5
709	12 04 04 24.9	33.94S	176.00E	118	4.5	1.1	14	8
710	12 17 10 06.2	40.84S	176.18E	33 R	3.8	0.6	8	6

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 711	OCT 13 18 34 46.5	36.14S	177.51E	12 R	4.3	1.1	16	8
712	15 05 53 17.7	41.76S	172.18E	12 R	3.7	1.4	10	5
713	15 08 49 43.8	41.73S	171.85E	12 R	3.7	1.3	17	7
714	15 23 22 17.8	40.20S	173.75E	208	4.8	1.6	17	9
715	16 14 54 20.4	37.92S	176.29E	323	4.6	0.9	14	9
716	16 15 40 12.5	44.86S	167.69E	12 R	4.2	1.5	13	6
717	17 10 18 36.8	46.43S	166.56E	12 R	4.1	1.4	7	4
718	17 19 12 58.6	35.77S	178.06E	216	4.4	1.7	9	6
719	17 22 44 14.7	42.38S	172.93E	33 R	3.9	1.4	16	8
720	19 01 59 43.9	36.33S	177.38E	12 R	4.7	1.7	18	8
721	19 11 33 37.0	39.26S	174.77E	33	3.7	1.9	11	6
722	20 07 07 49.9	45.39S	166.40E	12 R	4.4	1.3	19	8
723	20 13 49 17	NEAR COBB RIVER						
724	20 18 13 07.5	36.57S	177.62E	12 R	4.3	1.4	14	9
725	21 01 11 02.4	33.47S	179.91E	362	4.8	0.8	8	5
726	21 04 35 21.5	46.35S	166.41E	12 R	3.8	1.1	11	4
727	22 00 44 36.3	40.75S	173.57E	192	5.0	1.2	18	13
728	24 02 41 08.4	40.36S	173.60E	173	4.4	1.0	12	7
729	24 13 18 53.0	48.07S	167.65E	108	4.2	1.6	13	8
730	25 01 20 24.8	46.34S	166.23E	12 R	5.0	1.1	21	8
731	25 04 08 59.5	46.23S	166.47E	12 R	3.9	1.6	8	5
732	25 05 32 33.3	46.19S	166.27E	12 R	4.2	1.6	9	5
733	25 05 34 01.4	39.18S	174.99E	240	5.3	1.7	21	13
734	27 08 41 01.9	42.13S	171.73E	12 R	3.1	0.7	6	4
735	29 02 17 04.9	35.84S	179.50W	127	4.6	1.6	12	7
736	29 17 13 44.4	38.25S	179.67E	297	4.6	1.0	10	7
737	30 02 08 12.6	41.93S	172.06E	12 R	3.3	1.4	8	5
738	30 08 46 48.8	34.89S	179.82W	329	4.7	0.7	8	5
739	30 16 29 58.6	41.79S	171.84E	12 R	3.8	1.6	19	7
740	30 19 09 58.2	41.80S	173.71E	12 R	4.5	1.0	15	7
741	30 23 40 04.5	44.24S	167.70E	12 R	4.6	2.2	16	7
742	31 16 18 41.5	39.14S	174.74E	196	4.4	1.4	13	8
743	01 01 32 24.6	41.60S	175.07E	33 R	5.5	1.6	24	17
744	01 07 33 23.2	42.06S	171.72E	12 R	4.1	1.1	9	6
745	01 08 32 36.1	41.01S	172.89E	227	4.4	0.8	11	8
746	01 13 46 19.5	37.09S	176.84E	294	5.8	0.9	17	11
747	02 11 35 08.9	41.96S	172.03E	12 R	3.5	0.6	8	5
748	06 00 20 21.4	41.86S	171.86E	12 R	4.0	0.9	10	6
749	06 00 42 22.7	44.86S	167.33E	33 R	4.1	0.3	5	5
750	06 16 11 23.6	41.60S	171.64E	12 R	3.8	0.4	7	4
751	06 20 07 15.7	47.35S	165.90E	33 R	4.7	1.4	8	4
752	08 04 59 59.0	45.38S	167.23E	12 R	3.7	1.2	6	4
753	08 18 57 50.1	41.68S	173.24E	33 R	3.9	1.1	9	4
754	09 12 12 20.2	40.38S	175.95E	113	4.8	1.0	12	9
755	09 13 20 23.3	41.44S	172.82E	129	4.2	0.6	10	6
756	10 00 24 13.5	45.28S	166.51E	33 R	4.0	1.6	5	3
757	10 03 40 59.1	38.47S	175.80E	171	4.2	0.8	12	6
758	10 04 30 46.2	38.35S	177.65E	89	4.3	1.4	7	6
759	11 01 50 43.5	39.48S	175.76E	169	4.2	0.8	9	6
760	11 12 48 05.1	37.68S	176.57E	220	5.0	0.7	15	12



REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 761	NOV 11 15 37 09.5	45.25S	167.15E	33 R	5.4	2.0	7	6
762	11 22 23 05.9	38.22S	178.84E	33 R	4.2	1.0	10	7
763	12 10 04 05.2	45.38S	166.68E	12 R	4.4	1.2	12	4
764	12 11 01 07.2	39.60S	177.22E	12 R	3.8	0.5	6	3
765	12 12 13 14.9	41.20S	174.66E	33 R	3.5	0.6	7	3
766	13 05 44 57.4	46.30S	166.55E	12 R	4.3	0.9	8	4
767	13 06 32 38.3	46.20S	166.46E	33 R	3.9	1.4	7	3
768	13 08 06 38.3	39.27S	174.66E	12 R	3.6	1.1	12	4
769	13 11 09 51.5	37.75S	176.42E	12 R	3.7	0.2	6	3
770	13 17 37 08.0	40.66S	178.54E	12 R	3.9	0.7	7	4
771	13 21 23 17.5	44.07S	168.08E	12 R	4.0	1.2	9	4
772	14 12 48 21.9	40.71S	176.61E	12 R	3.5	0.5	7	3
773	15 04 34 01.7	46.39S	166.77E	12 R	4.0	1.2	11	5
774	15 04 38 30.5	35.84S	177.51E	169	4.3	1.3	6	4
775	15 11 53 31.1	45.38S	166.46E	12 R	3.9	1.5	9	3
776	16 03 22 38.2	46.36S	166.39E	33 R	4.2	1.5	10	5
777	16 11 14 44.4	38.85S	175.18E	204	4.2	1.0	10	6
778	16 15 58 59.5	44.99S	167.77E	141	4.7	1.0	14	10
779	16 17 33 27.9	38.57S	175.79E	192	4.2	0.5	12	6
780	17 07 48 31.2	41.74S	171.75E	12 R	3.6	0.9	7	3
781	17 07 55 23.3	40.94S	173.78E	84	4.3	1.0	10	7
782	17 15 39 47.4	40.57S	173.64E	176	3.9	0.6	6	3
783	18 03 00 38.3	45.43S	166.46E	33 R	4.1	1.7	7	3
784	18 08 41 47.7	45.25S	166.44E	33 R	3.9	0.8	5	3
785	18 14 30 05.7	38.55S	175.85E	177	4.1	0.4	12	7
786	18 19 19 10.3	33.24S	179.38E	33 R	4.7	1.4	14	6
787	19 07 09 37.6	44.30S	169.54E	12 R	3.9	1.7	14	6
788	19 08 48 29.4	42.13S	171.46E	12 R	4.1	1.5	9	4
789	19 10 14 46.6	33.33S	178.16W	339	5.8	2.0	12	7
790	19 12 19 59.6	33.28S	178.41W	284	4.8	1.0	7	4
791	20 04 21 03.2	41.70S	172.00E	12 R	3.7	0.3	5	3
792	20 18 57 27.9	42.35S	172.38E	12 R	3.9	0.7	10	4
793	20 22 17 05.2	42.02S	172.10E	12 R	4.0	0.5	7	3
794	20 23 16 31.7	40.77S	171.91E	12 R	3.7	0.7	5	3
795	21 22 11 31.7	38.10S	176.70E	12 R	3.4	R	0	2
796	21 22 46 30.0	37.00S	176.98E	12 R	4.6	1.2	14	5
797	22 03 43 08.8	34.96S	179.85W	283	5.9	1.2	10	8
798	22 04 13 33.0	41.67S	171.56E	12 R	4.2	0.9	11	6
799	22 10 27 22.7	38.10S	176.70E	12 R	3.5	R	3	2
800	23 02 15 11.2	40.91S	178.08E	12 R	4.0	0.7	7	3
801	24 06 43 03.2	41.70S	171.99E	12 R	3.9	1.1	9	4
802	25 06 54 07.8	46.50S	166.82E	33 R	3.9	1.1	7	4
803	26 05 27 51.2	46.00S	166.76E	12 R	4.5	1.2	14	6
804	26 09 20 07.3	38.87S	175.09E	238	4.5	1.0	14	8
805	26 20 04 11.1	46.92S	166.59E	12 R	4.3	1.7	8	4
806	27 01 32 31.3	38.60S	176.07E	146	4.1	1.7	14	9
807	27 02 38 50.1	33.12S	178.64W	33 R	4.9	1.9	16	9
808	27 20 20 32.0	33.12S	176.13E	208	4.0	0.8	8	5
809	28 00 52 07.6	39.78S	174.09E	122	4.0	0.4	9	5
810	28 05 29 40.1	44.38S	167.03E	12 R	4.2	1.5	15	6

REF NUM	ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 811	NOV 29 20 39 19.9	40.44S	173.47E	186	4.2	1.8	12	9
812	30 16 02 49.7	38.70S	175.70E	132	3.7	1.1	10	5
813	DEC 01 07 45 49.7	46.94S	165.18E	33 R	4.6	0.3	6	3
814	01 08 27 18.7	37.77S	177.62E	114	4.3	1.5	11	7
815	02 14 53 13.2	47.92S	165.33E	12 R	5.1	2.3	18	8
816	02 16 25 21.0	40.62S	176.68E	33 R	4.2	0.6	11	6
817	03 16 27 37.8	38.36S	176.47E	220	4.4	1.6	11	7
818	04 11 33 12.1	40.70S	176.72E	33 R	4.2	1.0	14	9
819	07 01 55 09.8	41.91S	171.90E	12 R	4.4	0.8	17	8
820	07 07 16	NEAR TAUPŌ (41)			2.5			
821	07 11 28 02.5	39.51S	177.65E	33 R	4.4	1.2	13	8
822	08 05 51 03.1	46.02S	166.28E	33 R	4.1	2.2	6	3
823	09 15 29 25.3	37.59S	177.59E	232	4.5	1.3	11	8
824	09 19 15 29.0	46.32S	166.21E	33 R	4.0	1.7	8	4
825	10 09 27 57.2	36.48S	177.32E	33 R	4.1	2.7	9	6
826	10 11 53 33.5	37.95S	179.62E	33 R	4.0	2.1	11	5
827	10 17 10 49.6	37.07S	177.32E	12 R	4.2	1.6	15	10
828	10 17 43 11.6	41.46S	172.70E	214	4.2	1.2	12	7
829	10 17 57 21.4	41.76S	171.83E	12 R	3.9	0.9	15	8
830	11 06 42 35.8	38.74S	178.61E	33 R	4.2	0.6	10	7
831	11 07 47 01.2	38.31S	176.26E	226	4.0	1.5	8	5
832	11 12 32 05.6	36.73S	177.59E	205	4.6	1.5	16	10
833	13 00 40 29.4	39.99S	176.27E	33 R	3.8	1.1	16	7
834	13 01 10 45.0	41.36S	174.54E	63	3.8	1.0	7	4
835	13 01 56 05.1	45.12S	167.65E	104	3.9	0.1	5	3
836	13 06 02 24.0	38.99S	177.89E	33 R	3.9	0.9	5	3
837	14 01 14 26.9	34.30S	177.36W	33 R	5.2	2.4	11	11
838	14 02 00 41.0	36.70S	179.69E	190	4.6	1.1	12	9
839	14 03 30 13.8	32.75S	178.97W	33 R	5.1	2.2	7	5
840	14 11 13 51.2	45.00S	167.74E	79	3.6	0.7	6	3
841	14 19 49 53.5	41.84S	171.80E	12 R	3.6	1.1	16	6
842	14 20 19 26.9	39.26S	174.96E	248	4.1	2.2	8	6
843	15 01 19 03.7	38.30S	178.69E	105	4.0	1.0	7	4
844	15 03 56 27.6	41.70S	172.02E	12 R	3.6	1.2	17	7
845	15 18 09 58.2	41.96S	171.84E	12 R	3.7	0.9	20	6
846	16 23 55 21.8	41.70S	171.91E	12 R	3.8	1.2	23	9
847	17 00 28 04.4	36.68S	177.27E	281	4.6	0.5	9	6
848	17 06 05 12.2	40.60S	176.64E	12 R	3.9	1.3	12	5
849	17 08 17 27.7	38.71S	176.06E	194	4.2	1.8	13	8
850	17 11 56 03.6	39.21S	178.18E	33 R	4.0	1.2	5	3
851	18 05 43 15.6	46.36S	166.78E	33 R	3.7	2.2	6	4
852	18 08 18 52.2	44.30S	167.91E	12 R	3.7	1.2	11	5
853	18 17 41 39.9	39.13S	174.99E	239	4.3	1.3	17	10
854	19 08 37 04.3	37.98S	177.63E	136	4.7	1.7	13	10
855	20 07 02 25.9	34.83S	178.69E	12 R	4.8	2.9	11	7
856	20 14 03 42.2	38.50S	176.00E	217	4.3	0.7	11	6
857	20 17 50 04.6	38.80S	175.81E	195	4.3	1.7	11	7
858	21 08 04 08.2	39.73S	178.37E	33 R	4.1	1.4	10	5
859	21 11 39 28.0	38.52S	175.69E	213	4.0	0.6	8	6
860	21 22 00 54.1	38.38S	178.02E	33 R	3.7	0.8	6	4



REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
68/ 861	DEC 22	02 04 42.2	33.67S	177.90E	72	4.0	1.2	14	7
862		22 04 11 43.7	42.25S	174 00E	33 R	4.3	1.3	13	11
863		22 05 37 28.2	39.38S	176 17E	93	4.1	0.7	13	9
864		22 15 53 31.5	37.63S	174 10E	111	4.0	0.9	10	6
865		22 18 53 29.9	39.06S	175 27E	133	4.1	0.3	9	6
866		22 21 51 56.7	41.42S	173.37E	114	4.2	1.5	16	9
867		22 23 05 30.2	41.96S	171 76E	12 R	3.7	0.7	13	6
868		23 17 51 06.2	37.41S	177 30E	153	4.1	0.9	11	7
869		23 18 29 01.3	44.74S	167 63E	12 R	4.8	2.2	31	12
870		23 22 59 21.7	44.61S	167 60E	12 R	3.7	1.3	6	3
871		23 23 09 00.4	37.42S	177.40E	176	4.4	0.8	11	6
872		24 00 43 03.3	41.71S	172 01E	12 R	3.8	1.1	22	9
873		25 08 10 33.2	40.88S	176 36E	12 R	4.3	1.7	22	9
874		25 13 32 45.7	39.82S	174 64E	165	3.9	0.6	7	4
875		25 15 43 06.0	34.43S	179 54W	246	5.4	0.8	18	12
876		25 17 46 01.4	39.92S	176.19E	12 R	3.7	1.9	11	6
877		25 19 33 44.2	41.76S	172 14E	12 R	3.5	1.4	17	6
878		26 00 38 25.1	41.83S	171 98E	12 R	3.9	1.0	21	7
879		26 01 43 52.3	41.44S	172 99E	112	4.1	1.0	13	8
880		26 06 37 03.4	39.47S	177 17E	12 R	3.8	2.5	10	3
881		26 07 27 28.3	47.46S	165.28E	12 R	4.2	1.6	17	7
882		26 08 10 06.3	41.96S	171 84E	12 R	3.8	1.3	17	6
883		26 08 47 21.4	34.37S	178 62E	199	4.5	1.1	7	5
884		26 11 23 51.2	37.30S	177 99E	234	4.2	0.3	6	3
885		26 11 51 54.7	39.29S	177 36E	33 R	4.1	2.1	7	4
886		26 12 59 03.6	41.82S	172.11E	12 R	3.7	1.3	20	7
887		26 14 55 40.6	39.16S	176 42E	145	4.0	0.8	11	6
888		26 15 04 20.8	35.25S	177 39E	33 R	3.9	1.7	6	4
889		26 16 53 27.0	47.48S	164 97E	33 R	4.6	1.3	15	9
890		26 18 02 25.3	47.48S	164 95E	33 R	3.8	1.9	9	4
891		26 21 20 51.5	45.33S	167.58E	12 R	3.9	2.0	12	6
892		26 23 00 48.4	41.95S	171 81E	12 R	3.6	1.2	14	3
893		27 05 18 59.9	38.63S	176 10E	137	4.2	1.5	15	8
894		27 09 45 36.9	37.77S	176 27E	221	4.2	0.5	11	7
895		28 01 06 33.8	38.82S	176 14E	120	4.0	1.1	8	6
896		28 04 05 52.2	39.30S	174.82E	222	4.4	1.5	17	9
897		28 07 43 35.1	41.76S	172 09E	12 R	4.1	1.6	33	9
898		28 12 02 44.1	38.44S	175 75E	169	4.0	1.0	10	6
899		28 23 45 12.0	35.82S	177 88E	282	4.3	2.3	6	5
900		29 21 01 44.8	37.85S	177 52E	33 R	3.9	1.2	7	4
901		30 04 05 28.8	38.09S	176.61E	159	4.1	0.8	10	5
902		31 02 06 54.8	41.95S	171 83E	12 R	3.9	1.7	16	6

This section contains origin times, epicentres, focal depths, magnitudes, and station readings of those earthquakes in the New Zealand region that could be located from instrumental data. In general, origins are calculated for all sufficiently well recorded earthquakes within 10° of Wellington. The calculations are carried out by an Elliott 503 digital computer using a programme developed by R.M. Hamilton, similar to that described by B.A. Bolt (Geophysical Journal: Vol. 3, pp.433-40, 1960). A provisional origin is repeatedly adjusted to obtain the best agreement between observed arrival-times for the various phases, and times computed from tables. More precisely, the origin is adjusted to minimise the sum of the squares of the residuals (observed minus computed arrival-times).

The earthquake origins are determined using the phases Pn, P\* and Pg, and the corresponding S phases. In computing travel-times, it is assumed that the New Zealand crust is 33 km thick, and is divided into two uniform layers by a discontinuity at a depth of 12 km. Above the discontinuity the velocity of P and S are 5.5 and 3.3 km/sec respectively (Pg and Sg), and below it they are 6.5 and 3.7 km/sec (P\* and S\*). Travel-times for Pn and Sn waves, which travel in the mantle, are derived from the Jeffreys-Bullen "Seismological Tables" (British Assn. for the Advancement of Science, 1958), but modified by multiplying the times by 0.96. Several studies have shown that times in the table are too great to fit New Zealand observations. The result of applying this correction is to raise the adopted Pn velocity from about 4.4 to 4.6 km/sec. These values are close to those reported.

In general, all four parameters of the earthquake origin are calculated (origin time, latitude, longitude, and focal depth). In some cases, however, the focal depth is not allowed to vary, but is restricted to a certain depth. The restrictions are as follows: -

1. Depth is restricted to 12 km if Pg or Sg phases are identified.
2. Depth is restricted to 33 km if:
  - (a) P\* or S\* phases, but not PG or Sg, are identified,
  - (b) the number of readings is insufficient to determine depth,
  - (c) the computer indicates that the depth is less than 33 km,
  - (d) a solution is not obtained with the depth unrestricted.

Parameters that have been restricted are identified by the letter R appearing in the place where the standard error is usually printed.

Solutions are attempted whenever sufficient readings are available. The minimum requirement to determine an epicentre is a total of three readings at two stations, plus a felt report to resolve the ambiguity.

In using the results in this section, it is essential to keep in mind that the position of earthquakes whose epicentres lie outside the network of seismograph stations can be very uncertain, even though the readings may be consistent with the computed origin (i.e., the residuals are small). Because of the presence of systematic errors, the true origin could be very different from the one calculated. Great care should therefore be taken not to attach significance to an epicentre in an unusual place or a focus at an unusual depth if the recording stations used are not well distributed about the epicentre.



## EXPLANATION OF DATA

The first line printed for each earthquake gives the reference number, used throughout the Report. The second line gives the parameters of its origin, the standard error of the residuals, and the average of the magnitude determinations.

The standard error is derived from the equation

$$SE = \frac{\sum_{i=1}^n r_i^2}{n - m}$$

where  $r_i$  is the  $i^{\text{th}}$  residual,  $n$  the number of readings, and  $m$  the number of parameters determined. Below each parameter of the origin, its standard error is printed, or if the parameter was restricted to a particular value, the letter R. When the number of readings and the number of parameters to be determined is the same, the standard error is not defined. This is indicated by printing ND.

The information listed for each station includes the arrival-times of the various phases, the directions of ground motion, the residuals, the epicentral distance in degrees ( $1^\circ = 111$  km), the azimuth of the station from the epicentre, in degrees east of north, and magnitudes computed as described below. The directions of ground motion are indicated by the following letters: - U-up, D-down, N-north, S-south, E-east, W-west. When the instruments are not oriented towards cardinal points, the letters are X for a movement in the northeast and F in the southwest quadrant (as at BUN and KAI), Y for one in the northwest and J in the southwest quadrant (as at BUN and TON).

Magnitudes are  $M_L$  as defined by C.F. Richter (Bull. Seismol. Soc. America: Vol. 25, pp.1-32, 1935) obtained from the maximum amplitude of the S-group as recorded on a Wood-Anderson seismograph adjusted to standard constants (W-A), or by using equivalent relationships for the maximum F and S amplitudes recorded on a vertical Willmore seismograph (WP or WS). These relationships were empirically derived by A.A. Thomson from a comparison between records of the same earthquakes on the two types of seismograph.

Residuals are listed for all readings used in calculating the origin. An asterisk following the residual indicates that the corresponding reading was not used in the final determination. A reading is omitted from the determination if the absolute value of its residual exceeds twice the standard error, and the residual is not used when the final standard error is calculated. This provision for discarding readings is made to guard against the inclusion of spurious or wrongly identified ones.

Although the main readings from Raoul Island are contained in a later section, readings from this station have been used in the determination of the origins of some earthquakes. In these cases the Raoul Island readings will be found also in the following section. In a small number of cases readings from the station at Macquarie Island (MCG), operated by the Australian Commonwealth Bureau of Mineral Resources, have also been used, and are listed with the New Zealand readings.

## LOCAL EARTHQUAKES

35

JAN 01	H	M	S	YEAR	39.9S	176.9E						68/ 001			
	20	34	13				H	M	S	DIR	RES	DIST	AZ	AVG MAG	3.3
TUA	IP*				20	34	19.3		24						
GNZ	EPN				20	34	32		45					3.4	3.1
	ESN														
	FELT AT MAUNGATAVIHA (42)														
JAN 02	H	M	S									68/ 002			
	08	41	51.7		38.11S	177.30E				33	KM	SE	0.7	AVG MAG	3.7
			+ 0.3				0.03		0.02	R					
TUA	PN				08	42	04.0			-0.6		0.70	190	W-A	3.9
	ESN						14			-0.0					4.0
ECZ	ESN				08	42	23			0.1		1.07	67		3.7
	E						45								
KRP	EPN				08	42	14			-0.2		1.41	277		3.1
	ESN						31			-0.2					
GNZ	EPN				08	42	20			1.0		1.75	231		
	FELT AT WAIMANA (35) MM IV														
JAN 03	H	M	S									68/ 003			
	02	12	04.8		37.29S	177.36E				218	KM	SE	0.9	AVG MAG	4.7
			+ 1.0				0.03		0.06	10					
ECZ	P				02	12	36.6			-0.3		1.04	115	W-A	5.1
	E						56								
	ES						13	01		-0.8					
	E						11								
TUA	P				02	12	41.8			0.9		1.56	186		4.9
KRP	IP				02	12	42.0		US	0.8		1.59	245		4.6
	E						43.5								
	E						51								
AUC	EP				02	12	46			-0.0		2.10	280		
GNZ	P				02	12	51			1.8		2.41	216		4.0
MNG	IP				02	13	04.0		U	0.3		3.66	203		5.0
	ES						49			-0.3					4.1
WEL	EP				02	13	14			0.0		4.50	206	5.0	4.6
	ES						14	07		-0.7					4.8
	E						16								
CRZ	EP				02	13	16			-0.9		4.73	305		
COB	EP				02	13	23			-0.4		5.25	222		
	S						14	24		-0.5					
JAN 07	H	M	S									68/ 004			
	16	36	35.7		44.80S	167.46E				33	KM	SE	0.7	AVG MAG	4.0
			+ 0.7				0.03		0.04	R					
MSZ	EP*				16	36	43			-1.0		0.35	68	W-A	4.1
MNW	IPN				16	36	53.0			0.5		0.99	174		4.3
	ESN						04.5			-0.5					
ROX	EPN				16	36	59.5			0.3		1.48	118		4.1
	ESN						37	17		0.1					4.1
MJZ	IPN				16	37	11.0			0.5		2.30	70		3.9
	E						21								3.8
	ESN						37			0.1					
JAN 08	H	M	S									68/ 005			
	13	18	06.9		39.79S	174.14E				141	KM	SE	0.7	AVG MAG	4.1
			+ 0.7				0.02		0.03	6					
TNZ	EP				13	18	28			-0.2		0.62	18	W-A	3.2
	ES						45			0.5					
MNG	P				13	18	35.0			0.6		1.33	129		4.2
	E						37.5								4.2

	S		55	-0.3														
WEL	P	13 18	38	1.0	1.58	162	3.6	4.1	4.0									
	E		41															
	ES		59.5	-0.6														
COB	P	13 18	38.2	-0.0	1.69	219		4.9	4.4									
	ES		19 02	-0.2														
KRP	EP	13 18	43	-0.8	2.15	31												
GPZ	ES	13 19	50.5	-5.7*	4.07	195		4.4										

H	M	S																	
JAN 08	15	32	41.5	42.10S	174.22E	33 KM	SE	1.3	AVG MAG	68/ 056	4.4								
			0.5	0.04	0.05	R													
WEL	PN	15 32	56.8	-0.4	0.91	27		4.6	5.1	5.0									
	SN		33 11	2.2															
COB	PN	15 33	04	-1.3	1.50	312			4.4	4.5									
	ESN		23	-0.3															
MNG	IPN	15 33	08.0	-0.8	1.76	33				4.4									
	EP*		11	-1.9															
GPZ	EPN	15 33	12	0.2	1.97	215													
KAI	EPN	15 33	15	1.1	2.13	257		4.0											
CNZ	PN	15 33	27	0.2	3.07	20													
	EP*		34	-1.2															
MJZ	PN	15 33	30	-0.5	3.34	234			3.9										
	EP*		41	1.1															
KRP	EPN	15 33	44	0.5	4.29	14			4.2	4.1									
	E		48																
	EP*		58	1.9															
MSZ	EP	15 33	56	-0.7	5.26	239													

H	M	S																	
JAN 08	15	37	58.3	42.13S	174.23E	33 KM	SE	1.1	AVG MAG	68/ 057	4.7								
			0.3	0.02	0.03	R													
WEL	PN	15 38	13	-1.3	0.93	26		5.0											
	SN		27	0.9															
COB	IPN	15 38	21.1	-1.4	1.53	312													
MNG	IPN	15 38	24.8	-1.1	1.77	32													
GPZ	PN	15 38	28	-0.4	1.96	216		4.3											
	ESN		52	0.9															
KAI	PN	15 38	31	0.2	2.13	258		4.7											
	E		44																
	ESN		57	1.6															
CNZ	PN	15 38	44	0.0	3.09	19		5.0	5.0										
MJZ	PN	15 38	47	-0.2	3.33	235		4.5											
KRP	EPN	15 39	00	-0.7	4.31	14													
	EP*		13	-0.4															
MSZ	EPN	15 39	12	-1.5	5.26	239		4.3	4.5										
MNW	EPN	15 39	23	-0.6	6.01	230													
CIZ	ESN	15 40	54	1.2	6.98	108													
CRZ	EPN	15 39	49	1.6	7.78	350													
	ESN		41 13	1.3															

FELT AT SEDDON (84)

H	M	S																	
JAN 08	15	46	57.8	42.29S	174.19E	33 KM	SE	0.8	AVG MAG	68/ 058	4.8								
			1.2	0.08	0.03	R													
WEL	PN	15 47	16	-0.0	1.09	24		4.4	5.2	5.0									
	SN		30	0.4															
COB	PN	15 47	24	0.7	1.62	317			4.7	4.9									
	SN		42	-0.5															
MNG	PN	15 47	27	-0.6	1.93	31			4.7	4.5									

H	M	S																	
JAN 08	16	29	08.7	42.04S	174.16E	33 KM	SE	1.0	AVG MAG	68/ 059	4.2								
			0.5	0.03	0.04	R													

## LOCAL EARTHQUAKES

		H	M	S															
WEL	PN	16 29	23.5	-0.6	0.88	31		4.0	4.7	4.7									
	SN		37	1.6															
COB	PN	16 29	31.1	-0.5	1.44	311													
	ESN		49	0.1															
MNG	PN	16 29	34.5	-1.3	1.74	35				4.1	4.0								
GPZ	EPN	16 29	39	-0.3	1.99	214													
	ESN		30 03	0.6															
KAI	EPN	16 29	41	0.3	2.10	256		3.4											

H	M	S																	
JAN 09	03	27	17.7	42.09S	174.19E	33 KM	SE	1.3	AVG MAG	68/ 060	4.6								
			0.4	0.03	0.03	R													
WEL	IPN	03 27	32.0	-1.4	0.91	29		4.8											
	SN		46	1.0															
COB	IPN	03 27	39.8	-1.4	1.48	312													
MNG	IPN	03 27	43.4	-1.7	1.76	34													
GPZ	EPN	03 27	47	-0.9	1.97	215		4.3											
	ESN		23 12	1.2															
KAI	EPN	03 27	50	0.2	2.11	257		4.5											
TNZ	EPN	03 28	01.5	0.8	2.90	3													
MJZ	EPN	03 28	06	-0.5	3.32	234													
	E		13																
KRP	EPN	03 28	18.5	-1.1	4.28	14				4.9	4.8								
MNW	ESN	03 29	49	0.2	6.01	230													
CIZ	ESN	03 30	14	0.8	7.03	109													
CRZ	EPN	03 29	08	1.9	7.73	351													
	ESN		30 31	1.0															

FELT BOTH SIDES OF COOK STRAIT

H	M	S																	
JAN 09	03	36	52.8	42.03S	174.17E	33 KM	SE	1.1	AVG MAG	68/ 061	3.8								
			0.5	0.04	0.04	R													
WEL	PN	03 37	07.3	-0.6	0.86	31		3.6	4.5	4.2									
	SN		21	1.9		</													



		H	M	S																	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S										
MNG	IP	01	48	57.2		-0.2	1.39	232													
	E		49	05.5																	
TNZ	EP	01	49	09		2.4	2.05	286	4.0	3.7											
KRP	EP	01	49	07.5		-0.3	2.14	329													
	EP*			13.5		0.3															
WEL	EP?	01	49	08		-1.0	2.23	227		3.8											
	ES			34.5		-0.1															
GPZ	ES	01	50	40		-3.3*	5.06	218													
CIZ	ES	01	51	16		0.2	6.40	133													
FELT AT PATOKA (52) MM III																					
68/ 014																					
JAN 11		05	22	53.8		38.54S	175.17E	157 KM	SE	1.1	AVG MAG	4.0									
				1.5		0.05	0.13	14													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
KRP	IP	05	23	17.0				0	-0.1	0.68	25	4.0	3.0								
	ES			34.5					-0.5												
CNZ	IP	05	23	18.6				0	1.2	0.72	156	3.7	3.2								
MNG	IP	05	23	30.8				U	0.0	2.09	174	4.8	4.2								
	E			53																	
	ES			58.5					-0.8												
WEL	EP	05	23	39					-0.2	2.76	186	4.1	4.1	4.1							
	ES			24 15					1.1												
GPZ	ES	05	25	16					-1.5	5.50	199	4.5									
MJZ	ES	05	25	42					0.6	6.50	212										
68/ 015																					
JAN 11		18	15	38.3		37.30S	176.99E	195 KM	SE	1.5	AVG MAG	4.0									
				1.3		0.07	0.10	13													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
ECZ	EP	18	15	10					-0.1	1.30	108										
KRP	IP	18	15	11.1				0	0.9	1.31	241	3.8									
	ES			35					0.2												
GBZ	IP	18	15	11.3				U	-1.7	1.62	311	4.1									
CNZ	P	18	15	21.6					2.5	2.21	210	3.9									
MNG	EP	18	15	34					-0.6	3.52	199	4.0	3.8								
	E			42																	
	ES			17 16.5					-1.5												
WEL	EP	18	15	45					0.1	4.34	203	4.5	4.0								
	ES			17 36					-0.3												
COB	EP	18	15	54					0.4	5.02	220										
68/ 016																					
JAN 11		23	27	38.8		37.99S	176.11E	225 KM	SE	1.6	AVG MAG	4.3									
				1.4		0.08	0.11	12													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
KRP	IP	23	29	01.6				U	0.8	0.45	273										
	S			23					-1.0												
GBZ	EP	23	28	09					-0.6	1.80	344	3.3									
ECZ	EP	23	28	11					-0.0	1.95	83										
MNG	P	23	28	20.4					1.4	2.71	190										
WEL	ES	23	29	12					-0.3	3.49	197	4.7	4.6								
COB	E	23	29	47						4.08	219										
	ES			29 27					2.1												
GPZ	ES	23	30	13.5					-1.6	6.31	203	4.7									
MJZ	ES	23	30	39					-0.9	7.39	213										
68/ 017																					
JAN 13		10	26	33.5		38.24S	176.08E	169 KM	SE	0.8	AVG MAG	4.2									
				0.6		0.03	0.05	5													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
KRP	IP	10	26	57.7				0	0.4	0.53	306	3.8	3.6								
	S			27 15.0					-0.6												
TUA	EP	10	27	00					-0.3	1.01	124										
CNZ	P	10	27	02					1.4	1.04	203	4.3									
TNZ	P	10	27	09.3					3.2*	1.63	234	4.2									
GBZ	P	10	27	11.0					0.0	2.07	347	3.7									

## LOCAL EARTHQUAKES

		H	M	S																	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S										
MNG	IP	10	27	15.6		0.5	2.42	191				4.8	4.2								
	E			18.5																	
	ES			47					-0.0												
WEL	EP	10	27	24					-0.8	3.20	198	4.0	4.7	4.1							
	ES			29 04					-0.3												
COB	EP	10	27	32.5					-0.5	3.84	221			4.2	4.2						
	ES			29 19					0.3												
68/ 018																					
JAN 15		03	09	19.9		38.06S	176.02E	210 KM	SE	1.6	AVG MAG	4.0									
				1.7		0.08	0.12	14													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
KRP	P	03	09	48.2					0.3	0.41	290										
	ES			10 09.5					-0.1												
TUA	P	03	09	52					0.1	1.16	130			4.6	4.6						
CNZ	EP	03	09	53.5					1.3	1.19	198	3.5	3.4								
TNZ	P	03	09	59					2.4	1.71	228	3.9									
GBZ	P	03	09	57					-1.4	1.89	347	3.8									
MNG	P	03	10	05.8					-0.0	2.59	189										
	S			39.7					-1.6												
COB	ES	03	11	09					-1.0	3.95	219			4.2							
68/ 019																					
JAN 15		03	52	10.5		38.36S	177.73E	115 KM	SE	1.5	AVG MAG	4.4									
				3.3		0.12	0.21	28													
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S							
TUA	IP	03	52	30.0					0.9	0.64	225			4.9	3.1						
KRP	EP	03	52	40.5					-0.9	1.78	283										
CNZ	IP	03	52	42.2					-0.7	1.90	243	4.2	3.9								
TNZ	EP	03	52	55					0.8	2.74	251	4.2									
MNG	EP	03	52	54					-1.6	2.85	217										
	E			53 00																	
	ES			53 00																	
COB	EP	03	53	22					1.3	4.72	233	4.2	4.1								
	ES			54 15					0.3												
FELT MAUNGATANIWAHA (42)																					
68/ 020																					
JAN 15		11	03	39										MAG	3.1						
					H	M	S	DIR													

MNG	EP	20 23 42	-1.8	8.11	210
	E	25 08.5			
	ES	14			
WEL	ES	20 25 33	-0.7	8.97	211
CIZ	ES	20 25 07	0.2	10.42	170
GPZ	ES	20 26 40	0.9	11.84	210 5.3

JAN 21 H M S 21 21 31 29.9S 179.5W 349 KM MAG 5.8 68/ 023  
 H 4 S DIR RES DIST AZ W-A W P W S

GBZ	IP	21 23 24.0	D						
CRZ	IP	21 23 30.2	USW						
ONE	IP	21 23 32.2							
AUC	P	21 23 34							
KRP	EP	21 23 37							
TUA	EP	21 23 39							
MNG	EP	21 23 59							
	ES	25 00							
WEL	EP	21 24 10							
COB	EP	21 24 17							
	ES	25 32							
HJZ	EP	21 24 56							
	ES	27 41							
MNW	EP	21 25 25							
	ES	29 35							

ORIGIN AND MAGNITUDE FROM JSCGS  
 FELT MM III AT NGAKAROA

JAN 22 H M S 06 47 33.6 38.01S 176.39E 180 KM SE 1.2 AVG MAG 4.0 68/ 024  
 H 4 S DIR RES DIST AZ W-A W P W S

KRP	IP	06 47 59.6	0.2	0.68	277			3.6	3.3
	S	48 18.7	-0.5						
TUA	P	06 48 01.5	0.2	0.99	143				
CNZ	P	06 48 06.0	1.6	1.36	209			3.7	3.0
GBZ	P	06 48 09	D	-1.2	1.94	338		4.3	
TNZ	EP	06 48 13	2.4	1.97	233			3.7	
MNG	IP	06 48 19.2	U	0.0	2.70	195		4.7	4.0
	ES	53.5	-0.8						
WEL	P	06 48 28.7	-0.4	3.50	200			4.3	4.6 4.2
	ES	49 11	-0.8						
COB	P	06 48 37	-0.6	4.17	222			4.1	3.9
	ES	49 27	-0.1						

JAN 23 H M S 15 10 55.7 42.31S 174.12E 33 KM SE 0.7 AVG MAG 4.1 68/ 025  
 H 4 S DIR RES DIST AZ W-A W P W S

WEL	IPN	15 11 14.5	U	0.0	1.13	26		3.9	4.6 4.6
	ESN	29	0.5						
COB	PN	15 11 19.6	-1.3	1.60	319				
GPZ	EPN	15 11 22	-1.1	1.76	217			4.2	
	SN	44	0.3						
MNG	PN	15 11 26.2	0.1	1.98	32			4.4	4.0
	EP*	31	0.1						
KAI	EPN	15 11 26.5	-0.1	2.02	263			4.1	
	ESN	50.5	0.5						
HJZ	EPN	15 11 42	-0.2	3.15	237			3.6	3.5
	ESN	12 18.5	0.8						
KRP	EPN	15 12 01	0.2	4.51	14			4.2	3.9

JAN 24 H M S 03 36 05.4 37.25S 176.88E 278 KM SE 0.6 AVG MAG 4.3 68/ 026  
 H 4 S DIR RES DIST AZ W-A W P W S

		H 4 S	DIR	RFS	DIST	AZ	W-A	W P W S
KRP	P	03 36 45.3		0.0	1.26	237		3.8
TUA	EP	03 36 47.5		0.2	1.57	172		
GNZ	IP	03 36 47.8	U	-0.1	1.66	147		4.9 4.8
	ES	37 20.5		-0.3				
CNZ	P	03 36 53		0.6	2.21	208		4.2 3.3
MNG	P	03 37 05.4		-0.4	3.54	197		4.8 4.3
	ES	53		0.1				
WEL	ES	03 38 10		0.6	4.35	201		4.2
COB	ES	03 38 22.5		-0.7	5.01	219		4.3

JAN 24 H M S 05 15 30.9 43.60S 172.32E 33 KM SE 0.6 AVG MAG 5.1 68/ 027  
 H 4 S DIR RES DIST AZ W-A W P W S

GPZ	IP*	05 15 37.3		-0.6	0.25	112			
KAI	EPN	05 15 51		-0.5	1.27	328			
	ESN	16 06.5		-0.4					
HJZ	IPN	05 15 53.3	UW	0.0	1.40	253			
COB	EPN	05 15 08		-0.9	2.53	7			5.3
	E	10.5							
	E	16.5							
ROX	EPN	05 15 13		-0.2	2.85	228			5.3 5.8
	E	19							
	E	23							
WEL	EPN	05 15 15		0.5	2.94	39		5.0	5.2
	EP*	22.5		-0.0					
	E	29							
	E	39.5							
	ESN	47		-0.7					
MNG	EPN	05 15 24.5		-1.7*	3.80	39			5.1 4.9
	E	40.5							
	ESN	17 08.5		-0.1					
	E	29							
WPZ	EPN	05 15 29		1.1	3.92	218			5.1
	E	43.5							
	E	17 32							
	E	39							
MNW	PN	05 15 28.7		-0.2	4.00	235			5.1
	E	34.5							
TNZ	EPN	05 15 39		0.8	4.68	20			4.9 4.7
	ESN	17 31		1.1					
CNZ	EPN	05 16 43		0.1	5.02	30			5.0
	EP*	57.5		-0.6					
	E	59.5							
KRP	EPN	05 15 58.5		0.1	6.17	24			
	E	17 00							
	E	06							
	E	10.5							
	E	28.5							
	ESN	18 06.5		0.5					
	E	17.5							
GNZ	E	05 18 12			6.56	43			
	E	17							

FELT MOST PARTS OF CANTERBURY. MAXIMUM INTENSITY MM V

JAN 24 H M S 06 42 31.9 43.54S 172.35E 33 KM SE 0.7 AVG MAG 4.0 68/ 028  
 H 4 S DIR RES DIST AZ W-A W P W S

GPZ	IP*	06 42 38.9	N	-0.2	0.27	126			
KAI	EPN	06 42 52		0.0	1.23	326		3.7	
	ESN	43 06		-1.0					
HJZ	PN	06 42 54		-0.8	1.43	251			3.8 4.3
	E	56							
	ESN	43 13		0.9					
COB	PN	06 43 09.5		0.5	2.47	7			4.1 4.0



		H	M	S	43.56S 172.35E		33 KM	SE	0.8	AVG MAG 4.0			
		0.02			0.03			R					
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
	E			17									
	ESN			38					0.8				
WEL	ESN	06	43	47			2.88	39	4.1	4.2			
ROX	E	06	43	24			2.90	227		4.0	4.5		
	ES*			44			-0.1						
MNG	E	06	43	42.5			3.74	40		3.9	3.8		
	ESN			44			-0.1						
FELT ALLANDAILE (110) MM IV													
JAN 24	H M S	07	56	03.4	43.56S	172.35E	33 KM	SE	0.8	AVG MAG 4.0			
		+ 0.3			0.02			0.03	R				
	H M S	07	55	10.0	N		-0.5	0.26	123				
GPZ	IP*	07	55	24			0.4	1.24	326	3.5			
KAI	EPN			38			-0.8						
MJZ	PN	07	56	25			-1.2	1.43	252	3.8	3.9		
	E			27									
COB	EPN	07	56	41			0.3	2.49	7	4.0	4.2		
	E			50									
	E			57			0.9						
ROX	ESN	07	56	54.5			0.3	2.89	227	4.2	4.2		
	EP*			57									
	E			33			0.8						
WEL	ESN	07	57	19			-0.0	2.89	39	3.9	3.8		
FELT ALLANDAILE (110) MM IV													
JAN 25	H M S	13	26	24.2	40.27S	174.91E	68 KM	SE	0.3	AVG MAG 4.0			
		+ 0.2			0.01			0.02	R				
	H M S	13	26	38.0	DIR	RES	DIST	AZ	W-A	W P	W S		
MNG	IP	13	26	48			0.2	0.56	128	4.2	4.3		
	ES			48			-0.1						
WEL	P	13	26	43.3			0.1	1.02	186	4.0	4.2		
	S			57.5			-0.0						
TNZ	P	13	26	44.8			-0.3	1.16	339	4.1	4.1		
	ES			27			0.2						
KRP	P	13	27	02			0.0	2.40	12	3.7	3.3		
FELT ALLANDAILE (110) MM IV													
JAN 26	H M S	16	19	02.1	36.72S	179.52W	195 KM	SE	1.7	AVG MAG 4.8			
		+ 2.0			0.10			0.07	R				
	H M S	16	19	48	DIR	RES	DIST	AZ	W-A	W P	W S		
GNZ	P	16	19	48			-1.1	2.74	225		5.3		
	ES			20			-0.3						
KRP	EP	16	20	04			-1.9	4.12	252	4.4	4.5		
	E			07									
	ES			54			-1.2						
CNZ	EP	16	20	15			2.7	4.62	236		4.5		
	ES			21			2.4						
MNG	EP	16	20	25			1.2	5.52	224	4.4	4.7		
	ES			21			0.7						
WEL	S	16	21	46			-1.2	6.37	223	5.6			
COB	S	16	22	12			-0.5	7.45	232				
CIZ	E	16	20	56				7.57	164				
	ES			22			-0.3						
MJZ	S	16	23	24			-0.5	10.54	223				
FELT ALLANDAILE (110) MM IV													
JAN 28	H M S	08	47	34.1	38.11S	176.17E	214 KM	SE	1.4	AVG MAG 4.9			
		+ 1.0			0.04			0.05	R				
	H M S	08	49	04	DIR	RES	DIST	AZ	W-A	W P	W S		
WNP	EP	08	49	04			0.9	0.52	186				
KRP	IP	08	49	03.2	UW		0.1	0.53	290	4.3	4.1		
	IS			24.5			-1.0						
TUA	IP	08	49	06.0			0.3	1.04	132				
GNZ	IP	08	49	09.9	U		0.1	1.55	111	5.8	5.5		

## LOCAL EARTHQUAKES

		H	M	S	35.44S 179.30E		339 KM	SE	1.3	AVG MAG 4.6		
		+ 1.8 <th colspan="3">0.14 <th>0.24 <th>R <th colspan="3"></th> </th></th></th>			0.14 <th>0.24 <th>R <th colspan="3"></th> </th></th>			0.24 <th>R <th colspan="3"></th> </th>	R <th colspan="3"></th>			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ES			36								
TNZ	IP	08	48	14.2					2.4	1.77	232	4.5
GBZ	IP	08	48	12.0					-1.8	1.97	344	4.4
MNG	IP	08	48	21.7					1.7	2.56	192	5.1 5.1
	E			48								
	ES			56						0.5		
ONE	EP	08	48	22					-0.1	2.75	328	
WEL	P	08	48	30					0.9	3.35	198	5.0 5.0 4.9
	ES			49						0.3		
COB	EP	08	48	37					0.2	3.98	221	
	ES			49						0.6		
GPZ	ES	08	50	13					-2.2	6.18	204	5.2
MJZ	ES	08	50	39					-1.6	7.28	214	
FELT ALLANDAILE (110) MM IV												
JAN 28	H M S	12	32	03.1	35.44S	179.30E	339 KM	SE	1.3	AVG MAG 4.6		
		+ 1.8			0.14			0.24	R			
	H M S	12	33	05	DIR	RES	DIST	AZ	W-A	W P	W S	
GNZ	P	12	33	05			-0.5	3.36	197		4.8 4.8	
	E			49								
	ES			55						0.6		
KRP	P	12	33	10			-1.0	3.91	230		4.7	
TNZ	EP	12	33	29			1.5	5.42	225		4.2	
MNG	EP	12	33	34			0.0	5.98	209		4.6 4.3	
	ES			34			-1.4					
WEL	P	12	33	44			-0.0	6.84	210			
	ES			35			0.7					
FELT ALLANDAILE (110) MM IV												
JAN 29	H M S	11	09	22.6	43.41S	170.98E	12 KM	SE	1.4	AVG MAG 3.7		
		+ 0.5			0.05			0.06	R			
	H M S	11	09	35.5	DIR	RES	DIST	AZ	W-A	W P	W S	
MJZ	IP*	11	09	35.5			-0.0	0.69	212		3.5 3.7	
	ES*			43			-2.0					
KAI	EP*	11	09	39			-0.7	0.94	20			
GPZ	EPN	11	09	47			1.4	1.25	104			
MSZ	EPN	11	10	04			0.9	2.54	239			
	E			11.5								
	ES*			42			1.3					
COB	EPN	11	10	04			-0.7	2.66	30		3.8 3.8	
	ES*			44			-0.2					
MNG	E	11	10	34				4.36	52		3.6	
FELT WAITAHA (98) MM IV												
JAN 29	H M S	15	43	24.4	34.28S	179.55W	230 KM	SE	2.0	AVG MAG 5.6		
		+ 2.2			0.15			0.13	R			
	H M S	15	44	33.7	DIR	RES	DIST	AZ	W-A	W P	W S	
GBZ	P	15	44	33.7			-0.3	4.50	243		5.2	
GNZ	EP	15	44	35			-2.3	4.77	203		5.8	
ONE	P	15	44	44			1.1	5.21	252			
AUC	P	15	44	47			3.2	5.29	239			
KRP	P	15	44	46			0.9	5.38	226		5.3	
CNZ	EP	15	44	56			-0.5	6.29	217			
CRZ	P	15	44	58			-0.3	6.43	267			
	ES			46			-0.5					
MNG	EP	15	48	09			-2.4	7.45	211			
WEL	ES	15	45	56			1.2	8.31	211		6.0	
COB	P	15	45	31			-2.0	9.13	220			
CIZ	EP	15	45	45			1.8	9.93	167			
FELT ALLANDAILE (110) MM IV												
JAN 30	H M S	05	38	54.4	38.99S	175.77E	12 KM	SE	0.9	AVG MAG 5.4		
		+ 0.3			0.03			0.03	R			
	H M S	05	38	58.8	DIR	RES	DIST	AZ	W-A	W P	W S	
CNZ	IP*	05	38	58.8	D		-1.4	0.28	219			
WNZ	EP*	05	39	02			-1.0	0.44	36			

KRP	IP*	05 39 13.3	-0.6	1.07	350				
TUA	IP*	05 39 13.7	-0.4	1.09	81				
TNZ	P*	05 39 14.7	0.3	1.10	259			5.3	
MNG	IPN	05 39 23.0	0.4	1.65	188				
GNZ	EPN	05 39 25.5	1.0	1.79	80			5.6	
	I	29.3							
WEL	EPN	05 39 33	-0.1	2.42	198	5.0	5.5	5.5	
	E	36							
	E	40 10							
GBZ	EPN	05 39 39	1.0	2.77	355				
	E	45							
COB	EPN	05 39 43.5	0.7	3.14	227				

FELT NEAR LAKE TAUPO MAXIMUM INTENSITY MM VI AT TURANGI (40)

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S	
JAN 30	05 42 17.4	38.99S	175.74E	12 KM	SE	1.7		AVG MAG	68/ 037	3.5							
	+ - 1.2	0.05	0.13														
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S							
GNZ	EP*	05 42 21			-2.0	0.27	215										
KRP	EP*	05 42 36.5			-0.2	1.07	351		3.4	3.3							
TNZ	EP*	05 42 38			1.1	1.08	259		3.5								
MNG	EPN	05 42 46			0.4	1.65	187		3.9	3.5							
	ESN	43 07			0.6												

FELT TURANGI AND TOKAANU (40) MM IV

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S		
JAN 30	07 14 38.2	38.69S	176.66E	12 KM	SE	1.1		AVG MAG	68/ 038	3.9								
	+ - 0.5	0.05	0.03															
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S								
TUA	EP*	07 14 45			-1.1	0.40	107											
WAZ	E	07 14 57			0.5	0.44	278											
GNZ	IP*	07 14 57			0.5	1.01	239		4.0	3.7								
	ES*	15 10			-0.1													
GNZ	EP*	07 14 58.5			1.0	1.06	88		4.1	4.0								
	E	15 17																
KRP	EP*	07 14 59			-0.3	1.17	311		3.5									

FELT NGAPUKETURUA (42)

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S				
FEB 01	13 30 21.9	49.25S	163.75E	33 KM	SE	2.1		AVG MAG	68/ 039	4.9										
	+ - 2.1	0.19	0.18																	
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S										
WPZ	E	13 31 30			4.29	55		4.9	4.9											
	ESN	32 09			-2.6															
MNW	PN	13 31 26			1.3	4.35	38													
ROX	EPN	13 31 36			-2.2	5.34	47		4.6	4.9										
	SN	32 37			-0.0															
MSZ	PN	13 31 40.3			1.4	5.40	33													
MJZ	EPN	13 31 57			-3.6	7.00	44													
	E	32 15																		
	E	33 05																		
GPZ	EPN	13 32 17			-0.6	8.27	51	5.2												
	ESN	33 49			1.8															
KAI	SN	13 33 55			0.4	8.58	41	5.1												
COB	EPN	13 32 45.5			0.6	10.33	41													
	ESN	34 37			1.1															
WEL						11.11	48													
CIZ	EPN	13 33 41			2.4	14.51	76													

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S					
FEB 02	19 01 01.0	38.44S	176.26E	12 KM	SE	1.3		AVG MAG	68/ 040	4.3											
	+ - 0.4	0.03	0.03																		
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S											
WAZ	PG	19 01 06.2			2.1	0.23	213														
	I	14.0																			
KRP	IPG	19 01 16.0			-0.7	0.77	312		4.5	4.2											
	SG	28.5			1.4																

## LOCAL EARTHQUAKES

TUA	PG	19 01 16.2	-0.9	0.79	118			4.6	
GNZ	PG	19 01 20.5	0.3	0.94	216			4.0	
GNZ	E	19 01 27.5		1.40	99			5.0	4.6
	IPG	30.3							
ECZ	EPG	19 01 41	1.0	1.95	68			4.7	
AUC	PG	19 01 39	-1.8	1.97	323				
MNG	EP*	19 01 41.0	0.2	2.26	195			4.2	3.6
	EPG	45.8	-1.0						
	E	02 21							
WEL	EPG	19 02 02	-1.1	3.07	202			4.1	
COB	E	19 02 02		3.79	225			3.8	

FELT NEAR EPICENTRE MAX MM IV AT KAINGAROA FOREST (42)

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S							
FEB 02	19 27 23.7	37.47S	177.18E	33 KM	SE	1.3		AVG MAG	68/ 041	4.0													
	+ - 0.6	0.06	0.04																				
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S													
ECZ	EP*	19 27 45			0.8	1.11	102		4.5														
GNZ	EP*	19 27 47.5			-0.8	1.35	151		4.7														
	I	51.0																					
KRP	PN	19 27 43.8			-2.1	1.38	250		4.1														
	IP*	49			0.2																		
	ESN	23 04			1.4																		
AUC	P*	19 27 59			-0.5	2.01	287																
	I	28 02																					
	E	43																					
GNZ	EP*	19 28 01			-1.0	2.16	216		3.6														
	I	07																					
ONE	EPN	19 28 06			0.2	2.83	306																
MNG	EPN	19 28 14			0.2	3.41	202		3.4														
	E	29																					
COB	EPN	19 28 37			1.6	5.00	222		3.8														

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S							
FEB 03	01 27 39.1	38.35S	176.36E	12 KM	SE	0.8		AVG MAG	68/ 042	3.9													
	+ - 0.4	0.02	0.02																				
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S													
WAZ	PG	01 27 46.0			-0.3	0.34	216																
	ESG	52.0			0.9																		
	E	28 02																					
TUA	PG	01 27 54.5			-0.3	0.77	126		4.4														
KRP	PG	01 27 54.2			-0.7	0.77	303		3.9	3.4													
	SG	28 06			0.6																		
GNZ	EPG	01 27 59.9			-0.6	1.05	217		3.6														
GNZ	EPG	01 28 07.0			0.8	1.34	103		4.5														
	I	08.6																					
MNG	EP*	01 28 20			-0.5	2.36	196		3.6														

FELT HAIOTAPU (33)

H M S		R		DIR		RES		DIST		AZ		W-A		M P		W S							
FEB 03	01 54 43.9	38.31S	176.38E	12 KM	SE	1.3		AVG MAG	68/ 043	4.4													
	+ - 0.5	0.03	0.03																				
		H M S		DIR	RES	DIST	AZ	W-A	M P	W S													
WAZ	PG	01 54 51.5			-0.5	0.38	214																
	ISG	56.9			-0.5																		
KRP	IPG	01 54 59.4			-0.2	0.77	300		4.5	4.1													
	SG	55 11			1.0																		
TUA	PG	01 54 59.7			-0.2</																		



EPG 55 04 0.3  
 FELT NEAR EPICENTRE MAX MM IV AT KAINGAROA FOREST

H M S		40.30S 174.28E		109 KM		SE 1.3		AVG MAG 68/048	
FEB 03 20 00 09.0		0.07 0.05		R		DIST AZ		W-A W P W S	
KRP	PG	20 00	24.5	0.4	0.74	306		3.0	
	ESG		34	-0.3					
TUA	PG	20 00	25.2	-0.1	0.80	124		3.8	
GNZ	EPG	20 00	37	0.0	1.38	102		3.5	

FELT ROTOMAHANA(33) AND WAITOTAPU(33)

H M S		40.30S 174.28E		109 KM		SE 1.3		AVG MAG 68/048	
FEB 04 03 35 24.0		0.03 0.04		7		DIST AZ		W-A W P W S	
HNG	P	03 35	46.2	1.2	0.97	109			
	ES		01	-0.0					
WEL	P	03 35	47.5	1.6	1.05	160		5.0	
	S		02	-0.6					
TNZ	P	03 35	48.0	1.2	1.12	4		5.1	5.3
	S		02.5	-1.5					
COB	IP	03 35	51.8	1.5	1.41	236			
	S		09	-1.1					
GNZ	P	03 35	52.0	1.0	1.47	42		4.9	
	E		04						
	E		07						
KRP	P	03 35	05.5	0.3	2.57	23		4.9	5.0
	S		37	0.9					
TUA	EP	03 35	06.0	-0.6	2.67	57		4.8	
	E		10.5						
	E		36						
KAI	E	03 35	17		3.10	223		4.8	
	S		49	0.3					
GNZ	P	03 35	14.0	-1.5	3.34	61		4.8	4.9
	E		48						
	IS		53	-1.5					
GPZ	EP	03 35	19.5	0.4	3.60	199		5.3	
	ES		56	-5.0*					
MJZ	EP	03 35	34	0.7	4.65	216		4.3	
	E		41						
	ES		37 24	-2.5					

FELT WANGANUI (57) MM IV AND WAITOTARA (56) MM III

H M S		40.73S 174.52E		33 KM		SE 0.4		AVG MAG 68/046	
FEB 04 22 08 25.4		0.01 0.01		R		DIST AZ		W-A W P W S	
WEL	P*	22 08	37.0	-0.2	0.57	161		3.2	3.6 4.1
	S*		46.0	0.4					
HNG	P*	22 08	40.0	-0.0	0.75	80		3.0	3.7
	S*		50.5	-0.0					
COB	EP*	22 08	50.5	-0.2	1.39	255		3.3	3.6
	S*		09 09.5	0.0					
TNZ	ES*	22 09	15	0.6	1.56	356			3.3
GNZ	EP*	22 08	56	-0.5	1.74	27		3.5	3.3
	IS*		09 02	-17.7*					
	E		12						

H M S		41.08S 175.63E		12 KM		SE 1.2		AVG MAG 68/047	
FEB 04 22 11 14.1		0.04 0.06		R		DIST AZ		W-A W P W S	
HNG	IP*	22 11	24.1	0.8	0.48	346			
	S*		29	-1.1					
WEL	P*	22 11	27.2	0.3	0.68	292		3.3	4.1 3.9

H M S		36.7		12 KM		SE 0.6		AVG MAG 68/048	
FEB 06 22 11 48.0		0.07 0.08		R		DIST AZ		W-A W P W S	
GNZ	P*	22 11	48.0	0.6	1.88	358		4.0	3.9
	I		51.7						
	S*		12 11	-1.3					
TNZ	EP*	22 11	52	0.5	2.12	333		3.9	3.8
	ES*		12 21	1.5					
COB	EP*	22 11	50.5	-2.2	2.19	269		3.9	4.1
	E		12 17						
	ES*		22	0.4					
KRP	EP*	22 12	10	0.8	3.15	359		3.5	3.9
	ES*		50	-0.5					
	I		57.8						

FELT TE KOPI (70) MM IV

H M S		40.95S 175.37E		33 KM		SE 1.4		AVG MAG 68/048	
FEB 06 04 29 15.6		0.02 0.03		R		DIST AZ		W-A W P W S	
HNG	P*	04 29	23.1	-0.6	0.33	349			
WEL	IP*	04 29	29.2	-0.1	0.69	240		4.9	5.1
	S*		39.5	0.3					
GNZ	PN	04 29	45.3	2.5	1.74	359			
TNZ	P*	04 29	50.0	-0.9	1.98	332		5.0	5.3
	S*		30 16	-1.1					
COB	PN	04 29	50.0	1.6	2.15	265			
GNZ	EPN	04 30	00.0	0.2	2.98	40		4.3	
	E		24						
KRP	PN	04 30	02.5	2.2	3.02	360		4.9	
	IP*		09.0	0.4					
	S*		46	-2.2					
	E		54						
KAI	E	04 30	25		3.49	242		4.5	
	ESN		47	1.1					
	ES*		57	-5.4*					
GPZ	EP*	04 30	16	-0.8	3.50	217		4.4	
	ESN		46	-0.1					
HJZ	PN	04 30	26.8	1.6	4.85	229		3.9	
	EP*		38.5	-1.3					
	SN		31 18	-0.7					
	ES*		42	-1.1					
CIZ	PN	04 30	49	0.8	6.55	120			
	SN		31 58	-1.6					
CRZ	I	04 31	05.8		6.89	340			

FELT WELLINGTON PROVINCE MAX MM IV AT YORK BAY (68)

H M S		36.88S 177.47E		12 KM		SE 1.9		AVG MAG 68/049	
FEB 06 19 03 08.6		0.07 0.08		R		DIST AZ		W-A W P W S	
GBZ	PN	19 03	38.0	0.1	1.73	292		3.6	4.0
	SN		04 00	0.5					
GNZ	PN	19 03	36.3	-2.6	1.81	166		4.4	
	E		44						
	E		04 10						
KRP	PN	19 03	36.5	-3.0	1.86	235		3.4	4.0
	E		46						
	S*		04 05	-1.0					
	E		10						
TUA	E	19 03	42		1.94	187		4.3	
AUC	E	19 03	58		2.16	270			
	E		04 25						
ONE	EPN	19 03	52	0.3	2.74	293		3.7	
	ES*		04 32	-0.6					
GNZ	EPN	19 03	53	0.9	2.77	213			
TNZ	EPN	19 04	03.3	3.4	3.35	226		4.6	
	E		22.5						
	E		33.5						

		H	M	S	38.80S 177.73E		33 KM	SE	1.7	AVG MAG 4.1		
		0.05' 0.04'			DIR	RES	DIST	AZ	W-A	W P	W S	
MNG	EPN	19 04	10.0						4.04	202	3.5	
	EP*		20.0									
COB	EPN	19 04	30						5.59	220	4.0	
FEB 11	H H S	06 15	04.2									
		+- 0.7										
GNZ	P*	06 15	10.0									
TUA	P*	06 15	14.6									
KRP	PN	06 15	34.0									
			40.8									
MNG	PN	06 15	41.9						2.51	223	4.2	
			16 03									
			13									
TNZ	PN	06 15	45						1.3	264	261	3.9
			56									
WEL	EPN	06 15	52.5						-1.1	3.37	222	4.3 4.0 4.3
			15 33						1.6			
COB	PN	06 15	07.5						-1.2	4.47	238	4.2 4.0
			17 00						1.8			
GPZ	ESN	06 17	37						-3.2	6.21	216	4.6
CIZ	PN	06 15	41						2.2	6.70	142	
			17 52						0.2			
MJZ	ESN	06 18	11						-0.6	7.53	224	
FELT GISBORNE (45) MM IV												
FEB 11	H H S	13 27	45.3									
		+- 0.8										
		0.05' 0.05'			DIR	RES	DIST	AZ	W-A	W P	W S	
COB	P	13 28	14.5						2.3	1.01	218	
TNZ	S	13 28	16.0						1.4	1.27	30	5.0 5.4
			34.5						-2.6			
WEL	P	13 28	17.8						2.4	1.36	138	4.7 4.9 5.2
			39						0.5			
MNG	P	13 28	19.1						2.3	1.51	103	
			36.5									
CNZ	P	13 28	21.0						0.3	1.88	55	
KAI	P	13 28	33						1.8	2.76	215	5.0
			29 06						-0.4			
KRP	P	13 28	31.5						-0.5	2.82	34	4.2 4.9
			29 00						-7.8*			
TUA	P	13 28	35.8						-0.2	3.15	63	5.4 5.6
			29 12.8						-2.2			
GPZ	P	13 28	40.8						0.7	3.47	191	6.1
			29 19						-3.3			
GNZ	P	13 28	43.5						-1.2	3.83	66	
			29 22									
			28									
MJZ	P	13 28	52.5						1.1	4.35	211	4.6
			29 00									
			41						-1.4			
MNW	P	13 29	26.3						-0.0	7.00	216	
			30 43						-1.9			
CIZ	EP	13 29	44						1.7	8.21	120	
			31 13						-0.7			
FELT WANGANUI (57) MM IV MOTUEKA (76) MM II												
FEB 11	H H S	18 43	00.6									
		+- 1.2										
		0.07' 0.07'			DIR	RES	DIST	AZ	W-A	W P	W S	
GBZ	P	18 44	10.0						-0.0	4.53	241	5.1
GNZ	P	18 44	11.0						-3.6	4.89	202	5.4
			45 12									
ONE	EP	18 44	20.0						1.3	5.21	250	4.2

## LOCAL EARTHQUAKES

		H	M	S	18 44 23		2.9	5.33	238			
		0.05' 0.05'			DIR	RES	DIST	AZ	W-A	W P	W S	
AUC	EP	18 44	23									
			35 5									
TUA	P	18 44	19 0						-1.4	5.35	208	5.5 5.1
			20 8									
			45 16 3									
			23 0						0.5			
KRP	P	18 44	22 5						0.7	5.46	225	4.7
CNZ	EP	18 44	32 5						-1.2	6.38	216	
			42									
			45 10									
CRZ	P	18 44	34 0						0.3	6.39	265	
TNZ	EP	18 44	42						0.6	6.98	222	
			51									
			46 33									
MNG	EP	18 44	46 5						-2.4	7.56	210	
			45 04									
			45 15						1.4			
WEL	EP	18 44	59						-1.0	8.42	210	5.9
			45 33						-0.4			
COB	EP	18 45	06						-4.4*	9.22	219	
			45 53						1.0			
CIZ	EP	18 45	23						1.4	10.09	167	
			47 06									
			14						1.9			
KAI	ES	18 47	32						0.1	10.95	217	5.5
GPZ	ES	18 47	38						-1.8	11.29	210	5.8
MJZ	EP	18 45	52						-0.0	12.49	215	
			48 07						-0.3			
USCGS ORIGIN 18 42 55 5 33.9S 179.4W 33KM												
FEB 11	H H S	23 15	03.0									
		+- 0.9										
		0.05' 0.05'			DIR <td>RES <td>DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td></td></td>	RES <td>DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td></td>	DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td>	AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td>	W-A <td>W P <td>W S <td></td> </td></td>	W P <td>W S <td></td> </td>	W S <td></td>	
KRP	IP	23 15	34 1						0.7	1.07	292	4.9 4.0
			56 0						-0.9			
ECZ	P	23 15	35 3						-0.8	1.41	138	5.3 5.1
GNZ	ES	23 15	59						-2.7			
GBZ	P	23 15	37 9						-1.4	1.75	322	4.5
CNZ	P	23 15	43 0						2.3	1.89	212	4.0 4.3
			15 14						4.3*			
TNZ	E	23 15	50 5							2.49	230	4.1
ONE	EP	23 15	50						0.4	2.69	312	
MNG	P	23 15	56 5						1.0	3.19	199	4.5 4.9
			16 35 5						-0.5			
WEL	P	23 16	06 2						0.6	4.01	203	5.2 4.4 4.9
			53 5						-0.4			
COB	EP	23 16	14 8						0.4	4.71	221	4.2 4.7
			17 10 0						0.2			
KAI	ES	23 17	48						-1.7	6.44	218	4.9
GPZ	EP	23 15	42						-0.3	6.87	206	5.3
			17 57						-2.8			
CIZ	ES	23 13	30						1.7	8.09	144	
FEB 13	H H S	16 33	53.2									
		+- 0.7										
		0.04' 0.04'			DIR <td>RES <td>DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td></td></td>	RES <td>DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td></td>	DIST <td>AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td></td>	AZ <td>W-A <td>W P <td>W S <td></td> </td></td></td>	W-A <td>W P <td>W S <td></td> </td></td>	W P <td>W S <td></td> </td>	W S <td></td>	
COB	P*	16 33	57 8						-1.3	0.28	195	
WEL	P*	16 34	21 0						0.4	1.54	108	3.8 4.0 4.4
			40 5						-0.7			
TNZ	E	16 34	35							2.01	37	
			35 04									
			08									
KAI	E	16 34	33							2.02	211	3.5
			55 5						0.1			









MNG		ESN	25 49	2.7	6.81	58				
E		E	21 25 23							
E			47							
H	M	S			68/ 057					
FEB 17	21 30	45.4	44.53S	167.84E	12 KM	SE	2.3	AVG MAG	4.3	
		-1.5	0.05	0.11	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	P*		21 30	48.0	-1.1	0.15	158			
MNW	P*		21 31	06.8	-1.2	1.26	187	4.5	4.7	
	I			09.0						
	S*			28	3.1					
ROX	P*		21 31	10.2	-0.5	1.41	132	4.2	4.4	
	E			11.3						
	S*			31	1.4					
WPZ	EP*		21 31	25	0.1	2.24	162		3.9	
	ES*			52	-2.5					
KAI	EP*		21 31	46	3.3	3.28	54			
	E			32 46						
COB	EPN		21 31	57	-1.7	4.98	48	4.1		
	ESN			32 54	-0.8					
H	M	S			68/ 058					
FEB 18	15 05	21.8	38.97S	175.76E	12 KM	SE	0.6	AVG MAG	3.7	
		+0.2	0.01	0.01	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG		15 05	28.3	0.3	0.29	216			
KRP	PG		15 05	43.0	-0.3	1.06	350	3.7		
	SG			57.5	-0.1					
TUA	PG		15 05	44	-0.1	1.10	82	3.8	3.8	
	SG			59	0.1					
MNG	P*		15 05	52.3	1.0	1.66	187	4.0		
	E			06 12						
GNZ	EPG		15 05	58	-0.2	1.80	80	3.6		
	E			06 17						
WEL	E		15 05	04		2.44	198	3.3	3.5	
	ESG			43	-1.0					
COB	E		15 05	15		3.14	227		3.5	
	ESG			07 08	0.2					
FELT TURANGI (40) MM IV										
H	M	S			68/ 059					
FEB 19	07 49	26.0	38.25S	175.93E	215 KM	SE	1.6	AVG MAG	5.0	
		+0.8	0.04	0.05	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P		07 49	55.0	0.3	0.40	160			
KRP	P		07 49	54.9	0.0	0.45	316			
	S			50 14.5	-2.6					
CNZ	P		07 49	59.6	2.1	0.99	197			
TUA	P		07 49	58.1	-0.1	1.11	120			
	E			50 14.5						
TNZ	P		07 50	04.2	2.6	1.53	232	4.9	4.5	
	E			34						
AUC	P		07 50	03	0.2	1.66	326			
GNZ	P		07 50	02.1	-0.9	1.69	104	5.5		
GBZ	P		07 50	05.8	-0.8	2.06	350	5.0		
MNG	IP		07 50	11.8	1.8	2.39	188			
	E			39						
ONE	EP		07 50	15.5	1.1	2.77	333	3.5	4.2	
	S			50.7	-1.1					
WEL	IP		07 50	19.8	1.0	3.16	196	5.6	5.6	5.7
	S			59.6	-0.1					
COB	EP		07 50	26	0.0	3.76	220	5.0		
	ES			51 14	1.6					
KAI	E		07 50	52		5.49	218	5.7		
	S			51 50	-1.2					
HJZ	P		07 51	09	1.1	7.06	214			

	S	52 25.5	-1.9							
CIZ	E	07 51 24		8.03	138					
	S	52 49	-1.0							
ROX	ES	07 53 04	-2.3	8.74	212					
FELT MAUNGATANIWA(42)										
H	M	S			68/ 070					
FEB 19	10 53	43.2	41.11S	175.21E	33 KM	SE	1.3	AVG MAG	3.7	
		+0.8	0.04	0.05	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*		10 53	51.8	-0.0	0.38	243	3.5		
	S*			57.5	-0.6					
MNG	IP*		10 53	53.0	-1.3	0.53	23		4.2	3.8
	S*			54 00.5	-1.7					
COB	EPN		10 54	13.5	1.4	1.87	270		3.7	3.9
	EP*			16.0	-0.6					
	S*			41	-0.5					
CNZ	EPN		10 54	15.5	2.6	1.93	8		3.5	3.7
	EP*			17.0	-0.5					
	ES*			45	1.8					
TNZ	EP*		10 54	20	0.8	2.03	341			3.7
	ES*			46	-0.1					
KRP	EP*		10 54	39.0	-0.1	3.19	5		3.5	
	E			55 16						
	ES*			20	-1.1					
FELT LOWER HUTT (68) MM IV										
H	M	S			68/ 071					
FEB 20	00 38	27.1	42.72S	172.69E	33 KM	SE	1.3	AVG MAG	4.2	
		+0.5	0.04	0.03	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	EP*		00 38	45.8	0.4	0.96	281	3.8		
	S*			59.2	0.6					
COB	PN		00 38	54.0	1.3	1.63	1		4.4	4.5
	IP*			55.0	-1.4					
	S*			39 16	-2.2					
HJZ	PN		00 38	58.0	-0.6	2.06	231		4.1	4.1
	IP*			39 04	0.4					
	E			22						
WEL	EPN		00 38	59	-0.3	2.11	48	3.6	4.6	4.4
	EP*			39 03.8	-0.8					
	ESN			23	-0.7					
MNG	EPN		00 39	09.5	-1.6	2.97	46		4.5	4.2
	IP*			19.5	0.3					
	ISN			49	4.5*					
TNZ	EPN		00 39	23.0	1.2	3.76	21		4.3	
	EP*			34	1.3					
	E			40 16.5						
MSZ	EPN		00 39	23.5	-1.3	3.97	239		3.6	
CNZ	EPN		00 39	28	1.0	4.13	33		4.4	4.3
	EP*			38	-1.1					
	I			42						
	SN			40 16	3.1					
KRP	EPN		00 39	43.0	0.7	5.26	25		4.2	4.1
	E			49.5						
	SN			43 40	-0.2					
FELT CULVERDEN (95) MM IV, HANMER SPRINGS (95), ALLANDALE (110) MM III.										
H	M	S			68/ 072					
FEB 20	16 11	23.8	40.50S	176.82E	33 KM	SE	0.8	AVG MAG	3.6	
		+0.4	0.02	0.03	R					
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PN		16 11	40.8	-0.3	1.02	263		3.8	3.7
	SN			54	0.0					
CNZ	PN		16 11	49.5	0.1	1.63	323		3.9	3.7
	SN			12 11.8	3.2*					







		I	07.0							
		E	48 32							
CNZ		EPN	04 47 19	1.3	7.91	49				
		E	30							
FELT HAAST (103) MM IV, MILFORD SOUND (120)										
FEB 24		H M S	08 23 12.8	44.53S	167.82E	12 KM	SE	1.7	AVG MAG	68/ 035 5.0
			+ - 1.1	0.04	0.06	R				
		H M S	08 23 15.2	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ		P*	08 23 15.2		-0.6	0.11	141			
MNH		P*	08 23 35.0		0.5	1.21	187		4.9	
		E	54							
ROX		P*	08 23 37.5		-0.2	1.39	130		4.9	5.2
		S*	57							
MJZ		P*	08 23 45.0		-3.0	1.99	74		4.9	
		S*	24 12							
WPZ		EP*	08 23 50.5		-1.1	2.20	161			
		S*	24 21							
KAI		EPN	08 24 04.0		0.3	3.32	53		5.0	
		IP*	13.0							
		S*	54							
GPZ		EPN	08 24 08		0.7	3.59	77		5.0	
		E	23							
		E	52							
WEL		ES*	08 24 05		2.7					
		EPN	08 24 41		0.3	6.07	60			
		E	23 49							
MNG		E?	08 24 48			6.90	58			
		I	55.0							
		E	25 10							
GNZ		E	08 25 09			7.88	50			
		E	17							
FEB 24		H M S	11 26 58.4	38.58S	177.54E	123 KM	SE	1.7	AVG MAG	68/ 036 4.5
			+ - 1.0	0.05	0.05	11				
		H M S	11 27 14.4	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ		P	11 27 14.4		-1.6	0.30	102			
TUA		P	11 27 15.2		-1.4	0.45	240			
		E	26.0							
GNZ		P	11 27 31.0	U	1.7	1.75	249		4.6	
		ES	52							
KRP		P	11 27 30		0.2	1.78	291		3.7	
		E	36							
		E	50							
TNZ		P	11 27 40.5		-0.2	2.62	256		4.2	
MNG		P	11 27 42.8		1.9	2.63	219		4.4	4.3
		S	28 16							
GBZ		P	11 27 44.5		-0.2	2.92	323		4.0	
WEL		P	11 27 53.0		0.8	3.49	218		4.7	4.5 4.6
		S	28 34.0							
KAI		E	11 28 33			6.17	228		5.0	
		ES	29 36							
GPZ		EP	11 28 31		-2.0	6.35	215		5.1	
		ES	29 40							
CIZ		E	11 28 44.0		-2.4	6.92	143			
		S	29 56							
FEB 24		H M S	19 01 27.7	40.85S	174.57E	33 KM	SE	1.8	AVG MAG	68/ 037 4.1
			+ - 0.5	0.04	0.04	R				
		H M S	19 01 39.1	DIR	RES	DIST	AZ	W-A	W P	W S
WEL		IP*	19 01 39.1		1.4	0.46	161		4.2	
		S*	46.7							
MNG		IP*	19 01 42.0	D	-0.0	0.73	72			
		ES*	52							

## LOCAL EARTHQUAKES

		I	07.0							
		E	48 32							
TNZ		PN	19 01 56.0	2.2	1.66	355			4.3	
		E	57.2							
		P*	02 20							
CNZ		EP*	19 01 57.6		-2.4	1.81	25		4.4	4.6
		EPN	02 06.0							
KAI		EPN	19 02 12		1.2	2.90	234		4.0	
		SN	46							
KRP		PN	19 02 13.0		2.4	3.01	15		4.1	
		EP*	20.9							
		E	26.0							
		E	58							
		E	03 09.5							
GPZ		EPN	19 02 13.0		-1.7	3.19	206		4.2	
		SN	48							
MJZ		EPN	19 02 31		-2.5	4.37	223		3.8	3.6
		EP*	42							
		SN	03 18							
		E	-1.3							
FELT WAIKAWA BEACH (65) MM III										
FEB 25		H M S	23 43 05.5	36.41S	177.60E	242 KM	SE	1.9	AVG MAG	68/ 038 4.6
			+ - 1.2	0.05	0.08	11				
		H M S	23 43 45.0	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ		P	23 43 45.0		-0.2	1.72	276		4.1	
KRP		P	23 43 52.0	D	2.1	2.23	227		4.4	
		S	44 27							
GNZ		P	23 43 48.8	U	-1.2	2.25	172		5.6	
		(S)	44 23							
TUA		P	23 43 51.5		-0.2	2.42	188		4.9	4.9
		S	44 26							
ONE		EP	23 43 56		1.3	2.70	283			
CNZ		EP	23 44 02.0		1.6	3.22	210		4.0	
TNZ		EP	23 44 09.5		2.8	3.76	222		4.0	
CRZ		EP	23 44 12		-3.2	4.48	295		4.2	
MNG		P	23 44 15.0		-0.7	4.51	201		4.8	4.3
		ES	45 09							
WEL		EP	23 44 24.8		-1.1	5.34	204		5.1	4.5 4.5
		S	45 28							
COB		EP	23 44 34		-0.3	6.02	218		5.1	
		ES	45 43							
CIZ		E	23 45 17		-0.7	8.75	151			
		ES	46 48							
		E	2.0							
FEB 26		H M S	05 57 18.4	44.67S	167.41E	12 KM	SE	1.2	AVG MAG	68/ 039 5.0
			+ - 1.3	0.04	0.10	R				
		H M S	05 57 25.4	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ		P*	05 57 25.4		-0.2	0.36	90			
MNH		P*	05 57 38.0	D	-0.7	1.12	173			
ROX		P*	05 57 45.7		-0.7	1.58	122			
WPZ		PN	05 57 53.2		-1.2	2.23	154		5.2	5.0
		ESN	58 22							
MJZ		PN	05 57 56.8		1.5	2.30	74		5.1	
		EP*	59.5							
		E	58 24							
KAI		EPN	05 58 17.8			3.61	55		4.9	
GPZ		EP*	05 58 26.0		-0.0	3.89	77			
		E	34							
		E	59 17							
COB		EPN	05 58 36.0		0.1	5.30	49		5.0	4.9
		E	39							
MNG		SN	05 59 33		-2.4					
		EPN	05 59 02.5		1.2	7.19	59			
		E	06.3							
		I	12.6							
		E	06 00 29							



CNZ		E	05 59 20		8.16	51						
E			06 01 06									
FELT MILFORD SOUND(120)												
USCGS ORIGIN							44.5S	167.5E	33KM			
FEB 26	H M S									AVG MAG	68/ 094	
	15 31 52.1		44.48S	167.77E	12 KM	SE	1.7			4.3		
		+ - 1.3	0.05	0.07	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MSZ	P*		15 31 56.3		-0.6	0.22	152					
MNW	P*		15 32 16.0		0.4	1.31	185		4.4	4.7		
	I		17.1									
	ES*		36		2.9							
ROX	EP*		15 32 18		-0.6	1.49	133		4.4	4.4		
	S*		38		-0.4							
MJZ	EP*		15 32 26.5		-0.8	2.00	77		4.3			
	I		30.0									
	S*		56		2.3							
WPZ	EP*		15 32 31		-1.7	2.31	161		4.1	4.4		
	S*		33 02		-1.2							
						3.29	55	4.2				
KA1	EPN		15 33 05.0		-0.3	4.98	49			4.1		
COB	E		06.7									
	E		34 04									
FEB 26	H M S									AVG MAG	68/ 094	
	16 34 53.9		44.54S	167.67E	12 KM	SE	0.9			4.3		
		+ - 0.7	0.02	0.04	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MSZ	P*		16 34 59.0		0.2	0.22	126					
MNW	EP*		16 35 17.0		0.8	1.24	182		4.2	4.3		
	I		19.0									
	S*		39		6.1*							
ROX	P*		16 35 21		0.3	1.50	129		4.2	4.5		
	S*		41		0.3							
MJZ	EP*		16 35 29.4		-1.3	2.08	76		4.3	4.6		
	I		33.2									
	S*		58		-0.3							
WPZ	EP*		16 35 33		-1.0	2.28	159		4.1	4.1		
	ES*		36 04		-0.0							
						3.38	55	4.3				
KA1	EPN		16 36 08		-0.5	5.08	49					
COB	E		11									
	ESN		37 07		1.4							
MNG	E		16 36 39			6.97	58					
FEB 28	H M S									AVG MAG	68/ 094	
	00 13 55.6		44.93S	167.61E	94 KM	SE	1.1			4.8		
		+ - 1.0	0.06	0.06	12							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MNW	P		00 14 14.7		0.6	0.84	180					
	S		27		-1.1							
ROX	P		00 14 21.2		1.3	1.32	114		4.7			
	S		39		0.9							
WPZ	P		00 14 27.0		-0.4	1.92	154		5.2	3.1		
	S		50.5		-0.4							
KA1	EP		00 14 51		-0.4	3.66	50	4.6				
	S		15 34		0.3							
GPZ	EP		00 14 54		0.4	3.82	73	4.3				
	S		15 36		-1.6							
FEB 28	H M S									AVG MAG	68/ 094	
	02 29 12.2		45.06S	167.55E	96 KM	SE	2.5			4.6		
		+ - 2.7	0.18	0.15	27							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MNW	P		02 29 29.9	U	0.2	0.72	176		4.6			
	S		41.8		-1.2							

## LOCAL EARTHQUAKES

ROX		P	02 29 38.0		1.3	1.32	109		4.7	4.6		
S			57.5		2.6							
WPZ		P	02 29 42.8		-0.3	1.84	151		4.8	5.0		
S			30 04.7		-1.1							
GPZ		EP	02 30 13		1.7	3.90	71	4.1				
ES			53		-3.2							
FEB 28	H M S									AVG MAG	68/ 094	
	03 30 20.7		45.11S	167.32E	58 KM	SE	0.3			4.2		
		+ - 0.4	0.02	0.02	4							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MNW	P		03 30 35.7		0.2	0.71	163		4.8			
	S		46.3		-0.1							
ROX	P		03 30 45.5		-0.0	1.46	105		3.9	4.0		
	S		31 04		0.0							
WPZ	EP		03 30 51		-0.3	1.89	146		4.2	4.3		
	ES		31 14		0.1							
						4.07	72	3.9				
FEB 29	H M S									AVG MAG	68/ 094	
	00 18 47.6		45.24S	166.81E	33 KM	SE	1.0			4.1		
		+ - 1.2	0.04	0.06	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MNW	P*		00 19 03.8		1.0	0.79	134		4.2	4.3		
	S*		14.5		0.7							
MSZ	P*		00 19 06.5		0.5	0.97	55					
ROX	P*		00 19 19.2		-0.3	1.79	99		4.2	3.9		
	S*		43		-0.3							
WPZ	P*		00 19 22		-1.4	2.01	136		3.9	3.9		
	S*		50		-0.1							
MAR 02	H M S									AVG MAG	68/ 094	
	18 35 47.9		37.62S	177.67E	123 KM	SE	1.6			4.0		
		+ - 0.9	0.03	0.05	8							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
ECZ	P		18 35 07.3	U	-0.6	0.70	96		4.9			
GNZ	P		18 35 12.0	D	0.9	1.06	165		4.2	4.4		
	E		15									
	S		27.5		-1.2							
	E		30									
TUA	P		18 35 14.5		1.3	1.25	199		4.3	4.5		
	S		34		1.5							
	E		36									
KRP	P		18 36 16.7	DE	0.2	1.71	259					
	E		21									
	S		39.5		-2.1							
GBZ	IP		18 36 23.8	U	-1.3	2.24	308		4.0	3.1		
	E		37 00									
CNZ	P		18 36 28.4	D	2.7	2.29	226		4.1	3.5		
	E		37 08									
AUC	P		18 36 27.5		-0.1	2.43	287					
TNZ	P		18 36 38.5		3.1	3.02	238		3.8	3.2		
	E		37 17									
MNG	P		18 36 40.9		-0.1	3.44	209		3.9	3.8		
	E		50									
	S		37 21		-0.5							
	E		30									
	E		39									
WEL	P		18 36 51.7		-0.8	4.29	211	4.0	4.1	4.0		
	ES		37 40.5		-1.5							
	E		43.5									
	E		38 02									
COB	P		18 37 03		-1.1	5.15	226		3.8	3.8		
	E		21									
	S		39 04.5		1.6							
GPZ	S		18 38 50		-1.7	7.17	211	4.4				
CIZ	E		18 37 42			7.69	147					

		H	M	S	39 04		-0.4								
		18	39	16	18 39 16		-5.1*		8.38	218					
				E	19										
		H	M	S	44.48S		167.58E		12	KM	SE	2.7			
MAR 03		00	08	17.4	0.05		0.08		R	AVG	MAG	68/097			
				1.4						4.7					
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
MSZ	IPG	00	08	24.6		0.6	0.31	129							
MNW	PG	00	08	43.8		-0.0	1.30	179		4.8					
	SG	09	04			2.6									
ROX	IP*	00	08	41.7	D	-3.9	1.59	130		4.8	5.0				
	S*	09	08			1.3									
MJZ	P*	00	08	55.2	UN	0.3	2.13	78		4.7	4.7				
	PG	09	59			-1.5									
	S*	09	22			-1.1									
	SG	09	26			-3.3									
WPZ	P*	00	08	59.5		0.7	2.36	158		4.6	4.6				
	PG	09	02			-3.1									
	S*	09	29			-0.9									
KAI	EP*	00	09	16		-0.7	3.40	56		4.7					
	EPG	09	24			-2.2									
	SG	10	08			-4.0									
GPZ	E(PN)	00	09	15		1.2	3.73	80		4.5					
	EP*	09	24			1.7									
	PG	09	32			-0.9									
	ESN	09	59			2.4									
	ES*	10	15			3.8									
COB	PN	00	09	34		2.0	5.09	50		4.4	4.5				
	E	09	38												
	ESN	10	27.5			-1.7									
	E	09	33												
	ESG	11	14			5.2									
WEL	ESN	00	10	58.5		3.3	6.17	61		4.5					
	EL	12	00												
MNG	E	00	10	04			6.99	59							
	ESN	11	15.5			0.7									
	E	09	33												
CNZ	E	00	10	18			7.95	51							
	E	12	01												
KRP	EPN	00	10	25.5		3.0	8.87	45							
	E	12	35												
	P*	12	45			-5.4									
	E	12	11												
CRZ	E	00	10	54			10.78	23							
MAR 03		H	M	S	36.30S		179.02E		33	KM	SE	1.9	AVG	MAG	68/098
		02	11	03.4	0.04		0.05		R	AVG	MAG	4.3			
				0.9											
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
ECZ	PN	02	11	27.2		0.9	1.44	195							
GNZ	PN	02	11	40.8		0.4	2.47	199		4.8	4.6				
	P*	12	48.5			1.6									
	ESN	12	11			2.4									
	ES*	12	23			3.5									
GBZ	PN	02	11	44.5		-1.4	2.86	271		4.1	3.8				
	IP*	12	57			3.3									
	SN	12	17			-1.3									
TUA	PN	02	11	47.5		1.0	2.91	210		5.2	4.7				
	IP*	12	55.8			1.4									
	E	12	26.5												
	S*	12	32			-0.7									
KRP	PN	02	11	50.8		-0.0	3.22	239							
	P*	12	58.5			-1.3									
	E	12	03.5												
	SN	12	28			1.0									
ONE	EPN	02	12	00		1.1	3.81	277		3.5					

## LOCAL EARTHQUAKES

		H	M	S	44.61S		168.33E		105	KM	SE	1.6	AVG	MAG	68/099
		07	16	24.8	0.03		0.06		R	AVG	MAG	3.9			
				1.0											
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
MSZ	P	07	16	39		-1.3	0.30	259							
ROX	IS	07	16	49		1.8	1.11	141			3.8	4.0			
	IP	07	16	49.6	U	0.4	1.27	203			4.0	4.4			
	I	17	05												
	IS	07	16	06		-1.5									
MJZ	IP	07	16	55.6	OS	1.8	1.65	69			3.6	4.0			
	E	17	09												
	IS	17	16			0.6									
WPZ	P	07	17	00.5		1.4	2.08	170				3.8			
	S	17	24			-0.7									
KAI	ES	07	17	50		1.6	3.06	48							
GPZ	E	07	17	49		3.23	75	3.9							
	S	17	53			0.3									
	E	18	04												
COB	EP	07	17	37.5		1.5	4.78	44			3.8	4.1			
	I	17	38.5												
	S	18	29.8			-0.8									
WEL	ES	07	18	53		-1.9	5.77	57				3.6			
MNG	E	07	18	08		6.61	55								
	E	18	21												
	S	19	13			-2.4									
MAR 03		H	M	S	44.56S		167.93E		12	KM	SE	1.4	AVG	MAG	68/100
		07	21	00.0	0.03		0.04		R	AVG	MAG	3.6			
				0.8											
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
MSZ	PG	07	21	02.6		-0.6	0.11	183							
MNW	P*	07	21	21.9		-0.4	1.24	190			3.7	3.9			



ROX	SG P*	07 21 41.5	-0.5	1.35	133	3.6	3.9			
	E	25 44	0.8							
	SG	45.5	-0.2							
MJZ	P*	07 21 34	0.2	1.91	74	3.4	3.7			
	EPG	36	-2.7							
	S*	22 00	0.9							
	SG	03	-1.5							
WPZ	ES*	07 22 09	1.2	2.20	163		3.4			
GPZ	E(P*)	07 22 02.5	1.4	3.51	77	3.4				
	PG	10	-0.9							
	E	22								
	SN	36	2.3							
	ESG	57	-1.1							
COB	E(PN)	07 22 12	-0.9	4.95	47	3.5	3.3			
	SN	23 10.5	1.9							
	E	17								
	ES*	37	6.6*							
MNG	E	07 22 45		6.82	57					
	E	24 06								
MAR 03 09 15 10.3 44.51S 167.80E 12 KM SE 1.4 AVG MAG 68/101										
+ - 0.8 0.03 0.05 R										
	H 4 S DIR RES DIST AZ W-A W P W S									
MSZ	IPG	09 15 13.9	-0.6	0.18	151					
MNW	P*	09 15 33.5	0.3	1.27	186	3.8	3.8			
	PG	36	-0.1							
	ES*	51	0.8							
	SG	53	-0.4							
ROX	P*	09 15 36.7	0.6	1.45	132	3.6	3.5			
	S*	57	1.5							
MJZ	P*	09 15 45	-0.4	1.99	76	3.3	3.4			
	PG	48	-2.6							
	S*	16 10.5	-1.2							
	SG	13	-4.4*							
WPZ	S*	09 16 19	-1.2	2.27	161					
GPZ	E	09 16 42		3.59	79	3.5				
	SN	48	2.0							
	ESG	17 11	-0.2							
COB	EPN	09 16 23	-0.7	4.99	48	3.5	3.3			
	SN	17 22.5	2.6							
	ESG	58	-0.5							
MNG	E	09 16 58		6.88	58					
MAR 03 10 35 27.0 38.72S 176.10E 12 KM SE 1.8 AVG MAG 68/102										
+ - 0.9 0.05 0.09 R										
	H 4 S DIR RES DIST AZ W-A W P W S									
WNZ	PG	10 35 29.2	-0.6	0.09	1					
	SG	31.2	-0.5							
CNZ	ESG	10 35 47	-2.1	0.65	222		2.3			
KRP	PG	10 35 45.5	-0.0	0.91	331					
TNZ	EPG	10 35 57.5	1.7	1.42	250					
MNG	EPG	10 36 08	1.4	1.96	194		2.9			
FELT WAIRAKEI										
MAR 03 10 35 34.0 37.88S 177.69E 120 KM SE 3.0 AVG MAG 68/103										
+ - 1.4 0.07 0.07 R										
	H 4 S DIR RES DIST AZ W-A W P W S									
ECZ	P	10 35 54.0	0.3	0.70	75					
GNZ	IP	10 35 54.4	0	0.80	161	4.3	4.4			
	S	35 09	-1.1							
	E	13								
TUA	E	10 35 58.5		1.02	205	3.8	4.3			
	I	38 03								

KRP	S	10 36 11	-2.6							
	IP	10 36 03.9	-0.4	1.70	268					
	IS	24.5	-2.7							
CNZ	P	10 36 11.8	2.1	2.13	231	3.5	3.3			
	E	17								
	S	41	4.4							
GBZ	IP	10 36 13.1	0	2.43	313	4.0	3.2			
	S	41.5	-1.9							
TNZ	P	10 36 23.5	3.4	2.90	242	3.5				
MNG	EP	10 36 26	1.8	3.22	211	3.5	3.7			
	E	53								
	ES	37 07	4.6							
	E	16								
WEL	S	10 37 23	0.1	4.08	213	4.1	3.8			
	E	44								
COB	P	10 36 48.5	0.5	4.99	229	3.5	3.9			
	S	37 46	0.9							
	E	54								
	E	38 00								
KAI	ES	10 38 26	-0.1	6.68	224	4.3				
GPZ	ES	10 38 28	-4.7	6.95	212					
CIZ	P	10 37 25.5	4.0	7.46	146					
	S	39 42	-3.1							
	E	47								
MJZ	P	10 37 32	0.7	8.19	220					
	S	38 57	-5.7							
	E	39 07								
MAR 03 11 09 31.9 38.04S 176.21E 205 KM SE 1.4 AVG MAG 68/104										
+ - 1.2 0.05 0.05 R										
	H 4 S DIR RES DIST AZ W-A W P W S									
KRP	P	11 09 58.8	-1.1	0.54	282					
	S	10 20	-1.4							
TUA	P	11 10 02.8	0.1	1.06	136	4.2	4.3			
	I	04.8								
	E	26								
	S	27.5	0.8							
CNZ	E	11 10 09		1.27	204	3.1	3.0			
	ES	29	-0.4							
	E	38								
GNZ	P	11 10 06.1	-0.6	1.55	113	4.1	4.6			
	S	33	-0.6							
TNZ	P	11 10 12	2.6	1.83	231					
MNG	IP	11 10 18.9	0.8	2.63	192	4.1	4.1			
	S	55.5	1.7							
WEL	P	11 10 27	-0.4	3.42	198	3.9	3.6	3.9		
	S	11 10	-0.3							
COB	P	11 10 36	0.9	4.06	220		3.8			
	S	11 26	1.9							
KAI	ES	11 12 03	-0.5	5.79	218					
GPZ	S	11 12 13	-1.5	6.26	204	4.2				
MJZ	S	11 12 38	-2.0	7.35	214					
MAR 03 16 39 19.8 35.17S 179.84E 33 KM SE 2.6 AVG MAG 68/105										
+ - 1.6 0.07 0.08 R										
	H 4 S DIR RES DIST AZ W-A W P W S									
ECZ	EP*	16 40 09	1.2	2.73	202					
	ES*	39	-4.7							
GBZ	PN	16 40 13.0	-0.8	3.70	252		3.7			
	E	22								
GNZ	PN	16 40 13	-1.6	3.76	202	4.3	4.3			
	EP*	26	0.5							
	ESN	41 01	4.4							
	E	32								
TUA	PN	16 40 21	0.1	4.22	210	4.3	4.5			

	SN	41 12	4.2						
	E	14.5							
KRP	PN	16 40 24	0.3	4.42	230				
	E	42							
	SN	41 17	4.4						
	E	34							
ONE	PN	16 40 24	-0.9	4.51	261	3.7			
	ESN	41 17	2.2						
CNZ	E	16 40 44		5.28	219		4.0	3.9	
	S*	42 01	0.6						
TNZ	E	16 40 50		5.92	226		4.2		
CRZ	PN	16 40 43	-1.1	5.94	275		4.1		
MNG	PN	16 40 48.5	-2.4	6.44	211				
	E	41 04							
	SN	42 01	-0.2						
	E	23							
	S*	33	-2.1						
WEL	SN	16 42 20	-1.6	7.29	212	4.7			
COB	E	16 41 14.5		8.14	221				
	EP*	41	0.7						
	SN	42 41	-0.8						
	E	56							
CIZ	EPN	16 41 27	-0.8	9.20	164				
	E	49							
	E	43 03							
	E	05							
	SN	10	2.8						
GPZ	SN	16 43 24	-6.0*	10.17	211	4.8			
	E	39							
MJZ	E	16 42 08		11.39	217				
	SN	43 54	-4.6						
	E	44 11							
MAR 03	H M S	22 56 16.8	34.09S	179.33W	33 KM	SE 2.2	AVG MAG	68/ 106	5.5
		+ 1.3	0.06	0.08	R				
	H M S	22 57 17	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	22 57 17	U	2.4	3.99	205		5.7	5.5
	E	20							
	E	58 08							
	ES*	20	1.6						
GBZ	PN	22 57 25.4	0	0.3	4.75	242		4.8	
GNZ	EPN	22 57 27.5	-1.2	5.02	204			5.6	5.3
	E	30							
	SN	59 24	-0.0						
	E	34							
	E	59 13							
ONE	PN	22 57 35.0	0.6	5.45	250				
TUA	PN?	22 57 35.5	0.4	5.49	210			5.4	5.4
	I	36.5							
	SN	59 39	3.5						
	E	44							
AUC	E(PN)	22 57 38	2.3	5.54	238				
	E	42							
KRP	PN	22 57 38	U	0.8	5.65	226			
	E	46							
	E	58 47							
	E	55							
CNZ	PN	22 57 49	-0.4	6.55	217				
	E	59							
	S*	59 34	-1.4						
CRZ	PN	22 57 49.2	-1.2	6.62	265				
	SN	59 04	1.4						
TNZ	(PN)	22 58 00	2.3	7.17	223				
	E	06							
WEL	PN?	22 58 17	0.6	8.57	211	5.8			
	E	38							

	SN	59 51	1.9						
	S*	23 00 38	2.0						
	EL	01 00							
COB	PN?	22 58 22.5	-4.9	9.40	220				
	E	25							
	EP*	46	-12.9*						
	SN	23 00 10	1.1						
	ES*	56	-5.0						
CIZ	E	22 59 41		10.08	169				
	SN	23 00 25	0.0						
KA1	(PN)	22 58 52	-2.3	11.44	211	5.4			
GPZ	SN	23 00 55	-1.8						
	E	58							
MJZ	EPN	22 59 06	-2.0	12.66	216				
	E	15							
	SN	23 01 24	-1.1						
ROX	E	22 59 35		14.31	214				
	EL	23 04 00							
MSZ	E	22 59 39		14.43	219				
MNW	E	22 59 52		15.35	217				
MAR 03	H M S	22 59 31.6	34.06S	179.34W	33 KM	SE 0.9	AVG MAG	68/ 107	4.6
		+ 1.0	0.04	0.05	R				
	H M S	23 00 35	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	E	23 00 35			4.01	205		4.9	5.0
	E	01 40							
GBZ	PN	23 00 39.5	-0.5	4.76	242			3.9	
GNZ	E	23 00 46		5.04	204			4.5	4.2
	ESN	01 39	-0.5						
	E	47							
ONE	PN	23 00 50	0.6	5.45	250				
KRP	PN	23 00 53	0.7	5.67	226				
	E	01 10							
CNZ	E	23 01 09		6.57	217				
	E	26							
CRZ	PN	23 01 04	-1.2	6.62	265				
	E	02 14							
	SN	18	0.6						
WEL	SN	23 01 05	0.5	8.59	211	4.9			
COB	PN	23 01 36	-6.5*	9.42	220				
	E	52							
	E	02 51							
	SN	03 25	0.8						
CIZ	ESN	23 03 41	0.5	10.11	169				
	E	45							
GPZ	E	23 03 40		11.46	211				
	ESN	04 11	-1.2						
	E	18							
MJZ	SN	23 04 40	-0.4	12.68	216				
MAR 04	H M S	20 35 38.5	38.35S	176.19E	222 KM	SE 1.5	AVG MAG	68/ 108	4.4
		+ 0.8	0.05	0.05	7				
	H M S	20 36 06.9	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	20 36 06.9	UW	-2.0	0.67	310			
	E	26							
TUA	P	20 36 10.9	0	0.9	0.88	121		5.0	5.0
	I	12.9							
	E	26.5							
	S	32.5	-2.0						
CNZ	IP	20 36 11.9	0	1.3	0.98	210		4.3	3.8
	S	36	0.5						
	E	40							
GNZ	P	20 36 15.8	1.7	1.47	102			4.5	5.1
	E	20.5							



Station	E	S	M	H	M	S	Dir	Res	Dist	Az	W-A	W P	W S
			31										
			34										
			40.5										
TNZ			17.3										
			28										
			46										
			00										
ECZ			20 35 20										
			50										
GBZ			20 35 18.6										
MNG			20 35 50										
			57										
WEL			20 35 32										
			37 11.5										
COB			20 35 39.5										
			37 26.5										
GPZ			20 37 06										
			38 13										
MJZ			20 37 22.5										
			38 39										
CIZ			20 39 09										
MAR 04 21 57 57.0 37.75S 176.69E 12 KM SE 1.9 AVG MAG 68/ 109 4.2													
H M S 0.03 0.03 R													
KRP IPG 21 58 15.0 DE -0.8 0.93 260													
I 18													
TUA SG 21 58 30 -1.6													
P* 21 58 16 -0.9 1.10 161 4.8 4.6													
PG 17 -2.4													
S* 32.5 0.8													
SG 35 0.7													
GNZ P* 21 58 21.5 0.1 1.37 130 5.3 4.8													
SG 47.5 4.3													
ECZ PG 21 58 24 U -2.8 1.47 88 5.0													
E 31													
CNZ PG 21 58 32 0.8 1.69 212 3.8													
AUC IPG 21 58 33 U 0.2 1.77 300													
GBZ PN 21 58 26.4 -1.1 1.82 328 4.4 4.2													
IP* 29.4 0.2													
IPG 32.5 -1.4													
E 48.5													
ES* 57 3.6													
TNZ E 21 58 39 2.30 231 3.6 3.3													
PG 42 -1.6													
E 47													
E 59 34													
MNG EPN 21 58 45 1.5 3.00 198 4.3													
P* 50 0.6													
PG 55 -2.6													
WEL EPG 21 59 15 0.8 3.82 202 3.8 4.1													
ESG 22 00 13 7.4*													
COB PN 21 59 02 -2.0 4.52 221 3.7 3.5													
E 07.5													
E 22 00 42													
GPZ ESN 22 00 47 0.3 6.67 206													
MAR 04 22 00 48.8 37.75S 176.70E 12 KM SE 2.0 AVG MAG 68/ 110 4.0													
H M S 0.04 0.04 R													
KRP PG 22 01 06.5 DIR -1.3 0.93 260													
I 10													
TUA SG 22 01 22 1.5													
PG 22 01 08.8 -2.4 1.10 161 4.5 4.4													
S* 24.3 0.8													

## LOCAL EARTHQUAKES

Station	E	S	M	H	M	S	Dir	Res	Dist	Az	W-A	W P	W S
			26										
GNZ			22 01 13.5										
			38										
ECZ			22 01 16.5										
			23										
CNZ			22 01 26										
AUC			22 01 24										
GBZ			22 01 21.2										
			24.4										
			48.3										
TNZ			22 01 34										
MNG			22 01 40										
			42										
			47										
COB			22 02 02.5										
MAR 05 05 00 02.4 40.19S 176.16E 12 KM SE 1.3 AVG MAG 68/ 111 3.5													
H M S 0.02 0.07 R													
MNG IPG 05 00 15.6 D -0.7 0.68 230													
SG 25 -0.6													
CNZ PG 05 00 23.5 U -1.0 1.09 334 3.8 3.6													
SG 37.5 -1.8													
WEL P* 05 00 31 1.3 1.53 223 2.8 3.7 3.4													
PG 34 0.6													
S* 49 -1.1													
SG 54 -0.1													
TNZ P* 05 00 33.5 1.0 1.70 305 3.2 3.6													
PG 38.5 1.7													
E 47													
SG 01 00.5 0.8													
FELT TATARAMOA(63) MM IV													
MAR 05 08 43 09.9 40.37S 174.17E 122 KM SE 1.6 AVG MAG 68/ 112 3.8													
H M S 0.04 0.06 R 13													
WEL P 08 43 34.7 U 2.1 1.02 154 3.7 3.9 4.5													
S 50 0.1													
MNG IP 08 43 34.5 U 1.8 1.03 104 3.8 4.2													
E 39													
E 45													
S 49													
TNZ P 08 43 35.7 D 1.2 1.19 8 3.7 3.8													
S 51.5 -1.7													
E 53.5													
CNZ E 08 43 43 1.58 43 3.1 3.5													
S 44 02 1.2													
KRP E(P) 08 43 54.5 1.7 2.66 24													
S 44 24 -1.3													
KAI ES 08 44 34 0.9 2.99 223													
GNZ ES 08 44 42 -1.5 3.44 61 3.6													
GPZ E 08 44 41 3.51 198 3.8													
S 43													
MJZ S 08 45 09 -1.1 4.54 216													
MAR 05 15 48 48.8 36.62S 177.85E 214 KM SE 1.5 AVG MAG 68/ 113 4.7													
H M S 0.04 0.05 R 7													
ECZ EP 15 49 22 0.4 1.21 193													
E 38													
E 41													
ES 45 -2.1													
GBZ IP 15 49 26.4 U -1.8 1.95 281 4.8													
GNZ IP 15 49 28.9 D -0.1 2.03 176 4.8 5.0													





STATION	TYPE	TIME	DEPTH	MAG	AZ	W-A	W P	W S
TUA	P	23 34 30	5	0.0	1.05	100	5.1	3.0
	E	43						
	E	48						
TNZ	P	23 34 33	6	-2.1	1.5	1.26	243	3.9 3.6
	E	36	3	1.1				
	E	58	5	0.2	1.71	91	4.4	4.7
	E	58		-0.4				
AUC	S	23 34 37	5	-0.9	1.95	334		
MNG	IP	23 34 41	0	2.1	2.00	188	5.0	4.7
	IS	35	5	0.2				
ECZ	P	23 34 43		0.7	2.33	67	4.4	
	E	52		-1.5	2.42	353	4.0	
GHZ	P	23 34 41	8	-1.5	2.42	353	4.0	
WEL	P	23 34 49	0	1.6	2.78	197	4.6	4.9 4.6
	S	35	5	0.4				
COB	P	23 34 55		0.0	3.42	223	4.0	4.4
	E	56		-0.0				
	E	33	38	-0.0				
	E	39		-1.4	5.15	219	4.3	
KAI	S	23 35 15		0.6	5.60	204	4.7	
GPZ	IP	23 35 23		-1.9				
	S	36	5	1.3	6.70	215		
HJZ	P	23 35 37	9	-1.9				
	S	36	5	12.8*	7.81	135		
	S	37						
	E	37						
MAR 09								
	H	11 15 45.5	41.07S	178.52E	33 KM	SE 1.4	AVG MAG 6.0 / 110	
		+ 0.5	0.03	0.03	R		4.0	
MNG								
	PN	11 15 20	5	-0.4	2.35	280	3.7	3.8
	E	33		-0.9				
	E	45		-1.3	2.45	351	3.8	4.2
GHZ	PN	11 15 21						
	E	42		-1.8				
	E	45	5					
	E	48	5	-1.8				
	E	51		-0.5	2.49	335	4.3	4.5
TUA	PN	11 15 22	4	1.7				
	E	46		1.3	2.84	264	3.8	3.9 4.2
WEL	E(PN)	11 15 29		-1.4				
	E	44		1.3	2.95	308	3.6	3.7
	S	58	5	1.1				
GNZ	PN	11 15 30	5	1.1				
	E	58		1.7	3.69	299		3.3
	S	17	03	2.5				
	E	06	5	-1.1	3.90	323		
	E	23		-1.6				
KRP	BSN	11 15 41		0.8				
	EPN	17	24	-0.2	4.38	268		
	E	51						
	E	51		0.8				
COB	PN	11 15 48	5	1.8	4.64	130	4.3	4.8
	E	51		-0.5				
	S	17	38					
CIZ	EPN	11 15 54						
	SN	17	43					
	SN	17	43					

## LOCAL EARTHQUAKES

STATION	TYPE	TIME	DEPTH	MAG	AZ	W-A	W P	W S
GPZ	SN	11 17 53		-1.3	5.08	237		
KAI	SN	11 18 03		-1.7	5.51	252		
	E	10						
HJZ	SN	11 18 32		0.6	6.63	241		
	E	50						
MAR 10								
	H	07 11 22.5	36.75S	179.41E	70 KM	SE 2.2	AVG MAG 6.0 / 120	
		+ 1.2	0.05	0.06	R		6.0	
ECZ								
	IP	07 11 49.5	0	5.8*	1.17	216		
	IP	07 12 01.8	0	4.4	2.19	210		
GNZ	IP	07 12 08.5	0	3.4	2.72	220		
TUA	IP	07 12 11.3	U	-0.5	3.21	278		5.6
GBZ	IP	07 12 15.0	0	2.0				
	S	51		2.0				
KRP	IP	07 12 15.0	USH	2.0	3.30	248		
	S	58		6.8*				
AUC	IP	07 12 20.5	U	1.7	3.72	267		
GNZ	IP	07 12 23.2	U	1.7	3.91	230		
	E	13	16	-0.6	4.19	282	5.5	
ONE	P	07 12 24.9	W	0.9				
	E	38		0.9				
	S	13	14.5	0.9				
TNZ	P	07 12 34.4	0	2.4	4.66	237		6.0
	E	48		-0.8	4.93	217		5.6
MNG	P	07 12 35.0	0	4.9				
	E	59.5		4.9				
	S	13	37					
	E	20	07					
	E	26	52					
WEL	P	07 12 46.4		-1.2	5.79	217	6.4	5.7 6.0
	E	13	10	2.0				
	S	55.5		2.0				
	EL	15	00					
	ESCS	26	46					
CRZ	P	07 12 47		-2.8	5.95	291		
	S	13	55	-2.4				
COB	PI	07 12 59.5		-1.8	6.77	228		
	E	13	16.5	1.4				
	S	14	19	0.7	7.82	158		
CIZ	P	07 13 16.5		-0.7				
	E	25						
	E	44						
	S	14	43					
	ET	20	50					
KAI	E	07 13 25		8.44	224	6.3		
	E	43						
	S	14	57.5	-1.5				
GPZ	P	07 13 26		-1.1	8.65	215	6.6	
	E	48		-2.5				
	S	15	01.5	-1.8	9.93	221		
HJZ	P	07 13 42.8		-2.9				
	S	15	32.5	-0.6	11.56	218		
ROX	P	07 14 06		-0.7				
	S	16	14					
	E	48						
	EL	17	30					
MNW	P	07 14 19		-1.9	12.64	221		
	E	33		-2.5				
HPZ	S	07 14 22		12.65	215			
	E	36						
	ES	15	39	-1.7				
	E	47.5						
FELT MAUNGATANIWA(42)								
RESTRICTED DEPTH IS ROUGHLY DETERMINED FROM OVERSEAS PKP READINGS								

MAR 11	H M S			40.18S	173.68E	187 KM	SE	1.1	AVG MAG	68/121		
	03	35	31.5							0.04	0.04	5
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
TNZ	P	03 36	01.7		0.6	1.13	29		4.0	4.0		
	E		17									
	S		23.5		-0.5							
	E		33									
COB	IP	03 36	02.1	U	0.8	1.16	218		4.6	4.6		
	S		23		-1.4							
WEL	IP	03 36	04.9	U	1.6	1.38	143	4.0	4.6	4.6		
	S		28		0.2							
MNG	IP	03 36	05.3	D	1.4	1.45	108		4.2	4.6		
	E		09									
	E		25									
	S		28		-0.9							
CNZ	IP	03 36	07.2	U	0.4	1.74	56		4.6	4.4		
	S		35		1.1							
KRP	P	03 36	16.5		-0.8	2.68	33					
	E		25									
	I		31.5									
	ES		53		0.4							
TUA	P	03 36	21.2		-0.1	3.02	64		4.4	4.5		
	S		59		-0.6							
GPZ	P	03 36	28		-0.5	3.60	192	5.2				
	E		40									
	S		37		-4.9*							
GNZ	P	03 36	29.3		-0.5	3.70	67		4.9	4.7		
	E		37		-1.7							
	S		13									
	E		15									
MJZ	P	03 36	41.5		1.7	4.49	211		3.3	3.8		
	S		37		-4.7*							
	E		33									
ECZ	EP	03 36	39		-1.4	4.54	58		5.0	4.4		
	E		41									
	ES		37		1.3							
MNW	E	03 38	31			7.14	216					
	ES		33.5		-1.1							
MAR 12	H M S			39.43S	176.15E	109 KM	SE	1.2	AVG MAG	68/122		
13	37	39.3	0.02							0.03	6	4.8
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
CNZ	IP	13 37	54.9	U	-1.5	0.92	296					
WNZ	E	13 38	01			0.79	357					
	E		09									
TUA	IP	13 37	59.9	D	-0.7	0.99	52					
MNG	IP	13 38	05.7	U	1.5	1.30	203		4.9			
	E		08									
	ES		23		0.0							
	E		27									
TNZ	IP	13 38	06.3	D	1.0	1.39	279		5.2	4.8		
	ES		25		0.1							
KRP	IP	13 38	06.3	UNW	-1.1	1.57	342					
	E		22									
	IS		24		-4.6*							
GNZ	P	13 38	08.3	D	-0.1	1.65	62		5.5	5.1		
	E		15									
	AS		44									
	ES		30		-0.2							
WEL	IP	13 38	15.7	D	1.2	2.14	209	4.6	5.2	5.1		
	E		21									
	E		29									
	S		42		1.1							
ECZ	P	13 38	20	D	-0.2	2.55	48		5.5			

MAR 13	H M S			36.36S	177.81E	270 KM	SE	1.2	AVG MAG	68/123		
	14	48	23.6							0.04	0.05	6
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
ECZ	P	14 49	03.6	D	-0.4	1.46	156		4.5	4.9		
	E		28									
	S		34		-1.1							
GBZ	P	14 49	06.1		-1.0	1.89	274		3.4	3.0		
	S		39		-1.9							
GNZ	P	14 49	11.0	D	0.3	2.29	176		4.9	5.1		
	E		12									
	E		35									
	E		40									
	S		47		-0.3							
KRP	P	14 49	13.0	D	1.3	2.40	229					
	E		19									
	S		50.5		1.4							
	E		54									
TUA	P	14 49	13		0.2	2.50	192		4.2	5.0		
	E		37									
	E		43.5									
	IS		52		1.0							
	I		54									
ONE	E(P)	14 49	17		0.7	2.85	281					
CNZ	P	14 49	22.0		0.3	3.36	212		3.6	3.5		
	E		50									
	S		15.5									
TNZ	P	14 49	30.5		2.6	3.92	223		3.7			
MNG	P	14 49	35.4	D	-0.8	4.63	203		4.4	4.4		
	E		50									
	E		24									
	S		31									
	S		34		1.1							
WEL	P	14 49	45.8		-0.4	5.47	205	5.0	4.7	4.6		
	S		50		0.2							
COB	P	14 49	54		-0.8	6.17	218					
	S		51		-0.3							
GPZ	E	14 51	52			8.33	207	5.3				
	S		54		-0.7							
CIZ	S	14 52	21		17.5*	8.72	152					
	E		26									
MJZ	S	14 52	19		-1.3	9.47	214					

## FELT CENTRAL NORTH ISLAND AND HAWKES BAY MM IV



MAR 14		H	M	S	46.75S	165.53E	33 KM	SE	1.7	AVG MAG	68/128
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPN	10	05	15.2	D	-0.4	1.75	57	4.8	4.8	4.8
	SN	10	05	03		0.1					
	S*			08		-1.7					
WPZ	E	10	05	52.5		-1.7	2.29	89	4.1	4.1	4.1
	P*			54							
	E			06 07							
	SN			16		-0.1					
	ES*			27		1.1					
ROX	E	10	06	02.5			2.93	66	4.4	4.4	4.4
	P*			06		-0.7					
	SN			30		-1.7					
	E			33							
GPZ	E	10	07	11			5.88	61	4.4		
	E			40							
	SN			46		2.7					
	E			08 00							
	ES*			16		2.2					
COB	E	10	07	07.5			7.69	45			
	SN			08 27		0.6					
MNG	PN	10	07	28		1.3	9.46	53			
	SN			09 07		-1.8					
	E			10							
MAR 15		H	M	S	34.28S	179.85E	320 KM	SE	2.1	AVG MAG	68/128
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	12	11	00		-0.7	3.52	194	4.4	4.4	4.4
	ES			53		3.2					
GBZ	P	12	11	03		-1.8	3.92	239	3.8		
GNZ	P	12	11	10.5		-1.2	4.55	196	4.7	4.7	4.7
	ES			12 11		1.5					
KRP	P	12	11	16.5		0.6	4.93	221			
TUA	EP	12	11	15		-1.1	4.95	203	4.6	4.6	4.6
	ES			12 16		-1.5					
CNZ	P	12	11	28.0		0.6	5.91	213	3.9		
TNZ	P	12	11	37.5		3.5	6.47	219			
MNG	P	12	11	40.7	D	-1.4	7.14	206			
	S			13 00		-3.9					
	E			02.5							
WEL	P	12	11	51.5		-0.8	7.99	207	4.9		
	S			13 21		-1.3					
COB	P	12	12	01.5		0.2	8.73	217			
	S			13 39		0.5					
CIZ	E	12	12	30			10.10	164			
	E			33							
	ES			14 26		17.3*					
HJZ	EP	12	12	43		1.5	12.02	214			
	ES			14 53		2.1					
MAR 16		H	M	S	39.21S	179.48E	33 KM	SE	1.8	AVG MAG	68/128
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	PN	04	35	05.5		-47.4*	1.27	296	3.9	3.9	3.9
	SN			35 07		-1.4					
ECZ	E(PN)	04	35	57.5		-1.1	1.68	334	4.1		
	E			36 10							
TUA	PN	04	36	01		-0.0	1.86	282	3.9		
	E			16.5							
	SN			24		1.3					
CNZ	PN	04	36	17.5		0.0	3.05	269	3.4		

## LOCAL EARTHQUAKES

KRP	E	04	35	26						0.2	3.34	291		
	ESN			57						-1.9				
MNG	PN	04	36	20.5						-1.4	3.38	244	4.3	3.8
	SN			37 00						0.2				
	E			02										
TNZ	EPN	04	36	33						3.2	3.96	269	3.6	3.3
	SN			37 17.5						3.5				
WEL	SN	04	37	18.5						-0.3	4.16	239	4.6	4.4
GBZ	EPN	04	36	34.5						-0.7	4.35	312	3.4	
	E			42										
COB	PN	04	36	50						-0.7	5.50	248	3.6	3.8
	E			37 46										
	SN			52						0.9				
CIZ	PN	04	36	52.3						0.3	5.59	149	4.8	4.9
	E			56.5										
	E			37 50.5										
	SN			54						0.5				
GPZ	SN	04	38	19						-3.7	6.81	227	4.3	
MJZ	SN	04	37	30						2.1	8.27	232		
	E(PN)			38 56.5						-0.9				
	SN													
MAR 16		H	M	S	38.85S	176.12E	144 KM	SE	0.7	AVG MAG	68/128			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S			
TUA	P	11	33	55.5		-0.2	0.81	87		3.6	4.3			
	S			34 12		-1.2								
KRP	ES	11	34	17		0.5	1.03	333						
TNZ	P	11	34	01		-0.3	1.40	256						
	S			23		0.0								
	E			31										
GNZ	P	11	34	01.9		-0.5	1.50	83		4.4	4.0			
	S			26		1.1								
MNG	IP	11	34	06.8	D	0.8	1.83	195		4.1	3.3			
	S			31.5		0.0								
	E			34										
WEL	P	11	34	16		-0.3	2.65	203	3.5	3.1	3.5			
	S			50		0.6								
COB	P	11	34	26		-0.3	3.43	228		3.3	3.7			
	S			35 07		-0.3								
GPZ	S	11	35	52		-4.5*	5.50	207	4.0					
MJZ	ES	11	36	20		-4.4*	6.66	218						
MAR 16		H	M	S	38.65S	175.68E	139 KM	SE	1.5	AVG MAG	68/128			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S			
CNZ	IP	16	33	06.0	D	1.0	0.56	191		4.0				
KRP	IP	16	33	06.4	D	0.2	0.73	351						
	E			11										
	S			22		-0.9								
TNZ	P	16	33	12.0		2.2	1.15	242		3.2				
	E			34										
	E			40										
TUA	E7	16	33	09.5						1.16	98	4.3	4.1	
	IP			11.0		1.1								
	S			30		0.6								
	E			35										
GNZ	IP	16	33	17.2	D	-0.0	1.83	91		4.0	3.8			
	S			40		-2.3								
MNG	IP	16	33	19.7	U	0.8	1.97	184		4.5	3.8			
	S			45		-0.3								
WEL	P	16	33	29		0.3	2.72	195	3.5	3.1	3.7			
	S			34 01		-1.4								
COB	P	16	33	37		0.6	3.33	222			3.4			
	E			49										





STATION	E	10 07		DIR	RES	DIST	AZ	W-A	W P	W S	
		09 11	05 33.5								
ROX	S				-3.5	6.03	210				
MNH	S			U	-0.7	6.99	216				
	P	09 10	12		1.8						
	S	11 33									
CIZ	S	09 12	02		1.8	8.21	120				
	I	08 08									
FELT SOUTHERN PARTS OF NORTH ISLAND, MM IV											
	H	M	S								
MAR 20	16 26	43.7		39.41S	175.43E	12 KM	SE	1.3	AVG MAG	68/132	
	+	-		0.02	0.03				3.2		
	H	M	S		DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	16 26	49.4	U	0.7	0.22	24				
	SG		52		-0.1						
TNZ	PG	16 27	01		0.1	0.84	285		3.1	2.9	
	SG		14		1.6						
MNG	PG	16 27	07.9	U	-0.4	1.21	178		3.6	3.1	
	I		08.5								
	SG		25.5		0.9						
TUA	EPG	16 27	14		0.6	1.46	66				
KRP	P*	16 27	09.5		-0.6	1.48	3				
	S*		28		-1.8						
	SG		34.5		0.8						
WEL	S*	16 27	42		-1.8	1.94	195			3.0	
	SG		51		1.7						
COB	ES*	16 29	03.5		-1.8	2.66	230				
FELT OHAKUNE (49) MM III											

STATION	E	68/133		DIR	RES	DIST	AZ	W-A	W P	W S	
		06 04	06.2								
MAR 21		38.04S	177.37E	147 KM		SE	1.8	AVG MAG	4.1		
	+	-		0.05	0.06						
	H	M	S		DIR <td>RES</td> <td>DIST</td> <td>AZ</td> <td>W-A</td> <td>W P</td> <td>W S</td>	RES	DIST	AZ	W-A	W P	W S
TUA	P	06 04	30.2	D	1.1	0.78	193		3.7	4.7	
	E		41.5								
	S		46.5		-0.3						
GNZ	P	06 04	29.7		0.6	0.79	140		4.7	4.6	
	S		46.3		-0.5						
ECZ	P	06 04	30.5		-0.2	0.99	70		4.4	4.5	
	E		39								
	S		48		-1.6						
KRP	IP	06 04	35.4	DE	-0.0	1.46	274				
	S		54.5		-3.3						
CNZ	P	06 04	41.7	D	2.2	1.84	231		4.1	3.5	
	ES		05 08.5		3.3						
	E		13								
GBZ						2.37	320		3.3		
TNZ	P	06 04	51.8		2.6	2.61	243		3.5		
MNG	P	06 04	54.0		0.3	2.96	209		4.0	4.2	
	E		05 25								
	S		30		-0.0						
WEL	EP	06 05	06		1.3	3.81	211		4.3	4.0	4.1
	S		49.5		-0.2						
COB	P	06 05	16.5		0.0	4.70	228		3.5	3.8	
	S		06 11		0.4						
GPZ	S	06 05	55.5		-2.7	6.69	211		4.3		
HJZ	P	06 05	59		-0.3	7.90	219				
	S		07 25		-2.5						

STATION	E	68/131		DIR	RES	DIST	AZ	W-A	W P	W S	
		07 11	28.5								
MAR 21		40.26S	175.70E	33 KM		SE	2.6	AVG MAG	4.8		
	+	-		0.04	0.05						
	H	M	S		DIR <td>RES</td> <td>DIST</td> <td>AZ</td> <td>W-A</td> <td>W P</td> <td>W S</td>	RES	DIST	AZ	W-A	W P	W S
MNG	IPN	07 11	38.1	D	0.7	0.40	205				
	SN		45		1.2						
CNZ	IPN	07 11	48.3	D	1.9	1.07	353				
	E		58								

## LOCAL EARTHQUAKES

STATION	E	68/135		DIR	RES	DIST	AZ	W-A	W P	W S	
		07 11	49.5								
MAR 23		05 33	30.5			12 KM	SE	2.0	AVG MAG	3.9	
	+	-		0.02	0.03						
	H	M	S		DIR <td>RES</td> <td>DIST</td> <td>AZ</td> <td>W-A</td> <td>W P</td> <td>W S</td>	RES	DIST	AZ	W-A	W P	W S
TNZ	IPG	05 33	40.7		1.4	0.42	305				
	SG		47		1.9						
CNZ	IPG	05 33	44.3	U	1.3	0.61	68				

STATION	E	68/135		DIR	RES	DIST	AZ	W-A	W P	W S	
		07 11	49.5								
MAR 23		05 33	30.5			12 KM	SE	2.0	AVG MAG	3.9	
	+	-		0.02	0.03						
	H	M	S		DIR <td>RES</td> <td>DIST</td> <td>AZ</td> <td>W-A</td> <td>W P</td> <td>W S</td>	RES	DIST	AZ	W-A	W P	W S
TNZ	IPG	05 33	40.7		1.4	0.42	305				
	SG		47		1.9						
CNZ	IPG	05 33	44.3	U	1.3	0.61	68				

FELT CENTRAL NORTH ISLAND AND HAWKES BAY, MAXIMUM INTENSITY MM V

STATION	E	68/135		DIR	RES	DIST	AZ	W-A	W P	W S	
		07 11	49.5								
MAR 23		05 33	30.5			12 KM	SE	2.0	AVG MAG	3.9	
	+	-		0.02	0.03						
	H	M	S		DIR <td>RES</td> <td>DIST</td> <td>AZ</td> <td>W-A</td> <td>W P</td> <td>W S</td>	RES	DIST	AZ	W-A	W P	W S
TNZ	IPG	05 33	40.7		1.4	0.42	305				
	SG		47		1.9						
CNZ	IPG	05 33	44.3	U	1.3	0.61	68				

MNG	ESG	05 33 53.6	U	-1.7	1.29	157	4.5	4.4		
	IP*	34 14.5		-0.0						
	E									
KRP	IPN	05 33 57.5	DSW	-0.6	1.60	21				
	PG	34 03.5		0.5						
	SN	18		-0.6						
WEL	P*	05 34 02.1	U	-1.2	1.85	181	3.8	4.3	4.3	
	E	04								
	S*	25		-2.8						
	SG	27.5		-5.6*						
	E	38								
TUA	(PN)	05 34 03.5		1.3	1.91	72	3.9	3.8		
	E	22								
	ESN	30		4.4						
	E	36								
COB	IPN	05 34 06.5	D	-1.0	2.30	223				
AUC	(PG)	05 34 21		-1.4	2.57	399				
	ESG	55		-2.1						
GNZ	PN	05 34 13.5		1.6	2.61	74	3.8	3.8		
	PG	23		-0.4						
	SN	39		-4.0						
	E	50								
GBZ	E(PG)	05 34 33		-3.2	3.25	9	3.9	3.6		
	SN	58		-0.0						
CRZ	SN	05 35 47		0.1	5.28	340				
	E	50								
HJZ	EPN	05 34 54.5		2.5	5.60	214	3.4	3.2		
	SN	35 54.5		-0.2						
CIZ	E?	05 35 25.5			7.87	128				
	SN	36 48		-0.8						
MNW	E	05 35 37			8.27	218				
	ESN	37 00		1.4						

FELT URUTI (38) MM III

		H	M	S			68/ 136			
MAR 23		05 44	53.3	39.48S	174.84E	12 KM	SE	1.8	AVG MAG	3.7
		+ 0.5	0.02	0.03	R					
		H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
TNZ	IPG	05 45 03.4	U	0.4	0.46	310				
	ES*	10.5		1.6						
	SG	11.5		2.1						
CNZ	IPG	05 45 06.7	U	0.7	0.62	63		4.0	4.1	
	SG	16		1.5						
MNG	P*	05 45 16.3	U	0.8	1.24	157		3.7	3.7	
	PG	21		2.6						
	S*	34		1.9						
KRP	EPN	05 45 19.5		-2.1	1.65	20				
	PG	25		-1.8						
	SN	40 0		-2.4						
WEL	E(P*)	05 45 24		-1.2	1.80	182	3.1	3.6	3.8	
	S*	47		-2.1						
	SG	49		-5.1*						
	E	46 01								
COB	PN	05 45 29.0		-0.9	2.27	224				
	ESN	56		-1.1						
HJZ	SN	05 47 16.5		-0.1	5.56	215				

		H	M	S			68/ 137			
MAR 23		22 09	08.6	39.25S	177.12E	12 KM	SE	1.5	AVG MAG	4.2
		+ 0.4	0.02	0.02	R					
		H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
TUA	PG	22 09 17.4	U	-0.4	0.45	4				
	E	19								
	SG	23.5		-0.5						
GNZ	PG	22 09 26.7		-0.9	0.93	50		5.1	4.7	
	I	28								
	SG	41		0.8						

## LOCAL EARTHQUAKES

CNZ	IPG	22 09 34.1		0.8	1.22	272	4.5	4.4		
	ESG	56		6.2*						
KRP	P*	22 09 40		-0.7	1.81	317				
	PG	44		-1.3						
	E	47.5								
	S*	10 04		-0.7						
	SG	11		1.2						
MNG	P*	22 09 41.0	U	-0.4	1.85	222	4.3	4.0		
	EPG	47		0.9						
	I	50.5								
	ES*	10 06		0.1						
	E	25								
ECZ	PG	22 09 48		0.5	1.92	36	4.4	4.1		
	E	54								
	E	10 26								
TNZ	P*	22 09 46.8		0.8	2.13	271	4.0	3.7		
	PG	52		0.4						
	E	10 04.5								
	SG	21		0.7						
WEL	EPN	22 09 52		0.7	2.71	221	3.8	4.3	4.1	
	EPG	10 06		2.6						
	ESN	26		2.6						
	S*	31		-0.7						
	ESG	38		-2.0						
COB	E(PG)	22 10 23		-2.9	3.82	240	4.1	4.0		
	SN	55		5.0*						
	SG	11 15		-2.5						
CIZ	E	22 10 47			6.67	137				
	E	11 54								
	SN	57		-1.3						
	E	12 00								
HJZ	P*	22 11 12		4.6*	6.87	224				
	SN	12 05		2.0						

FELT KOTEMAORI (53) 4M V. AND MAUNGATANIWA (42)

		H	M	S			68/ 138			
MAR 26		23 46	54.4	37.53S	179.51E	33 KM	SE	2.4	AVG MAG	4.8
		+ 1.3	0.08	0.06	R					
		H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
ECZ	IPN	23 47 09.2	U	0.7	0.79	258			5.0	5.3
	E	24								
GNZ	PN	23 47 20.9	U	1.0	1.62	226			5.2	5.0
	E	30								
	E	37								
	S*	56		10.8*						
TUA	EPN	23 47 29.5	D	0.8	2.26	235			4.7	5.0
	E	41								
	ESN	48 01		6.4						
HNZ	EPN	23 47 37.4		-0.2	2.91	247			5.0	5.1
	EP*	46		0.5						
	E	48 00								
	ES*	20		-3.7						
	E	34								
KRP	IPN	23 47 41.4	UW	0.1	3.18	262				
	E	48 01								
	SN	19		2.0						
GBZ	PN	23 47 46		0.4	3.49	291				
CNZ	PN	23 47 46.9	U	0.7	3.54	241			4.3	4.6
	EP*	57		0.8						
	SN	48 34		8.2*						
	ES*	45		2.4						
TNZ	EPN	23 47 58.3		0.8	4.36	246			4.5	4.1
	P*	48 07		-3.4						
	E	23								
	ESN	49		3.2						
	S*	49 06		-1.3						
MNG	PN	23 47 55.8	U	-2.2	4.40	224			4.3	4.4



Station	Time	Mag	Depth	Dist	Az	W-A	W-P	W-S
ONE	23 48 02	4.50	291					
HEL	23 48 07	-2.5	5.25	223	5.2	4.4	4.8	
COB	23 48 22	-2.3	6.34	234				
CRZ	23 48 36.5	2.4	7.07	156				
GPZ	23 48 53	8.07	218	5.1				
MJZ	23 49 03.5	-1.9	9.42	224				
ROX	23 49 42	11.01	221					
MNW	23 49 44	12.12	223					
H M S 45.30S 167.54E 83 KM SE 2.4 AVG MAG 4.2 68/ 139 +- 0.11 0.12 20								
MNW	11 06 53.2	-1.3	0.49	173				
ROX	11 07 04.8	1.4	1.27	99	4.6	4.6		
WPZ	11 07 07.3	-0.8	1.64	147	4.6	4.3		
MJZ	11 07 20.2	0.9	2.47	99	3.6	3.8		
GPZ	11 07 41	0.6	3.99	68	4.3			
COB	11 08 03	-0.5	5.67	44	4.1	3.7		
MNG	11 08 32	3.6	7.47	54				
H M S 38.16S 176.52E 12 KM SE 1.5 AVG MAG 3.9 68/ 140 +- 0.04 0.03 0.03								
HNZ	16 34 36	0.2	0.58	214	4.0	4.1		

## LOCAL EARTHQUAKES

Station	Time	Mag	Depth	Dist	Az	W-A	W-P	W-S
KRP	16 34 39.0	-1.4	0.81	286				
TUA	16 34 40.5	-0.1	0.82	143	4.5			
GNZ	16 34 50.5	0.6	1.28	113	4.7			
CNZ	16 34 50	-0.1	1.29	216	3.5			
ECZ	16 34 58	0.2	1.67	75	4.4			
TNZ	16 35 00	1.4	1.96	238	3.7			
MNG	16 35 07	-2.3	2.59	198	3.7	3.0		
COB	16 35 30	5.3*	4.14	224	3.4			
FELT LAKE OKATAINA (33) MM IV, AND ROTORUA								
H M S 41.73S 172.56E 12 KM SE 1.8 AVG MAG 2.9 68/ 141 16 57 52.2 0.03 0.04 0.04 +- 0.7 H 4 S DIR RES DIST AZ W-A W P W S								
COB	16 58 06.7	0.7	0.67	11				
KAI	16 58 19	1.16	227	2.6				
WEL	16 58 28	0.8	1.72	75	2.8	3.1	3.2	
GPZ	16 58 58	-0.0	1.95	178	2.6			
MNG	16 58 39.5	-2.9	2.48	64	3.2	3.2		
CNZ	16 58 54	2.2	3.42	43	2.7	2.9		
H M S 41.69S 172.49E 12 KM SE 0.9 AVG MAG 3.1 68/ 142 17 32 06.9 0.02 0.02 0.02 +- 0.4 H 4 S DIR RES DIST AZ W-A W P W S								
COB	17 32 20.5	0.7	0.63	17				
KAI	17 32 30.5	0.1	1.16	224	2.9			
WEL	17 32 39	-1.1	1.76	77	2.8	3.2	3.3	
GPZ	17 33 07	1.1	2.01	177	2.6			
MNG	17 32 50.5	-0.3	2.50	66	3.3	3.3		
H M S 41.78S 172.55E 12 KM SE 2.1 AVG MAG 3.8 68/ 143 17 39 53.6 0.04 0.04 0.04 +- 0.5 H 4 S DIR RES DIST AZ W-A W P W S								
COB	17 40 06.9	-1.1	0.70	12				
KAI	17 40 16	-0.6	1.13	228	3.5			
WEL	17 40 26.5	2.1	1.74	74	3.4	4.1	4.2	

Station	Time	Mag	Depth	Dir	Res	Dist	Az	W-A	W P	W S
GPZ	17 40 33	0.5	1.92	178	3.2					
EPG	37									
E	55	2.0								
S*	59									
MNG	17 40 37.0	0	-0.4	2.50	63	4.2	4.2			
PG	39.5		-4.7							
S*	41 10		-0.3							
ESG	14		-3.9							
HJZ	17 40 42		2.69	214	3.3	3.1				
E	47		-1.0							
EPG	41 14		-2.0							
S*	20									
E	27		2.7							
SG	17 40 53		-0.1	2.94	29		3.9			
EPG	41 35		2.3							
ESG	55									
E	17 40 54		0.4	3.44	43	3.8	4.1			
P*	41 42.5		3.8							
S*	17 41 10		-1.4	4.48	32					
EP*	59									
E	42 10		0.0							
S*	19		-5.7*							
SG	17 41 29		2.3	4.60	51		3.8			
EPG	42 29		0.3							
ESG										
FELT MM IV AT MANGLES VALLEY AND SIX MILE (80)										
APR 02	03 46 24.1	39.95S	178.78E	33 KM	SE	1.4	AVG MAG	68/144	4.1	
	+ 0.5	0.03	0.03	R						
GNZ	03 46 45.7			U	-1.3	1.43	336	4.6	4.0	
E	47 06									
ES*	10.5				1.2					
TUA	03 46 50.3			U	-0.4	1.70	312	4.4	3.9	
PN	47 11				0.3					
SN	03 47 03.4				0.3	2.61	254	3.5	3.6	
PN	35				2.3					
SN	03 47 17				-3.8*	3.24	308			
E(P*)	46				-2.2					
ESN	03 47 51				0.6	3.33	245	3.8	3.8	
SN	03 47 33				0.7	4.74	254	3.5	3.7	
EPN	48 26				1.3					
SN	03 47 40				0.3	5.29	141	4.9	5.0	
PN	43									
E	48 38				0.0					
SN	03 48 51				-1.9	5.91	229	4.1		
SN	03 49 27				-1.2	7.39	234			
ESN										
APR 02	05 36 14.4	38.33S	176.07E	209 KM	SE	2.2	AVG MAG	68/148	3.7	
	+ 2.3	0.10	0.10	14						
KRP	05 36 42.8			U	-0.2	0.58	314			
P	37 02.5				-2.5					
ES	05 37 12				3.4	0.96	205		2.8	
ES	05 37 07				-1.8	0.98	120		3.4	
ES	10									
E	05 37 15					1.57	102		3.7	
E	17.5				0.5					
IP	05 36 58.6			U	1.2	2.33	191	4.3	3.7	
IP	37 24									
E	30.5				-0.1					
S	05 37 07				0.6	3.12	198	3.8	4.0	3.8
P	46				-0.6					
S	48									
E	05 37 17				2.7	3.77	222	3.4	3.5	
E(P)	18									
E										

Station	Time	Mag	Depth	Dir	Res	Dist	Az	W-A	W P	W S
GPZ	05 39 48									
S	38 02									
S	05 39 13									
HJZ	05 39 13									
H	08 12 44.9	45.20S	166.56E	12 KM	SE	1.8	AVG MAG	68/146	5.8	
M	1.0	0.04	0.06	R						
APR 02										
MNH	08 13 00.9			D	-0.3	0.89	131			
IP*	08 13 15.7			DW	-0.7	1.90	99			
IPN	20				1.5					
ROX	49				0.1					
P*	08 13 18.7			D	-0.7	2.12	135	6.0	5.8	
ESG	25.5									
EPN	45				0.1					
IPN	08 13 30.5			DS	-0.8	2.98	67		5.6	
I	30.9									
SN	35				-1.9					
PN	39				-6.1*					
I	14 05				-1.2					
EPG										
SN										
KAI	08 13 52				-0.3	4.35	54	5.7		
GPZ	14 00				-3.7	4.54	73	5.9		
PN	15.5				-1.2					
EP*	45				1.3					
PG	08 14 11.9			D	-0.5	6.05	49			
SN	14.5									
IPN	15 17				-2.9					
SN	08 14 27				0.5	7.09	59	6.0		
E(PN)	31									
SN	15 45				0.3					
E	15 42									
SN	08 14 38				0.4	7.93	58			
PN	42									
I	47				2.4					
SN	08 14 42				-0.5	8.30	46			
EPN	46.5									
E	15 22									
E	08 14 53.5					8.91	51			
E	59									
SN	15 29				1.1					
E	38									
SN	08 15 23					9.62	50			
E	16 02									
E	17 24									
E	08 15 03.5				0.6	9.85	46			
PN	18									
E	16 48				-2.0					
SN	55									
E	18 06									
E	08 15 12					10.08	54			
E	22									
E	17 03									
PN	08 15 17.5				3.5	10.70	56			
EPN	39									
E	17 06									
E	13.5				3.7					
SN	18 08				-0.1					
ES*	08 15 37				5.8*	12.03	90			
PN	17 39.5									
E	42				1.2					
SN	53									
E	19 28									

FELT OTAGO, SOUTHLAND AND SOUTHERN WESTLAND.  
MAXIMUM MM IV AT GLENGARY (129)



H	M	S	45.08S	166.65E	12 KM	SE	0.4	AVG MAG	68/ 141
APR 02	09 45	29.3	0.02	0.02	R				3.7
	MSZ	P*	H 4 S	DIR	RES	DIST	AZ	W-A	W P W S
	MSZ	P*	09 45 47.1		-0.2	0.99	66		3.8 4.1
	HPZ	PN	09 45 05		0.3	2.20	137		3.6 3.9
	MJZ	EE	09 45 16.5		0.5	2.94	69		3.4 3.5
	GPZ	PG	09 47 00.5		-0.4	4.51	74		3.7
	COB	EE	09 46 59		0.4	5.98	50		3.6 3.7
			48 05						
			FELT TE ANAU (130) MM IV						
APR 02	10 51	20.7	38.98S	175.06E	221 KM	SE	1.3	AVG MAG	68/ 141
			0.05	0.06	8				3.8
	GNZ	P	10 51 52		1.9	0.44	120		
	TNZ	E7	10 51 50.5		-0.3	0.57	248		3.3
	KRP	P	10 51 53		-0.5	1.12	20		
	TUA	ES	10 52 18		-1.0				
	MNG	IP	10 51 59.8	U	-0.3	1.64	85		3.8
			52 22		1.8	1.67	169		4.5 4.1
	WEL	P	10 52 05.5		0.2	2.32	185		3.5 3.5 3.6
			38.5		1.3	2.34	83		4.0 3.6
	COB	IP	10 52 09.6		0.5	2.76	220		3.1
	ECZ	E7	10 52 18.5		-1.4	3.03	66		4.3
	GPZ	S	10 53 34		0.3	5.05	200		4.0
	MJZ	S	10 53 58		-2.1	6.08	213		
					-1.4				
APR 02	12 04	50	FIORDLAND						68/ 141
			H 4 S	DIR	RES	DIST	AZ	W-A	W P W S
			12 04 53.5						
			FELT WEST ARM (138), LIGHT						
APR 02	14 32	41.9	45.41S	170.00E	12 KM	SE	1.2	AVG MAG	68/ 151
			0.03	0.02	R				3.7
	ROX	S*	14 32 57		-1.0	0.48	262		
	MJZ	P*	14 33 08		-0.1	1.46	13		4.0 3.4
			09.3						
	WPZ	P*	14 33 09		0.4	1.48	212		3.9 4.0
			28.5		0.6				
	MSZ	P*	14 33 11.6		0.4	1.65	296		3.7 3.9
			32		0.3				
	GPZ	EP*	14 33 27		-1.2	2.55	49		3.6
			33		0.3				
			52		-0.6				
					-1.0				

## LOCAL EARTHQUAKES

H	M	S	34 05.5	-2.6					
APR 02	14 33	53.5	14 34 08	3.1*	3.06	20	3.2		
	MSZ	P*	H 4 S	DIR	RES	DIST	AZ	W-A	W P W S
	MSZ	P*	14 33 53.5		1.2	4.76	26		
			34 54						
APR 02	15 48	50	FIORDLAND						68/ 151
			H 4 S	DIR	RES	DIST	AZ	W-A	W P W S
			15 48 52.2						
			PENDULUM CLOCK AT YAWAPOURI (139) STOPPED AT 15H 50M. NOT FELT						
APR 02	17 20		FIORDLAND						68/ 152
			H 4 S	DIR	RES	DIST	AZ	W-A	W P W S
			17 20						
			TREMORS RECORDED MSZ AND MJZ. FELT WEST ARM (138), LIGHT						
APR 02	17 53	57.6	45.22S	166.65E	12 KM	SE	2.2	AVG MAG	68/ 153
			0.05	0.07	R				4.4
	MSZ	P*	17 54 15.3		-1.4	1.05	59		
			15.9						
	ROX	EP*	17 54 30		-1.2	1.90	99		
			38		-1.0				
			53		-3.4				
	HPZ	PN	17 54 32		0.1	2.11	134		4.4 4.4
			56						
	MJZ	SN	17 54 44		2.7	2.99	67		4.3 4.4
			53		-0.1				
	KAI	(P*)	17 55 10		-0.2	4.37	54		4.3
			54		-3.4				
			55 14		1.9				
	GPZ	EPN	17 55 05		-0.1	4.55	73		4.5
			27		-2.7				
			58		1.4				
	COB	ESG	17 55 25.5		-1.0	6.07	49		
			29		0.2				
			59		-1.3				
			56 30		-3.0				
	WEL	ESN	17 57 01		3.2	7.11	59		4.7
			19						
	MNG	E	17 55 58.5			7.94	58		
			57 20		2.4				
	KRP	PN	17 56 17		1.2	9.86	45		
			58 08						
			FELT MM IV AT TE ANAU(130) AND GLENGARY(129)						
APR 02	18 01	21.7	45.21S	166.81E	12 KM	SE	2.4	AVG MAG	68/ 154
			0.05	0.08	R				5.4
	MSZ	IP*	18 01 37.3		-1.9	0.96	56		
	ROX	IPN	18 01 51.8		-0.1	1.79	99		
			02 13		-1.0				
	WPZ	IPN	18 01 54.3		-0.8	2.03	136		5.5 5.5
			56		-1.6				
			02 01		-1.9				
			20						
	MJZ	PN	18 02 05.8		2.3	2.89	66		5.3
			06.2		-1.1				
			39		-1.8				
	KAI	E(PN)	18 02 28		2.5	4.27	53		5.3

STATION	TIME	DEPTH (km)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)
GPZ	18 02 27	1.9	4.45	72	5.5				
COB	18 02 47.2	-1.1	5.98	49	5.3				
WEL	18 03 04	1.8	7.01	59	5.4				
MNG	18 03 12.5	-0.8	7.85	57					
TNZ	18 03 21	2.6	8.23	46					
CNZ	18 03 16		8.84	50					
KRP	18 03 39.5	0.7	9.78	45					
TUA	18 03 48		10.00	54					
GNZ	18 04 02	-4.1	10.62	56					
CIZ	18 04 12	5.3	11.93	90					
FELT THROUGHOUT SOUTHLAND AND OTAGO, MAXIMUM MM V TE ANAU DISTRICT (130)									
APR 02	18 51 20.0	45.19S	166.53E	12 KM	SE 2.3	AVG MAG	4.3		
MSZ	18 51 39.2	0.05	0.11	DIR	RES	DIST	AZ	W-A	W P W S
ROX	18 51 54	-1.1	1.99	99					
HPZ	18 51 56	0.7	2.18	133	4.1	4.3			
MJZ	18 52 08.3	1.0	3.06	68	4.3	4.3			
KAI	18 52 33	-3.7	4.42	55	4.3				
GPZ	18 52 29	0.5	4.63	73	4.4				
COB	18 52 49.0	0.6	6.12	50					

## LOCAL EARTHQUAKES

STATION	TIME	DEPTH (km)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)	SLIP (cm)
WEL	18 54 24	2.4	7.17	60	4.7				
MNG	18 53 17		8.00	58					
KRP	18 53 44	2.6	9.91	46					
FELT EARNSLAW (121) AND TE ANAU (130) MM IV									
APR 04	03 58 59.4	45.24S	166.85E	12 KM	SE 1.3	AVG MAG	3.6	68/156	
MNW	03 59 13.7	0.03	0.06	DIR	RES	DIST	AZ	W-A	W P W S
MSZ	03 59 15.0		0.2	0.76	135				
ROX	03 59 29	-0.6	1.76	98	3.7	3.4			
MJZ	03 59 44	-0.3	2.87	65	3.2	3.1			
COB	04 00 26.5	0.6	5.98	48	3.6	3.4			
MNG	04 00 58	1.8	7.84	57					
APR 04	08 32 57.9	38.56S	175.70E	179 KM	SE 2.3	AVG MAG	4.2	68/157	
KRP	08 33 24.0	0.07	0.05	DIR	RES	DIST	AZ	W-A	W P W S
CNZ	08 33 24.9		0.6	0.65	190				
TUA	08 33 28.3	1.3	1.16	103	4.4	4.9			
TNZ	08 33 29.4	-1.4	1.20	238	3.6	3.3			
GNZ	08 33 34.3	1.0	1.82	93	4.8	4.5			
MNG	08 33 37.2	-1.6	2.06	185	4.7	4.2			
ECZ	08 33 40.5	0.6	2.41	70	4.7	4.2			
WEL	08 33 45	-4.2	2.81	194	3.6	4.4	3.9		
COB	08 33 51.4	-0.7	3.40	221	4.0				





	H	M	S	DIR	RES	DIST	AZ	W-A	M	P	M	S
KRP	17	17	02.2	D	0.3	0.50	352					
GNZ	17	17	04.3		-0.4	0.78	185		3.2	3.1		
HNZ	17	17	08.3		1.8	1.24	231		3.6			
TUA	17	17	07.0	D	0.4	1.25	109		4.1	4.0		
GNZ	17	17	12.8	J	-0.9	1.89	98		4.3	4.0		
GBZ	17	17	14.5		0.2							
MNG	17	17	16.2	J	-1.8	2.20	397		3.7			
WEL	17	17	16.2	J	0.3	2.20	183		3.9	4.3		
COB	17	17	31.4		0.4	3.48	219		3.7	3.9		
HJZ	17	19	26		-1.0							
					-4.1*	6.79	213					
APR 04 16 25 26.4 45.21S 166.90E 12 KM SE 1.6 AVG MAG 68/141 4.5												
HNW	18	23	42.6	D	0.0	0.77	139					
MSZ	18	23	43.5	J	0.9	0.90	54					
ROX	18	23	57		-1.3							
					-1.5	1.73	100		4.7	4.9		
WPZ	18	26	00.5		-1.1							
					-1.5							
					-1.8	1.99	138		4.2	4.5		
					-2.1							
					-0.7							
HJZ	18	26	12	J	1.6	2.83	66		4.4	4.3		
					-0.7							
					-0.9							
					0.9							
					2.0							
COB	18	26	52.5		-1.8	5.93	48		4.4	4.6		
WEL	18	27	17		1.5	6.95	58		4.6			
MNG	18	27	21		1.6	7.79	97					
TNZ	18	27	24		3.2							
					-0.5	8.18	45					
					5.8*							
KRP	18	27	50			9.73	45					
					0.2							
FELT NANCY SOUND (129) MM III												

	H	M	S	DIR	RES	DIST	AZ	W-A	M	P	M	S
APR 04	22	39	13.2			40.87S 172.91E	12 KM	SE	2.6	AVG MAG	68/154	3.9
COB	22	39	16.2	D	-2.5	0.26	211		3.7	4.2	4.6	
					0.6	1.47	107					
MNG	22	39	47		0.0							
					58.5	-0.5						
					-1.0	1.97	84		4.2	4.2		
TNZ	22	39	51		-1.1							
					1.9	2.02	34		3.9	4.0		
					3.8							
					6.3*							
					4.5							
KRP	22	40	09.5						3.58	3.6		
					13							
					26							
					41.00				-2.3			
					0.9				-4.8			
HJZ	22	40	08.5		0.6	3.60	209		3.4	3.5		
					0.7							
					52.5							
MSZ	22	40	30		-0.5	5.29	222		3.8	3.8		
					41.29				-0.9			
					33							
ROX	22	41	26			5.30	208			3.5		
					28				-2.2			
					4.2	6.24	216					
FELT TAKAKA DISTRICT (72) MM V												
APR 05	02	04	17.1			44.89S 167.78E	110 KM	SE	1.2	AVG MAG	68/155	4.4
MSZ	02	04	33.3	U	0.5	0.20	30					
MNW	02	04	38.3	D	0.3	0.94	187		4.9			
ROX	02	04	43.3	D	1.6	1.26	121		4.7	4.5		
					51.5							
					59.5							
WPZ	02	04	51.2	D	-0.7	1.96	158		4.8	4.5		
					58							
					05.13							
					14				-0.8			
HJZ	02	04	53.3	UN	1.3	2.11	67		3.9	4.2		
					03.06							
					17.5							
					19				0.8			
					25							
KAI						3.51	50		4.3			
COB	02	05	33.5		-0.8	5.23	46		4.1	4.4		
					37.5							
					06.32				-1.8			
					34							
WEL	02	06	55		-3.4*	6.23	58		4.5			
MNG	02	05	59		-0.5	7.07	56					
					06.06							
					20				0.1			
					36							
TNZ	02	07	30		0.9	7.49	43					
KRP	02	08	06		-0.7	9.04	43					





APR 05	H	M	S	41.80S	174.27E	12 KM	SE	1.7	AVG MAG	68/150
	08	43	12.3	0.05	0.07	R				3.4
			+ 0.6							
WEL	IPG	08	43	24.9	D	-0.4	0.63	37	3.4	4.2
	SG			33.9		-0.1				3.8
COB	IP*	08	43	37.7		1.2	1.35	301		
MNG	(PN)	08	43	36.5		-2.0	1.49	38	3.7	3.5
	P*			40		1.1				
	EPG			45		2.5				
	S*			57		-1.8				
KAI							2.25	250	3.1	
TNZ	EP*	08	43	55.5		-2.5	2.61	2		
	PG			44 05		-0.1			3.4	
MJZ	EPN	08	44	08		1.7	3.55	231	2.8	2.6
	P*			13.5		-0.6				
	PG			25		0.9				
	SN			47.5		0.4				
KRP	EP*	08	44	23		1.3	3.99	15		
	E			31						
	EPG			34		1.0				
	ESG			45 31		4.3*				
MSZ	SN	08	45	30.5		-2.6	5.46	236		

APR 06	H	M	S	44.99S	167.83E	132 KM	SE	1.5	AVG MAG	68/150
	21	46	55.1	0.05	0.06	R				4.1
			+ 1.1							
MSZ	IP	21	47	14.6	J	0.8	0.32	12		
	S			28.5		0.4				
	E			30						
MNW	IP	21	47	16.6	D	-0.1	0.81	190	4.1	4.6
	S			31		-2.4				
	E			34						
ROX	IP	21	47	22.0	D	1.9	1.16	115	4.6	4.0
	S			40.5		1.3				
WPZ	IP	21	47	27.7	D	0.3	1.82	157	4.7	4.5
	S			51.3		-0.7				
	E			52.8						
MJZ	P	21	47	31		-0.3	2.14	63	3.6	3.8
	S			59.5		0.6				
GPZ	P	21	47	53		1.3	3.69	71	3.6	
	E			48 00						
	S			33.5		-1.6				
COB	EP	21	48	15		1.8	5.30	44		3.3
	S			49 11.5		-2.2				
MNG	EP	21	48	37		-0.9	7.12	55		

APR 07	H	M	S	YEAR WAIRAKEI (41)		12 KM	SE	1.2	AVG MAG	68/150
	02	34	00	0.02	0.02	R				3.5
MNZ	PG	02	34	03		-0.1	0.96	153	2.5	3.1
	SG			05.5						
MNG	P	02	34	49		0.5				
	S			54		-0.0				
	E					0.3				
	SN									
	ESN									

APR 07	H	M	S	40.43S	174.20E	12 KM	SE	1.2	AVG MAG	68/150
	02	35	14.6	0.02	0.02	R				3.5
			+ 0.3							
WEL	PG	02	35	34		-0.1	0.96	153	2.5	3.1
	E			40.5						
	S*			45.5		0.5				
	SG			47		-0.0				
MNG	P*	02	35	33		0.3	1.00	101	3.3	3.3

APR 07	H	M	S	41.08S	174.35E	33 KM	SE	1.7	AVG MAG	68/170
	19	45	16.8	0.03	0.03	R				4.1
			+ 0.4							
WEL	IP*	19	45	26.7	DNH	1.1	0.38	124	4.0	
	S*			34.7		2.9				
MNG	IPN	19	45	33.5	D	0.0	0.97	62		4.7
	SN			47.5		1.7				
COB	IPN	19	45	36.1		-0.7	1.22	269		
	SN			52		0.2				
TNZ	PN	19	45	45.8		-0.2	1.89	1		4.1
	E			46 10						
	SN			12		4.0*				
	E			21						
CNZ	PN	19	45	48.4	D	-0.3	2.09	26		4.4
	SN			46 13		0.2				
	E			30.5						
KAI	E	19	46	00			2.63	236	4.2	
GPZ	E			13			2.91	205	3.9	
	SN			30		-2.8				
	E			33.5						
TUA	EP*	19	46	09.5		-2.1	3.13	44		4.3
	E			21.5						
	SN			39		0.8				
KRP	PN	19	46	04		-1.1	3.28	17		
	E			11.5						
	E			19						
	SN			43		1.1				
	ES*			57		-0.3				
GNZ	E	19	46	38			3.73	51		4.1
	E			48						
	SN			52		-0.8				
	E			47 04.5						
MJZ	PN	19	46	16		-0.1	4.09	223		3.7
	E			22						
	SN			47 00		-1.5				
	E			08						
	E			14						
ECZ	PN	19	46	24		-0.3	4.69	45		4.2
MSZ	E	19	46	43			5.94	231		3.8
	SN			47 49		2.8				
	E			50						
MNW	ESN	19	48	09		2.4	6.79	224		

		E		14		-2.9		7.30		116			
		CIZ SN		19 48 16		-2.9		7.30		116			
		FELT WELLINGTON (68) MM III											
APR 10		H	M	S	38.29S	175.93E	195 KM	SE	1.0	AVG MAG	68/ 171		
		+ -		0.9	0.04	0.04	7			3.9			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
KRP		P	12	42	03	-1.1	0.45	316					
CNZ		S	12	42	08	-0.4	1.1	197	3.4	3.1			
TUA		P	12	42	07.8	0	0.0	1.11	4.1	4.2			
		E	12	42	10								
		E	12	42	27.5								
		S	12	42	31.5		0.3						
TNZ		P	12	42	13.2	0	1.8	1.93	3.8	232			
GNZ		P	12	42	12	-0.9	1.69	104	4.3	4.3			
		S	12	42	41		0.8						
MNG		P	12	42	20.0	0	-0.4	2.39	3.9	188			
		S	12	42	52		-1.3						
WEL		E(P)	12	42	29	-0.5	3.16	196	4.1	3.6	4.8		
		S	12	42	43		0.5						
COB		P	12	42	37	0.2	3.76	220	3.4	4.8			
		S	12	42	43		-0.1						
MJZ		S	12	44	35	-3.8*	7.06	214					
APR 10		H	M	S	38.48S	176.04E	177 KM	SE	1.4	AVG MAG	68/ 171		
		+ -		0.6	0.03	0.03	5			4.6			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
WNZ		E(P)	19	35	56	0.2	0.16	161					
KRP		IP	19	35	57.9	0.3	0.68	324					
		S	19	35	36		-1.2						
CNZ		IP	19	35	59.5	0	0.82	208	4.8	4.2			
		E	19	35	36								
		E	19	35	24								
TUA		IP	19	35	59.0	0	-0.2	0.93	4.9	4.9			
		E	19	35	36								
		S	19	35	17.5		-2.6						
TNZ		P	19	35	06.3	0	2.4	1.48	4.1	3.8			
		E	19	35	09.5								
		S	19	35	30.5		2.2						
GNZ		P	19	35	04.0	0	-0.8	1.57	4.6	4.7			
		S	19	35	28		-1.9						
ECZ		P	19	35	11	0.2	2.13	69	4.3	4.1			
		E	19	35	39								
		ES	19	35	42		1.5						
MNG		IP	19	35	12.5	0	1.1	2.18	5.0	5.0			
		S	19	35	42		0.4						
GBZ		IP	19	35	12.1	0	-0.6	2.30	4.0				
		E	19	35	19								
WEL		IP	19	35	21.6	0.6	2.97	199	4.8	5.3	5.1		
		S	19	35	58								
		E	19	35	59		0.5						
COB		P	19	35	29.3	-0.0	3.64	223	4.4	4.8			
		S	19	35	52		-0.4						
		E	19	35	37								
		E	19	35	15								
KAI							5.37	220	4.9				
MJZ		EP	19	37	13	0.9	6.92	216					
		S	19	37	38		-2.4						
CIZ		P?	19	37	25	1.2	7.81	137					
		S	19	37	38		1.0						
MSZ		E(P)	19	37	34	-1.2	8.68	222					
		S	19	37	39		-3.4*						
MNW		P	19	37	47	-0.3	9.61	218					

		S		39 31		-2.2							
		FELT HANGATANIWA (42)											
APR 12		H	M	S	45.04S	167.49E	93 KM	SE	1.0	AVG MAG	68/ 173		
		+ -		0.9	0.03	0.05	6			4.1			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
MSZ		IP	07	40	09.5	1.5	0.47	40					
		S	07	40	19		-0.5						
MNW		IP	07	40	10.8	0	0.4	0.75	173	4.4	4.6		
		S	07	40	22.5		-1.3						
ROX		IP	07	40	18.9	0	1.2	1.36	109	4.5	4.6		
		S	07	40	37		0.7						
		P	07	40	23.5	-0.6	1.88	150					
		ES	07	40	47		-0.2						
MJZ		P	07	40	31	0.2	2.37	65	3.6	3.8			
		E	07	40	45								
		E	07	40	50								
		S	07	40	59		-0.1						
		E	07	40	41		1.8						
COB		P	07	41	14	0.2	5.50	46	3.6	3.7			
		S	07	41	42		-1.4						
MNG		(P)	07	41	45	5.8*	7.35	56					
		E	07	41	55								
APR 14		H	M	S	38.04S	176.20E	12 KM	SE	2.1	AVG MAG	68/ 174		
		+ -		1.6	0.11	0.07	5			3.2			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
KRP		PG	08	02	14	-0.5	0.53	282					
		E	08	02	17								
		SG	08	02	22		0.2						
TUA							1.08	136					
GNZ		EPG	08	02	35	-0.1	1.56	114	3.5	3.0			
		E	08	02	45								
TNZ		E	08	02	45		1.83	230					
MNG		EP*	08	02	52	2.3	2.64	192	3.1				
		PG	08	02	55		-1.9						
		FELT ROTORUA (33) MM IV AND ROTOMAHANA (33)											
APR 14		H	M	S	38.84S	175.29E	245 KM	SE	1.3	AVG MAG	68/ 175		
		+ -		0.9	0.05	0.06	7			4.1			
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S		
CNZ		IP	08	48	27.0	0	1.5	0.41	151				
		E	08	48	37.5								
		S	08	48	51		0.4						
		E	08	48	55								
TNZ		EP?	08	48	28	1.1	0.79	243					
KRP		IP	08	48	27.2	0	-0.4	0.93	12				
		S	08	48	52.5		-1.9						
TUA							1.46	89	3.9	3.8			
MNG		IP	08	48	35.1	0	1.3	1.78	175	4.4	4.5		
		S	08	48	04.5		-0.6						
GNZ		IP	08	48	38.2	0	1.1	2.15	86	4.4	3.9		
		S	08	48	49		-1.0						
		S	08	48	10		-1.1						
WEL		P	08	48	41.8	1.5	2.48	189	4.1	3.7	4.1		
		S	08	48	16.5		-0.3						
COB		IP	08	48	45.2	0	-0.6	2.98	220	4.2	3.4		
		S	08	48	49		1.5						
		S	08	50	12.5		-1.9	5.24	201	4.3			
MJZ		P	08	49	25	-0.6	6.29	214					
		S	08	49	50		-3.8*						
MSZ		E	08	51	03		8.02	221					
		S	08	51	16		-1.0						



APR 14		H	M	S	38.68S	176.36E	12 KM	SE	2.4	AVG MAG	68/ 178
		+ - 0.7			0.04	0.03	R				3.7
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA							0.63	102		4.3	4.0
CNZ	PG	13	39	31	D	-1.4	0.82	231		3.3	3.4
	E			37							
	SG			43		-0.5					
KRP	IP*	13	39	35.0	U	1.2	1.00	319			
	ISG			50		0.5					
GNZ	P*	13	39	36.5		-2.4	1.30	89		3.9	3.8
	ES*			57		0.7					
	SG			40 02		2.4					
TNZ	PN	13	39	42.5		-1.1	1.63	251		3.4	2.8
	S*			40 07		0.8					
MNG	E(PN)	13	39	46		-3.2	2.05	199		3.7	3.9
	P*			49		-2.8					
	EPG			56		-1.1					
	S*			40 17.5		-1.4					
WEL	EPN	13	40	02		1.4	2.87	205		3.7	3.6
	E			28							
	SN			40		5.5					
COB	PN	13	40	10.5		-0.9	3.68	228		4.2	3.7
	SN			56		2.3					
MJZ	SN	13	42	03		-8.1*	6.91	218			
MSZ	ESN	13	42	45		-8.7*	8.70	224			

APR 15		H	M	S	37.98S	177.43E	33 KM	SE	1.9	AVG MAG	68/ 177
		+ - 0.6			0.03	0.04	R				4.9
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	05	19	58.2	U	2.1	0.81	145			
	E			20 01							
	E			04							
	ES			13		6.3*					
ECZ	IP	05	19	57.5	U	-0.2	0.93	73			
	E			20 10.5							
	E			12.5							
WNZ	E(P)	05	20	04		2.2	1.23	238		4.9	5.3
	E			09							
	E			22							
	E			30							
KRP	IP	05	20	05.7	DE	0.3	1.50	271			
	E			11							
	IS			24.0		0.7					
CNZ	IP	05	20	13.9	D	2.7	1.91	230		4.9	4.8
	E			39.5							
	E			42							
	E			46							
GBZ	IP	05	20	14.9	D	-2.2	2.35	318		5.2	4.5
	S			42		-2.0					
	E			52							
AUC	IP	05	20	18.0	U	0.4	2.39	297			
	E			43							
	E			47							
TNZ	P	05	20	24.9	J	3.3	2.68	242		4.9	4.7
	E			26.5							
	E			21 04							
	E			10							
MNG	P	05	20	26.5		-0.1	3.04	209		4.9	4.9
	E			35.5							
	E			21 03							
	E			20							
ONE	EP	05	20	28.5		-1.7	3.30	311		4.6	
	E			33							
	ES			21 06		-1.2					

APR 15		H	M	S	41.22S	175.47E	12 KM	SE	1.9	AVG MAG	68/ 178
		+ - 0.5			0.03	0.04	R				3.9
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	15	16	33.7	USM	1.4	0.53	263		4.5	
	SG			53.5		1.6					
MNG	IPG	15	16	47.0	U	0.9	0.60	1			4.5
	SG			55.5		1.1					
CNZ	IP*	15	17	08.0	U	-1.4	2.02	2		4.4	4.5
	IPG			15		0.4					
	E			22							
	S*			33		-3.1					
COB	PN	15	17	08		0.5	2.07	273			
	PG			16		0.4					
TUA	EP*	15	17	32		1.8	2.74	29			4.0
GPZ	E			56			3.24	219		3.8	
	SN			18 01		0.1					
GNZ	P*	15	17	31		0.8	3.24	38		3.5	4.1
	E			53.5							
	SN			18 02		1.0					
	SG			27		4.1					
KRP	PN	15	17	24		-0.2	3.29	1			
	PG			37		-3.4					
	E			45							
	SN			18 03		0.7					
	S*			13		-1.4					
KA1	EPN	15	17	42		0.0	3.30	245		3.9	
MJZ	P*			49		-4.7*	4.61	232		3.0	3.2
	E			18 31							
	SN			34		-0.1					
CIZ	E	15	19	14			6.48	118			
	SN			17		-2.0					
MSZ	EP*	15	19	23		-3.4	6.52	236			
	SN			19 17.5		-2.4					
MNW	EP*	15	19	41		1.3	7.30	229			
	E			19 31							
	E			37							
	SN			40		1.6					

FELT HM IV AT PONATA41 (70)

APR 16	H	M	S	41.43S	172.57E	210 KM	SE	1.3	AVG MAG	68/ 171
	09 39	52.8		0.05	0.05	6				3.6
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	09 40	21.5	U	0.8	0.36	20			
	S		42		-0.2					
KAI	P	09 40	30.2		1.1	1.66	86	4.0	4.1	
WEL	S		34		-0.6					
GPZ	EP	09 40	37.5		2.3	2.27	179	3.5		
	S		41 07.5		-0.4					
MNG	IP	09 40	37.0	U	1.0	2.35	71	4.6	3.7	
	E		40							
MJZ	P	09 40	45		1.6	2.99	211	3.1	2.9	
	S		41 22.5		-0.1					
CNZ	EP?	09 40	47		1.4	3.18	47	3.4	3.8	
	S		41 26		-0.4					
KRP	S	09 41	44		-4.0*	4.18	34			
ROX	P	09 41	04.5		0.4	4.69	209		3.4	
	S		58		-1.5					
MSZ	P	09 41	04.7		0.3	4.71	225	3.5	3.1	
	S		58		-1.9					
GNZ	EP	09 41	07		-1.4	5.02	58		4.1	
	S		42 06		-1.1					
	E		35							
MNW	EP	09 41	15		-1.3	5.65	218	3.8	3.1	
	S		42 22		0.7					
APR 16	H	M	S	38.92S	174.95E	180 KM	SE	1.7	AVG MAG	68/ 111
	19 18	39.5		0.04	0.05	7				4.7
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	19 19	05.6	D	0.9	0.54	122	4.7	4.1	
	S		22.5		-0.0					
KRP	IP	19 19	08.8	DSW	0.7	1.09	25			
	S		28.5		-1.7					
TUA	IP	19 19	15.5	U	1.2	1.72	87	4.7	4.7	
MNG	E		32		1.75	167		4.7	4.5	
	S		40		-1.1					
CAZ	P	19 19	20		0.7	2.21	154	5.6	5.2	
	S		45							
WEL	P	19 19	22.3		1.1	2.37	183	4.6	4.6	4.9
	S		52		0.3					
GNZ	IP	19 19	20.0	D	-1.6	2.41	85	5.1	5.0	
	E		46							
	S		47.5		-6.6*					
GBZ	P	19 19	26.7		1.2	2.73	9	3.4		
COB	P	19 19	27.5		1.6	2.76	217	4.0	4.9	
	E		38							
	S		20 04		2.4					
ECZ	P	19 19	28.0	D	-1.7	3.08	68	5.3		
KAI	S				4.50	216		4.8		
GPZ	S	19 20	52		-2.0	5.08	199	5.0		
MJZ	E	19 20	11		6.09	212				
	E		42							
	S		53							
	S		21 15.5		-2.0					
ROX	ES	19 21	55		-2.4	7.77	211			
MSZ	EP	19 20	31		0.2	7.79	220			
	E		21 09							

## LOCAL EARTHQUAKES

APR 16	H	M	S	37.55S	179.41E	33 KM	SE	2.0	AVG MAG	68/ 191
	20 29	18.2		0.04	0.05	7				4.5
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	20 29	31		-0.0	0.70	259		4.6	4.6
	S		33 5		1.5					
	SN		42		1.6					
	S		45		3.1					
GNZ	PN	20 29	43		0.5	1.54	225		4.4	4.6
	E		58							
	S		30 07		0.5					
TUA	EPN	20 29	53		1.8	2.17	234		4.5	4.7
	E		30 04							
	SN		21		4.7*					
KRP	PN	20 30	04		0.1	3.09	262			
	E		16							
	SN		40		1.3					
GBZ	PN	20 30	07 6		-0.8	3.43	292		4.3	3.8
	SN		47		0.2					
CNZ	PN	20 30	09		0.3	3.45	241		4.0	4.0
	E		13							
	SN		51		3.6					
CAZ	SN	20 31	06		1.5	4.15	216			5.2
MNG	PN	20 30	18 5		-2.1	4.32	224		4.1	4.3
	E		59 5							
	SN		31 08		-0.5					
ONE	(PN)	20 30	24		1.8	4.43	292			
	E		32							
WEL	SN	20 31	28		-1.2	5.17	223		4.8	4.6
	EL		33 30							
COB	SN	20 31	54		-1.3	6.26	234			
CRZ	PN	20 30	48		0.8	6.29	298			
	EP*		31 04		-3.0					
	ESN		53		-2.9					
CIZ	(PN)	20 31	01		3.1	7.08	156			
	E		10							
	SN		32 15		0.2					
KAI	E	20 32	31 5			7.89	229		4.5	
GPZ	SN		34 5		-2.4	8.00	218		5.1	
MJZ	EPN	20 31	26		-2.0	9.34	224			
	E		28							
	E		43							
	SN		33 06		-2.8					
MSZ	E	20 32	05			11.20	227			
	E		33 00							
	E		45							
	SN		50		-2.6					
MNW	E	20 34	20			12.04	223			
APR 18	H	M	S	31.84S	178.84E	329 KM	SE	3.5	AVG MAG	68/ 192
	09 28	32.8		0.15	0.24	25				5.3
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	09 30	04		2.2	5.85	182		5.1	5.0
	E		31 07							
	S		14		2.4					
KRP	EP?	09 29	53 5			6.65	203			
	P		30 16		4.7					
GNZ	P	09 30	08 5		-4.9	6.83	185			
	E		11							





APR 21														
H	M	S				68/114								
10 14		07.1	40.31S	173.92E	138 KM	SE	1.5	AVG MAG						
+ 0.6			0.03	0.04	8			3.6	3.9					
H	M	S	DIR	RES	DIST	AZ	W-A	W	P					
KAI	E	SN												
GPZ	E	SN		-0.4		12.34	210	5.0						
MJZ	E	SN		0.6										
MSZ	E	SN		-2.1		13.55	215							
MNW	E	SN		-0.9		15.30	218							
	E	ESN		-0.0										
	E					16.24	216							
APR 22														
H	M	S				68/117								
07 01		40.7	34.03S	179.24E	263 KM	SE	2.8	AVG MAG						
+ 2.6			0.13	0.16	26			3.6	4.3					
H	M	S	DIR	RES	DIST	AZ	W-A	W	P					
GBZ	E	EP		-0.9	4.37	234		3.6						
ONE	E	EP			4.37	245								
AUC	E	P?		3.3	4.61	231								
GNZ	E	EP		-0.9	4.71	192		4.4	4.6					
	E													
	E			0.9										
KRP	E	EP		1.7	4.91	217								
	E													
TUA	E				5.06	199		4.0	4.4					
CRZ	E	EP		1.6	5.45	264		3.8						
MNG	E	P		-3.0	7.22	203								

APR 22														
H	M	S				68/158								
21 52		51.3	44.41S	167.76E	12 KM	SE	1.5	AVG MAG						
+ 0.7			0.03	0.04	8			3.6	4.8					
H	M	S	DIR	RES	DIST	AZ	W-A	W	P					
WEL	S	P												
CIZ	E	ES		-1.7		10.43	163							
GPZ	E	ES		2.7		10.93	206	4.9						
MJZ	E	ES		-0.5		12.05	212							
MSZ	E	ES		-1.8		13.75	216							
	E	ES		-3.5										
	E	ES												
APR 22														
H	M	S				68/198								
21 52		51.3	44.41S	167.76E	12 KM	SE	1.5	AVG MAG						
+ 0.7			0.03	0.04	8			3.6	4.8					
H	M	S	DIR	RES	DIST	AZ	W-A	W	P					
MSZ	IP*		J	-1.1	0.28	156								
MNW	IP*		J	-0.6	1.37	184			5.1					
ROX	IP*		U	0.0	1.54	134			4.8	5.1				
MJZ	IP*		U	-0.9	2.00	79			4.7	4.7				
WPZ	IP*		U	-1.5	2.38	162								
KAI	IP*		U	-3.7	3.26	56			4.6					
GPZ	IP*		U	0.1	3.60	80			4.6					
COB	IP*		U	1.1										
WEL	IP*		U	1.2										
	IP*		U	-7.0*	6.03	61			4.7					
MNG	IP*		U	-0.1	6.85	99								
TNZ	IP*		U	-0.2	7.19	46								
GNZ	IP*		U	2.2	7.81	51								
KRP	IP*		U	2.4	8.74	45								
ONE	IP*		U		10.00	33			4.8					





CRZ	E	08								
	(PN)	21 55 26		6.1*	10.67	23				
	E	57 26								
APR 22	H M S	22 50 49.4	44.42S	167.76E	12 KM	SE	0.5			68/ 191
		+ - 1.2	0.06	0.07	R					
	H M S	22 50 54.8			DIR	RES	DIST	AZ	W-A	W P W S
MSZ	IP*	22 50 54.8			U	-0.4	0.28	156		
MNW	P*	22 51 14.0				0.1	1.37	184		
ROX	P*	22 51 17.0				0.3	1.53	134		
MJZ	E(P*)	22 51 24.5				-0.0	1.99	79		
A SMALL INTERFERING FORESHOCK.										
APR 22	H M S	22 50 50.9	44.38S	167.69E	12 KM	SE	2.0			68/ 190
		+ - 0.8	0.03	0.05	R					4.8
	H M S	22 50 56.5			DIR	RES	DIST	AZ	W-A	W P W S
MSZ	(P*)	22 50 56.5				-1.2	0.33	191		
MNW	IP*	22 51 15.9			U	-0.1	1.40	182		
	PG	18				-1.3				
	S*	38				3.3				
ROX	P*	22 51 19.0			U	-0.2	1.59	134	4.9	5.0
	SN	38.5				-0.2				
	S*	41				0.6				
MJZ	E(P*)	22 51 25.5				-1.3	2.03	80	4.9	4.7
	I	27								
	IPG	29.5				-2.6				
	E	38								
	S*	54				0.3				
WPZ	P*	22 51 31.5				-1.9	2.42	161		
	ES	52 04				-1.3				
KAI	EP*	22 51 46				-2.1	3.28	57	4.9	
	PG	56				-1.2				
	SG	52 34.5				-7.0*				
GPZ	(PN)	22 51 48				2.0	3.63	81	4.7	
	P*	55				0.8				
	ESN	52 34				6.2*				
	S*	44				2.2				
	SG	54				0.6				
COB	PN	22 52 04.8				0.9	4.96	50	4.9	4.8
	I	09								
	SN	53 01.5				1.7				
	SG	33				-5.1				
WEL	E	22 52 23					6.05	62	4.7	
	E	53 36								
	ESG	54 15				0.2				
	E	25								
MNG	EPN	22 52 30				0.4	6.87	60		
	I	35.8								
	E	53 56								
	E	54 04								
	ESG	43				0.5				
TNZ	E	22 52 42					7.20	46		
	P*	54				-1.3				
	E	53 58								
	S*	54 27				-2.0				
CNZ	E	22 52 50					7.62	51		
	E	54 41								
	ESG	53 18				3.5				
KRP	E(PN)	22 52 57.5				3.1	8.75	45		
	E	54 34								
ONE	E	22 53 18					9.99	33	4.8	
	E	53 02				2.6				
CRZ	(PN)	22 53 25				5.6*	10.65	23		
	ESN	53 14				-0.8				
	E	23								

APR 23	H M S	17 47 20	YEAR WAIRAKEI (41)	DIR	RES	DIST	AZ	W-A	W P W S	68/ 191
	WNZ	P	17 47 25.0							
	(S)		29							
FELT TAUPŌ (41) MM IV, TWO REPORTS										
APR 26	H M S	07 46 58.0	46.61S	164.94E	33 KM	SE	1.2			68/ 192
		+ - 1.1	0.03	0.06	R					4.1
	H M S	07 47 29.6			DIR	RES	DIST	AZ	W-A	W P W S
MNW	PN	07 47 29.6			D	-0.5	2.10	68	4.4	4.3
	I	30.9								
	E	48.5								
	E	54.5								
	SN	57				2.7				
WPZ	EPN	07 47 39				-0.2	2.76	93	4.1	4.4
	EP*	45				-1.6				
	SN	48 11				0.5				
MSZ	PN	07 47 40.5				-0.6	2.90	49	4.1	4.2
	E	41.7								
	E	48 06								
	SN	13				-0.8				
ROX	PN	07 47 47				0.2	3.32	72	3.9	4.0
	SN	48 24				-0.1				
	E	27								
MJZ	PN	07 48 05.5				-0.9	4.76	59	3.6	3.8
	E	14								
	SN	57.5				-1.4				
KAI	ESN	07 49 37				2.9*	6.22	51		
GPZ	SN	07 49 34.5				-0.1	6.24	65	4.2	
	E	56								
COB	EPN	07 48 51				1.9	7.94	49		
	SN	50 15.5				0.3				
MNG	PN	07 49 14				0.5	9.76	56		
APR 26	H M S	10 43 05.8	45.37S	167.20E	83 KM	SE	1.4			68/ 193
		+ - 1.1	0.04	0.07	R					4.6
	H M S	10 43 20.5			DIR	RES	DIST	AZ	W-A	W P W S
MNW	IP	10 43 20.5			D	0.2	0.51	144		4.8
	ES	29.5				-1.7				
MSZ	IP	10 43 25.0			U	1.1	0.87	36		
	ES	37				-0.5				
ROX	IP	10 43 33.2			D	1.2	1.50	95	4.9	4.9
	E	47								
	S	52.5				1.1				
WPZ	P	10 43 35.5			J	0.7	1.73	139	4.7	4.9
	S	56.5				0.2				
MJZ	IP	10 43 48.9			DS	0.5	2.71	61	4.5	4.7
	I	58.5								
	E	44 18.5								
	S	21				0.6				
KAI	E	10 44 15					4.16	48	4.3	
	S	59				2.8				
	E	45 00.5								
GPZ	P	10 44 09				-0.5	4.24	69	4.8	
	E	54								
	S	56				-2.1				
	E	45 02.5								
COB	P	10 44 32.5				0.4	5.89	45		4.3
	E	41								
	S	45 37				-1.9				
MNG	P	10 44 56				-1.3	7.71	55		
	I	45 04								
	ES	45 19				-4.7*				

TNZ		E	10 45 07			8.15	43					
		E	40									
		E	46 40									
		E	49									
KRP		EP	10 45 23			-1.4	9.71	43				
		E	35									
		S	47 13			0.5						
FELT MM IV AT AWARJA(154) AND MANAPOURI (139)												
APR 26	H M S		22 18 43.9	38.30S	177.73E	12 KM	SE	1.7	AVG MAG	68/ 114		
			+ - 1.0	0.04	0.04	R				3.6		
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	PG	22 19 51.7			-0.8	0.41	146				
		SG	19 00			1.8						
	TUA	IPG	22 19 57.2	D		-0.5	0.68	222	4.5	4.1		
		SG	19 07			0.0						
	KRP	EP*	22 19 15			-0.2	1.77	282				
		EPG	20			0.3						
		S*	39			0.3						
		SG	45			1.4						
	CNZ	P*	22 19 17.5			-0.4	1.93	242	3.7	3.4		
		I	20									
		PG	21.5			-1.3						
		S*	45			1.6						
	MNG	EP*	22 19 37			2.6	2.89	216	3.2	3.3		
		PG	41			-1.4						
		SN	20 02			-1.1						
		ES*	14			1.6						
	COB	EPN	22 19 51			-3.0	4.75	233	3.5	3.3		
		EP*	20 08			1.8						
		SN	45			-2.7						
		S*	21 04			-4.3*						
APR 28	H M S		03 46 13.5	38.21S	179.10W	33 KM	SE	1.4	AVG MAG	68/ 115		
			+ - 1.4	0.09	0.05	R				3.8		
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	EPN	03 46 48.5			0.2	2.30	258	3.8	3.9		
		SN	47 16			1.3						
		E	21									
	TUA	PN	03 46 58			0.0	3.00	257	3.9	4.0		
		SN	47 32.5			0.7						
	KRP	E	03 47 13				4.24	272				
		E	25									
		E	48 02									
	CNZ	EPN	03 47 16			0.3	4.30	255	3.5	3.3		
		E	23									
		ESN	48 05			1.6						
	MNG	PN	03 47 20			-3.0	4.84	239	3.3	3.3		
		E	48 02									
		E	09									
		ESN	16			-0.3						
	WEL	SN	03 48 34			-1.6	5.63	235	4.3	4.1		
	CIZ	(PN)	03 47 39			-0.3	6.05	162				
		E	48 44									
		SN	47			1.5						
	COB	E	03 48 04				6.92	243				
		SN	49 06			-0.5						
	MJZ	ESN	03 50 20			5.9*	9.76	230				
APR 29	H M S		04 43 14.5	30.76S	179.41E	554 KM	SE	1.9	AVG MAG	68/ 114		
			+ - 2.3	0.12	0.36	R				5.3		
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GBZ	P	04 44 57.5			0.2	6.36	210				
	CRZ	P	04 45 01.5			0.4	6.76	235				

GNZ	S	04 46 49	2.2	7.95	188						
TUA	E(P)	04 45 15	-0.6	8.24	192						
	ES	46 53	0.9								
MNG	P	04 45 34.2	-2.4	10.34	197						
	S	47 28	-2.5								
WEL	ES	04 47 44	-1.5	11.16	198	5.3					
COB	P	04 43 48	-1.7	11.64	206						
	E	47 59									
	S	04 48 39	1.6	13.99	201						
GPZ	S	04 45 26	2.7	14.98	206						
MJZ	P	04 45 39	0.3	16.57	210						
MSZ	P	04 45 49	0.4	17.59	208						
MNW	P	04 46 49									
APR 29	H M S		19 21 52.2	46.29S	167.30E	33 KM	SE	1.3	AVG MAG	68/ 197	
			+ - 0.9	0.04	0.05	R				4.1	
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IPN	19 22 02.0	D		-1.0	0.55	24	4.4	4.3	
		SN	08.5			-2.3					
	WPZ	PN	19 22 11.5	D		0.5	1.13	110	4.5	4.5	
		SN	25			0.0					
	ROX	IPN	19 22 17.2	D		-0.5	1.63	61	4.2	4.5	
		SN	36			-1.0					
	MSZ	PN	19 22 19.0	D		0.6	1.67	15	4.3		
		SN	39.5			1.4					
	MJZ	PN	19 22 39			-0.5	3.21	45	3.4	3.6	
		P*	49			0.6					
		SN	23 16			0.5					
		S*	30.5			-0.0					
	GPZ	EP*	19 23 17			5.0*	4.59	58	4.1		
		ESN	47			-2.1					
		S*	24 14			2.1					
	KA1	SN	19 23 55			1.5	4.77	39	3.8		
	COB	EPN	19 23 25.5			1.1	6.52	39			
		ESN	24 35.5			0.0					
	MNG	ESN	19 23 15			-1.0	8.21	49			
FELT MM IV AT EASTERV BUSH(139) AND TUATAPERE(148)											
APR 30	H M S		14 11 50.0	45.46S	167.34E	120 KM	SE	1.5	AVG MAG	68/ 198	
			+ - 1.2	0.05	0.07	R				4.0	
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IP	14 12 07.4	U		-0.1	0.38	149			
		S	18.2			-2.7					
	MSZ	IP	14 12 12.5	U		1.3	0.89	28	4.2	4.4	
		S	28			0.6					
	ROX	IP	14 12 18.9	D		2.2	1.39	92	4.3	4.2	
		IS	38.5			1.5					
	WPZ	IP	14 12 20.0	U		0.9	1.60	139	4.8	4.6	
		S	40.5			-0.6					
	MJZ	IP	14 12 33.5	DS		0.6	2.67	58	3.5	3.3	
		E	49								
		S	13 05.7			0.4					
	KA1	ES	14 13 41			0.5	4.15	46	3.7		
		E	47								
	GPZ	S	14 13 40			-1.3	4.18	67			
	COB	EP?	14 13 15.5			-0.4	5.88	44	3.6	3.7	
		E	17								
		S	14 21			-1.5					
	MNG	P	14 13 39			-1.4	7.68	54			
		E	15 04								
		E	07								
MAY 01	H M S		02 18 49.9	39.21S	175.28E	33 KM	SE	1.4	AVG MAG	68/ 199	
			+ - 0.4	0.03	0.04	R				4.0	



		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
KRP	PN	02	19	10.0	DS	-0.9	1.29	9					
	ESN			27		0.4							
MNG	IPN	02	19	12.7	U	0.1	1.42	174		4.1	3.3		
	ESN			29		-0.7				4.1	4.2		
TUA	EPN	02	19	11.5		-2.3	1.51	75		4.2	3.8		
	ESN			32		0.2				4.2	3.8		
WEL	EPN	02	19	24		1.9	2.11	191	3.8	4.1	4.3		
	ESN			46		-0.5				4.1	4.3		
GNZ	EP*?	02	19	30		1.0	2.21	76		3.9	4.0		
	ES*			59		0.7				3.9	4.0		
	E			20 05									
COB	EPN	02	19	29		-1.3	2.71	225		4.2	4.3		
	EP*			39		1.4				4.2	4.3		
	ESN			20 03		1.9							
KAI	ESN	02	20	41		-1.9	4.43	220	4.0				
GPZ	ESN	02	20	49		-5.4*	4.90	203	4.3				
MAY 02		H	M	S									
		04	15	47.9			39.12S	177.97E	12 KM	SE	1.9	AVG MAG	68/201
				- 1.4			0.03	0.08	R			3.4	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
GNZ	IP*	04	15	55.8		-1.3	0.47	5					
	ES*			15 04		0.2							
TUA	P*	04	15	00.0	D	-1.2	0.71	295		4.2	4.3		
	S*			08.7		-2.3							
CNZ	EPN	04	15	20.5		1.2	1.89	267		3.5	2.6		
KRP	PN	04	15	25.5		1.3	2.25	301		3.2	3.1		
	ESN			54		2.8							
MNG	EPG	04	15	36		-1.2	2.43	231		3.2			
	ESN			56		0.4							
MAY 02		H	M	S									
		10	56	58.9			38.46S	176.04E	12 KM	SE	2.0	AVG MAG	68/201
				+ 0.6			0.03	0.04	R			3.5	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
WNZ	PG	10	57	04.7	U	1.6	0.18	165					
	ESG			09		3.1							
KRP	IPG	10	57	13.1	UNW	0.5	0.67	323		3.3	3.3		
	ESG			22		0.3				3.3	2.8		
CNZ	EPG	10	57	18		2.0	0.84	208		3.3	2.8		
	E			46									
TUA	PG	10	57	16.7		-1.2	0.93	112		3.7	3.8		
	SG			30.3		-0.3							
GNZ	EPG	10	57	30		-0.6	1.56	97		4.1			
AUC	EPG	10	57	39		1.9	1.89	327					
MNG	EP*	10	57	37		-0.7	2.20	191		3.7			
	PG			41		-2.5							
GBZ	EPG	10	57	44		-1.1	2.28	348		3.2			
COB	EPG	10	59	10		-3.0	3.66	223					
FELT WAIRAKEI (41) M4 III													3.4
MAY 02		H	M	S									
		12	24	49.0			38.53S	175.90E	200 KM	SE	1.4	AVG MAG	68/201
				+ 1.2			0.03	0.05	R			4.4	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
KRP	IP	12	23	17.2	UNW	0.4	0.64	341		4.2	3.5		
	S			38		-0.3							
TUA	EP	12	23	20		0.4	1.09	105		4.1	4.6		
	E			37									
	ES			42		-1.3							
GNZ	P	12	23	26.2		0.9	1.75	94		4.7	5.0		
	E			46									
	ES			52		-1.3							
MNG	IP	12	23	30.8	U	1.9	2.10	187		4.9	4.1		
	ES			25 01		1.3							
WEL	P	12	23	39.2	UN	1.5	2.87	196	4.4	4.8	4.6		

## LOCAL EARTHQUAKES

COB	ES			25 16		0.7							
	EP			12 25 45		0.0	3.48	222		3.8	4.5		
	E			58.5									
	ES			25 29		0.8							
KAI	ES	12	27	05		-2.2	5.21	219	4.6				
	EP	12	25	12.5		-0.4	5.69	204	4.8				
GPZ	ES			27 16		-2.2							
MAY 03		H	M	S									
		01	31	23.3			41.34S	175.04E	33 KM	SE	0.5	AVG MAG	68/203
				- 0.3			0.02	0.02	R			3.7	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
WEL	IP*	01	31	30.0	DNW	0.2	0.21	286	3.8				
	ES*			34		-0.5							
MNG	IPN	01	31	37.8	U	0.3	0.80	25		4.0	4.2		
	ESN			48		0.0							
COB	PN	01	31	51.0		0.3	1.75	278		4.2	4.1		
	ESN			32 12		0.8							
CNZ	E	01	32	05.6			2.18	11		3.7	3.5		
	ES*			28		-2.7*							
GPZ	ESN	01	32	40		-0.1	2.94	216	3.5				
KAI	ESN	01	32	40		-0.4	2.95	245	3.5				
KRP	E	01	32	28			3.44	7		3.4	3.4		
	ES*			33 08		-0.5							
FELT AROUND WELLINGTON HARBOUR (68). MAX INTENSITY MM IV.													
MAY 03		H	M	S									
		18	27	26.3			37.17S	177.29E	216 KM	SE	1.5	AVG MAG	68/204
				+ 1.8			0.05	0.08	R			4.0	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
GNZ	IP	18	28	02.3	U	-0.0	1.58	159		4.5	4.7		
	E			23									
	ES			31.1		0.9							
KRP	EP	18	28	03		0.6	1.58	241		3.2			
TUA	P	18	28	01.8		-1.0	1.63	184		4.0	4.2		
	ES			29		-2.1							
CNZ	P	18	28	13.5		2.6	2.44	214		3.4	3.0		
	E			57									
ONE	ES	18	28	51		-0.5	2.74	300	3.7				
MNG	IP	18	28	25.4	U	-0.4	3.72	202		4.4	4.2		
	ES			27 13		1.2							
WEL	E	18	28	30.3			4.55	205	4.5	4.0	3.7		
	ES			29 31		0.8							
COB	P	18	28	44.6		-0.6	5.27	221		3.9	3.8		
	ES			29 47		0.4							
KAI	E	18	30	44			7.00	218	4.7				
GPZ	ES	18	30	34		-1.9	7.41	207	4.5				
MAY 03		H	M	S									
		18	37	45.1			47.29S	165.80E	33 KM	SE	1.5	AVG MAG	68/205
				+ 1.9			0.09	0.12	R			4.1	
		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
MNH	EPN	18	38	15		-0.3	1.96	40		4.5	4.3		
	EP*			22		1.9							
	ESN			37.5		-0.6							
	ES*			46		-0.1							
WPZ	EPN	18	38	18		-0.3	2.18	74		4.2	4.2		
	ESN			44.5		1.1							
ROX	EPN	18	38	29		-1.1	3.04	95		4.1	4.0		
	ESN			39 02		-2.3							
MJZ	E	18	38	58									

	H	M	S	DIR	RES	DIST	AZ	W-A	W P	M S	
MNG	IP*	22	57	49.2	U	1.1	0.10	334			
WEL	IP*	22	57	59.8	D	-0.6	0.82	225	3.6	4.1 4.3	
	ES*		58	12		0.4				3.7 3.7	
CNZ	P*	22	58	13.8	D	1.6	1.51	0			
	ESG			36.5		0.2				3.9 4.1	
COB	EPG	22	58	28		-1.0	2.16	259			
	E	20	04	37						3.9 4.1	
KRP	EP*	22	58	58.5		0.3					
	ESG	22	58	33		-1.0	2.78	360			
	ESG		59	18		-1.1				3.4 3.6	
MAY 04	H M S	04	11	32.2		45.23S	166.59E	33 KM	SE	1.7	AVG MAG 68/217
						0.05	0.10	R			4.4
MNW	IPN	04	11	47.0	D	-0.8	0.90	127	W-A	W P	M S
	ESN			57		-2.3				4.8	4.8
MSZ	EPN	04	11	49		-1.6	1.11	59		4.3	4.3
	EP*			51		-1.6					
ROX	EPN	04	12	02		-2.3					
	E			11		-0.1	1.94	98		4.6	4.4
	E			20							
	ESN			24.5		-0.1					
WPZ	EPN	04	12	06		1.5	2.12	133		4.4	4.6
	ESN			31		2.1					
MJZ	EPN	04	12	18		0.8	3.04	67		4.0	4.1
	ESN			52		0.6					
GPZ	E	04	12	45			4.60	72	4.4		
	ESN			13	30	0.6					
COB	EPN	04	12	59		0.1	6.12	49			
	ESN			14	09	3.1					
MAY 04	H M S	04	14	32.7		45.18S	166.84E	12 KM	SE	0.8	AVG MAG 68/258
						0.02	0.05	R			3.7
MNW	IP*	04	14	47.2	D	-0.5	0.81	138	W-A	W P	M S
	S*			59		0.3				4.3	4.0
MSZ	EP*	04	14	51		1.4	0.92	57		3.6	3.9
	ES*			13	02	-0.1					
ROX	EPN	04	15	02.5		-0.1	1.78	100		3.5	3.7
	EPG			12		3.3*					
	ESN			25		0.4					
MJZ	EP*	04	15	21.5		-1.2	2.86	67		3.3	3.3
	ESN			51		-0.1					
	ES*			16	00	-0.2					
MAY 04	H M S	07	08	33.2		38.02S	176.38E	12 KM	SE	1.9	AVG MAG 68/259
						0.05	0.04	R			4.0
KRP	EP*	07	08	48		2.3	0.67	278	W-A	W P	M S
	EPN			49		0.2				4.1	3.7
	E			52							
	ESN			09	03	2.8					
TUA	P*	07	08	50.6	D	-0.6	0.99	142		4.5	4.0
	ES*			09	06	1.3					
CNZ	E	07	09	08			1.34	209		3.4	
GNZ	EPN	07	08	57		-1.6	1.44	116		4.9	4.2
	ESG			09	23.5	1.8					
GBZ	EPN	07	09	03.5		-1.7	1.94	338		4.1	
	P*			06.5		-0.9					
	ESN			29		0.2					
MNG	EPG	07	09	26		-1.5	2.68	195		3.6	
COB	EP*	07	09	43		-2.4	4.16	221		3.7	

## LOCAL EARTHQUAKES

10 24											
INTERPRETATION DOUBTFUL											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	M S	
MAY 04	10	17	06.0			46.31S	165.45E	95 KM	SE	2.0	AVG MAG 68/210
						0.31	0.15	32			3.9
MNW	EP	10	17	33.2	DIR	RES	DIST	AZ	W-A	W P	M S
	ES			54		-0.7	1.60	71		4.3	4.1
	EP	10	17	46		-0.6					
	ES			19	20	1.7	2.39	47		3.8	3.8
MSZ	E	10	17	50		-0.4	2.83	74		4.0	3.8
	EP			19	25	1.3					
ROX	ES	10	18	57		-1.5	4.24	59			3.2
	ES										
MJZ											
MAY 04	H M S	21	37	51.8		38.15S	176.39E	170 KM	SE	0.8	AVG MAG 68/211
						0.03	0.03	4			4.2
KRP	IP	21	38	16.9	DE	0.2	0.71	289		4.1	3.7
	ES			35		-0.8					
TUA	P	21	38	18.1	U	0.3	0.89	136		5.0	4.6
	ES			38		0.2					
CNZ	P	21	38	22.4	U	1.7	1.23	212		3.6	3.6
	ES			43.5		0.6					
GNZ	IP	21	38	22	U	-0.0	1.38	111		5.0	4.8
	ES			45		-0.3					
AUC	IP	21	38	26.1	U	-0.4	1.82	315			
MNG	P	21	38	35.4		0.2	2.56	196		4.4	4.1
	E			39	01						
	ES			08		-0.6					
WEL	EP	21	38	45		-0.3	3.37	201	4.4	4.2	4.3
	ES			39	25	-1.4					
COB	EP	21	38	54		-0.2	4.07	223		3.4	3.8
	ES			39	43	0.7					
GPZ	ES	21	40	29		-3.9*	6.22	206	4.5		
MAY 05	H M S	09	05	56.1		39.29S	174.64E	226 KM	SE	1.3	AVG MAG 68/212
						0.03	0.05	7			5.6
CNZ	IP	09	05	28.0	D	0.8	0.71	83			
MNG	IP	09	05	33.2	U	1.0	1.47	154			
KRP	IP	09	05	32.1	D	-0.6	1.54	28		5.2	5.3
	ES			59		-2.0					
WEL	IP	09	05	38.2	USE	1.4	1.99	177	6.0	5.9	5.7
	ES			07	09.5	1.2					
TUA	IP	09	05	36.3	D	-0.7	2.02	77		5.5	5.8
	E			56							
COB	IP	09	05	41.9		1.9	2.31	219			
AUC	IP	09	05	41.0	U	-0.2	2.43	3			
GNZ	IP	09	05	43.3	D	-1.1	2.72	77		6.0	5.9
	E			07	12						
ONE	P	09	05	53.5		-0.1	3.52	356	5.1		
	ES			07	39.5	1.3					
KAI	EP	09	07	02		2.0	4.05	216	6.2		
	ES			49		-0.6					
GPZ	IP	09	07	06.4		-0.9	4.65	198			
	ES			08	00	-2.7					
CRZ	P	09	07	13.0	DSE	0.0	5.10	341		5.3	
MJZ	P	09	07	20.0		0.2	5.63	212		5.5	5.5
	E			08	19						
	ES			24		-1.0					
MSZ	IP	09	07	40.6	D	-1.0	7.34	221			
	ES			09	00	-4.1*					
CIZ	EP	09	07	52		1.1	8.07	128			
	E			58							





		ES	CS 29	-0.0							
MAY 06	H M S	35.11S	179.06W	225 KM	SE	0.7	AVG MAG	68/ 221			
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	17 37 09.7	0.03	0.04	7			5.4	5.1			
	+ - 0.6										
GNZ	EP	17 38 16		0.1	4.23	213					
	E	27									
	ES	39 07		-0.2							
GBZ	EP	17 38 19		-1.2	4.58	254					
	E	29									
TUA	P	17 38 22.9		0.3	4.78	218					
	ES	39 20		0.7			5.3	5.1			
KRP	P	17 38 27.2		-0.5	5.18	236					
	E	36.5									
	E	55									
ONE	EP	17 38 31		0.4	5.41	261		5.2			
	E	42									
CNZ	EP	17 38 37		-0.2	5.94	225		4.8	4.5		
	E	52									
	E	39 55									
CRZ	P	17 38 50.0		1.3	6.83	273					
	E	39 00									
MNG	EP	17 38 51		0.3	6.99	217					
	E	57									
	E	39 15									
	ES	40 10		0.3							
HEL	E	17 39 06			7.85	216		5.8			
	ES	40 29		-0.5							
	E	41 18									
COB	EP	17 39 13		-1.0	8.80	225					
	ES	40 51		-0.3							
CIZ	EP	17 39 22		4.9*	9.04	168					
	ES	40 57		0.1							
KA1	ES	17 41 30		-0.2	10.49	222		5.5			
GPZ	ES	17 41 36		0.8	10.71	214		5.5			
MAY 06	H M S	35.07S	179.08W	234 KM	SE	1.9	AVG MAG	68/ 222			
	18 12 54.4	0.10	0.10	24			4.5	4.5			
	+ - 1.7										
GNZ	EP	18 14 00		-1.2	4.26	212		4.6	4.6		
	ES	54		0.9							
GBZ	P	18 14 04.8		-0.3	4.58	254		4.0			
	E	12									
TUA	EP	18 14 07.5		-0.3	4.80	218		4.9	4.6		
	ES	15 06		1.0							
KRP	EP	18 14 12		-0.7	5.19	235		4.1	3.8		
	E	22									
	ES	15 13		-0.7							
MNG	EP	18 14 37		1.2	7.02	216					
	E	15 48									
HEL	ES	18 15 14		-0.8	7.87	216		5.3			
COB	EP	18 14 57		-1.9	8.82	225					
	ES	16 38		1.6							
CIZ	EP	18 15 06		3.7	9.09	168					
	E	16 40		-2.5							
	E	17 22									
MAY 06	H M S	35.18S	179.29W	235 KM	SE	1.8	AVG MAG	68/ 221			
	18 33 46.0	0.09	0.09	23			4.5	4.5			
	+ - 1.6										
GNZ	EP	18 34 50		-0.6	4.07	211		4.7	4.6		
	E	35 01									
	ES	42		1.3							
GBZ	EP	18 34 52.5		-1.8	4.38	255		4.0			

## LOCAL EARTHQUAKES

		59									
MAY 06	H M S	37.97S	176.13E	207 KM	SE	1.1	AVG MAG	68/ 222			
	19 14 07.5	0.04	0.04	7			4.2	4.2			
	+ - 0.9										
KRP	IP	19 14 35.7		0.2	0.47	275					
	ES	57.5		0.5							
TUA	EP	19 14 40		0.7	1.16	137			4.7	4.3	
	E	41.9									
	ES	13 04.5		0.6							
CNZ	P	19 14 41.9		1.4	1.31	200			3.9	3.5	
	E	15 13.5									
GNZ	IP	19 14 43.9		0.6	1.63	115			4.6	4.6	
	ES	15 10		-0.9							
GBZ	P	19 14 43.2		-1.9	1.82	343			3.7		
MNG	IP	19 14 54.8		0.2	2.69	191			4.6	4.4	
	E	15 25.5									
	ES	29.5		-1.4							
HEL	EP	19 15 04		0.2	3.48	197			4.3	4.0	
	E	41									
	ES	46		-1.2							
COB	EP	19 15 12		0.9	4.08	219			3.9	4.1	
	ES	16 00.5		0.2							
MAY 06	H M S	34.99S	178.89W	33 KM	SE	2.7	AVG MAG	68/ 223			
	19 56 03.9	0.14	0.12	R			4.4	4.4			
	+ - 2.5										
GNZ	EPN	19 57 08		0.4	4.41	213			4.3	4.6	
	E	15									
	ESN	55		-1.4							
GBZ	EPN	19 57 10		-2.2	4.75	253			3.8		
	E	18									
TUA	EPN	19 57 14		-1.0	4.96	219			4.4	4.4	
	E	24									
	ESN	58 14		4.3							
KRP	EPN	19 57 22		1.5	5.36	235			3.9		
MNG	EPN	19 57 45		0.2	7.17	217					
	ESN	59 06		3.2							
HEL	ESN	19 59 19		-4.3	8.03	217			5.2		
COB	ESN	19 59 45		-1.1	8.98	225					
CIZ	EPN	19 58 13		2.0	9.13	169					
	E	34									
	ESN	59 48		-1.7							
MAY 07	H M S	35.51S	179.37W	33 KM	SE	0.9	AVG MAG	68/ 224			
	10 31 21.9	0.05	0.05	R			4.2	4.2			
	+ - 0.8										
GNZ	EP	10 32 17		0.3	3.76	213			4.3		
TUA	EP	10 32 24		-0.2	4.31	219			4.4		
KRP	EP	10 32 29.5		-0.6	4.75	238			3.9		



MAY 08	H	M	S	47.23S	165.34E	33 KM	SE	2.0	AVG MAG	68/ 233			
	17	47	37.5	0.12	0.13	R	DIR	RES	DIST	AZ			
	+ 2.3												
MNW	EPN	17	48	10				-0.3	2.15	48	W-A	W P	M S
	ESN							-0.6					
WPZ	EPN	17	48	17				2.3	2.48	78			
	EP*			22				0.8					
	ESN			43.5				0.6					
HSZ	EPN	17	48	23.5				-0.4	3.14	36			
	E			28									
	ESN			49 03				3.8					
ROX	EPN	17	48	25				-0.7	3.28	59			
	E			30									
	ESN			49 01				-1.5					
HJZ	EPN	17	48	45				-2.2	4.85	50			
	E			49 06									
	E			18									
	ESN			39				-1.8					
MAY 09	H	M	S	33.47S	179.33W	376 KM	SE	1.9	AVG MAG	68/ 234			
	09	27	15.6	0.16	0.31	27	DIR	RES	DIST	AZ			
	+ 2.2												
GNZ	EP	09	28	45				1.6	5.59	202	W-A	W P	M S
	ES			29 51				-1.2					
AUC	EP	09	28	45				-1.7	5.89	233			
KRP	P	09	28	49.2				0.2	6.09	222			
GNZ	EP	09	29	01.0				1.0	7.05	214			
	ES			30 25				2.8					
MNG	IP	09	29	13.8				-0.1	8.25	209			
	E			30 38									
	ES			46.5				-0.7					
WEL	EP	09	29	23				-0.9	9.10	209	5.5		
	ES			31 03				-2.3					
GPZ	ES	09	32	08				1.3	11.98	209	5.3		
MAY 09	H	M	S	34.70S	178.54W	33 KM	SE	1.6	AVG MAG	68/ 235			
	09	31	28.9	0.06	0.08	R	DIR	RES	DIST	AZ			
	+ 1.3												
GNZ	PN	09	32	39.8				1.8	4.81	214	5.1		
	E			33 38									
GBZ	EPN	09	32	42				-0.0	5.11	251	4.2		
	E			48									
TUA	PN	09	32	46.8				1.3	5.36	219	5.1		
	ESN			33 46				1.6					
KRP	EPN	09	32	51				0.2	5.76	234	4.4		
	E			33 14									
AUC	E	09	33	03					5.84	246			
	E			21									
ONE	EPN	09	32	53				0.2	5.90	258	5.1		
	E			33 18									
GNZ	EPN	09	33	02.5				1.4	6.52	225			
	EP*			19				-2.8					
	E			34 19									
CRZ	EPN	09	33	11				0.1	7.24	270			
MNG	EPN	09	33	13				-2.2	7.57	217			
	E			20.8									
	P*			40.4				0.7					
	ESN			34 37				-0.4					
	ES*			35 20				1.8					
WEL	E	09	33	28					8.43	217	5.7		
	ESN			34 57				-0.9					
CIZ	E	09	33	44					9.37	171			
	ESN			35 20				-0.3					

## LOCAL EARTHQUAKES

MAY 08	H	M	S	27	-2.4	11.07	222	5.2					
	09	35	58	01	-4.2*	11.28	215	5.6					
KAI	E												
GPZ	ESN												
	ESN												
	H	M	S	38.55S	175.82E	178 KM	SE	0.9					
	12	57	12.5	0.04	0.04	8	DIR	RES					
	+ 1.1												
	H	M	S	12 57 39.5				1.4					
				22				0.67					
				43.5				0.68					
				28				341					
				49 03				1.4					
				28				-0.3					
				57.5				0.1					
				57.5				1.73					
				47				93					
				13				0.4					
				51.0				-0.4					
				01				0.5					
				20.2				2.07					
				59.0				187					
				35.5				0.4					
				36				-0.7					
								-0.6					
								-4.5*					
								5.66					
								204					
								4.6					
MAY 09	H	M	S	38.05S	176.03E	231 KM	SE	1.5	AVG MAG	68/ 234			
	21	44	53.9	0.05	0.07	9	DIR	RES	DIST	AZ			
	+ 1.5												
KRP	IP	21	45	23.9				-0.6	0.42	289	W-A	W P	M S
	ES			46.5				-1.6					
	EP			27.5				-0.6	1.15	131		4.4	4.4
TUA	EP	21	45	27.5				-0.6					
	ES			54				1.8	1.20	198		3.7	3.4
	IP			30.2				2.8					
GNZ	ES	21	45	33				0.9	1.67	111		4.4	4.6
	EP			46 01				-0.6					
	ES			42.3				1.1	2.59	189		4.2	4.3
	P			46 17				-0.8					
	ES			50				0.1	3.36	196		4.2	4.3
	EP			46 33				-0.3					
	ES			34				-1.6	6.19	203		4.8	
	ES												
MAY 10	H	M	S	33.17S	178.09W	33 KM	SE	3.1	AVG MAG	68/ 235			
	14	53	16.2	0.14	0.21	R	DIR	RES	DIST	AZ			
	+ 3.2												
GBZ	EPN	14	54	47				3.3	6.17	239	W-A	W P	M S
	E			54									
GNZ	PN	14	54	46.7				0.7	6.34	209			
	ESN			58				2.7					
	E			54									
TUA	EPN	14	54	52				-1.1	6.86	214			
	ESN			11.5				3.8					
	E			21									
AUC	EPN?	14	54	57				2.4	6.97	236			
	E			59 07									
KRP	EPN	14	54	54				-2.1	7.09	226			
	E			56 28									
CRZ	EPN	14	55	05.5				-0.9	7.86	258			
	EPN			18				-4.7	9.08	213			
	EP*			56				3.1					
	ESN			59				-1.8					
	E			57 58									
WEL	ESN	14	57	19.5				-1.6	9.94	213	5.6		
	E			53					10.83	174			
	ESN			43				1.1					
GPZ	SN	14	58	23				-4.9	12.80	212			
	SN												
MAY 10	H	M	S	41.02S	177.95E	33 KM	SE	1.2	AVG MAG	65/ 236			
	15	16	52.3	0.04	0.07	R	DIR	RES	DIST	AZ			
	+ 1.1												

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPN	15	17	15.6	U	-2.2	1.62	284		4.8	4.6
	E			26							
WEL	EPN	15	17	24.7		0.1	2.12	262	4.1	4.5	4.5
	EP*			31		1.1					
	ESN			49		-0.0					
TUA	E?	15	17	42			2.23	352		4.3	
CNZ	PN	15	17	29.0		0.7	2.38	319		4.6	4.4
	EP*			35		0.6					
	ESN			54		-1.5					
GNZ	ESN	15	17	55		-1.1	2.41	9			
KRP	EPN	15	17	44		0.9	3.46	333		3.9	4.0
	EP*			54		1.1					3.6
	ES*			13 39		0.7					
GPZ	ESN	15	18	47		-0.3	4.51	232	4.0		
KAI	ESN	15	18	50		-5.1*	4.83	250	3.8		
MAY 11	H M S	01	40	21.7							
				0.04		0.04	35.75S	179.19W	12 KM	SE	1.2
										AVG MAG	68/ 217
											4.6
ECZ	E(PG)	01	41	15		-0.5	2.66	222		5.0	4.7
	E			42 00							
GNZ	EPN	01	41	19		2.0	3.65	217		5.0	4.6
	EPG			35		-0.5					
	ESN			59		0.2					
	E			43 03							
	E			25							
TUA	EPN	01	41	26		1.2	4.22	223		5.2	4.8
	EP*			36.7		1.6					
	ESN			42 14		1.2					
GBZ	EPN	01	41	26		-0.4	4.34	262		3.9	3.4
	EP*			35.5		-1.6					
	ES*			42 34		0.1					
KRP	EPN	01	41	32		0.1	4.75	241		4.5	
AUC	EPN	01	41	36		0.9	4.99	255			
CNZ	EPN	01	41	41.5		0.7	5.42	229		4.5	4.0
	EP*			56		0.5					
	E			42 51							
	ES*			43 07		0.8					
MNG	EPN	01	41	53		-1.2	6.42	219			
	E			42 20							
	ESN			43 04		-1.5					
	E			44 51							
CRZ	PN	01	41	58.3		-0.9	6.79	279			
WEL	E	01	42	34			7.28	219	5.4		
	ESN			43 26		0.1					
	E			44 12							
CIZ	E	01	42	28			8.44	167			
	ESN			43 53		-0.6					
GPZ	ESN	01	44	31		-2.2	10.12	216	5.3		
MAY 11	H M S	14	53	03.0							
				0.03		0.03	40.47S	178.73E	33 KM	SE	1.4
										AVG MAG	68/ 218
											4.1
GNZ	EPN	14	53	31.7		-0.7	1.90	343		4.3	4.2
	ES*			54 03		0.9					
	E			47							
TUA	EPN	14	53	35		0.5	2.05	323		3.9	4.3
	ES*			54 04.5		-2.3					
MNG	EPN	14	53	41.5		1.2	2.48	265		3.9	4.0
	E			55							
	ESN			54 08		-0.5					
CNZ	EPN	14	53	46.5		2.4	2.75	296		4.1	4.0
	ESN			54 16		0.7					
WEL	EPN	14	53	50		1.0	3.11	253	4.5	4.0	4.8

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	E			54 05							
	ESN			24		0.0					
KRP	EP*	14	54	03		-2.0	3.55	315		3.3	3.2
	ESN			35		0.4					
CIZ	EPN	14	54	15		1.1	4.94	136		4.6	5.0
	ESN			55 07		-1.4					
GPZ	ESN	14	55	22		-1.3	5.56	233		3.6	
MAY 12	H M S	15	11	08.9							
				0.06		0.03	40.75S	177.42E	12 KM	SE	2.0
										AVG MAG	68/ 239
											4.7
MNG	IPN	15	11	35.8	U	1.0	1.48	275		5.1	
	P*			15 11 44.7		1.2	1.96	354		4.5	4.8
TUA	ESN			12 04		-1.0					
	ESG			16.5		1.5					
WEL	PN	15	11	45.0		2.3	2.07	254	4.5	4.8	5.0
	EPG			53		2.2					
	SN			12 06.5		-1.2					
	ES*			14		1.3					
	E			31							
CNZ	IPN	15	11	43.6	D	0.3	2.12	317		5.1	4.9
	ESN			12 05		-3.9					
KRP	EPN	15	11	58		0.1	3.18	332		4.4	4.2
	EP*			12 05		0.6					
	ES*			45		-1.2					
ECZ	EP*	15	12	05		0.6	3.19	16		4.4	4.4
	E			44							
	E			13 29							
AUC	EPN	15	12	16		1.6	4.40	331			
	EPG			37		-0.9					
	ESN			13 08		3.7					
	ESG			35		-2.3					
GPZ	E?	15	12	24			4.60	229	4.6		
	E			36.5							
	ESN			13 11		2.0					
KAI	E?	15	12	36			4.83	247	4.7		
	EPG			45		-1.6					
	ESN			13 13		-1.7					
CIZ	E	15	12	48.7			5.48	128		5.0	4.8
	ES*			13 54		-1.3					
MJZ	E	15	12	41			6.07	236			
	EP*			54		0.1					
	E			13 06							
	ESN			43		-1.4					
	ES*			14 16		3.0					
MSZ	EP*	15	13	23.5		-3.5	8.01	238			
	ESN			14 29		-1.5					
	FELT AT GLEBELANDS (54)										
MAY 15	H M S	02	56	00.4							
				0.13		0.07	38.83S	177.89E	33 KM	SE	2.0
										AVG MAG	68/ 240
											3.8
TUA	IPN	02	56	10.3	D	-1.3	0.58	274		4.7	4.7
	ESN			19		-0.8					
ECZ	EPN	02	56	21		0.0	1.26	24		4.0	4.0
	E			46.5							
CNZ	EP*	02	56	30.5		-3.1	1.86	258		3.9	3.7
	E			41.2							
	ESN			52		1.1					
	E			57 05							
KRP	EPN	02	56	33		0.9	2.07	296		3.4	3.3
	ES*			57 04.5		-0.1					
MNG	EPN	02	56	39		0.1	2.57	226		3.5	3.3
	E			53							
	E			57 43							



TNZ		EP*	02 55 52	3.1	2.76	262	3.4		3.4
H M S		34.24S 178.41W		33 KM	SE	2.0	AVG MAG		68/ 242
MAY 15		06 01 23.1	0.03 0.09	R	RES	DIST	AZ	W-A	W P W S
ECZ	EPN	06 02 26		DIR	1.5	4.24	215	4.9	4.7
TUA	EPN	06 02 44.8			-0.4	5.80	217	4.7	4.7
KRP	EPN	06 02 49			1.9	6.13	231		
AUC	EP*	06 03 08			-1.0	6.14	243		
CNZ	EPN	06 03 08.5			-1.4	6.14	243		
CRZ	EPN	06 03 08			-0.4	6.93	223		
TNZ	EPN	06 03 11			1.7	7.61	227		
CAZ	ESN	06 04 42			1.2	7.90	211		
MNG	EPN	06 03 12			-3.3	8.01	216		
HEL	ESN	06 04 59			-0.1	8.87	215	5.4	
CIZ	EPN	06 03 41			-3.6	9.81	172		
GPZ	ESN	06 05 03			1.8	11.73	214	5.4	
FELT IN AND AROUND GISBORNE, MAX INTENSITY MM V.									
H M S		38.98S 177.93E		33 KM	SE	1.9	AVG MAG		68/ 242
MAY 15		06 57 31.1	0.04 0.05	R	RES	DIST	AZ	W-A	W P W S
TUA	IPN	06 57 42.8		DIR	-0.2	0.64	286	5.2	5.4
ECZ	PN	06 57 51.4		D	-1.8	1.38	21	4.8	4.3
CNZ	PN	06 58 00.8			0.2	1.87	263	4.1	4.4
KRP	PN	06 58 04			0.1	2.16	299	3.9	4.2
CAZ	EPN	06 58 06			-0.2	2.32	214	4.4	5.2
MNG	PN	06 58 08.2		D	-0.4	2.50	228	4.1	4.4
AUC	EPN	06 58 22.5			3.3	3.27	309		
HEL	EPN	06 58 19.5			-0.7	3.34	226	4.9	4.4 4.9
GBZ	PN	06 58 18.4			0.3	3.38	324	4.3	
KAI	ESN	07 00 02.5			-2.3	6.09	232	5.3	
GPZ	ESN	06 59 22			-1.6	6.16	219	5.2	
CIZ	IPN	06 59 04.9		UNW	-2.9	6.46	142		
FELT IN AND AROUND GISBORNE, MAX INTENSITY MM V.									
H M S		37.39S 176.89E		235 KM	SE	1.4	AVG MAG		68/ 242
MAY 15		10 01 27.8	0.06 0.10	R	RES	DIST	AZ	W-A	W P W S
KRP	EP	10 02 02			-0.8	1.20	243	3.4	
ECZ	EP?	10 02 25			1.2	1.35	103	4.6	

TUA		EP	10 02 05	0.5	1.43	172	4.3		4.4
H M S		38.91S 175.87E		12 KM	SE	1.5	AVG MAG		68/ 244
MAY 15		11 33 52.8	0.03 0.06	R	RES	DIST	AZ	W-A	W P W S
AUC	EP	10 02 06			-1.8	1.77	287		
CNZ	IP	10 02 11.4		U	1.2	2.09	210	3.4	3.3
MNG	IP	10 02 24.5		U	0.0	3.41	198	4.8	4.0
CAZ	EP	10 02 27			0.9	3.55	188	4.3	4.3
HEL	EP	10 02 35			0.8	4.22	202	4.4	3.9 4.1
GPZ	ES	10 04 28			-2.0	7.08	206	4.9	
FELT AT WAITETOKO (40) MM III									
H M S		39.44S 174.99E		117 KM	SE	1.9	AVG MAG		68/ 245
MAY 16		02 38 19.3	0.04 0.05	R	RES	DIST	AZ	W-A	W P W S
CNZ	IP	02 38 38.0		U	0.9	0.50	61		
TNZ	EP	02 38 39			1.6	0.54	298	3.9	4.0
MNG	IP	02 38 44.9		U	0.9	1.23	162	4.4	4.4
KRP	EP	02 38 47			-1.7	1.57	16	3.2	3.5
CAZ	EP	02 38 54			-1.0	1.74	147	4.1	4.7
TUA	P	02 38 50.0			1.1	1.80	70	3.9	3.8
HEL	IP	02 38 51.6		U	-1.6	1.85	185	3.9	4.3 4.5
COB	P	02 38 58.5			0.3	2.38	226		
KAI	ES	02 40 06			-2.7	4.10	220	4.4	
GPZ	ES	02 40 15			-5.8	4.60	202	4.7	
FELT AT WAITETOKO (40) MM III									
H M S		38.29S 175.90E		189 KM	SE	1.0	AVG MAG		68/ 246
MAY 17		01 33 40.3	0.04 0.05	R	RES	DIST	AZ	W-A	W P W S
KRP	IP	01 34 05.2		D	-1.0	0.47	322		
CNZ	IP	01 34 09.9		U	1.1	0.95	197	3.7	3.6
TUA	P	01 34 09.3			-0.6	1.11	118		4.4
TNZ	EP	01 34 14.9			1.7	1.49	233	4.3	
MNG	IP	01 34 22.3		U	0.1	2.35	188	4.4	4.3
HEL	ES	01 35 10.5			-0.7	3.12	196		4.3
COB	EP	01 34 38.2			-0.6	3.71	220	4.1	4.0

MAY 17		H	M	S	41.07S	175.43E	12 KM	SE	0.8	AVG MAG	68/ 247
		+ 0.3		0.02		0.02				4.1	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
HNG	IP*	02	30	35	1	J	-0.4	0.45	5	4.0	3.7
WEL	IP*	02	30	36	9	J	-0.1	0.54	246	4.5	
	S*			45	2		0.6				
CAZ	S*	02	30	47	0		-0.1	0.63	75		
COB	EPN	02	30	59	4		-0.6	2.04	269		
	IP*			31	03	1	0.5			3.9	
	ISN			24	0		-0.7				
TNZ	EP*	02	31	02	1		-0.6	2.05	337		
	ES*			29	8		0.0				
KRP	EP*	02	31	22	9		1.4	3.14	2		
MAY 17		H	M	S	38.63S	176.93E	12 KM	SE	0.5	AVG MAG	68/ 248
		+ 0.2		0.02		0.01				3.5	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IPG	23	58	53	0	J	-0.3	0.24	133		
	SG			57	4		0.6				
GNZ	P*	23	59	03	6		-0.2	0.86	90	4.0	
GNZ	IPG	23	59	12	3		-0.3	1.21	242	3.6	3.1
	E			11	3						
	ESG			29	4		0.4				
KRP	EP*	23	59	11	8		0.2	1.31	303	3.2	
	PG			14	7		0.1				
HNG	E	23	59	26	0		-0.6	2.26	209		
	PG			33	3						
	E			31	2						
MAY 18		H	M	S	39.75S	174.15E	216 KM	SE	1.4	AVG MAG	68/ 249
		+ 0.7		0.03		0.06				4.4	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	P	03	16	59	5	D	0.5	0.59	17		
GNZ	IP	03	17	02	8	U	0.2	1.21	63	4.4	4.0
	S			27	4		-0.9				
HNG	IP	03	17	05	0	U	1.5	1.33	131	4.3	
	S			29	3		-0.6				
WEL	EP	03	17	07	6		1.8	1.60	163	4.0	4.3
	S			34	0		0.2				
COB	IP	03	17	08	7	J	1.8	1.72	219	4.7	4.3
	S			36	4		0.7				
KRP	EP	03	17	09	0		-1.8	2.12	31	3.7	
TUA	EP	03	17	15			0.0	2.51	69		
GNZ	EP	03	17	22	1		-0.8	3.20	71	4.8	
	E			57	1						
	ES			19	04	0	-0.2				
KAI	S	03	18	08	0		-1.6	3.46	216	4.4	
GPZ	EP	03	17	34	9		1.2	4.10	195	4.9	
	S			13	21	4	-2.0				
HJZ	EP	03	17	47	2		1.6	5.04	212		
MSZ	EP	03	18	07	4		0.0	6.75	221		
	S			19	22	0	-1.7				
MAY 19		H	M	S	35.35S	179.54E	100 KM	SE	1.4	AVG MAG	68/ 250
		+ 2.7		0.15		0.21				81	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	03	22	15	5		0.8	2.47	199	4.7	
GBZ	EP	03	22	27	0		-0.6	3.41	254		
	E			31	3						
GNZ	EP	03	22	27	5		-1.4	3.50	200	4.7	
	ES			23	09	3	-0.2				
TUA	EP	03	22	35	3		0.4	3.94	208	4.5	

## LOCAL EARTHQUAKES

MAY 19		H	M	S	38.35S	175.77E	222 KM	SE	0.9	AVG MAG	68/ 251
		+ 1.0		0.04		0.06				7	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	05	32	11	0	U	0.2	0.47	337		
	S			33	3		-0.4				
GNZ	IP	05	32	13	7	D	1.3	0.85	192	3.8	
GNZ	P	05	32	19	0		-0.6	1.79	100	4.6	4.5
	E			38	0						
	E			42	8						
HNG	IP	05	32	25	0	J	0.7	2.26	186	4.4	4.1
	S			57	1		-0.5				
WEL	P	05	32	33	0		0.4	3.02	194	4.3	4.1
	S			33	12	4	-0.1				
COB	EP	05	32	38	0		-1.3	3.59	220		4.0
	S			33	24	6	0.2				
MAY 19		H	M	S	38.75S	175.75E	147 KM	SE	0.9	AVG MAG	68/ 252
		+ 1.2		0.04		0.04				10	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	21	09	24	2	D	1.5	0.47	199		
KRP	IP	21	09	24	8	D	-0.2	0.84	349	3.8	
	ES			42	8		-0.2				
GNZ	IP	21	09	34	3	U	-0.1	1.78	87	4.3	4.1
	E			55	0						
	S			59	0		-0.6				
HNG	IP	21	09	36	0	U	0.5	1.88	186	4.2	4.2
	S			10	01	0	-0.4				
WEL	ES	21	10	18	8		0.5	2.64	196	3.9	4.3
COB	E	21	10	28	4		-1.0	3.29	224		3.9
	S			32	0						
MAY 19		H	M	S	39.80S	174.11E	138 KM	SE	0.5	AVG MAG	68/ 253
		+ 0.5		0.02		0.02				4	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	EP	22	39	04	1		-0.4	0.65	19	3.7	3.4
	ES			21	0		0.4				
GNZ	IP	22	39	09	5	J	-0.4	1.26	62	3.7	3.6
	S			30	4		0.2				
HNG	EP	22	39	10	7		0.0	1.33	128	4.5	3.9
	ES			31	0		-0.4				
WEL	EP	22	39	14	0		0.8	1.57	162	3.5	4.0
	ES			36	0		0.1				
COB	EP	22	39	14	2		-0.0	1.66	219	4.4	4.1
	S			37	5		-0.2				
MAY 20		H	M	S	37.07S	177.25E	234 KM	SE	0.7	AVG MAG	68/ 254
		+ 0.7		0.03		0.03				5	
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	05	33	13	0		0.3	1.21	121	4.7	4.9
	E			31	8						
	ES			39	5		-0.2				
KRP	EP	05	33	16	4		0.7	1.60	237	3.6	
	ES			45	8		0.8				
GBZ	IP	05	33	14	9	D	-1.3	1.66	301	4.3	
GNZ	IP	05	33	16	7	U	0.3	1.68	159	5.0	5.2
	I			36	4						
	I			42	8						
	ES			46	0		-0.2				
HNG	P	05	33	39	3		0.3	3.80	201	4.1	4.0
	S			34	25	9	-0.6				
WEL	EP	05	33	49	5		0.5	4.62	204		4.2



CUB		ES	34 44	-1.5								
H M S		39.23S 175.00E		1 KM	SE	1.7	AVG MAG		68/ 255			
H M S		07 35 08.3		0.02	0.04	4			4.1			
H M S		07 35 08.3		0.02	0.04	4			4.1			
CUB	S	05 35 00 0		-1.1	5.33	220						
HAY 20	H M S	07 35 08.3	39.23S 175.00E	1 KM	SE	1.7	AVG MAG		68/ 255			
	H M S	07 35 08.3	0.02 0.04	4					4.1			
	H M S	07 35 08.3	0.02 0.04	4					4.1			
CNZ	IPG	07 35 16 0		-1.2	0.43	97						
TNZ	IPG	07 35 20 5		1.2	0.48	275						
KRP	PN	07 35 31 1		-1.7	1.37	18						
	EPG	36 8		1.8								
	SN	48 6		-1.4								
HNG	EIPN	07 35 32 3		-1.5	1.44	165						
CAZ	P*	07 35 43 6		1.4	1.92	151						
	EPN	41 8		1.7								
	ESG	35 19 8		1.7								
CAZ	I	07 35 43 6			1.92	151						
	PG	45 6		-1.6								
WEL	EPN	07 35 42 2		1.2	2.06	185						
	EPG	49 8		-1.3								
	SN	36 08 0		1.0								
	S*	11 3		-1.7								
	SG	18 0		1.1								
AUC	PN	07 35 46 7		1.5	2.37	356						
	E	53 5										
	ESG	35 27 0		-1.2								
					2.43	77						
GNZ	PN	07 35 48 3		-1.4	2.54	222						
COB	P*	51 9		-1.0								
	ES*	35 25 5		-1.9								
ONE	EPN	07 35 03 1		1.8	3.48	351	4.3					
KAI	EP*	07 35 20 0		-2.5	4.27	218	4.4					
GPZ	SN	07 37 10 7		-3.6	4.80	201	4.5					
CRZ	EPN	07 35 26 2		2.6	5.13	338						
	SN	37 21 7		1.4								
MSZ	IPN	07 35 58 9		2.6	7.58	222						
FELT WESTERN AND CENTRAL NORTH ISLAND IN TARANAKI												
	H M S	07 49 21.3	38.54S 175.85E	15 KM	SE	0.5	AVG MAG		68/ 258			
	H M S	07 49 21.3	0.02 0.02	4					4.1			
	H M S	07 49 21.3	0.02 0.02	4					4.1			
KRP	IP	07 49 42 2		0.1	0.67	338						
	S	58 0		-1.1								
CNZ	IP	07 49 44 3		2.0	0.70	200						
GNZ	P	07 49 52 4		1.0	1.71	94						
	ES	50 16 3		1.2								
MNG	IP	07 49 57 6		0.6	2.09	188						
	ES	50 24 5		0.2								
ECZ	EP	07 49 59 0		-1.6	2.29	69						
WEL	S	07 50 41 5		-1.6	2.86	197	4.1					
COB	EP	07 50 15 7		1.3	3.49	222						
	E	16 4										
	ES	56 5		-1.2								
	H M S	14 30 09.7	40.85S 175.61E	12 KM	SE	1.0	AVG MAG		68/ 257			
	H M S	14 30 09.7	0.02 0.02	2					3.8			
	H M S	14 30 09.7	0.02 0.02	2					3.8			
MNG	IP*	14 30 13 0		-1.0	0.25	337						
CAZ	P*	14 30 16 8		-1.1	0.47	97						
	S*	26 0		1.4								
WEL	IP*	14 30 22 7		-1.3	0.77	235	3.5					
	ES*	33 3		-1.3								
GNZ	PH	14 30 36 2		-1.7	1.65	358						
	ES*	31 00 2		1.3								

## LOCAL EARTHQUAKES

TNZ	EP*	14 30 43 3		0.8	1.91	330						
COB	EPN	14 30 43 2		-1.0	2.19	263					3.8	3.9
	ESN	31 12 0		1.5								
	EP*	30 46 2		-1.1								
	EP*	31 17 2		1.0								
KRP	EP*	14 31 00 4		0.6	2.92	359					3.5	3.6
	ES*	37 9		-0.2								
	H M S	19 08 30.6	47.32S 165.95E	33 KM	SE	0.6	AVG MAG		68/ 258			
	H M S	19 08 30.6	0.03 0.07	12					4.0			
	H M S	19 08 30.6	0.03 0.07	12					4.0			
HNG	EPN	19 09 00 1		-0.4	1.92	37					4.2	4.2
	ESN	22 0		-0.8								
WPZ	EP*	19 09 08 3		0.3	2.09	73						4.0
MSZ	EPN	19 09 15 4		0.4	2.98	28					3.7	3.8
	P*	23 4		0.2								
	ESN	49 0		0.4								
FELT JACKSON BAY (113)												
	H M S	07 32 42.6	40.20S 174.44E	33 KM	SE	0.3	AVG MAG		68/ 259			
	H M S	07 32 42.6	0.01 0.01	12					3.5			
	H M S	07 32 42.6	0.01 0.01	12					3.5			
MNG	PN	07 32 58 0		-0.3	0.90	118					3.7	3.7
	SN	33 10 0		0.2								
TNZ	PN	07 32 59 3		-0.5	1.01	358						3.5
	SN	33 12 9		0.4								
	S*	16 7		1.2*								
WEL	ESN	07 33 15 0		0.1	1.11	167					3.2	3.4
CHZ	EPN	07 33 03 7		-0.2	1.32	41						3.7
	ESN	20 0		0.0								
COB	EPN	07 33 07 4		0.0	1.57	235						
	ESN	26 1		0.1								
KRP	EP*	07 33 25 9		0.3	2.43	21						3.6
	SN	46 9		-0.1								
	H M S	08 20 04.5	36.82S 177.27E	217 KM	SE	0.8	AVG MAG		68/ 250			
	H M S	08 20 04.5	0.04 0.07	12					4.1			
	H M S	08 20 04.5	0.04 0.07	12					4.1			
GBZ	P	08 20 40 5		0.0	1.56	292					4.0	4.4
GNZ	P	08 20 44 4		0.6	1.91	162						
	E	21 07 9										
	ES	13 8		-0.3								
MNG	EP	08 21 07 3		-0.7	4.04	200					4.1	4.0
	ES	57 0		-0.2								
WEL	ES	08 22 16		0.5	4.86	203						
	H M S	12 26 33.2	39.35S 177.45E	33 KM	SE	1.1	AVG MAG		68/ 251			
	H M S	12 26 33.2	0.04 0.05	12					4.2			
	H M S	12 26 33.2	0.04 0.05	12					4.2			
TUA	IPN	12 25 43 3		-0.9	0.57	336					5.1	4.8
	P*	45 0		0.2								
	ESN	51 0		-1.2								
GNZ	PH	12 25 47 9		0.3	0.81	33						4.3
	P*	49 3		0.3								
CNZ	EPN	12 25 58 3		1.5	1.48	274					4.3	4.0
HNG	EPN	12 27 03 4		-0.4	1.99	229						3.6
KRP	P*	12 27 11 1		1.5	2.05	312					3.6	
WEL	SN	12 27 47 6		0.2	2.84	225						3.9
COB	EPN	12 27 30 1		-1.4	4.02	243						
GPZ					5.66	218	4.3					
FELT WAIROA (53) HM IV												

MAY 21	H	M	S	40.705	176.15E	33 KM	SE 1.3	AVG MAG	68/ 252
	17	06	13.1	0.03	0.03	R		4.1	
			+ 0.5						
CAZ	IP*	17	05	19	8	D	0.2	0.21	164
	ES*			25	2		0.9		
MNG	IPN	17	05	22	9	D	-0.4	0.51	279
WEL	EPN	17	05	34	0		1.3	1.20	240
	P*			35	7		0.7		
	ES*			50	4		-0.9		
CNZ	IP*	17	05	41	5	J	0.2	1.57	343
	ES*			07	05		3.2*		
TNZ	P*	17	05	50	2		1.0	2.03	317
	S*			07	18		1.8		
TUA	EP*	17	05	47	0		-2.4	2.04	23
COB	EP*	17	05	59	0		-0.2	2.62	260
	ES*			07	32		-1.7		
KRP	P*	17	07	02	1		-0.4	2.81	350
	E			46	0				

MAY 21	H	M	S	40.325	173.81E	91 KM	SE 0.7	AVG MAG	68/ 252
	23	08	54.9	0.02	0.02	R		4.1	
			+ 0.5						
COB	IP	23	07	16	6	D	0.0	1.12	226
	E			26	3				
	S			32	7		-0.2		
WEL	IP	23	07	18	0	J	0.3	1.21	143
	S			34	0		-0.8		
TNZ	IP	23	07	18	8	J	1.0	1.21	21
	S			35	0		0.1		
MNG	IP	23	07	19	2	D	0.2	1.31	104
	S			37	3		0.3		
CNZ	EP	23	07	24	7		0.3	1.74	51
CAZ	P	23	07	27	2		0.4	1.93	108
KRP	P	23	07	37	3		-0.7	2.74	30
	S			10	09		-0.9		

MAY 22	H	M	S	39.075	175.25E	12 KM	SE 0.7	AVG MAG	68/ 254
	07	50	45.8	0.01	0.01	R		3.5	
			+ 0.2						
CNZ	IPG	07	50	51	0		-0.6	0.27	120
	SG			55	0		-0.5		
TNZ	EPG	07	51	00	1		0.3	0.69	260
	ES*			08	2		0.1		
	SN			11	9		-1.3		
KRP	IP*	07	51	07	2	D	0.4	1.16	11
	ES*			22	5		0.1		
MNG	EPN	07	51	13	2		0.4	1.56	173
	IP*			14	5		1.0		
	ESN			33	0		0.2		

MAY 22	H	M	S	37.035	178.23E	139 KM	SE 1.3	AVG MAG	68/ 255
	09	32	01.2	0.07	0.07	R		4.4	
			+ 1.5						
ECZ	IP	09	32	24	4	J	2.0	0.66	158
	I			25	9				
	S			37	4		-1.4		
GNZ	IP	09	32	31	1		0.0	1.57	186
TUA	IP	09	32	36	0	D	0.9	1.93	206
	I			36	9				
	S			33	06		4.9*		
KRP	IP	09	32	40	0	D	0.2	2.30	248
	S			33	10		0.7		

## LOCAL EARTHQUAKES

MAY 22	H	M	S	44.935	167.81E	79 KM	SE 1.0	AVG MAG	68/ 256
	11	27	45.6	0.05	0.08	R		3.8	
			+ 1.4						
HSZ	IP	11	27	58	4	J	0.3	0.27	16
	ES			23	07		0.1		
MNZ	IP	11	28	03	4	D	-0.1	0.87	189
	IS			16	2		-0.7		
ROX	E(P)	11	28	09			1.3	1.20	118
HJZ	EP	11	28	19	4		-0.4	2.12	65
	ES			44	4		-0.6		

MAY 23	H	M	S	38.375	175.96E	168 KM	SE 1.0	AVG MAG	68/ 257
	10	10	56.6	0.03	0.04	R		4.1	
			+ 0.8						
KRP	IP	10	11	20	9	D	0.5	0.56	323
	S			38	4		-0.3		
CNZ	IP	10	11	24	0		1.7	0.89	201
TUA	EP	10	11	23	6		0.2	1.03	115
	ES			44	0		-0.1		
GNZ	IP	10	11	29	7	J	0.5	1.64	100
	ES			53	7		-0.7		
GBZ	P	10	11	34	3	D	-1.0	2.19	350
MNG	IP	10	11	37	1	J	0.8	2.27	189
	S			12	07		0.6		
CAZ	S	10	12	12	4		-0.2	2.53	175
WEL	EP	10	11	45	7		-0.2	3.05	197
	S			12	22		-1.8		

MAY 23	H	M	S	38.915	175.29E	219 KM	SE 0.7	AVG MAG	68/ 258
	14	21	55.5	0.04	0.11	R		3.8	
			+ 1.4						
KRP	EP	14	22	27	0		-0.5	1.00	12
	ES			52	5		0.3		
MNG	P	14	22	33	6	J	0.5	1.72	175*
	S			23	01		-0.3		
GNZ	P	14	22	37	4	J	-0.0	2.16	84

MAY 23	H	M	S	41.775	172.01E	12 KM	SE 0.9	AVG MAG	68/ 259
	17	24	17.1	0.02	0.02	R		7.1	
			+ 0.2						
COB	IP*	17	24	32	3	J	-0.8	0.87	39
KAI	P*	17	24	34	0		0.8	0.88	211
GPZ	EIPN	17	24	49	4	S	-0.3	1.98	157
WEL	EIPN	17	24	52	3	J	0.6	2.13	78
	E			25	21				
HJZ	IPN	17	24	57	4	J	0.7	2.49	207
MNG	IPN	17	25	01	6	J	-0.3	2.86	67
TNZ	IPN	17	25	05	9	J	0.2	3.15	36
	E			09					
	E			30					
CAZ	EPN	17	25	07			-0.6	3.29	76
CNZ	EPN	17	25	14			0.6	3.72	48
HSZ	IPN	17	25	19	0	J	-0.4	4.17	225
	E			57					
ROX	EPN	17	25	20	5		0.8	4.19	207
MNZ	EP	17	25	23	5		0.5	4.43	46





H	M	S																
MAY 23	19 35	01.9	42.37S	171.74E	12 KM	SE	1.8	AVG MAG	68/ 293									
		+0.8	0.07	0.05	R				4.1									
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S						
	KAI	EPG	19 35	09			1.1	0.28	242									
	GPZ	EPN	19 35	28			0.3	1.46	153	3.6								
		ESN		47			0.2											
		E		35	03													
	WEL	EP*	19 35	48			1.9	2.52	65	4.0								
		ES*		35	18		-1.2											
	HNZ	EP*	19 35	58 5			-1.3	3.32	99	4.7								
	MSZ	EP*	19 35	06			1.5	3.59	229	3.9	4.0							
		ES*		49			-2.5											
MAY 23	19 46	27.0	41.91S	171.78E	12 KM	SE	1.6	AVG MAG	68/ 291									
		+0.7	0.04	0.05	R				4.1									
			INANGAHUA AFTERSHOCK I/ 024															
MAY 23	19 49	03.5	41.73S	171.94E	12 KM	SE	1.9	AVG MAG	68/ 297									
		+0.8	0.05	0.05	R				4.0									
			INANGAHUA AFTERSHOCK I/ 025															
MAY 23	19 54	41.6	41.81S	171.90E	12 KM	SE	1.9	AVG MAG	68/ 298									
		+1.0	0.05	0.06	R				4.2									
			INANGAHUA AFTERSHOCK I/ 029															
MAY 23	19 59	41.5	41.94S	171.88E	12 KM	SE	0.7	AVG MAG	68/ 295									
		+0.4	0.02	0.03	R				4.0									
			INANGAHUA AFTERSHOCK I/ 030															
MAY 23	20 04	14.4	41.77S	171.90E	12 KM	SE	2.2	AVG MAG	68/ 290									
		+0.6	0.04	0.05	R				4.5									
			INANGAHUA AFTERSHOCK I/ 031															
MAY 23	20 16	27.3	41.89S	171.56E	12 KM	SE	1.5	AVG MAG	68/ 291									
		+0.5	0.04	0.04	R				4.2									
			INANGAHUA AFTERSHOCK I/ 032															
MAY 23	20 20	11.4	41.82S	171.95E	12 KM	SE	1.7	AVG MAG	68/ 292									
		+0.7	0.05	0.05	R				4.5									
			INANGAHUA AFTERSHOCK I/ 033															
MAY 23	20 26	49.0	41.95S	171.55E	12 KM	SE	2.6	AVG MAG	68/ 293									
		+1.1	0.05	0.07	R				4.1									
			INANGAHUA AFTERSHOCK I/ 036															
MAY 23	20 42	21.0	41.93S	171.85E	12 KM	SE	2.5	AVG MAG	68/ 294									
		+0.9	0.05	0.07	R				4.0									
			INANGAHUA AFTERSHOCK I/ 041															
MAY 23	21 09	50.9	41.64S	171.88E	12 KM	SE	1.8	AVG MAG	68/ 295									
		+0.4	0.03	0.03	R				4.8									
			INANGAHUA AFTERSHOCK I/ 048. FELT															

H	M	S																
MAY 23	21 17	16.4	41.73S	171.96E	12 KM	SE	1.3	AVG MAG	68/ 296									
		+0.4	0.05	0.04	R				4.1									
			INANGAHUA AFTERSHOCK I/ 047															
MAY 23	21 32	56.6	41.92S	171.89E	12 KM	SE	1.6	AVG MAG	68/ 297									
		+0.5	0.04	0.05	R				4.0									
			INANGAHUA AFTERSHOCK I/ 052															
MAY 23	21 55	33.4	41.54S	172.25E	12 KM	SE	1.2	AVG MAG	68/ 298									
		+0.4	0.03	0.03	R				4.2									
			INANGAHUA AFTERSHOCK I/ 055															
MAY 23	21 56	45.4	36.27S	177.75E	33 KM	SE	2.2	AVG MAG	68/ 299									
		+2.8	0.15	0.13	R				4.2									
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S						
	CCZ	EP*7	21 57	15			1.6	1.56	156	4.0	4.3							
		ES*		34			-0.2											
		E		42														
	GBZ	E7	21 57	06			1.2	1.83	271	3.7	3.1							
		EPN		15			1.2											
		E		53														
	GNZ	PN	21 57	18 8	D		-2.4	2.38	175	4.8	4.7							
		E		43 5			2.1											
		ESN		50 5			2.1											
	AUC	E	21 57	24			0.0	2.46	255									
		ESN		50 5			0.0											
		E		58 25 5														
	TUA	E7	21 57	00			-2.2	2.57	190	4.2	4.4							
		ESN		51			-2.2											
MAY 23	21 58	48.2	41.82S	171.62E	12 KM	SE	1.3	AVG MAG	68/ 300									
		+0.6	0.04	0.04	R				4.3									
			INANGAHUA AFTERSHOCK I/ 057															
MAY 23	22 29	30.3	41.84S	171.86E	12 KM	SE	1.4	AVG MAG	68/ 301									
		+0.5	0.04	0.04	R				4.1									
			INANGAHUA AFTERSHOCK I/ 060															
MAY 23	22 36	18.1	41.92S	172.00E	12 KM	SE	1.2	AVG MAG	68/ 302									
		+0.4	0.02	0.03	R				4.6									
			INANGAHUA AFTERSHOCK I/ 063															
MAY 23	23 01	42.2	41.86S	171.84E	12 KM	SE	1.3	AVG MAG	68/ 303									
		+0.4	0.03	0.04	R				4.1									
			INANGAHUA AFTERSHOCK I/ 064															
MAY 23	23 03	25.5	41.77S	171.95E	12 KM	SE	1.8	AVG MAG	68/ 304									
		+0.6	0.04	0.05	R				4.9									
			INANGAHUA AFTERSHOCK I/ 065. FELT															
MAY 23	23 13	40.4	41.87S	171.90E	12 KM	SE	1.8	AVG MAG	68/ 305									
		+0.6	0.04	0.04	R				4.2									
			INANGAHUA AFTERSHOCK I/ 067. FELT															



	H	M	S															
MAY 23	23	42	38.5	41.74S	171.93E	12	KM	SE	1.5	AVG MAG	68/ 319							
			+0.6	0.04	0.04					R								
	INANGAHUA AFTERSHOCK I/ 070																	
MAY 23	23	48	24.1	41.63S	171.90E	12	KM	SE	1.0	AVG MAG	68/ 317							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 071																	
MAY 24	00	25	57.2	41.66S	171.87E	12	KM	SE	1.6	AVG MAG	68/ 318							
			+0.8	0.03	0.05					R								
	INANGAHUA AFTERSHOCK I/ 074. FELT																	
MAY 24	00	34	07.2	41.74S	171.78E	12	KM	SE	1.3	AVG MAG	68/ 316							
			+0.5	0.03	0.04					R								
	INANGAHUA AFTERSHOCK I/ 075																	
MAY 24	00	47	28.4	41.93S	171.86E	12	KM	SE	0.6	AVG MAG	68/ 315							
			+0.2	0.02	0.02					R								
	INANGAHUA AFTERSHOCK I/ 077																	
MAY 24	01	03	48.1	41.93S	171.82E	12	KM	SE	1.7	AVG MAG	68/ 311							
			+0.5	0.04	0.04					R								
	INANGAHUA AFTERSHOCK I/ 078																	
MAY 24	01	36	14.7	41.87S	171.81E	12	KM	SE	1.4	AVG MAG	68/ 312							
			+0.5	0.03	0.04					R								
	INANGAHUA AFTERSHOCK I/ 081																	
MAY 24	02	15	07.6	41.82S	171.94E	12	KM	SE	2.0	AVG MAG	68/ 313							
			+0.6	0.03	0.05					R								
	INANGAHUA AFTERSHOCK I/ 084																	
MAY 24	02	31	01.2	41.91S	171.73E	12	KM	SE	1.7	AVG MAG	68/ 314							
			+0.6	0.04	0.05					R								
	INANGAHUA AFTERSHOCK I/ 086																	
MAY 24	02	47	39.1	41.77S	171.95E	12	KM	SE	2.0	AVG MAG	68/ 319							
			+0.7	0.03	0.06					R								
	INANGAHUA AFTERSHOCK I/ 088																	
MAY 24	03	03	49.8	41.75S	171.98E	12	KM	SE	1.6	AVG MAG	68/ 311							
			+0.6	0.04	0.04					R								
	INANGAHUA AFTERSHOCK I/ 090																	
MAY 24	03	29	43.2	41.63S	171.88E	12	KM	SE	1.6	AVG MAG	68/ 310							
			+0.6	0.04	0.05					R								
	INANGAHUA AFTERSHOCK I/ 091																	
MAY 24	03	30	00.1	41.77S	171.81E	12	KM	SE	2.7	AVG MAG	68/ 310							
			+1.9	0.11	0.10					R								
	INANGAHUA AFTERSHOCK I/ 092. FELT																	

	H	M	S															
MAY 24	03	36	23.5	41.76S	171.84E	12	KM	SE	1.2	AVG MAG	68/ 319							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 093																	
MAY 24	04	04	39.2	42.06S	171.96E	12	KM	SE	1.1	AVG MAG	68/ 320							
			+0.3	0.02	0.03					R								
	INANGAHUA AFTERSHOCK I/ 095																	
MAY 24	04	29	35.3	41.76S	171.99E	12	KM	SE	1.9	AVG MAG	68/ 321							
			+0.6	0.04	0.05					R								
	INANGAHUA AFTERSHOCK I/ 097																	
MAY 24	04	59	27.3	42.04S	171.93E	12	KM	SE	1.3	AVG MAG	66/ 322							
			+0.4	0.04	0.04					R								
	INANGAHUA AFTERSHOCK I/ 099																	
MAY 24	05	45	10.6	41.81S	171.96E	12	KM	SE	1.2	AVG MAG	68/ 323							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 101																	
MAY 24	06	18	46.2	41.74S	171.85E	12	KM	SE	1.7	AVG MAG	68/ 324							
			+0.8	0.05	0.06					R								
	INANGAHUA AFTERSHOCK I/ 104																	
MAY 24	06	43	00.9	41.83S	171.84E	12	KM	SE	1.5	AVG MAG	68/ 325							
			+0.4	0.03	0.04					R								
	INANGAHUA AFTERSHOCK I/ 107																	
MAY 24	07	22	46.8	41.85S	172.04E	12	KM	SE	2.0	AVG MAG	68/ 326							
			+0.7	0.03	0.06					R								
	INANGAHUA AFTERSHOCK I/ 110																	
MAY 24	08	44	48.4	41.81S	171.64E	12	KM	SE	1.8	AVG MAG	68/ 327							
			+0.6	0.04	0.05					R								
	INANGAHUA AFTERSHOCK I/ 111																	
MAY 24	09	01	36.1	41.79S	171.92E	12	KM	SE	1.0	AVG MAG	68/ 328							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 112																	
MAY 24	10	24	10.9	41.74S	172.13E	12	KM	SE	1.7	AVG MAG	68/ 329							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 114																	
MAY 24	10	44	45.3	41.77S	171.79E	12	KM	SE	0.9	AVG MAG	68/ 330							
			+0.3	0.02	0.02					R								
	INANGAHUA AFTERSHOCK I/ 117																	
MAY 24	12	35	38.1	41.87S	171.89E	12	KM	SE	1.2	AVG MAG	68/ 331							
			+0.4	0.03	0.03					R								
	INANGAHUA AFTERSHOCK I/ 122																	

MAY 24		H	M	S														
	12 41	23.1	41.77S	171.92E	12 KM	SE	0.9	AVG MAG	68/ 332									
		+0.2	0.02	0.02	R				4.2									
INANGAHUA AFTERSHOCK I/ 123																		
	13 24	57.8	41.73S	171.99E	12 KM	SE	1.6	AVG MAG	68/ 333									
		+0.4	0.03	0.03	R				4.2									
INANGAHUA AFTERSHOCK I/ 125																		
	13 31	15.4	41.63S	171.85E	12 KM	SE	1.3	AVG MAG	68/ 334									
		+0.4	0.03	0.03	R				4.1									
INANGAHUA AFTERSHOCK I/ 126																		
	15 08	53.2	41.77S	172.04E	12 KM	SE	1.5	AVG MAG	68/ 335									
		+0.3	0.03	0.03	R				4.5									
INANGAHUA AFTERSHOCK I/ 130																		
	17 25	38.2	41.74S	171.97E	12 KM	SE	1.0	AVG MAG	68/ 336									
		+0.3	0.02	0.03	R				4.5									
INANGAHUA AFTERSHOCK I/ 132																		
	17 40	53.7	41.87S	171.91E	12 KM	SE	1.2	AVG MAG	68/ 337									
		+0.3	0.02	0.03	R				5.6									
INANGAHUA AFTERSHOCK I/ 133. FELT WESTLAND, AND PARTS OF NELSON AND MARLBOROUGH. MAXIMUM INTENSITY MM IV																		
	20 36	26.6	41.73S	171.75E	12 KM	SE	1.2	AVG MAG	68/ 338									
		+0.4	0.02	0.03	R				4.1									
INANGAHUA AFTERSHOCK I/ 139																		
	20 57	27.4	42.03S	171.81E	12 KM	SE	2.0	AVG MAG	68/ 339									
		+0.7	0.05	0.05	R				6.1									
	FLW	IP+	20 37	33.3		DIR	RES	DIST	AZ	W-A	H P	M S						
	KAI	EPG	20 57	39.7	X		-1.8	0.38	315									
	COB	EP+	20 57	46.0			0.3	0.58	211									
	WEL	IPN	20 58	04.8	U		-2.4	1.16	37									
		EP+	09.3				-0.0	2.33	73	6.0								
		ESN	35.5				1.1											
		EPN	43.5				2.8											
	MNG	IPN	20 58	14.5	U		-0.8	3.10	64									

## LOCAL EARTHQUAKES

	THZ	EPN	20 58	19.9						-0.4	3.44	35		6.0	5.1			
		E	59 07															
	HSZ	IPN	20 58	26.9						1.1	3.88	226						
	CRZ	EPN	20 59	16						U	0.1	7.61	5					
		ESN	21 00	41							1.4							
	CIZ	EPN	20 59	33							2.3	8.73	107					
		ESN	21 01	12.9							-3.8							
INANGAHUA AFTERSHOCK I/ 141																		
	21 23	00.0	41.90S	171.82E	12 KM	SE	1.8	AVG MAG	68/ 340									
		+0.5	0.04	0.03	R				4.0									
INANGAHUA AFTERSHOCK I/ 140																		
	21 37	35.0	41.66S	171.92E	12 KM	SE	1.8	AVG MAG	68/ 341									
		+0.5	0.03	0.04	R				4.4									
INANGAHUA AFTERSHOCK I/ 142																		
	23 51	53.4	41.99S	171.81E	12 KM	SE	1.6	AVG MAG	68/ 342									
		+0.4	0.02	0.03	R				4.0									
INANGAHUA AFTERSHOCK I/ 145. FELT																		
	02 10	58.2	41.97S	171.84E	12 KM	SE	1.6	AVG MAG	68/ 343									
		+0.4	0.03	0.03	R				4.9									
INANGAHUA AFTERSHOCK I/ 146. FELT																		
	04 42	23.3	36.94S	178.07E	33 KM	SE	1.5	AVG MAG	68/ 344									
		+1.0	0.04	0.05	R				4.2									
	EGZ	EPN	04 42	38		DIR	RES	DIST	AZ	W-A	H P	M S						
		ES+	56				-0.2	0.85	154		4.5	4.4						
	GNZ	EPN	04 42	49			1.5	1.71	181		4.3	4.4						
		ESN	43 11 5				1.5											
	TUA	E	04 42	53				2.01	201		4.3	4.3						
		ESH	43 20				2.7											
	GBZ	EPN	04 42	56				2.21	280		3.6	3.5						
		ES+	43 32				0.4											
	KRP	IPN	04 42	56 7		DSE		2.25	243		4.3	3.9						
		ES+	43 24				0.8											
	CNZ	PN	04 43	07 7				3.01	221		4.2	3.8						
		E	52															
	THZ	EPN	04 43	19				2.0	3.68	231	4.2							
		E	34															
	MNG	EPN	04 43	24				-0.1	4.20	208	4.3	4.0						
		E	30															
		E	34															
		ESN	44 10					-0.7										
		ES+	30					-1.3										
	WEL	E	04 43	41				5.05	210	4.7	4.3	4.4						
		ESH	44 29					-2.3										
FELT WHAKATANE (27), MHIV																		
	05 27	19.5	41.96S	171.92E	12 KM	SE	1.4	AVG MAG	68/ 345									
		+0.3	0.02	0.02	R				4.2									
INANGAHUA AFTERSHOCK I/ 150																		
	11 02	27.5	38.22S	176.28E	183 KM	SE	1.2	AVG MAG	68/ 346									
		+1.6	0.68	0.09	R				4.3									
	KRP	EP	11 02	53		DIR	RES	DIST	AZ	W-A	H P	M S						
		E	03 08				-0.5	0.66	296		4.2	3.8						



TUA	P	11 02 55	3	0.3	0.90	131	4.6	4.4	
GNZ	ES	11 03 00	5	-0.7	1.43	108	4.9	4.2	
ECZ	EP	11 03 02	25	-1.7	1.87	74	4.7	3.7	
GBZ	EP	11 03 07	36	0.0	2.10	342	4.1	3.7	
MNG	ES	11 03 27	5		2.48	194			
	E		33						
MAY 25	H M S	11 18 13.5					68/ 347		
		+0.4					5.1		
	H 1 S	41.75S	171.75E	12 KM	SE	1.3	AVG MAG		
	R	0.03	0.03						
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S	
FLW	IPG	11 18 19.5	D	1.0	0.22	273			
KAI	IP*	11 18 28.1	F	-0.2	0.90	198			
COB	IP*	11 18 31.9		0.0	1.00	48			
GPZ	EPN	11 18 44.5		-2.4	2.04	161			
	EP*			0.5					
WEL	EPN	11 18 51.5		0.8	2.32	79	4.8	4.9	
	EP*			0.8					
	ESN	19 20		1.6					
HJZ	EPN	11 18 51		-1.0	2.41	203	5.2		
	EP*			0.1					
	E	53							
MNG	EPN	11 19 00		-0.3	3.04	69	4.9		
	E	04							
	EPG	15		-0.1					
TNZ	EPN	11 19 04.5		0.9	3.27	39			
	EPG	19		-0.6					
	ES*	51		-2.3					
	ESG	20 04		0.4					
MSZ	EPN	11 19 13.5		-0.5	4.03	223	5.1	5.1	
	E	19							
	E	20 05							
CRZ	EPN	11 20 02		3.4					
	E	21 45							
CIZ	EPN	11 20 21		2.5	8.86	108			
	E	21 41							
	ESN	54		-1.3					
	INANGAHUA AFTERSHOCK I/ 159. FELT								
MAY 25	H M S	19 30 49.6					68/ 348		
		+0.5					4.1		
	H 1 S	41.75S	171.72E	12 KM	SE	1.2	AVG MAG		
	R	0.05	0.05						
	INANGAHUA AFTERSHOCK I/ 164								
MAY 25	H M S	20 58 32.1					68/ 349		
		+1.0					3.8		
	H 1 S	41.81S	171.79E	12 KM	SE	1.3	AVG MAG		
	R	0.05	0.06						
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S	
KAI	EP*	20 58 45	5	-0.8	0.77	201	3.9		
	ES*	55		-1.8					
GPZ	EPN	20 59 04	5	-0.3	1.99	162	3.8		
	EP*			0.8					
	ESN	29		0.1					
WEL	EP*	20 59 12		-0.5	2.30	78	3.6	4.2	
	ES*	43	3	0.5					
HJZ	EPN	20 59 10		-0.1	2.38	204	3.5	3.4	
	ES*	47		1.7					
MNG	EPN	20 59 19		-0.0	3.03	66	4.2	3.9	
	P*	27	1	2.1					
	ES*	21 00 03		-1.8					
	INANGAHUA AFTERSHOCK NOT LISTED IN BULLETIN E-147 FELT WESTPORT (79)								

## LOCAL EARTHQUAKES

MAY 25	H M S	41.63S	171.96E	12 KM	SE	1.0	AVG MAG	68/ 350	
		+0.3					4.0		
	H 1 S	0.03	0.03						
	INANGAHUA AFTERSHOCK I/ 165								
MAY 25	H M S	41.97S	171.90E	12 KM	SE	1.6	AVG MAG	68/ 351	
		+0.6					4.2		
	H 1 S	0.04	0.04						
	INANGAHUA AFTERSHOCK I/ 167								
MAY 25	H M S	41.92S	171.90E	12 KM	SE	1.4	AVG MAG	68/ 352	
		+0.4					5.5		
	H 1 S	0.03	0.03						
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S	
FLW	IPG	23 49 21.5	D	-0.9	0.31	302			
KAI	IP*	23 49 29.8	F	1.3	0.47	206			
COB	IP*	23 49 35.0	U	-0.5	1.08	40			
GPZ	EPN	23 49 46.3		-0.7	1.88	161			
	EPG			52					
	EPN	23 49 53		0.3	2.29	205		5.4	
HJZ	EP*			55					
	EP*			-1.1					
WEL	IPN	23 49 54.1	D	1.1	2.31	75	5.5	5.3	
	EP*			59					
	ESN	50 22		1.4					
	ES*	25		-1.9					
MNG	EPN	23 50 33.5		0.6	3.06	66			
	EP*			08					
	EPN	23 50 08		0.7	3.36	37	5.5	5.7	
	ES*			57.5					
	EPN	23 50 15.3		-1.0					
MSZ	IPN	23 50 15.3		0.1	3.95	225			
CRZ	EPN	23 51 05		2.1	7.51	6			
	ESN	52 24		-1.5					
CIZ	EPN	23 51 21		1.3	8.77	107			
	ESN	52 55		-0.6					
	INANGAHUA AFTERSHOCK I/ 169. FELT								
MAY 26	H M S	39.55S	176.87E	33 KM	SE	1.7	AVG MAG	68/ 353	
		+0.4					5.3		
	H 1 S	0.03	0.03						
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S	
TUA	IPN	01 10 57	3	D	-1.8	0.79	16	5.3	
	ESN	11 08			-1.4				
CHZ	IPN	01 11 03	8	J	-0.3	1.09	289		
HNZ	IPN	01 11 02	7	D	-0.8	1.11	327	6.1	
GNZ	IPN	01 11 05	9	J	0.0	1.28	45	5.5	
	EP*			09				5.4	
	E	34							
CAZ	IPN	01 11 09	6	J	1.8	1.43	200	5.4	
	E	17 5							
	E	41							
MNG	IPN	01 11 09	1	J	0.3	1.50	225		
KRP	IPN	01 11 13	8	DSE	-1.2	1.94	327	5.0	
	ES*	42			-3.4			4.9	
TNZ	EIPN	01 11 16	1		0.8	1.97	280	5.4	
	ES*	48			1.8			5.2	
ECZ	EPN	01 11 20			0.4	2.28	36	5.4	
	EP*				4.1			5.1	
	E	12 14	5						
WEL	IPN	01 11 19	6	J	-1.0	2.35	222	4.9	
	EP*				1.3			5.4	
	ESN	49			1.5			5.3	
AUG	IPN	01 11 32			0.3	3.16	328		
	E	46							
	E	58							
GBZ	EPN	01 11 40			3.5	3.52	341	4.6	
	E	12 00							

ONE	EPH	01 11 49	2.1	4.27	331	4.6			
	E	13 06							
KAI	EP+	01 12 10	-3.3	5.08	233	5.3			
	E	28 5							
	E	13 12							
	E	34							
GPZ	EPH	01 12 00	0.5	5.20	216	5.4			
	ESH	55	-1.8						
CRZ	EPH	01 12 14	2.1	6.12	325				
HJZ	EPH	01 12 16	-1.2	6.52	225				
	ESH	13 27	-1.3						
GIZ	EPH	01 12 20	2.0	6.58	134				
	ESH	13 28	-1.8						
MNW	E	01 13 03		9.22	225				
	ESH	14 33	0.1						

FELT EXTENSIVELY IN NORTH ISLAND. MAX INTENSITY MM V IN HAWKES BAY

MAY 26 H H S 01 21 28.5 41.73S 171.96E 12 KM SE 1.3 AVG MAG 68/354  
 +0.4 0.03 0.02 R  
 INANGAHUA AFTERSHOCK I/ 170

MAY 26 H H S 01 30 37.8 44.97S 167.71E 105 KM SE 2.1 AVG MAG 68/355  
 +2.7 0.09 0.13 28  
 W-A W P W S

	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	P	01	30	53	1	-0.3	0.33	26		
MNW	IP	01	30	55	9	-1.1	0.82	185	4.5	4.2
	S					-3.4				
ROX	ES	01	31	19		-1.0	1.25	115		3.6
HPZ	EP	01	31	09	D	-0.4	1.87	155	3.6	3.4
	ES					0.0				
HJZ	EP	01	31	12	5	-1.3	2.20	65	2.9	3.3
	ES					-1.2				
GPZ	E	01	32	10			3.76	72	3.6	

MSZ CLOCK-RATE HIGH AND IRREGULAR.

MAY 26 H H S 02 50 56.0 41.71S 171.98E 12 KM SE 1.1 AVG MAG 68/356  
 +0.3 0.02 0.02 R  
 INANGAHUA AFTERSHOCK I/ 171

MAY 26 H H S 03 20 06.7 41.85S 171.83E 12 KM SE 1.2 AVG MAG 68/357  
 +0.3 0.02 0.02 R  
 INANGAHUA AFTERSHOCK I/ 172

MAY 26 H H S 04 29 09.9 41.82S 171.87E 9 KM SE 1.4 AVG MAG 68/358  
 +0.3 0.02 0.03 3  
 INANGAHUA AFTERSHOCK I/ 175

MAY 26 H H S 11 16 27.2 41.77S 171.92E 14 KM SE 1.1 AVG MAG 68/359  
 +0.3 0.02 0.02 2  
 INANGAHUA AFTERSHOCK I/ 215

MAY 26 H H S 14 21 28.4 38.53S 175.39E 136 KM SE 1.3 AVG MAG 68/361  
 +1.1 0.04 0.05 10  
 W-A W P W S

	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	14	21	51	0	1.6	0.66	335	3.8	3.5
	E									
	ES					0.4				
TUA	P	14	21	53	8	1.5	1.02	106	4.4	4.1
	ES					-0.7				

GNZ	EP	14 21 59	-0.3	1.67	95	4.6	4.0		
	E	22 21 3							
	ES	23	0.1						
AUC	E	14 22 09		1.89	332				
	E	18							
	E	35							
MNG	ES	14 22 31	-1.0	2.11	188		3.7		
ECZ	EP	14 22 06	-0.3	2.25	69		4.4		
GBZ	EP	14 22 08	0.7	2.33	352		3.8	3.5	
	ES	35	-2.0						

FELT HUNTERVILLE (56) MM IV

MAY 26 H H S 20 37 37.6 41.69S 171.91E 11 KM SE 2.0 AVG MAG 68/361  
 +0.6 0.05 0.04 5  
 INANGAHUA AFTERSHOCK I/ 250

MAY 26 H H S 23 23 20.7 42.01S 171.87E 10 KM SE 0.7 AVG MAG 68/362  
 +0.2 0.02 0.02 4  
 INANGAHUA AFTERSHOCK I/ 257. FELT

MAY 26 H H S 07 01 49.2 38.23S 176.09E 168 KM SE 1.3 AVG MAG 68/363  
 +0.9 0.04 0.04 8  
 W-A W P W S

	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	07	02	12	9	0.0	0.53	305	3.8	3.5
	S					-0.3				
TUA	EP	07	02	16		0.1	1.01	125	5.0	4.7
	ES					-1.5				
CNZ	EP	07	02	19		2.7	1.06	204	3.6	3.7
	E					4.5				
GNZ	P	07	02	21	5	0.4	1.57	106	5.1	4.8
	ES					0.2				
TNZ	P	07	02	24	1	2.2	1.65	234	3.8	3.5
	ES					5.2				
ECZ	P	07	02	25	7	-0.2	2.01	75	5.0	4.6
	ES					0.8				
GBZ	P	07	02	24	8	-1.7	2.07	346	4.3	
MNG	IP	07	02	31	1	0.2	2.43	191	4.6	4.7
	ES					-0.9				
NEL	P	07	02	39	6	-1.1	3.22	198	4.5	4.1
	ES					-0.2				
COB	EP	07	02	48		-0.8	3.86	221	3.9	4.3
	E					0.3				

MAY 26 H H S 15 41 26.8 41.85S 171.91E 15 KM SE 0.9 AVG MAG 68/364  
 +0.3 0.02 0.02 2  
 INANGAHUA AFTERSHOCK I/ 355. FELT

MAY 26 H H S 23 23 22.6 41.89S 171.73E 12 KM SE 0.9 AVG MAG 68/365  
 +0.2 0.01 0.02 2  
 INANGAHUA AFTERSHOCK I/ 367. FELT

MAY 26 H H S 23 26 41.0 41.88S 171.72E 13 KM SE 1.5 AVG MAG 68/366  
 +0.4 0.02 0.03 4  
 INANGAHUA AFTERSHOCK I/ 368. FELT

MAY 29 H H S 05 56 19.7 41.76S 171.95E 10 KM SE 1.7 AVG MAG 68/367  
 +0.6 0.04 0.04 6  
 INANGAHUA AFTERSHOCK I/ 381





KRP	EP	02 42 45	0.8	1.95	230	3.5													
	E	43 31																	
GNZ	IP	02 42 43 1	U	-1.7	2.01	167	4.5	4.6											
	ES	43 12		-3.2															
TUA	E	02 42 58			2.13	186	4.3	4.4											
	E	43 11																	
	E	24																	
CNZ	EP	02 42 58		3.1	2.91	210	3.6	3.5											
	E	43 39 5																	
MNG	EP	02 43 10		-0.6	4.21	201	4.0	4.1											
	ES	58		-3.1															
WEL	ES	02 44 21		1.2	5.04	203	4.6												
COB	ES	02 44 37		1.6	5.72	218													

MAY 31 H M S 04 32 51.5 41.73S 172.00E 11 KM SE 1.0 AVG MAG 68/ 315  
 +0.4 0.03 0.03 4  
 INANGAHUA AFTERSHOCK I/ 469

MAY 31 H M S 10 40 20.4 37.77S 177.54E 33 KM SE 2.1 AVG MAG 68/ 344  
 +0.8 0.04 0.05 4

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IPN	10 40	35	5	D	0.8	0.80	85	5.2	4.9	
	ESN	51				5.8*					
GNZ	IPN	10 40	36	7	D	-0.0	0.95	156	4.9	4.8	
	ESN	50	5			1.7					
TUA	PN	10 40	38	3		-0.2	1.08	196	4.6	5.0	
	E	45									
	ESN	56				4.1					
KRP	IPN	10 40	46	0	DNE	0.5	1.59	264	3.8	3.6	
	ESN	41	04	5		0.1					
CNZ	PN	10 40	53	2		0.5	2.11	227	4.3	4.1	
	E	54	3								
	ESN	41	20			3.0					
GBZ	IPN	10 40	55	2	D	0.5	2.26	313	4.2	3.9	
	ESN	41	21			0.3					
TNZ	EPN	10 41	06			3.2	2.85	239	4.2		
	E	42	08								
ONE	E	10 41	50				3.24	307	3.8		
MNG	EPN	10 41	06			-2.4	3.26	209	4.4	4.5	
	EP*	15	5			-2.0					
	ESN	45				-0.0					
	ES*	42	00			-0.3					
CAZ	EPN	10 41	07			-1.8	3.29	198	4.5	4.4	
	E	11									
	ESN	48				2.3					
WEL	EPN	10 41	17			-3.0	4.11	211	4.6	4.5	4.5
	P*	29	7			-2.3					
	ESN	42	03			-2.7					
	ES*	24				-1.8					
COB	EPN	10 41	30			-1.8	4.98	227	4.6	4.4	
	ESN	42	28			1.3					

MAY 31 H M S 14 39 12.5 41.76S 172.00E 8 KM SE 1.2 AVG MAG 68/ 317  
 +0.4 0.03 0.02 5  
 INANGAHUA AFTERSHOCK I/ 480

MAY 31 H M S 15 23 18.8 38.36S 175.90E 184 KM SE 0.8 AVG MAG 68/ 318  
 +0.8 0.03 0.03 6

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	15 23	44			-0.3	0.52	327	3.5	3.2	
	S	24	03.7			-0.2					
CNZ	IP	15 23	47 9	U		1.7	0.88	198	3.8	3.2	
	E	24	15								

TUA	EP	15 23 48	0.3	1.08	115	4.1	4.2				
	ES	24 10	-0.0								
GNZ	EP	15 23 53	-0.2	1.69	100	3.9	4.0				
	E	24 12									
	E	19	-0.8								
ECZ	EP	15 23 58	-0.6	2.19	73	4.6	4.3				
	ES	24 30	0.6								
MNG	IP	15 23 59 9	U	0.3	2.28	188	4.0	4.2			
	ES	24 31	0.0								
CAZ	E	15 24 37				2.55	174				4.3
WEL	ES	15 24 45	-2.3*	3.05	196	4.2	4.4				
COB	ES	15 25 00	-0.8	3.66	221		3.9				

JUN 01 H M S 00 20 53.2 41.83S 171.99E 13 KM SE 1.5 AVG MAG 68/ 399  
 +0.4 0.02 0.02 4  
 INANGAHUA AFTERSHOCK I/ 490

JUN 01 H M S 00 33 55.9 41.85S 171.96E 12 KM SE 1.2 AVG MAG 68/ 390  
 +0.3 0.02 0.02 3  
 INANGAHUA AFTERSHOCK I/ 492

JUN 01 H M S 02 41 31.3 38.37S 175.76E 191 KM SE 1.3 AVG MAG 68/ 391  
 +0.8 0.04 0.04 6

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	02 41	57	3		-0.1	0.48	338			
	ES	42	16			-1.6					
CNZ	IP	02 42	00	7	D	1.4	0.85	191	4.6	4.3	
	ES	23				2.0					
TUA	EP	02 42	03			1.4	1.17	112	4.6	4.8	
	ES	25				-0.1					
TNZ	P	02 42	05	1	U	1.9	1.36	232	4.9	3.6	
	E	33									
GNZ	EP	02 42	08			0.7	1.79	100	4.6	4.9	
	E	31	5								
GBZ	EP	02 42	10			-1.2	2.16	354	4.3		
MNG	IP	02 42	13	1	U	0.8	2.26	185	4.8	4.9	
	ES	42				-1.9					
ECZ	P	02 42	12	4		-0.3	2.30	74	4.8	4.7	
	ES	44				-0.7					
CAZ	EP	02 42	16			0.1	2.56	172	4.5	5.2	
	ES	50				-0.2					
WEL	EP	02 42	21			-0.2	3.01	194	5.0	4.5	5.1
	ES	58				-1.7					
COB	EP	02 42	28			-0.2	3.58	220	4.6	4.8	
	ES	43	12			-0.1					

JUN 01 H M S 08 42 15.1 31.70S 176.14W 381 KM SE 1.9 AVG MAG 68/ 392  
 +2.5 0.25 0.42 28

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	08 44	06			2.3	7.41	215			
	ES	45	30			0.7					
GBZ	EP	08 44	12			-1.9	8.29	235			
GNZ	EP	08 44	14			-1.4	8.41	213			
	E	45	43								
TUA	ES	08 45	01			-0.9	8.96	216			
KRP	EP	08 44	27			2.0	9.24	225			
MNG	EP	08 44	47			-0.9	11.18	215			
	ES	45	49			-0.1					
WEL	ES	08 47	06			-1.3	12.03	215	5.7		
COB	ES	08 47	28			1.6	12.95	221			



H M S		33.93S 177.93W		568 KM		SE 1.1		AVG MAG 68/ 371	
09 19 06.7		0.83 1.02		20				4.6	
+ - 2.0									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
GNZ	EP	09 20 44	-0.4	5.71	214		4.6	4.7	
	ES	22 01	-0.8						
TUA	ES	09 22 11	0.2	6.27	218				
MNG	P	09 21 10 9	0.6	8.48	216				
	ES	22 50	0.9						
MSZ	E	09 22 26		15.30	221				
	ES	24 52	-0.5						

H M S		39.23S 174.72E		33 KM		SE 1.4		AVG MAG 68/ 374	
12 07 26.8		0.02 0.03		R				4.9	
+ - 0.3									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TNZ	IP*	12 07 33 1	-0.9	0.27	279				
	ES*	37 5	-1.6						
CNZ	PN	12 07 36 0	-2.9	0.64	88				
KRP	PN	12 07 48 7	-1.3	1.45	26	5.0	5.1		
MNG	IPN	12 07 49 2	-1.5	1.51	157				
TUA	PN	12 07 57 7	1.0	1.94	78	4.7			
CAZ	EPN	12 07 59	1.0	2.03	146	5.5	5.3		
	EP*	09 02	-1.0						
	ES*	32	2.1						
WEL	PN	12 07 57 9	-0.4	2.05	179	4.9	5.3	5.4	
	ESN	09 23 5	1.5						
COB	PN	12 09 02 0	-1.0	2.40	219	5.0	5.1		
	EP*	09	-0.2						
	ESN	32	1.6						
GNZ	EPN	12 09 06	-0.3	2.64	78	4.5	4.5		
	E	22							
GBZ	EPN	12 09 11	-1.2	3.07	12	4.9	4.5		
	EP*	22	1.4						
	ESN	47	0.3						
ECZ	PN	12 03 17 3	1.0	3.37	64	4.6	4.7		
ONE	EPN	12 03 18	0.5	3.46	355				
	ESN	57	0.7						
CRZ	EPN	12 03 41	1.7	5.06	341	4.4	4.3		
	ESN	09 36	0.9						
CIZ	EPN	12 09 18	-1.6	8.06	129				
	ESN	10 40	-6.9*						

H M S		39.30S 174.86E		33 KM		SE 1.3		AVG MAG 68/ 375	
18 51 31.6		0.02 0.03		R				4.4	
+ - 0.3									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TNZ	IPN	18 51 38 6	-1.9	0.39	287				
	ESN	46 5	-0.3						
CNZ	PN	18 51 41 7	-0.6	0.54	79				
MNG	IPN	18 51 54 8	0.8	1.40	160	4.8	4.4		
	ESN	52 09	-1.9						
KRP	PN	18 51 54 2	-0.9	1.48	21	4.7	5.1		
	ESN	52 13	0.2						
TUA	EPN	18 52 03	2.7	1.85	75	4.1			
CAZ	EP*	18 52 06	0.3	1.91	147	5.0	4.8		
	E	08							
	E	12							
	ES*	32	0.9						
	E	38							
WEL	PN	18 52 03 3	1.2	1.98	182	4.4	5.0	5.0	
	EP*	05 5	-1.4						
	ESN	28 5	3.5*						
COB	EPN	18 52 08	0.0	2.41	222	4.9	4.8		
	EP*	14	-0.3						

## LOCAL EARTHQUAKES

H M S		37 5		1.9		2.55 76		3.8 4.1	
09 19 06.7		0.83 1.02		20				4.6	
+ - 2.0									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
GNZ	ESN	18 52 02							
	E	29							
GBZ	EPN	18 52 17	-0.7	3.12	9	4.4	4.0		
	EP*	27	0.6						
	ESN	52 5	-0.3						
ECZ	EPN	18 52 21	0.7	3.31	62	4.4			
	EPN	18 52 24	0.5	3.54	353	4.3			
	ONE	53 03	-0.2						
	ESN	18 53 24	1.3	7.92	129				
CIZ	EPN	54 46	-2.6						
	ESN								

FELT IN TARANAKI. MAXIMUM INTENSITY MM V

H M S		39.25S 174.86E		12 KM		SE 1.3		AVG MAG 68/ 376	
22 03 13.7		0.02 0.03		R				3.9	
+ - 0.4									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TNZ	IP*	22 03 22 1	0.8	0.38	280				
	ES*	28	1.2						
CNZ	EP*	22 03 24 5	0.6	0.53	84				
KRP	PN	22 03 38 0	-1.1	1.43	22	3.8	4.0		
	EPG	45	2.3						
	ESN	56	-1.9						
CAZ	ESG	22 04 20	0.5	1.95	148			4.1	
WEL	EPN	22 03 47	0.0	2.03	182	3.6	3.9	4.2	
	EP*	50	0.5						
	ESN	04 12	0.4						
COB	EPN	22 03 52	-0.7	2.45	221	4.0	4.0		
	ESN	04 20	-1.9						
GBZ	PN	22 04 00 5	-0.7	3.07	9	3.4			

FELT IN TARANAKI. MAXIMUM INTENSITY MM V

H M S		39.28S 174.86E		12 KM		SE 1.6		AVG MAG 68/ 377	
23 45 04.1		0.03 0.04		R				3.9	
+ - 0.4									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TNZ	IP*	23 45 12 2	0.4	0.39	284				
	ES*	19	1.6						
CNZ	IP*	23 45 15 0	0.7	0.54	81				
MNG	EPN	23 45 29	-0.3	1.41	161	4.0	3.9		
	EP*	31	1.6						
	ESN	47	-0.9						
KRP	PN	23 45 28 3	-1.5	1.46	21	3.8	4.1		
	EPG	35 5	1.9						
	ESN	47	-1.9						
CAZ	E	23 46 12		1.93	148			4.0	
WEL	EPN	23 45 37	0.0	2.00	182	3.6	4.1	4.2	
	EP*	39 5	0.1						
	ESN	46 03	1.8						
COB	EPN	23 45 42	-0.8	2.43	222	3.9	4.0		
	ESN	46 09	-2.7						

FELT IN TARANAKI. MAXIMUM INTENSITY MM V

H M S		39.34S 176.69E		12 KM		SE 1.0		AVG MAG 68/ 378	
01 01 52.1		0.02 0.02		R				3.7	
+ - 0.3									
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TUA	IP*	01 02 03 2	-1.0	0.65	34	4.1	4.0		
	ES*	12 5	-0.6						
CNZ	P*	01 02 09 9	1.4	0.90	279				
GNZ	EPG	01 02 18	0.5	1.25	56	4.0	4.0		
	ESG	35	0.5						
MNG	EPN	01 02 19	-0.3	1.57	216	3.6			
	EPG	25	1.0						
KRP	EPG	01 02 27	0.9	1.68	327	3.0			
TNZ	EPG	01 02 27	-1.5	1.80	274	3.5	3.2		
	ESG	53	0.2						
WEL	EP*	01 02 35	0.2	2.43	217	3.3	3.7	3.7	
	EPG	41	-0.3						











JUN 11		H	M	S	41.72S	174.25E	12 KM	SE	0.9	AVG MAG	68/ 434
		+ - 0.6			0.03	0.02	R				3.4
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MEL	EP*	17	25	31		0.1	0.59	42	3.2	3.2	3.7
	ES*			39		-0.0					
COB	EP*	17	25	42	5	-0.7	1.31	299		3.6	3.5
	EPG			47		0.7					
	ES*			59		-1.7					
	ESG			25	04	0.1					
MNG	EP*	17	25	45		-0.6	1.44	41		3.6	3.3
	ES*			25	04	-0.8					
KAI	ES*	17	25	30		0.7	2.26	248	3.1		
TNZ	EP*	17	25	05		0.7	2.54	2		3.4	3.4
	ES*			39		1.3					
CNZ	P*	17	25	07	3	0.1	2.71	22		3.7	3.4
	ES*			45	5	2.7*					
FELT SEDDON (84)											
JUN 11		H	M	S	41.81S	174.34E	12 KM	SE	1.2	AVG MAG	68/ 435
		+ - 0.7			0.04	0.03	R				3.5
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MEL	P*	18	25	38	5	0.7	0.61	32	3.3	3.3	3.9
	ES*			46		-0.3					
COB	P*	18	25	49	8	-1.6	1.41	300		3.8	3.8
	ES*			27	11	0.8					
MNG	P*	18	25	52	3	-0.1	1.47	36		3.6	3.6
	ES*			27	11	5	-0.5				
KAI	EPG	18	27	15		2.3	2.29	251	3.1		
	ESQ			42		-1.6					
TNZ	EP*	18	27	12		-0.1	2.62	1		3.4	3.4
	ES*			47		0.4					
CNZ	EP*	18	27	14	7	0.1	2.76	20		3.7	3.3
	ES*			51		0.0					
FELT SEDDON (84)											
JUN 11		H	M	S	41.08S	172.54E	12 KM	SE	1.4	AVG MAG	68/ 436
		+ - 0.5			0.03	0.03	R				4.4
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IPG.	22	14	55	8	-1.9	0.15	93			
KAI	EPN	22	15	24		1.5	1.67	210	3.8		
	ESN			44		0.4					
MEL	PN	22	15	23	1	0.3	1.70	98	4.5	4.9	4.8
	ESN			46		1.9					
MNG	EPN	22	15	31		0.4	2.28	79		4.7	4.8
	P*			33	6	-0.4					
	ES*			15	05	0.9					
TNZ	PN	22	15	31	8	0.1	2.36	37		4.3	4.4
	ESG			15	13	-0.5					
GPZ	EP*	22	15	40		0.2	2.62	178	3.9		
	ESN			15	09	2.5					
CAZ	EPN	22	15	38		0.1	2.80	88		4.5	4.8
	ESQ			15	26	-2.3					
CNZ	EPN	22	15	41		0.7	2.97	52		4.6	4.7
	ES*			15	24	-1.0					
MJZ	EPN	22	15	42		-2.3	3.28	207		3.7	3.8
	ESN			15	21	-1.3					
TUA	EPN	22	15	59		2.2	4.21	59		4.3	4.4
	E			16	14						
GNZ	E	22	15	55			4.87	62		4.8	
	EP*			15	19	0.6					
HSZ	EPN	22	15	05		-1.7	4.94	222		4.0	3.7
	ESN			58		-4.3*					
CIZ	ESN	22	15	28		-0.3	8.55	113			

## LOCAL EARTHQUAKES

JUN 12		H	M	S	34.09S	177.60E	162 KM	SE	2.4	AVG MAG	68/ 437
		+ - 2.9			0.15	0.16	R				4.3
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	ES	04	50	58		-2.1	3.68	168		4.5	4.5
GNZ	EP	04	50	27		-0.6	4.56	176		4.3	4.6
	ES			51	23	2.4					
TUA	EP	04	50	31		1.2	4.72	184		4.2	4.3
	ES			51	24	-0.4					
CNZ	EP	04	50	42		3.9	5.36	197		3.7	3.5
	E			51	52						
	E			04	50	50		5.71	206		4.2
TNZ	EP	04	50	54		-2.4	6.73	194			
MNG	EP	04	50	54		-1.2					
	ES			52	11						
CAZ	E	04	52	24			6.89	189			
WEL	P	04	51	04	8	-2.2	7.53	197	5.1		
	ES			52	32	0.8					
CIZ	ES	04	53	50		0.5	10.84	157			
JUN 12		H	M	S	41.81S	171.97E	12		1.6	AVG MAG	68/ 438
		+ - 0.4			0.03	0.03	R				3.2
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
INANGAHUA AFTERSHOCK I/ 683. FELT											
JUN 12		H	M	S	41.87S	171.86E	11		1.6	AVG MAG	68/ 439
		+ - 0.4			0.02	0.03	R				3.3
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
INANGAHUA AFTERSHOCK I/ 684. FELT											
JUN 12		H	M	S	40.54S	177.19E	12 KM	SE	1.5	AVG MAG	68/ 440
		+ - 1.0			0.04	0.06	R				4.0
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CAZ	E(PG)	10	48	05		1.8	0.82	243		4.4	4.5
	E			07							
	E			28							
MNG	IPN	10	48	08	9	U	-1.3	1.31	266		4.2 4.1
	ESN			24	5		-3.2				
TUA	EP*	10	48	16		-1.1	1.73	359		3.9	4.1
	E			27							
	ESG			44		-0.8					
	E			52							
CNZ	PN	10	48	17	8	U	0.6	1.84	316		4.2 4.2
	P*			20	0		1.0				
	PG			22	7		-1.0				
	ESN			40		0.1					
WEL	PN	10	48	18	7		-0.4	1.98	247	3.5	3.8 3.9
	EPG			27		0.4					
	ESN			41		-2.2					
	ESG			54		0.6					
GNZ	E	10	48	28			2.00	19		4.1	4.0
	ESN			39		-4.5*					
	E			49	19						
TNZ	EPN	10	48	29		2.0	2.55	301		3.9	3.7
	EP*			33		1.8					
	ES*			49	05	0.2					
	E			24							
COB	EP*	10	48	48		1.8	3.43	259		3.8	3.9
	ES*			49	32	0.9					
GPZ	ESN	10	49	46		-1.2	4.63	226	3.8		
KAI	E	10	49	59			4.77	244		4.1	
JUN 12		H	M	S	40.42S	176.73E	12 KM	SE	1.5	AVG MAG	68/ 441
		+ - 0.4			0.02	0.03	R				4.5

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CAZ	(PG) E	11 29	18 8	J	2.1	0.62	218			4.3	5.3
MNG	IP*	11 29	22 8	J	1.1	0.97	258			4.6	
GNZ	EPN P*	11 29	31		0.5	1.52	323			5.0	4.7
	ESN PN		32 0		1.0						
	E		46		-2.2						
TUA	PN	11 29	31 0		-1.1	1.64	12			4.6	4.8
	E		45 5								
	ESG		30 00		0.7						
	E		09								
WEL	IPN	11 29	32 7	J	-0.5	1.73	239	4.1	4.8	4.7	
	EPG		40 7		1.8						
	ESN		54		-0.8						
	E		30 08								
GNZ	EPN	11 29	36		-1.3	2.03	30			4.9	4.8
	E		30 32 5								
TNZ	EP*	11 29	43		0.5	2.19	303			4.3	4.3
	SG		30 19 0		1.2						
ECZ	EP*?	11 29	59		1.5	3.06	28			4.8	4.4
	E		30 20								
	E		31 12								
COB	EPN	11 29	52 5		0.5	3.11	256			4.1	4.5
	EPG		30 07		0.1						
	ES*		37		-2.1						
	E		46								
GBZ	E	11 31	10			4.31	346				3.8
	ES*		14		-1.0						
	E		49								
GPZ	EPG	11 30	37		2.6	4.47	222	4.3			
	E		57								
KAI	EP*	11 30	26		3.6*	4.52	240	4.6			
	E		43								
	E		31 32								
HJZ	EPN	11 30	28 5		-0.5	5.06	230			3.8	3.7
	ESN		31 33		-1.5						
CIZ	PN	11 30	34		1.7	6.11	128				
	ESN		31 38		-2.3						
MSZ	E	11 31	10			7.77	234				
	ESN		32 18		-2.0						
FELT GLEBELANDS (64)											
JUN 12	H M S	23 50 26.3	45.13S	167.55E	111 KM	SE	0.9			68/ 442	
		+ - 1.1	0.03	0.05	7					AVG MAG	3.7
	H M S										
MSZ	IP	23 50 44.4	D	0.8	0.53	30				3.8	4.3
	ES		57		0.1						
MNH	IP	23 50 44.8	J	0.2	0.65	176				4.4	4.2
	ES		57 5		-1.1						
ROX	IP	23 50 52		0.7	1.30	106				3.0	3.3
	ES		51 11		0.8						
WPZ	ES	23 51 20		-0.1	1.78	150				4.0	
HJZ	EP	23 51 04		-0.8	2.38	62				2.9	3.1
	ES		33		-0.8						
JUN 13	H M S	06 21 06.6	41.97S	171.79E	10 KM	SE	1.3			68/ 443	
		+ - 0.5	0.02	0.03	7					AVG MAG	3.7
INANGAHUA AFTERSHOCK I/ 689. FELT											
JUN 13	H M S	09 57 56.9	40.70S	177.01E	12 KM	SE	1.5			68/ 444	
		+ - 1.0	0.05	0.06						AVG MAG	3.9
	H M S										
CAZ	EP*	09 58 07		-1.8	0.63	251				4.1	4.3
	E		26								

## LOCAL EARTHQUAKES

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	09 58	17 2	J	-0.8	1.17	274			4.2	3.9
	EPG		23		-2.3						
	ES*		32 5		1.2						
WEL	PN	09 58	26 8		-0.3	1.80	250	3.6	3.8	4.0	
	EPG		35		1.7						
	ESN		49		-0.3						
TUA	ESN	09 58	51		-0.6	1.90	3				3.8
GNZ	EPG	09 58	41		-0.4	2.20	21			4.0	
TNZ	EPN	09 58	39		1.8	2.53	306			3.9	
	ESN		59 07		-0.4						
GPZ	ESN	09 59	53 5		0.9	4.41	226	3.7			
KAI	ESN	09 59	55		-1.6	4.58	245	3.8			
FELT GLEBELANDS (64)											
JUN 13	H M S	10 41 45.0	38.83S	177.85E	33 KM	SE	1.7			68/ 445	
		+ - 0.6	0.05	0.04	R					AVG MAG	4.5
	H M S										
GNZ	IP	10 41 51.4	J	-0.8	0.23	36					
TUA	P	10 41 55.8		0.1	0.55	272				5.1	5.3
	ES		42 05		1.5						
ECZ	P	10 42 04.0		-1.5	1.26	26				5.1	
	E		12								
MNG	IP	10 42 22.9	U	-0.3	2.55	225					
TNZ	EP	10 42 27.5		1.9	2.72	261				4.0	3.7
	E		39								
	E		43 04 5								
WEL	EP	10 42 34		-0.9	3.40	223	4.3	3.9	4.2		
	ES		43 14		0.9						
KAI	E	10 43 40			6.13	231	4.5				
	ES		44 18		-1.0						
GPZ	ES	10 44 19		-2.7	6.24	217	4.5				
CIZ	EP	10 43 21		2.5	6.62	142					
	E		22 5								
	ES		44 31		0.3						
FELT GISBORNE DISTRICT (35, 44, 45) MM IV											
JUN 13	H M S	20 20 46.2	37.77S	177.40E	33 KM	SE	1.1			68/ 446	
		+ - 0.8	0.05	0.03	R					AVG MAG	4.1
	H M S										
ECZ	EPN	20 21 01		-1.0	0.91	85				4.2	4.4
	ESN		13		-0.6						
	ES*		18		1.8						
GNZ	IPN	20 21 03.4	D	0.2	1.00	151				4.6	4.8
	E		07.7								
TUA	ESN	20 21 06.2	D	-1.7	1.05	191				4.6	4.0
	IP*		14		0.5						
	ES*		21		0.9						
TNZ	E	20 21 31			2.76	238				3.9	3.4
	ESN		58.5		-0.1						
MNG	EPN	20 21 33		-0.5	3.21	207				3.8	3.6
	ESN		22 10		0.5						
WEL	ESN	20 22 26		-4.2*	4.06	209					4.0
JUN 14	H M S	18 43 49.5	41.85S	172.06E	11 KM	SE	1.6			68/ 447	
		+ - 0.5	0.04	0.04	7					AVG MAG	4.5
INANGAHUA AFTERSHOCK I/ 699. FELT											
JUN 14	H M S	19 03 27.0	41.79S	171.96E	15 KM	SE	1.0			68/ 448	
		+ - 0.3	0.03	0.02	2					AVG MAG	5.5
	H M S										
DNS	IPG	9 03 31.3	J	0.9							
FLW	IPG	19 03 34.5	D	-0.5	0.38	275					
	ESG		40		-0.3						



Station	P*	19 03 43 1	S	0.6	0.84	209															
KAI	EPG	19 03 44.0	U	-0.2																	
COB	IP*	19 03 44.5	U	0.9	0.91	40															
MEL	IPN	19 04 03.5	U	1.7	2.17	78	5.7	5.3													
	E	07																			
	ES*	33		-0.6																	
MJZ	EPN	19 04 06		-0.1	2.46	206		5.4													
	E	07.5																			
MNG	IPN	19 04 13.0	U	0.7	2.90	67															
	E	16																			
TNZ	EPN	19 04 17.5		1.5	3.19	36															
	EPG	31		-0.4																	
	ES*	05 03		-1.4																	
MSZ	EPN	19 04 28		-0.7	4.13	224		5.2													
CIZ	EPN	19 04 35		5.1																	
	ESN	07 04		-1.1																	
INANGAHUA AFTERSHOCK I/ 700. FELT																					
JUN 14	H M S	19 09 00.1		41.89S	171.94E	12		1.5													
		+0.5		0.03	0.03	5															
INANGAHUA AFTERSHOCK I/ 701. FELT																					
JUN 14	H M S	21 17 10.9		45.19S	167.48E	82 KM	SE	0.8													
		+0.9		0.02	0.05	7															
	H M S																				
	H M S																				
MSZ	IP	21 17 26 1	J	0.0	0.60	31															
	ES	38		0.4																	
MNW	IP	21 17 26 2	D	0.1	0.60	171															
	ES	37		-0.7																	
ROX	EP	21 17 36		1.3	1.33	103															
	ES	52 5		-0.0																	
WPZ	ES	21 18 02		0.2	1.76	148															
MJZ	P	21 17 48 8		-0.8	2.44	62															
	ES	19 18		-0.4																	
JUN 15	H M S	05 56 36.9		41.71S	171.90E	12 KM	SE	1.3													
		+0.9		0.06	0.06	R															
	H M S																				
	H M S																				
COB	IP*	05 55 53.7	J	0.7	0.88	46															
	ES*	57 05		-0.0																	
KAI	EP*?	05 56 52		-1.3	0.90	204		3.3													
	S*	57 04 7		-0.8																	
WEL	ES*	05 57 44		-0.5	2.19	80															
MJZ	E?	05 57 18		1.9	2.51	204															
	ES*	56		1.9																	
MNG	EP*	05 57 27		-0.8	2.91	69															
	ES*	58 07		0.9																	
INANGAHUA AFTERSHOCK NOT LISTED IN BULLETIN E-147 FELT MURCHISON (80) MM IV																					
JUN 15	H M S	12 10 53.5		42.00S	171.84E	12 KM	SE	1.3													
		+0.3		0.02	0.02	R															
INANGAHUA AFTERSHOCK I/ 702. FELT																					
JUN 15	H M S	14 29 08.4		41.77S	172.04E	12 KM	SE	1.2													
		+0.3		0.02	0.02	4															
INANGAHUA AFTERSHOCK I/ 704. FELT																					
JUN 16	H M S	05 58 34.8		41.95S	171.56E	11 KM	SE	1.3													
		+0.4		0.03	0.03	5															
INANGAHUA AFTERSHOCK I/ 709. FELT																					

Station	H M S	40.19S	175.02E	12 KM <th>SE <th>1.1</th> <th>AVG MAG</th> <th>68/ 455</th> </th>	SE <th>1.1</th> <th>AVG MAG</th> <th>68/ 455</th>	1.1	AVG MAG	68/ 455
JUN 16	15 09 13.1							
	+0.3							
	H M S							
MNG	IP*	15 09 23 9	J	0.3	0.55	141		
	ES*	32		0.6				
GNZ	IP*	15 09 31 7	J	-0.8	1.07	22		
	ES*	46		-1.0				
WEL	IP*	15 09 32 6	D	-0.6	1.11	190		
	ES*	46		-2.1				
TNZ	EP*	15 09 33		-0.4	1.12	334		
	ES*	48 5		0.1				
CAZ	EPG	15 09 37		0.3	1.16	128		
	ESG	56		3.6*				
COB	EPN	15 09 46		0.5	1.96	242		
	ESN	10 11		1.7				
TJA	EP*	15 09 51		-0.0	2.15	51		
GNZ	EPG	15 10 11		1.4	2.79	57		
JUN 16	H M S	17 25 33.3		41.80S	171.89E	14 KM	SE	1.1
		+0.3		0.02	0.02	2		
INANGAHUA AFTERSHOCK I/ 711. FELT								
JUN 17	H M S	00 01 14.0		41.90S	172.00E	12 KM	SE ND	AVG MAG
		R						3.2
	H M S							
KAI	S*	00 01 37 4		-1.2*	0.76	215		
COB	P*	00 01 31 8		-0.1*	0.98	34		
	S*	44 7		-0.4*				
FELT HANGLES VALLEY (80)								
JUN 17	H M S	16 40 13.6		40.67S	175.85E	12 KM	SE	1.0
		+0.3		0.02	0.02	R		
	H M S							
MNG	P*	16 40 19 0		-0.5	0.28	281		
	E	30 0						
	E	34 0						
CAZ	IP*	16 40 20 0		-0.9	0.37	129		
	ISG	28		1.5				
WEL	IP*	16 40 31 5	U	-0.6	1.02	233		
	PN	33 1		-0.4				
	S*	46 2		0.3				
	SN	47 8		-0.4				
GNZ	PN	16 40 40 0		0.3	1.49	351		
	PG	43 8		0.1				
	SN	41 00		0.9				
	S*	02 5		2.5*				
TNZ	EP*?	16 40 47		0.5	1.86	322		
	E	48 6						
	SG	41 16 4		-0.1				
COB	EPN	16 40 51		-0.8	2.40	259		
	P*	54		-1.7				
	SN	41 22 0		1.6				
	IS*	28 2		1.0				
GNZ	EPG	16 41 06		-0.8	2.63	40		
	E	36 6						
FELT WAIRERE (56) MM V								
JUN 17	H M S	19 36 41.4		46.11S	167.11E	12 KM	SE	0.7
		+0.6		0.03	0.04	R		
AVG MAG 4.2								

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	M S
MNH	IP*	19	35	50	9	0.1	0.49	48			
	S*			58		0.3					
WPZ	PN	19	37	05	2	-0.2	1.33	115			
	E			20					4.6	4.8	
MSZ	IPN	19	37	07	9	-0.5	1.55	22			
	EPG			13	2	0.4			4.1	4.3	
	SN			26		-2.3*					
	E			41	8						
ROX	IPN	19	37	11	0	1.0	1.67	69			
	SN			31		-0.1			4.4	4.7	
HJZ	EP*?	19	37	36		-1.1	3.19	49			
	E			40	5				3.8	3.7	
	EPG			46	5	0.5					
	S*			38	18	-0.5					
	E			22	5						
FELT EASTERN BJSH (139)											
JUN 18	H M S	06	41	27.2		41.81S	172.03E	12 KM	SE	1.0	AVG MAG 68/440 3.4
				+0.2		0.02	0.02	3			
INANGAHUA AFTERSHOCK I/ 724. FELT											
JUN 18	H M S	13	56	28.2		41.79S	171.83E	13 KM	SE	1.0	AVG MAG 68/442 4.3
				+0.2		0.02	0.02	1			
INANGAHUA AFTERSHOCK I/ 726. FELT											
JUN 18	H M S	16	38	39.9		41.99S	171.98E	12 KM	SE	1.3	AVG MAG 68/441 3.8
				+0.4		0.02	0.02	R			
INANGAHUA AFTERSHOCK I/ 728. FELT											
JUN 18	H M S	17	06	17.0		41.91S	171.91E	12 KM	SE	0.8	AVG MAG 68/443 3.2
				+0.2		0.01	0.02	2			
INANGAHUA AFTERSHOCK I/ 730. FELT											
JUN 18	H M S	17	30	56.9		45.34S	167.16E	33 KM	SE	1.1	AVG MAG 68/444 5.2
				+1.5		0.03	0.12	R			
MSZ	IPN	17	31	12	2	0	0.3	0.86	39		
ROX	PN	17	31	21	4		0.3	1.53	96		
WPZ	IPN	17	31	24	2	D	-0.2	1.77	139	5.3	5.2
	SN			44	9		-0.2				
HJZ	IPN	17	31	36	2	D	-1.2	2.72	61	5.0	5.1
	EP*			45			0.3				
KAI	EPN	17	31	57			-0.2	4.16	49	5.5	
GPZ	PN	17	31	56	8		-1.6	4.25	69	5.0	
	E			32	41	0					
COB	PN	17	32	21	1		0.6	5.88	46	5.2	5.6
	E			51							
	ESN			33	25		-0.0				
CIZ	EPN	17	33	39	5		2.0	11.68	89		
	SN			35	37		-5.5*				
FELT SOUTHLAND MAXIMUM INTENSITY MM V AT TE ANAU (130)											
JUN 18	H M S	17	58	37.9		37.21S	176.65E	254 KM	SE	1.3	AVG MAG 68/445 5.8
				+0.8		0.04	0.05	7			
GBZ	IP	17	59	13	9	J	-2.0	1.37	316		
HNZ	EP	17	59	18			1.2	1.48	197		
	E			54							
ECZ	P	17	59	16	9	D	-0.6	1.58	108	6.2	6.1
	E			33							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	M S
	E			41							
	S			48	9	0.9					
TUA	EP	17	59	18	4	0.4	1.64	166			5.7 5.8
	ES			47	5	-1.4					
	IP	17	59	19	0	D	-0.2	1.79	143		5.8 5.8
GNZ	ES			48		-3.1*					
	IP	17	59	23	9	D	1.4	2.17	203		
CHZ	IP	17	59	24		-0.1	2.34	307			
ONE	P	17	59	30	2	J	2.7	2.67	222		5.6 4.7
TNZ	E	18	00	14							
	IP	17	59	36	9	J	0.0	3.52	195		5.4
HNG	E	18	00	17	3						
	ES			24		1.3					
	IP	17	59	40	0	1.1	3.70	185			5.6
CAZ	ES	18	00	24		-2.4					
	E			30	4						
WEL	EP	17	59	46		-0.2	4.33	199	5.9	5.5	5.6
	E	18	00	35							
	ES			39		-0.4					
	E			44							
COB	EP	17	59	52		-1.4	4.93	217			5.2 5.5
	S	18	00	53		0.6					
	EP	18	00	15		-0.0	6.67	216	5.9		
KAI	EP			01	31	-0.1					
	ES	18	00	34	2	-0.8	8.24	213			
HJZ	EP			02	42						
	E	18	00	38		-0.0	8.48	145			
CIZ	EP			02	27						
	E			02	27						
FELT NGAIKAROA (44) MM IV											
JUN 19	H M S	18	30	27.0		40.84S	174.61E	12 KM	SE	1.2	AVG MAG 68/456 4.0
				+0.3		0.02	0.02	R			
WEL	IP*	18	30	36	1	USE	0.0	0.47	165	3.9	
	S*			42	8		0.1				
HNG	E?	18	30	37			0.70	72			3.8 3.9
	IP*			39	7	-0.4					
	ES*			50		0.3					
COB	PN	18	30	50	9	D	-1.7	1.44	259		4.1 4.5
	ESN			31	10	-1.5					
TNZ	PN	18	30	55	7		0.3	1.66	354		3.9 3.9
	ESN			31	18	1.7					
CNZ	PN	18	30	56	0		-1.1	1.79	24		4.2 4.1
	EPG			31	04	0.8					
	ESN			19		-0.2					
	ESG			27		-0.4					
KAI	ESN	18	31	49		1.8	2.93	234	3.6		
GPZ	E	18	31	44		3.21	206	3.6			
FELT WELLINGTON (69) MM IV											
JUN 19	H M S	22	12	22.0		41.04S	172.55E	12 KM	SE	1.1	AVG MAG 68/457 3.5
				+0.5		0.03	0.03	R			
COB	IPG.	22	12	24	4		-1.2	0.14	107		
WEL	EP*	22	12	52			0.0	1.69	99	3.5	3.7 3.7
	ES*			13	14	-0.4					
KAI	P*	22	12	54		1.7	1.71	210	2.9		
	ESN			13	12	-0.4					
HNG	P*	22	13	01	8		0.0	2.26	80		3.6 3.6
	ES*			33		1.4					
TNZ	EP*	22	13	01	5		-1.4	2.32	38		3.6 3.5
	ESG			41		0.6					
HJZ	ESN	22	13	51		-0.2	3.32	207			



STATION	Co	Lat	Long	Mag	Dist	Dir	Az	W-A	W P	W S
KRP	P*	03 20	36 5	-0.6	3.18	366				
	ES*	21 14		-4.8*						
GPZ	ESH	03 21	13	-0.8	3.44	220	3.4			
H M S										
JUN 24		12 08	52.5	41.85S	171.71E	12 KM	SE	0.9		
				+0.2	0.01	0.02	2			
INANGAHUA AFTERSHOCK I/ 769. FELT										
H M S										
JUN 24		16 01	04.5	39.97S	176.37E	12 KM	SE	1.3		
				+0.7	0.03	0.05	R			
H M S										
MNG	IP*	16 01	22.8	J	1.3	0.94	226			
	ES*		35		0.8					
CNZ	IP*	16 01	23.6	J	0.9	1.00	320			
	ES*		36.5		0.3					
TUA	EPG?	16 01	31		-0.1	1.31	26			
	E		02 01							
TNZ	EPN	16 01	34		0.3	1.73	296			
	ES*		02 02		4.0*					
WEL	PN	16 01	33.4		-1.1	1.79	222			
	EPG		42.5		1.8					
	ESN		55		-1.7					
	E		02 12							
GNZ	E	16 01	52							
KRP	EPN	16 01	38		-1.3	2.15	342			
	E		02 35							
COB	E	16 02	00		2.99	247				
	ESG		44		-1.1					
H M S										
JUN 25		12 37	33.7	41.82S	171.96E	12 KM	SE	0.7		
				+0.2	0.01	0.02	2			
INANGAHUA AFTERSHOCK I/ 774. FELT										
H M S										
JUN 25		13 07	31.7	41.84S	171.99E	12 KM	SE	0.9		
				+0.3	0.02	0.02	3			
INANGAHUA AFTERSHOCK I/ 775										
H M S										
JUN 25		15 39	16.4	36.60S	177.95E	122 KM	SE	2.5		
				+2.4	0.13	0.11	21			
H M S										
ECZ	EP	15 39	39		-2.0	1.19	157			
	ES		59		-0.7					
	E		40 10							
GNZ	P	15 39	50.7	J	-0.2	2.04	178			
	ES		40 19		2.0					
TUA	P	15 39	56.8		2.6	2.29	196			
	ES		40 25		2.1					
KRP	P	15 39	54.0	DSE	-0.8	2.33	235			
	ES		40 22		-1.8					
CNZ	EP	15 40	08		1.5	3.21	216			
	E		58							
TNZ	EP	15 40	17		2.3	3.82	226			
MNG	EP	15 40	21		-2.1	4.45	205			
	ES		41 10.5		-3.9					
WEL	ES	15 41	33		-1.8	5.29	207	4.3		
COB	ES	15 41	56		2.8	6.05	221			
H M S										
JUN 25		23 25	41.8	41.23S	172.35E	12 KM	SE	1.0		
				+0.5	0.04	0.03	R			

## LOCAL EARTHQUAKES

STATION	Co	Lat	Long	Mag	Dist	Dir	Az	W-A	W P	W S
COB	IP*	23 23	49.0		0.5	0.33	63			
	EP*	23 23	54.1		0.0	0.65	219		3.8	4.2
	E		59.5							
	ES*	23 23	57.9		-0.9	0.85	232		3.9	4.4
FLW	EP*	23 25	08.1		-0.9	1.47	208		4.2	
	ES*	23 25	08.5		0.5					
KAI	EP*	23 25	11.2		-1.2	1.82	92		4.7	4.4
	ES*		14.2		0.1					
WEL	PN	23 25	22.2		-1.1	2.45	76		5.1	5.0
	P*		37.2		1.3					
	S*	23 25	22.2		-0.9					
MNG	PN		24		-0.2					
	EP*		57		0.9	2.47	175	4.3		
	ES*	23 25	22		1.8					
GPZ	EPN		27		0.2					
	EP*		50.6							
	SN									
FELT HARAKEKE (76) M M IV, WESTPORT (79), AND PAENGA (80)										
H M S										
JUN 25		23 44	10.6	41.27S	172.23E	12 KM	SE	0.7		68/ 494
				+0.4	0.02	0.02	R			4.3
H M S										
COB	IP*	23 44	15.5		-3.5*	0.42	64		4.0	4.4
	EP*	23 44	20.9		-0.5	0.97	215			
	ES*		29.9		0.6					
FLW	IP*	23 44	24.6		-0.0	0.76	230		4.1	4.3
	ES*		34.8		-0.2					
KAI	IP*	23 44	35.5		-0.1	1.39	206	4.0		
	EP*		54		-0.2					
	ES*	23 44	51		1.5	2.44	173	4.0		
GPZ	EPN		53.5		-0.0					
	EP*		45 17.4		-1.1					
	SN		26		0.3					
MNG	EPN	23 44	51.1		-0.1	2.55	76		5.1	4.7
	SN		45 21.5		-0.1					
H M S										
JUN 26		04 28	11.5	41.91S	171.75E	10		1.4		68/ 495
				+0.4	0.02	0.03	4			3.5
INANGAHUA AFTERSHOCK I/ 780. FELT										
H M S										
JUN 26		07 03	00.0	41.94S	171.96E	10 KM	SE	1.1		68/ 496
				+0.3	0.02	0.03	5			4.6
INANGAHUA AFTERSHOCK I/ 781. FELT										
H M S										
JUN 26		09 56	25.7	41.49S	173.54E	33 KM	SE	1.5		68/ 497
				+0.5	0.03	0.03	R			3.7
H M S										
COB	PN	09 56	39.2		0.3	0.73	303		4.4	3.9
	ESN		49.5		0.9					
WEL	EPN	09 56	43		1.1	0.95	78	3.5	3.7	4.1
	ES*		58		1.3					
MNG	PN	09 56	51.8		-0.6	1.71	60		4.2	4.0
	EP*		55.5		-0.8					
	ESN		57 12		-0.4					
	ES*		18		-1.1					
KAI	ES*	09 57	20		-4.7*	1.90	236	3.1		
GPZ	ESN	09 57	27		0.1	2.30	196	3.1		
TNZ	EPN	09 57	01		-0.7	2.39	16		3.7	3.8
	ESN		29		0.1					
CNZ	E	09 57	11			2.75	35		3.5	3.6
	E		30							
	ESN		41.5		3.6					

		H	M	S			DIR	RES	DIST	AZ	W-A			AVG MAG	
		H M S			R						H P W S			68/ 438	
KRP	EPN	09	57	21											
	ESN		58	03											
MSZ	ESN	09	59	37											
JUN 26	H M S	18	58	17.3	36.87S	176.21E	106 KM	SE	1.7						
					0.05	0.06	17								
	H M S	18	59	42.5											
TUA	E														
	ES														
KRP	P	18	59	40.0											
	ES														
GNZ	ES	18	59	02											
TNZ	EP	18	59	46											
MNG	P	18	59	48.8											
	ES														
CAZ	P	18	59	52.2											
	ES														
WEL	ES	18	59	29											
COB	ES	18	59	49											
JUN 26	H M S	21	15	42.8	44.15S	168.31E	12 KM	SE	1.2						
					0.04	0.05									
	H M S	21	15	51.9											
MSZ	P*														
	ES*														
ROX	EPN	21	15	10											
	ESN														
MJZ	EPN	21	15	09											
	P*														
	ESN														
MNH	PN	21	15	12.0											
	P*														
	ES*														
WPZ	EPN	21	15	24											
	ESN														
KAI	EP*	21	15	33											
	ES*														
GPZ	EP*	21	15	36											
	ESQ														
COB	E	21	17	50											
JUN 26	H M S	22	01	46.8	39.04S	177.42E	12 KM	SE	0.7						
					0.02	0.02									
	H M S	22	01	52.8											
TUA	P*														
	ES*														
GNZ	P*	22	01	57.9											
	ES*														
ECZ	EPG	22	02	20											
KRP	EPN	22	02	17											
MNG	EPN	22	02	21											
	EPG														
TNZ	EPN	22	02	24											
WEL	ESN	22	03	09											
COB	EPN	22	02	49											
	ESN														
JUN 26	H M S	22	37	13.0	33.97S	179.44W	283 KM	SE	0.9						
					0.05	0.05	10								
	H M S	22	39	18.9											
ECZ	P														
	ES														
GNZ	EP	22	39	30											

## LOCAL EARTHQUAKES

		H	M	S			DIR	RES	DIST	AZ	W-A			AVG MAG	
		H M S			R						H P W S			68/ 432	
ONE	P	22	39	35.2											
TUA	P	22	39	37											
	ES														
KRP	P	22	39	39.3											
	ES														
TNZ	E	22	39	05											
MNG	P	22	39	05.4											
	ES														
WEL	ES	22	40	50											
COB	EP	22	39	24.5											
	ES														
	ES														
CIZ	E	22	39	41											
	ES														
JUN 27	H M S	01	01	59.9	40.15S	174.95E	12 KM	SE	1.3						
					0.02	0.03									
	H M S	01	02	11.2											
MNG	IP*														
	ES*														
TNZ	P*	01	02	17.8											
	ES*														
WEL	P*	01	02	19.3											
	ES*														
CAZ	ESG	01	02	43											
COB	PN	01	02	32.5											
	ESN														
KRP	EPN	01	02	36.5											
	ESN														
JUN 27	H M S	08	16	44.6	34.65S	179.05W	329 KM	SE	1.7						
					0.24	0.32	18								
	H M S	08	17	51											
ECZ	EP														
	ES														
GNZ	EP	08	17	59											
	ES														
TUA	E	08	19	09											
	ES														
KRP	EP	08	19	08											
MNG	IP	08	18	32.4											
	ES														
WEL	P	08	19	42.8											
	ES														
COB	EP	08	19	51											
	ES														
CIZ	E	08	21	06											
CIZ READING CASTS SOME DOUBT ON INTERPRETATION															
JUN 27	H M S	10	07	09.4	40.19S	174.90E	12 KM	SE	1.0						
					0.02	0.02									
	H M S	10	07	16.4											
MNG	P*														
	ES*														
TNZ	P*	10	07	23.4											
	S*														
WEL	P*	10	07	24.8											
	ES*														
CAZ	EP*	10	07	29											
	ESG														
COB	PN	10	07	38.0											
	ES*														
KRP	PN	10	07	43.2											



ESN		03 10	-0.0										
H	M	S	37.40S 176.68E		12 KM	SE	1.3	AVG MAG	68/ 420				
+ 1.1		0.03 0.03		R									
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S				
JUN 28	00 29	18.3		0.4	1.05	240		3.8	3.5				
KRP	P*	00 29 37 7		0.4									
	ES*	51		-0.4									
TUA	PN	00 29 44 7		0.7	1.45	165		4.5	4.2				
	E	30 00											
ECZ	P*	00 29 45 7		0.5	1.51	102		4.3	3.9				
	ESQ	30 10		0.7									
GNZ	PN	00 29 44 2		-2.1	1.63	140		4.8	4.2				
	P*	46 0		-1.3									
	ES*	30 09		0.1									
MNG	EP*	00 30 18		1.4	3.34	196		3.7					
FELT WHAKATANE (47) 4M III													
H M S		41.84S 171.88E		11 KM	SE	1.5	AVG MAG	68/ 471					
+0.5		0.04 0.04		R									
INANGAHUA AFTERSHOCK I/ 796. FELT													
H M S		37.39S 176.82E		12 KM	SE	1.7	AVG MAG	68/ 477					
+ 0.8		0.05 0.03		R									
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S				
JUN 29	17 11	01.7		0.0	1.15	242		4.5	4.4				
KRP	IP*	17 11 22 4	DSE	-1.8									
	ES*	36		0.0									
ECZ	PG	17 11 30 2		0.0	1.40	103		4.9					
TUA	PN	17 11 24 1		-3.1	1.44	170		5.3					
	IP*	25 0		-2.3									
GNZ	PN	17 11 29 2		0.3	1.57	143		5.4	4.8				
	IPQ	31 9		-1.6									
	ES*	51 5		1.0									
	ESQ	56		1.3									
ONE	EPG	17 11 55		1.7	2.55	308		3.5					
TNZ	EP*	17 11 48		0.3	2.63	226		4.0					
MNG	PN	17 11 55 1		1.7	3.39	198		4.4					
	P*	12 01 0		0.3									
WEL	EP*	17 12 15		0.3	4.20	202		4.2	4.2				
	ES*	13 11 5		1.9									
COB	E	17 12 17			4.86	219		4.0					
CIZ	ESN	17 14 24		-5.2*	8.26	145							
FELT WHAKATANE (27) 4M IV													
H M S		41.87S 171.94E		12 KM	SE	1.8	AVG MAG	68/ 471					
+0.6		0.03 0.03		R									
INANGAHUA AFTERSHOCK I/ 799. FELT													
H M S		42.36S 171.61E		12 KM	SE	1.1	AVG MAG	68/ 471					
+ 0.4		0.02 0.03		R									
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S				
JUN 29	23 23	13.9		-0.0	0.22	223		3.8	3.9				
KAI	IP*	23 23 18 8		0.2	0.62	349		3.8	4.1				
FLW	EP*	23 23 25 8		-2.7*									
	ES*	31 5		-0.9	0.64	12		3.8	4.1				
	EP*	23 23 25 0		-0.9									
	ES*	33 9		-0.9									
GPZ	EP*	23 23 41		-0.3	1.53	151		3.7					
	PG	44 0		-1.0									
	S*	24 01 0		-0.7									
HJZ	PN	23 23 44 6		0.1	1.83	207		4.2	4.3				
	ESN	24 08		0.9									
WEL	PN	23 23 56 2		1.2	2.59	67		3.9	4.5				
	P*	24 01 2		1.8									

PG		04 7	-1.7									
S*		34 7	1.2									
FELT HOKITIKA DISTRICT												
H	M	S	37.83S 176.63E		93 KM <th>SE <th>0.3 <th>AVG MAG</th> <th>68/ 500</th> <th colspan="3"></th> </th></th>	SE <th>0.3 <th>AVG MAG</th> <th>68/ 500</th> <th colspan="3"></th> </th>	0.3 <th>AVG MAG</th> <th>68/ 500</th> <th colspan="3"></th>	AVG MAG	68/ 500			
+ 0.5		0.03 0.02		R <th colspan="3"></th> <th colspan="4"></th>								
H	M	S	DIR <th>RES <th>DIST <th>AZ <th>W-A <th>W P <th>W S <th colspan="3"></th> </th></th></th></th></th></th>	RES <th>DIST <th>AZ <th>W-A <th>W P <th>W S <th colspan="3"></th> </th></th></th></th></th>	DIST <th>AZ <th>W-A <th>W P <th>W S <th colspan="3"></th> </th></th></th></th>	AZ <th>W-A <th>W P <th>W S <th colspan="3"></th> </th></th></th>	W-A <th>W P <th>W S <th colspan="3"></th> </th></th>	W P <th>W S <th colspan="3"></th> </th>	W S <th colspan="3"></th>			
JUN 30	01 16	14.1		0.2	0.87	263		4.0	3.6			
KRP	P	01 16 33 1		-0.1								
	ES	47		-0.2								
TUA	P	01 16 34 9		0.1	1.06	157		4.5	4.3			
	ES	51		-0.0								
ECZ	EP	01 16 41		1.53	85			4.4				
MNG				2.92	197			3.4				
H M S		41.99S 171.77E		11 KM	SE	0.6	AVG MAG	68/ 511				
+0.2		0.01 0.01		R								
INANGAHUA AFTERSHOCK I/ 800. FELT												
H M S		40.26S 174.74E		12 KM	SE	0.8	AVG MAG	68/ 502				
+ 0.3		0.01 0.03		R								
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S			
JUN 30	06 40	06.3		0.3	0.67	123		4.1	4.0			
MNG	IP*	06 40 25 3	D	0.3	1.03	179		3.6	4.2			
WEL	E	33 5		0.8								
	S*	39 6		0.2	1.11	345		3.8	4.0			
TNZ	P*	06 40 26 5		0.8								
	S*	42 0		0.0	1.30	120		4.4	4.3			
CAZ	PN	06 40 30 0		0.5								
	ESN	48		-0.3	2.41	15		4.0	4.2			
KRP	PN	06 40 44 5		-1.1								
	EP*	47 5		0.6								
	ESN	41 14		-0.8	3.01	59		4.0				
GNZ	EP*	06 40 58		-1.1	3.78	204		3.5				
QPZ	ESN	06 41 45 5										
85 9-P AT MNG												
H M S		35.29S 179.77E		214 KM	SE	1.8	AVG MAG	68/ 503				
+ 2.4		0.13 0.09		R								
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S			
JUN 30	12 37	34.0		0.3	2.59	202		5.0	5.0			
ECZ	EP	12 38 20 5		-2.0								
	ES	54										
	E	39 09		-1.6	3.63	202		4.7	4.7			
GNZ	P	12 38 30 7		0.5	4.09	210		4.6	4.7			
	EP	39 22		1.5								
TUA	EP	12 38 38 5		1.1	4.30	231		4.3	3.9			
	ES	39 29		1.7								
KRP	P	12 38 41 7		5.80	5.80	226		4.6				
	ES	39 34		7.16	7.16	212		5.2				
TNZ	E	12 39 08		-0.7								
WEL	E	12 39 30										
	ES	40 37										
	E	41 08 5										
CIZ	E	12 39 50			9.10	163						
	ES	41 24		1.4								
QPZ	ES	12 41 42		-2.2	10.03	211		5.1				
H M S		38.34S 177.01E		33 KM	SE	1.7	AVG MAG	68/ 504				
+ 0.7		0.85 0.04		R								
H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S			
JUN 30	18 33	44.8		-1.0	0.48	167						
TUA	PN	18 33 53 6		0.7								
	P*	55 7		-0.4								
	SN	34 01 3										

STATION	TIME	COORDINATES	DEPTH	DIST	AZ	MAG	W-A	W P	W S
GNZ	18 33 58.1	-1.6 0.85	111						
EP*	34 03	1.9				4.8			
ES*	13	0.1							
KRP	18 34 05.9	0.9 1.24	289			3.6			
E	14								
ECZ	18 34 10	0.3 1.37	62						
TNZ	18 34 22	-2.2 2.23	247						
MNG	18 34 25.5	2.3 2.57	207			3.6			
EP*	31	1.0				3.7			
ES*	33 06	2.2							
WEL	18 35 11	-2.1 3.41	210			4.1			
CIZ	18 35 27	-1.9 7.41	141						
ESN	35 44	-5.4*							
JUN 30									
H M S	20 44 26.0	37.67S 176.25E	161 KM	SE	0.8	AVG MAG	68/ 513		
	+ - 1.2	0.03 0.04	8				4.3		
KRP	EP	20 44 50	0.7	0.62	246	W-A	W P	W S	
	ES	45 07	-0.3			3.8	3.7		
TUA	P	20 44 54.0	-1.0	1.34	148				
GNZ	EP	20 44 59	0.3	1.70	125				
	ES	45 24.5	0.6			4.8	4.3		
ECZ	EP	20 45 00	0.0	1.82	91				
	ES	26	-0.3			4.6	4.3		
JUL 01									
H M S	17 15 21.1	41.95S 171.76E	11 KM	SE	0.9	AVG MAG	68/ 514		
	+ - 0.2	0.01 0.02	4				3.7		
INANGAHUA AFTERSHOCK I / 805. FELT									
JUL 01									
H M S	19 57 56.7	41.99S 171.75E	12 KM	SE	0.8	AVG MAG	68/ 517		
	+ - 0.2	0.01 0.02	R				3.5		
INANGAHUA AFTERSHOCK I / 806. FELT									
JUL 02									
H M S	00 19 01.8	38.35S 177.65E	12 KM	SE	0.6	AVG MAG	68/ 518		
	+ - 0.3	0.02 0.01	R				4.1		
GNZ	IPG	00 19 10.0	-0.5	0.42	135	W-A	W P	W S	
	SG	16 2	-0.1						
TUA	PG	00 19 14.0	-0.2	0.60	220				
	ESG	23	0.6			4.7	4.3		
ECZ	EPG	00 19 22	0.6	0.96	48				
	E	30				4.1			
KRP	EPG	00 19 36	-0.6	1.72	284				
	E	40				3.3			
MNG	E	00 19 40.8		2.82	216				
	EPG	59	0.2			3.4			
	E	20 13							
FELT ORATOQUI (37)									
JUL 02									
H M S	05 54 48.3	41.92S 171.76E	12 KM	SE	1.5	AVG MAG	68/ 519		
	+ - 0.4	0.03 0.03	R				3.5		
INANGAHUA AFTERSHOCK I / 807. FELT									
JUL 02									
H M S	09 09 39.4	41.55S 172.08E	12 KM	SE	0.9	AVG MAG	68/ 511		
	+ - 0.3	0.02 0.02	R				3.2		
INANGAHUA AFTERSHOCK I / 809. FELT									
JUL 02									
H M S	17 41 39.3	43.87S 168.97E	33 KM	SE	1.8	AVG MAG	68/ 511		
	+ - 1.9	0.10 0.09	R				3.2		

STATION	TIME	COORDINATES	DEPTH	DIST	AZ	MAG	W-A	W P	W S
HJZ	17 41 58	-1.5 1.09	97					3.4	2.9
S*	42 15.0	0.6							
MNW	S*	17 42 46	0.4	2.14	206				3.3
KAI	S*	17 42 30	0.5	2.23	54		3.2		
E	49								
ES*									
FELT HAAST (103) M4 IV									
JUL 02									
H M S	18 16 57.2	41.66S 171.92E	12 KM	SE	0.9	AVG MAG	68/ 512		
	+ - 0.3	0.02 0.02	R				3.7		
INANGAHUA AFTERSHOCK I / 809. FELT									
JUL 02									
H M S	19 49 17.4	45.17S 167.01E	33 KM	SE	1.8	AVG MAG	68/ 513		
	+ - 1.3	0.04 0.08	R				5.4		
H M S	19 49 32.7	DIR RES	DIST	AZ	W-A	W P	W S		
MNW	P*	19 49 47	-0.2	1.66	102				
ROX	P*	50 09	-0.3						
	S*	19 49 52.0	-0.4	1.97	140			5.3	5.4
WPZ	EP*	50 18	-0.5						
	ES*	19 49 59.0	0.8	2.74	66				
	PN	50 00							
HJZ	I	19 50 16.0	-1.3	4.13	52			5.4	
KAI	EPN	20 5							
	E	33	3.6						
	IP*	51 11.5	8.2*						
	ESN	19 50 20.0	0.5	4.29	72			5.2	
GPZ	EPN	26 8							
	E	38 5							
	ESN	51 08	0.9						
COB	EPH	19 50 39.0	-1.4	5.84	48			5.4	5.6
	I	39 8							
	SN	51 41	-3.6						
WEL	E	19 50 49		6.86	58			5.5	
	E	57							
	SN	52 08	-1.0						
MNG	EPN	19 51 03.5	-1.9	7.70	57				
	I	09 3							
	ESN	52 32	3.0						
TNZ	EPN	19 51 11.8	1.0	8.10	45				
	E	15							
	E	52 45							
KRP	EPN	19 51 32.0	0.6	9.65	44				
	ESN	53 15	-0.5						
CIZ	E	19 52 15		11.78	90				
FELT FIORDLAND, MAXIMUM INTENSITY MM V									
USCGS ORIGIN 19 49 17.0 45.0S 167.0E 26.5KM									
JUL 03									
H M S	06 22 39.0	41.87S 172.04E	12 KM	SE	0.8	AVG MAG	68/ 514		
	+ - 0.3	0.02 0.03	R				4.0		
H M S	06 22 54	DIR RES	DIST	AZ	W-A	W P	W S		
KAI	P*	23 05	0.1	0.81	216			3.7	
	S*	06 22 55.3	-0.8	0.94	34			4.3	4.6
COB	P*	23 08.5	-0.3						
	S*	06 23 15	2.8*	1.88	167			3.7	
GPZ	EP*	36	-1.1						
	S*	06 23 16	-0.4	2.12	75			3.6	4.0
WEL	EP*	19							4.2
	E	46	1.5						
	ES*	06 23 18	0.5	2.41	208			3.6	
MJZ	EPN	47	0.8						
	SN	06 23 24	0.0	2.88	65			4.1	3.9
MNG	EPN	29	-0.3						
	IP*								



E 24 02 FELT ARTHURS PASS (93) MM V, WESTPORT (79) MM IV											
H M S		41.73S 171.89E		12 KM SE 1.5		AVG MAG 68/ 515					
09 49 31.5		0.05 0.09		R		3.3					
+ - 0.9											
H M S		DIR RES		DIST AZ		W-A W P W S					
KAI	P*	09 49 47 4		-0.1	0.87	204	3.5				
	S*	58		-1.4							
COB	P*	09 49 47 4		-0.6	0.90	45	3.8	3.9			
	S*	50 00 2		-0.1							
GPZ	E	09 50 12			2.04	165	3.3				
	ESN	30		0.3							
MJZ	EPN	09 50 13		1.9	2.49	204	2.9				
	E	44									
FELT WESTPORT (79)											
H M S		42.01S 171.82E		12 KM SE 1.3		AVG MAG 68/ 514					
12 47 30.9		0.04 0.04		R		4.7					
+ - 0.5											
H M S		DIR RES		DIST AZ		W-A W P W S					
KAI	P*	12 47 41 3		-1.0	0.60	210	5.1				
	I	42 0									
	S*	50 5		-0.2							
COB	P*	12 47 50 7		-0.9	1.15	37	5.1				
	S*	43 06		-1.1							
GPZ	PN	12 48 00		-1.1	1.80	160					
	EP*	04		1.2							
	E	22									
MJZ	PN	12 48 06 5		-0.2	2.21	206	4.4				
	IP*	13		3.1*							
	ES*	39		-0.1							
WEL	EPN	12 48 08 5		0.2	2.33	73	4.9				
	IP*	12 0		0.2							
	ES*	42		-0.5							
	IS*	45		2.5							
MNG	PN	12 48 19 5		0.8	3.09	65	4.9	5.0			
	IP*	26		1.1							
	E	49 13									
TNZ	EPN	12 48 23		-0.2	3.43	36	4.4				
	E	33									
CAZ	E	12 48 39			3.49	73					
	I	49 32									
MNW	E	12 48 45			4.84	217	4.2				
	ESN	49 36		-0.9							
	I	45									
CIZ	ESN	12 51 07		-2.9	8.74	107					
FELT NORTHERN WESTLAND. MAX. INTENSITY MM IV											
H M S		44.92S 167.66E		97 KM SE 1.7		AVG MAG 68/ 517					
09 19 35.5		0.08 0.10		16		4.6					
+ - 1.4											
H M S		DIR RES		DIST AZ		W-A W P W S					
MNW	IP	09 19 54 8	D	0.4	0.86	182	4.9				
	S	20 07		-1.7							
ROX	EP	09 20 01		1.3	1.30	116					
	E	19									
WPZ	EP	09 20 07 7		0.2	1.93	155	4.7	4.9			
	S	31		-0.1							
MJZ	P	09 20 12 6	D	1.2	2.21	66	4.2	4.5			
	S	40		2.0							
KAI	E?	09 20 33			3.62	50	4.4				
	S	21 13		0.4							
GPZ	EP	09 20 34		1.1	3.78	73	4.6				
	S	21 14		-2.5							
COB	EP	09 20 54 0		-0.2	5.34	46	4.3	4.5			
	E	21 05									

## LOCAL EARTHQUAKES

FELT QUEENSTOWN (132) MM IV											
H M S		44.27S 168.41E		12 KM SE 1.5		AVG MAG 68/ 518					
09 21 25		0.05 0.06		R		4.2					
22 41											
+ - 1.0											
H M S		DIR RES		DIST AZ		W-A W P W S					
ROX	ESN	11 33 42		-1.9	1.37	152					
	PN	11 33 25 2		-2.3	1.51	80			4.1	4.2	
MJZ	S*	48		-0.1							
	P*	11 33 29 0		-0.8	1.61	200			4.6	4.4	
	S*	53		1.7							
WPZ	EPN	11 33 39		-0.6	2.41	173			4.2	4.0	
	ESN	34 09		0.7							
KAI	EP*	11 33 50		-0.0	2.79	52	4.5				
	S*	34 26		-0.8							
GPZ	EP*	11 33 56		0.6	3.11	81	3.9				
	E	34 02									
	ES*	36		1.8							
MNG	EPN	11 34 35		1.9	6.38	58					
FELT SOUTHERN WESTLAND MM IV											
H M S		44.22S 167.93E		12 KM SE 1.0		AVG MAG 68/ 519					
13 20 29.8		0.03 0.03		R		5.2					
+ - 0.5											
H M S		DIR RES		DIST AZ		W-A W P W S					
MNW	P*	13 20 57 5		-0.3	1.58	188					
ROX	P*	13 20 59		0.8	1.60	142					
	S*	21 18		-1.5							
MJZ	PN	13 21 00 5		-0.1	1.84	84	5.3				
WPZ	PN	13 21 10 2		0.2	2.53	165	4.9	5.0			
	ESN	41		0.8							
KAI	EPN	13 21 18		1.0	3.05	57					
	P*	27		3.9*							
	ES*	22 04		0.9							
GPZ	EPN	13 21 22 2		-0.1	3.45	83	5.4				
	P*	29 5		-0.3							
	ES*	22 15		-0.0							
COB	EPN	13 21 38 8		-0.9	4.73	50	5.4	5.5			
	E	40 5									
	E	44									
WEL	ESN	22 31		-2.1							
	EPN	13 21 55		0.7	5.83	62	5.0				
	I	22 00									
	I	02									
	E	23 14									
MNG	EPN	13 22 05		-0.4	6.65	60					
	I	10 0									
	I	23 29									
CIZ	SN	13 25 07		1.5	11.16	94					
FELT SOUTHERN WESTLAND MM IV											
H M S		43.97S 167.97E		40 KM		AVG MAG 68/ 520					
22 13 03.4		0.03 0.03		R		4.3					
+ - 0.4											
H M S		DIR RES		DIST AZ		W-A W P W S					
KAI	P*	22 13 20 0		0.7	0.87	211					
	S*	32 6		1.7							
COB	P*	22 13 19 2	J	-0.3	0.88	38	4.4				
	S*	31		-0.5							
GPZ	EP*	22 13 37		-1.1	1.96	167	4.1				
	E	42									
	S*	14 04		-0.0							
WEL	P*	22 13 40 2		-0.6	2.12	77	4.0	4.5	4.7		
	I	42 5									







MNG		ES*	02 13	2.5						
E			18 01 27	6.61	58					
JUL 08	H M S		43.92S	173.29E	59 KM	SE	1.3	AVG MAG	68/ 531	
			0.05	0.06	17				3.8	
	H M S				DIR	RES	DIST	AZ	W-A	W P W S
	GPZ	P	16 11 13	0		-0.2	0.52	296		
	KAI	EP	16 11 31			-1.1	1.96	315	3.4	
	MJZ	P	16 11 34	0		0.8	2.04	267		3.8 3.8
	I	S								
	WEL	EP	16 11 45			0.0	2.85	23	3.9	3.7
		E								
		ES	12 20			1.5				
	COB	EP	16 11 44	0		-1.1	2.86	352		4.1 3.9
		E								
		ES	12 18			-0.8				
	MNH	EP	16 12 06			-1.1	4.44	243		3.8 3.5
		E								
		ES				0.0				
JUL 08	H M S		59.31S	174.70E	227 KM	SE	1.6	AVG MAG	68/ 535	
			0.05	0.06	7				4.6	
	H M S				DIR	RES	DIST	AZ	W-A	W P W S
	TNZ	P	22 15 08	8		1.0	0.27	297		
		S				-0.6				
	CNZ	P	22 15 10	0		1.0	0.67	81	4.0	4.0
		S								
	MNG						1.44	155	4.9	
	KRP	IP	22 15 14	3		-0.4	1.53	26	4.2	
		S				-2.6				
	WEL	P	22 15 20	2		1.6	1.97	178	4.5	4.5 4.6
		S				-0.5				
	TUA	P	22 15 19	8		1.1	1.98	76	4.8	4.7
		ES				-0.6				
	COB	P	22 15 23	2	U	1.1	2.32	220	5.0	4.8
		S				-1.1				
	GNZ						2.68	77	5.3	5.1
	GBZ	IP	22 15 32	0		0.7	3.15	12	4.2	
	ECZ	P	22 15 34	5		-0.0	3.43	63	5.1	4.5
		ES				-2.3				
	KAI	ES	22 17 31			-0.9	4.06	217	4.5	
	GPZ	EP	22 15 50			0.7	4.64	199	5.1	
		S				-1.9				
	MJZ	EP	22 17 02			0.2	5.64	213	4.0	3.8
		S				-4.1*				
JUL 09	H M S		41.83S	171.72E	12 KM	SE	1.5	AVG MAG	68/ 536	
			0.03	0.05	R				4.1	
	H M S				DIR	RES	DIST	AZ	W-A	W P W S
	KAI	P*	03 00 41			-0.2	0.73	198		
	COB	IP*	03 00 46	0	D	-1.1	1.07	46	4.6	4.7
		S*				-2.5				
	GPZ	EPH	03 00 58			-2.3	1.98	160	3.7	
		EP*				2.3				
		ESN	01 05			-0.4				
		ES*	28			-0.9				
	MJZ	EPH	03 01 04	5		-0.7	2.34	203	3.9	4.0
		IP*				-0.0				
		ESN	33			-0.1				
		IS*	41			1.3				
	WEL	PN	03 01 05	5		0.1	2.35	78	4.0	4.2 4.4
		IP*				-0.8				
		ESN	35			1.5				

MNG		EPH	03 01 19	0.2	3.09	68					
TNZ		E	<td></td> <td>3.33</td> <td>38</td> <td colspan="4"></td>		3.33	38					
		ES*	02 13		3.4*						
		EP*	03 01 38		1.9	3.93	49	3.8 3.8			
		ES*	02 29		1.5						
JUL 09	H M S		36.69S	175.81E	12 KM	SE	1.7	AVG MAG	68/ 537		
			0.05	0.08	R				3.3		
	H M S				DIR	RES	DIST	AZ	W-A	W P W S	
	AUC	EPG	07 15 00			0.2	0.84	258			
		E									
		SG				0.6					
		PG	07 15 08	0		-0.2					
	KRP	SG				0.0	1.25	190		3.6 3.9	
		SG				-1.6					
	ONE	EPG	07 15 13			0.4	1.48	308			
	CNZ	EPG	07 15 32			-1.5	2.51	185		3.0 2.7	
		ESG				2.6					
	FELT	COROMANDEL (18)									
JUL 09	H M S		41.75S	178.45E	33 KM	SE	1.1	AVG MAG	68/ 538		
			0.04	0.03	R				4.3		
	H M S				DIR	RES	DIST	AZ	W-A	W P W S	
	MNG	EP	14 02 10	3		1.3	2.91	296		3.8 4.3	
	WEL	E					2.80	278		3.8	
		E									
		E									
	TUA	P	14 02 12	5		-0.7	3.10	341		4.7	
		E									
		E									
		E									
	GNZ	P	14 02 17	4		0.5	3.12	354		4.5	
	CNZ	E					3.37	318		3.7	
		EP	14 02 26	6		0.9	4.02	308		4.1	
	TNZ	EP									
		E	03 10			0.8	4.28	123		4.8 4.9	
	CIZ	P	14 02 30	0		-0.6					
		S				0.8	4.35	277		4.2 4.2	
	COB	EP	14 02 31			0.6					
		S				-0.4	4.43	329		3.9	
	KRP	P	14 02 30	9		-1.3					
		S				-1.8	4.70	244		4.3	
	GPZ	ES	14 03 25				5.29	259		4.4	
	KAI										
JUL 09	H M S		45.63S	166.52E	33 KM	SE	1.0	AVG MAG	68/ 539		
			0.06	0.07	R				3.8		
	H M S				DIR	RES	DIST	AZ	W-A	W P W S	
	MNH	IPN	23 37 49	8	D	0.2	0.78	102		4.3 4.2	
		SN				0.4					
	WPZ	EPN	23 38 04			-1.3	1.92	123		4.0	
	ROX	EPN	23 38 07			1.0	1.97	87		3.8 3.8	
		ESN				0.2					
	HJZ	EPN	23 38 24			0.5	3.25	61		3.2 3.0	
		ESN				-1.0					
JUL 10	H M S		40.20S	174.17E	33 KM	SE	0.9	AVG MAG	68/ 540		
			0.02	0.02	R				3.9		
	H M S				DIR	RES	DIST	AZ	W-A	W P W S	
	TNZ	P*	10 55 13	3		1.1	1.03	9		4.0 4.1	
		S*				2.7*					
	MNG	S*	10 55 28			0.1	1.08	113		4.1	
	WEL	EP*	10 55 15			0.3	1.17	158	3.4	3.8 3.9	
		S*				0.4					





STATION	TIME	DEPTH (km)	MAG	DIST (km)	AZ	M-A	M-P	M-S
ECZ	20 35 15 0	-0.6	1.66	107				
ES	42							
ESP	48	-1.0						5.2 5.3
CNZ	20 35 20 8	1.8	2.11	201				
I	54							4.8
EP	35 00							
ONE	20 35 21	0.4	2.28	309				4.1
S	57 5	-0.7						
PNZ	20 35 26 7	3.3*	2.59	220				
MNG	20 35 33 0	0.5	3.48	193				4.7
E	35 14							5.1
S	20	0.5						
WEL	20 33 41 3	-0.1	4.27	198				5.6
S	36 36	0.7						5.3 5.3
COB	20 33 47 5	-0.5	4.85	216				4.8 5.1
S	35 47	-0.3						
KAI	20 36 11	1.9	6.59	215				5.1
S	37 24	-1.0						
GPZ	20 36 14	-1.4	7.10	203				5.6
S	37 35	-1.2						
CIZ	20 38 28		8.51	144				
H M S	11 07 07.0	41.82S	171.87E	12 KM	SE	1.6		68/ 54
+	0.6	0.04	0.05	R				AVG MAG 3.8
KAI	11 07 22 5	1.0	0.79	206				3.5
EP*	32	-0.3						
S*	11 07 25 2	0.5	0.97	42				4.1 4.7
COB	38 5	0.6						
GPZ	11 07 37	-2.3	1.96	163				3.4
EPN	09 04 5	1.3						
E	11 07 44	0.9	2.24	77				3.7 3.7 3.8
ESN	09 15	-0.9						
WEL	11 07 55	1.7	2.97	67				3.8 3.5
S*	57							
MNG	11 08 01	2.0						
EPN	36	-2.0						
E	11 08 01	-2.7	3.25	37				3.8 3.7
EP*	55							
TNZ	11 08 07.0	-0.8	4.06	224				3.7
ES*	34							
MSZ	11 08 19	-0.1						
EPN	54	1.2	4.80	37				
E								
KRP	11 08 19							
ESN								
FELT	WESTPORT (79) MM IV							
H M S	02 05 39.9	39.15S	175.23E	147 KM	SE	1.5		68/ 54
+	0.6	0.03	0.03	7				AVG MAG 4.6
CNZ	02 05 00.9	0.8	0.25	98				
IP	02 05 02 5	0.5	0.66	268				4.3 4.1
TNZ	20	1.0						
KRP	02 06 07 8	0.7	1.26	11				4.3 4.8
IP	26 3	-1.6						
MNG	02 06 11 1	1.9	1.47	172				4.9 4.7
IP	30.0	-1.6						
TUA	02 05 11 2	1.2	1.54	77				4.5 4.8
P	31 6	-1.4						
WEL	02 05 18 7	1.7	2.15	189				4.3 4.7 4.8
S	45 5	0.1						
GNZ	02 05 19 0	0.9	2.24	77				5.0 5.2
S	40 5							
E	45	-2.4						
COB	02 05 25 1	0.9	2.71	224				4.8 4.6
S	59	0.9						

## LOCAL EARTHQUAKES

STATION	TIME	DEPTH (km)	MAG	DIST (km)	AZ	M-A	M-P	M-S
GPZ	02 06 26	=1.3	2.95	4				3.6
ECZ	02 06 28.3	0.5	2.99	62				5.3 5.1
S	07 06	1.6						
KAI	02 06 50		4.44	220				4.5
S	07 36	=2.1						
GPZ	02 06 52	=1.2	4.93	202				4.9
S	07 45	=4.8*						
MSZ	02 07 30	=0.9	7.74	222				
ES	08 51	=6.4*						
H M S	45.12S	167.32E	12 KM	SE	0.7			68/ 590
JUL 17	08 46 38.3	0.02	0.04	R				AVG MAG 3.6
+	0.7							
H M S	08 46 50.0	0.0	0.62	43				M-A M-P M-S
MSZ	58.0	=0.6						3.1 3.4
S*	08 46 51.8	0.6	0.69	162				3.7 3.8
IP*	47 00	=0.7						
MNW	08 47 05	0.7	1.45	105				3.6 3.6
S*	24	0.3						
RDX	08 47 36	=0.3	1.87	146				3.8
S*								
WPE	TE ANAU (130)							
H M S	38.02S	176.53E	192 KM	SE	1.6			68/ 551
JUL 17	21 25 33.9	0.06	0.06	R				AVG MAG 4.8
+	1.2							
H M S	21 26 00.8	=0.9	0.79	276				M-A M-P M-S
KRP	22	=1.2						4.6 4.0
S	21 26 03.5	1.0	0.93	149				5.1 4.9
TUA	24	=0.7						
ES	21 26 06.0	0.4	1.33	119				5.4 5.6
GNZ	29.5	=0.7						
P	21 26 08.2	1.8	1.41	213				4.2 3.8
GNZ	37	5.5*						
S	21 26 07.0	=1.4	1.63	79				5.3 4.9
ECZ	30							
E	21 26 11		1.81	309				
AUC	21 26 15	2.3	2.05	235				3.9 3.8
TNZ	49							
EP	21 26 22.8	2.3	2.72	197				
MNG	57	0.5						
S	21 26 30.5	0.2	3.54	202				5.2 4.6 5.1
WEL	27 15.5	1.7						
S	21 26 39	=0.2	4.25	223				4.1 5.1
COB	27 29.8	0.1						
S	21 27 03		5.97	219				5.1
KAI	28 08	=1.5						
E	21 27 06	=0.9	6.39	206				5.6
GPZ	28 16.5	=2.9						
ES								
H M S	37.98S	176.28E	244 KM	SE	1.1			68/ 552
JUL 18	19 21 24.9	0.05	0.05	R				AVG MAG 4.2
+	1.0							
H M S	18 21 57	=0.5	0.59	275				M-A M-P M-S
KRP	22 22	=0.8						3.2
S	18 22 28	0.9	1.08	141				4.3
TUA	18 22 03	1.2	1.35	205				3.0
GNZ	34							
EP	18 22 03.8	0.7	1.53	116				4.5 4.8
GNZ	31	=1.6						
ES	18 22 05	=0.5	1.82	82				4.5
ECZ	18 22 08	1.7	1.91	230				4.0
TNZ	18 22 14.8	0.5	2.71	193				4.8 4.3
MNG	53.2	0.5						
P	18 22 23.5	0.4	3.50	199				4.8 4.2 4.4
WEL								



		H	M	S			DIR	RES	DIST	AZ			
	COB	S	23	09				0.7					
	EP	S	18	22	29.5			=1.1	4.14	220		4.2	4.2
	GPZ	ES	18	24	09			=1.4	6.34	205	4.8		
JUL 19	H M S				41.77S	172.05E	12 KM		SE	1.8	AVG MAG	68/ 551	
			02	42	10.3		R	0.05				4.1	
	COB	IP*	02	42	24.5		U	=1.5	0.86	37	W=A	W P	W S
		S*			35.7			=2.0				4.7	
	KAI	P*	02	42	25			=1.6	0.89	212			
		ES*			37			=1.7					
	GPZ	EPV	02	42	41			=1.8	1.97	167	3.9		
		IP*			47			=1.9					
		ISV			43 08			=1.2					
	WEL	EP*	02	42	46.7			=0.6	2.10	78	3.9	4.4	4.4
		ES*			43 13			=2.0					
	MNG	EPV	02	42	54			=0.7	2.83	67			
		ES*			59			=0.9				4.5	4.3
		ES*			43 38			=0.9					
	TNZ	EPV	02	42	59			=0.4	3.13	35			
		EP*			43 07			=2.0			4.1		
	CNZ	PN	02	43	06.0			=0.3	3.70	47		4.3	3.3
		IP*			18.2			=3.9					
		ES*			44 05			=2.8					
	ROX	EPV	02	44	58				4.20	207			
	KRP	EPV	02	43	19			=0.6	4.69	36		4.0	3.1
		EP*			29.5			=2.1					
		ES*			21								
	MNW	EPV	02	43	28			=2.4	5.13	217		3.9	4.0
		ESV			44 24			=0.7					
JUL 21	H M S				41.62S	171.86E	12 KM		SE	1.4	AVG MAG	68/ 551	
			05	59	37.8		R	0.03				4.1	
	COB	IP*	06	00	13.2		D	=0.2	0.85	51	W=A	W P	W S
	KAI	P*	06	00	16.2			=0.9	0.96	200		3.2	3.1
		S*			28.2			=0.2					
	GPZ	EPV	06	00	30.5			=2.2	2.15	165	4.1		
		EP*			37.5			=1.8					
		ESV			56			=2.6					
		ES*			01 06			=1.9					
	WEL	PV	06	00	33.2			=0.4	2.21	82	4.4	4.6	5.0
		P*			36			=0.7					
		SN			01 01			=0.9					
	MNG	PN	06	00	42.2			=1.1	2.91	71		4.8	
		EP*			49.7			=0.9					
		ESV			45.3								
	CNZ	IP*	06	00	58			=1.6	3.71	50		4.1	4.3
		IP*			01 04								
		ES*			49			=5.0*					
	KRP	EPV	06	01	07.0			=0.3	4.65	39		4.2	
		EP*			16								
		SN			30								
	GNZ	ES	06	02	14			=0.3	5.38	60		4.3	
		ESV			21			=0.6					
	FELT WESTPORT (79) MM IV												
JUL 22	H M S				41.70S	171.58E	12 KM		SE	0.9	AVG MAG	68/ 551	
			18	24	51.0		R	0.07				3.3	

		H	M	S			DIR	RBS	DIST	AZ	W=A	W P	W S
	KAI	EP*	18	29	07			0.6	0.84	159	3.1		
		S*			17			=0.8					
	COB	P*	18	29	09.5			=0.7	1.06	55		3.7	3.8
		S*			24			=0.4					
	GPZ	EP*	18	29	29			0.3	2.14	159			
	MNG	EPV	18	29	39			=0.3	3.13	71		3.2	
		EP*			47			=1.3					
		ES			49.8								
		ESV			52.5								
	FELT WESTPORT (79) MM IV												
JUL 24	H M S				38.05S	177.91E	118 KM		SE	2.0	AVG MAG	68/ 556	
			00	00	56.2		R	0.07				4.7	
	SCZ	IP	00	01	14.8		U	=0.2	0.62	55		5.2	5.5
		S			27.7			=1.6					
	TJA	P	00	01	20.0			2.0	0.97	218		5.0	4.9
		S			35.7			1.1					
	KRP	P	00	01	29.0		U	0.6	1.88	273		4.5	4.3
		S			49.8			=3.0					
	CNZ	IP	00	01	35.0			2.7	2.18	257		4.2	
	TNZ	P	00	01	46.6		D	3.3	2.99	246		4.4	
	MNG	P	00	01	45.9			0.1	3.18	215		4.2	4.2
		ES			02 24			0.5					
	WEL	P	00	01	57.0			=0.4	4.04	216	4.8	4.4	4.7
		S			02 43.5			=0.6					
	COB	P	00	02	10.0			=0.6	5.02	231		4.5	4.5
		ES			03 09			=1.1					
	KAI	EP	00	02	35			=1.3	6.68	226	4.8		
	GPZ	S			03 50			=3.9	6.91	214	5.5		
	CIZ	E	00	02	47				7.23	146			
		S			04 02			0.3					
	HJZ	EP	00	02	53			=0.4	8.17	221			
		ES			04 20			=4.6*					
JUL 24	H M S				41.53S	171.91E	33 KM		SE	1.7	AVG MAG	68/ 557	
			18	53	53.9		R	0.07				3.4	
	COB	P*	18	54	08.2		DIR	=0.5	0.76	55	W=A	W P	W S
		S*			18.8			=0.6				3.6	3.9
	KAI	EP*	18	54	16			2.3	1.07	200	3.1		
		S*			26			=2.2					
	WEL	ES*	18	55	01			0.1	2.16	85	3.3		
	GPZ	ESN	18	54	54			0.5	2.24	166	3.1		
	MNG	P*	18	54	44.5			0.5	2.85	73		3.2	
	FELT MURCHISON (80) MM IV												
JUL 25	H M S				30.77S	178.35W	60 KM		SE ND		AVG MAG	68/ 558	
			07	23	07.8		R					7.7	
	ECZ	EP	07	24	50.8		DIR	=4.3*	7.37	200			
		I			54								
	GBZ	P	07	24	59			2.3*	7.49	222			
	ONE	P	07	25	05			2.8*	7.88	229			
	GNZ	P	07	25	02			=7.3*	8.40	200			
		I			06.5								
	KRP	P	07	25	11.8			=2.2*	8.74	214			
	TJA	EP	07	25	10			=5.2*	8.83	204			
		ES			26 49			=5.2*					
	CNZ	P	07	25	23			=5.2*	9.78	209			
		E			36								
	MNG	EP	07	25	35			=10.1*	11.03	205			





		H	M	S			AVG MAG	68/311
MNG	IPV	22	19	01.0	-0.0	2.93	69	
	IP*			06.5	0.0			4.2 4.3
	I			03.8				
	S			44	-1.0			
TNZ	IPV	22	19	05	1.0	3.16	38	
	S			17	-0.8			4.0 3.8
	ES*			51				
RDX	ESV	22	19	21		4.20	203	
	EPV			20 07	1.1			3.9
KRP	EPV	22	19	25	0.1	4.71	38	
	S			46				
	SV			20 18	-0.1			
FELT MURCHISON (80) MM IV, WESTPORT (79)								
AUG 02		H	M	S			AVG MAG	68/311
		06	12	19.7	45.20S	167.74E	167 KM	SE 1.1
				0.9	0.05	0.06	8	4.7
		H	M	S	DIR	RBS	DIST	AZ
MSZ	IP	06	12	43.0	U	-0.4	0.54	13
MNV	IP	06	12	42.8	U	-0.8	0.59	198
RDX	IP	06	12	49.7	U	2.1	1.15	109
	ES			13 09.5				
WPZ	IP	06	12	53.3	D	0.4	1.65	192
	S			13 16.3		-1.5		
MJZ	IP	06	13	00.6		0.9	2.29	59
	S			30.5		0.0		
KAI	ES	06	14	03		-0.2	3.76	46
SPZ	ES	06	14	04		-0.4	3.82	69
COB	EP	06	13	41		0.3	5.50	43
	ES			14 43		-0.6		
MNG	EP	06	14	04		-0.6	7.30	54
AUG 02		H	M	S			AVG MAG	68/311
		11	35	53.9	45.05S	167.55E	93 KM	SE 0.8
				0.9	0.03	0.04	9	4.4
		H	M	S	DIR	RBS	DIST	AZ
MSZ	IP	11	36	10.0	U	1.1	0.46	35
MNV	IP	11	36	11.2		-0.1	0.73	176
	S			23.5		-1.0		
RDX	IP	11	36	18.0	D	-0.2	1.32	110
	S			37		0.6		
WPZ	EP	11	36	25		0.2	1.85	151
	ES			48		0.4		
MJZ	IP	11	36	31.0		-0.4	2.34	64
	IS			58.7		-0.6		
AUG 02		H	M	S			AVG MAG	68/311
		22	37	11.6	42.02S	171.90E	12 KM	SE 1.5
				0.5	0.04	0.04	R	3.9
		H	M	S	DIR	RBS	DIST	AZ
KAI	EP*	22	37	24		0.6	0.63	215
	S*			33.2		1.1		
COB	IP*	22	37	30.8		-1.1	1.12	34
	S*			45		-1.9		
BPZ	EP*	22	37	43		0.0	1.77	162
	E			47				
MJZ	ES*	22	37	49		-0.9	2.23	208
	EP*			38 18.5		-1.9		
WEL	ES*	22	37	52		0.4	2.27	72
	EP*			38 22		0.5		
MNG	EPN	22	38	03		4.3	3.04	64
	IP*			06.3		1.6		
	ES*			46		1.4		
MSZ	ESV	22	38	56		0.3	3.93	226
	ES*			39 13.5		2.0		

## LOCAL EARTHQUAKES

		H	M	S			AVG MAG	68/311
AUG 03		07	34	33.8	36.82S	177.68E	165 KM	SE 2.1
				3.3	0.16	0.19	27	4.0
		H <td>M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td></td>	M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td>	S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td>	DIR	RBS	DIST	AZ
EGZ	EP	07	35	01.5		0.4	1.11	142
	ES			22		-0.1		
QNZ	P	07	35	09.6		1.2	1.84	172
	ES			34		-1.1		
	ES			40.5				
BPZ	IP	07	35	07.1		-1.6	1.97	288
	EP			13		2.9	2.04	236
KRP	EP	07	35	36		-1.4	4.17	204
MNG	EP			35 28.5				3.5 3.6
AUG 03		H <td>M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td></td>	M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td>	S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td>			AVG MAG	68/311
		10	44	45.0	40.69S	178.28E	33 KM	SE 0.8
				0.9	0.04	0.05	R	4.3
		H <td>M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td></td>	M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td>	S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td>	DIR	RBS	DIST	AZ
QNZ	PN	10	45	17.7		0.7	2.05	354
	I			24.8				
	ESV			40		-0.7		
TJA	EPN	10	45	18		0.7	2.07	335
	ESV			41		-0.2		
MNG	EPN	10	45	17		-1.0	2.13	271
	E			31		0.4		
	ESV			43		-0.2		
WEL	EPN	10	45	26		-0.2	2.72	256
	E			38				
	ESV			96		-1.0		
COB	EPN	10	45	47		0.3	4.22	263
	ESV			46 34.5		0.9		
AUG 04		H <td>M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td></td>	M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td>	S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td>			AVG MAG	68/311
		03	23	20.4	41.72S	172.29E	12 KM	SE 1.0
				0.3	0.02	0.03	R	3.7
		H <td>M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td></td>	M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td>	S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td>	DIR	RBS	DIST	AZ
COB	IP*	03	23	33.0	U	-0.7	0.71	28
	S*			43.4		-0.1		
KAI	IP*	03	23	39.3		-0.0	1.04	219
	S*			53		-0.4		
WEL	IP*	03	23	53.8		-0.4	1.91	78
	S*			24 20		0.9		
BPZ	E	03	24	00			1.99	173
	ES*			22		-0.0		
MJZ	EP*	03	24	05		-1.6	2.64	210
	E			36				
	ES*			43		1.7		
MNG	PN	03	24	03.4		1.1	2.65	67
	IP*			06.0		-0.8		
	ES*			41		-0.6		
TNZ	EPN	03	24	07		0.1	2.99	33
CNZ	E	03	24	20.5			3.53	46
KRP	EPN	03	24	27		-0.7	4.54	34
	ESV			25 21		1.9		
FELT MURCHISON (80) MM IV								
AUG 05		H <td>M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td></td>	M <td>S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td> </td>	S <td colspan="2"></td> <td>AVG MAG</td> <td>68/311</td>			AVG MAG	68/311
		17	07	12.2	47.86S	165.13E	33 KM	SE 0.8
				1.1	0.09	0.05	R	4.3
		H <td>M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td></td>	M <td>S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td> </td>	S <td>DIR</td> <td>RBS</td> <td>DIST</td> <td>AZ</td>	DIR	RBS	DIST	AZ
MNV	P	17	07	52.8		0.4	2.69	40
	S			08 22		-0.9		
WPZ	EP	17	07	53		-0.9	2.80	66
	S			08 26		0.4		
MSZ	P	17	08	07.0		0.4	3.73	32
	E			50				

ROX		P	17 08 07	0.2	3.74	52					
H M S		S	49	0.4			4.2	4.1			
AUG 05	21 11 10.0		41,815 171,88E	12 KM	SE	1.5	AVG MAG	68/ 372			
	+ 0.5		0.04 0.05	R				3.1			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
KAI	P* 21 11 24.7		0.1	0.79	206	3.9	W 1				
	S* 34.2		-1.3								
COB	IP* 21 11 27.8		0.2	0.97	42		4.2				
	S* 41		0.3								
GPZ	P* 21 11 46.5		1.8	1.96	164	3.7					
	SN 12 07		0.7								
WEL	EP* 21 11 51		1.8	2.23	77	3.7	3.8				
	S* 12 17		-1.7								
MNG	EP* 21 12 00		-1.8	2.97	67						
TVZ	E 21 12 04			3.24	37						
	E 13 00		0.5	3.82	48		3.6	3.1			
CNZ	EP* 21 12 17		-1.6								
	ES* 13 05		0.1	4.07	224		3.6	3.1			
MSZ	PN 21 12 11.0		-1.3								
	SN 56		2.2	4.79	37		3.8				
KRP	EPN 21 12 23.0										
	E 43										
FELT MURCHISON (80) WESTPORT (79) MH IV											
AUG 05	21 14 26.3		41,788 171,76E	12 KM	SE	1.3	AVG MAG	68/ 371			
	+ 0.6		0.04 0.05	R				3.6			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
KAI	P* 21 14 41		0.0	0.79	199	3.9	W 1				
	S* 51		-0.8								
COB	P* 21 14 44.2		-0.6	1.01	47		3.8	4.1			
	S* 57		0.9	2.02	161	3.2					
GPZ	P* 21 15 03		-0.9								
	ESN 23.2		2.4	3.04	69		3.6				
MNG	EP* 21 15 22		0.1	4.03	223		3.2	3.1			
MSZ	EPN 21 15 27		0.2								
	ESN 16 13										
FELT WESTPORT											
AUG 06	09 08 37.7		41,748 172,05E	12 KM	SE	1.9	AVG MAG	68/ 371			
	+ 0.7		0.05 0.06	R				3.7			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
COB	P* 09 08 53.8		0.9	0.83	39		4.1	4.1			
	S* 09 05.5		1.2								
KAI	EP* 09 08 53		-1.5	0.92	211	3.9					
	S* 09 04		-2.9								
GPZ	EPN 09 09 10		-0.6	2.01	167	3.2					
	EP* 15		1.9								
	SN 35		0.1								
WEL	P* 09 09 15		0.4	2.09	78	3.9	3.9				
	ES* 43		0.8								
CNZ	EP* 09 09 40		-1.8	3.68	48			3.1			
	E 48		-2.0								
MSZ	ES* 09 10 49		3.3	4.21	224			3.1			
	EP* 57										
KRP	EP* 09 09 57		-1.5	4.66	36			3.6			
	E 10 09										
	ESN 41		1.7								
FELT MURCHISON (80) MH IV											
AUG 07	18 47 43.9		41,838 172,01E	12 KM	SE	1.3	AVG MAG	68/ 371			
	+ 0.4		0.03 0.03	R				4.1			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
MNG	P 11 37 06.9		-0.1	0.57	163		4.1	3.7			
	S 18		0.1								
MSZ	P 11 37 08.0		-0.2	0.68	34		3.8	4.1			
	S 20		0.0								
ROX	EP 11 37 17.5		0.5	1.39	101		3.5	3.6			
	S 35		-0.2								

H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
KAI	EP* 18 48 01		1.9	0.83	213						
	P* 18 48 00.0		-0.7	0.92	36						
COB	S* 18 48 10.7		2.5								
GPZ	EP* 18 48 17.8		-0.0	1.92	166						
	I 21.0										
	I 24										
	I* 42		-1.3								
WEL	EPV 18 48 20.3		1.6	2.14	76		4.2	4.7	4.9		
	IP* 22.8		1.2								
	ES* 49		-0.8								
MNG	EPV 18 48 29.0		0.0	2.88	66			4.7			
	IP* 36		1.7								
	E 49 08										
TVZ	EPV 18 48 33.0		-0.1	3.20	35			4.1			
	E 37.2										
	EP* 41		1.3								
	E 49 15										
CNZ	PN 18 48 42.0		1.3	3.76	47			4.1			
	P* 55		5.6*								
	E 49 38										
MSZ	PN 18 48 44.4		-1.2	4.12	225			4.3	4.6		
	SN 49 32.0		-0.5								
ROX	SN 18 49 31.5		-1.3	4.13	207						
KRP	EPN 18 48 53.5		-0.6	4.75	36			4.0			
	SN 49 47		-0.7								
MNG	SN 18 49 56		0.7	5.07	217				4.3		
FELT WESTLAND MAXIMUM INTENSITY MH IV											
AUG 05	01 52 54.2		42,138 171,92E	12 KM	SE	1.5	AVG MAG	68/ 376			
	+ 1.0		0.03 0.08	R				4.0			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
COB	IP* 01 53 13.8	U	-2.1	1.20	31			4.9	4.8		
	S* 31		-1.0								
GPZ	EP* 01 53 23.8		0.1	1.66	162	3.5					
	E 27.3										
	ES* 45		-0.7								
	E 48										
WEL	P* 01 53 33.0		-1.5	2.29	69	3.8	4.0				
	ES* 54 05		0.3								
MNG	EPN 01 53 42.3		0.5	3.07	62						
	IP* 48.8		0.9								
	E 46										
TVZ	EPN 01 53 47		-0.3	3.48	33			4.1			
	E 51										
	EP* 57		2.1								
MSZ	E 01 53 53			3.87	228			3.6			
	E 54 13										
CNZ	EPN 01 53 55		0.5	4.02	45			3.7	3.8		
	EP* 54 07		2.9								
	E 55 03										
KRP	EPN 01 54 07		-1.2	5.03	35			4.0			
	EP* 22.5		1.1								
	ESN 58 03		-1.8								
FELT WESTPORT (79), HANGLES VALLEY (80)											
AUG 09	11 36 52.6		48,248 167,38E	76 KM	SE	0.4	AVG MAG	68/ 377			
	+ 0.5		0.01 0.02	R				3.8			
H M S		DIR	RBS	DIST	AZ	H=A	W P	W S			
MNG	P 11 37 06.9		-0.1	0.57	163		4.1	3.7			
	S 18		0.1								
MSZ	P 11 37 08.0		-0.2	0.68	34		3.8	4.1			
	S 20		0.0								
ROX	EP 11 37 17.5		0.5	1.39	101		3.5	3.6			
	S 35		-0.2								



HPZ	ES	11 37 43	=0.2	1.75	145				
AUG 09	H M S 22 33 39.4 + 0.4	39,415 175,04E 0.03 0.03	33 KM	SE	2.0	AVG MAG	68/ 311	3.1	
CNZ	P*	H M S 22 33 50.8 34 02	DIR	RES	DIST	AZ	H=A	M P	W S
TRZ	ES*	22 34 00.4		-0.6	0.62	104			
MNZ	P*	22 33 54.5		-0.1	0.78	4			
TJA	P*	22 34 00.8		1.8	1.05	56		3.1	
	S*	13		-0.4				3.4	5.1
MNG	P*	22 34 03.0	U	0.2	1.28	199			
CAZ	P*	22 34 07		0.5	1.50	175			
	ES*	28		1.4				4.7	3.1
KRP	IPN	22 34 02.8	D	-0.9	1.53	345			
	SN	21		-1.0				3.0	4.7
GNZ	P*	22 34 09.4		-0.9	1.72	64			
	ES*	30.5		-2.8				3.3	5.0
WEL	PN	22 34 12.0		0.3	2.11	207		4.8	3.0
	EP*	18		1.1					
	ES*	45.5		0.6					
	E	48.5							
ECZ	PN	22 34 20.0		1.6	2.61	50			
	ESN	52		3.9				4.9	3.1
	E	35 03							
AUC	PN	22 34 19		-1.2	2.73	338			
COB	PN	22 34 22.8		-1.6	3.03	259			
	I	27.0						3.4	5.1
	SN	59.5		1.0					
KAI	EPN	22 34 31		4.1	4.69	227		5.0	
	SN	35 38		-0.7					
GPZ	EPN	22 34 48		-2.9	4.98	210		5.0	
	SN	35 42		-3.8					
MSZ	EPN	22 35 30		-1.6	8.01	226			
	I	34.0							
	SN	36 51		-7.4*					
FELT DANNEVIRKE (63) MM IV									
AUG 10	H M S 10 29 35.1 + 2.1	34,335 179,29W 0.11 0.17	271 KM	SE	1.6	AVG MAG	68/ 312	3.2	
ECZ	EP	H M S 10 30 37 40.3	DIR	RES	DIST	AZ	H=A	M P	W S
GNZ	EP	10 30 45.5		-2.7	4.68	245		4.1	
GNZ	EP	10 30 48.3		-1.6	4.82	206		3.3	4.1
	I	51.5							
	E	31 45							
TJA	EP	10 30 56.5		0.7	5.31	212		3.3	5.1
	I	58.8							
	E	32 05							
ONE	EP	10 30 58		1.1	5.40	253			
KRP	EP	10 31 00		1.7	5.51	228		4.3	
CNZ	EP	10 31 11		2.0	6.39	219			
MNG	EP	10 31 23.0		-0.3	7.93	212			
	S	32 49.2		1.1					
WEL	EP	10 31 35		1.0	8.38	212		5.7	
	S	33 07		-0.4					
COB	EP	10 31 44		-0.7	9.24	221			
	S	33 28		1.4					
KAI	ES	10 34 03		-2.4	10.96	219		5.5	
GPZ	ES	10 34 12		-0.1	11.26	211		5.7	
AUG 11	H M S 01 04 35.6 + 0.4	40,965 174,14E 0.03 0.02	12 KM	SE	1.3	AVG MAG	68/ 313	3.8	

## LOCAL EARTHQUAKES

	H M S	DIR	RES	DIST	AZ	H=A	M P	W S	
WEL	P* 01 04 47.8 56.0		1.3	0.58	125	3.8	3.5	4.4	
	S*		1.4						
MNG	P* 01 04 53.8 05 08.5		-1.2	1.07	72		4.0	3.9	
	S*		-0.9						
COB	P* 01 04 55.1 05 10.8		0.1	1.07	262		4.1	4.0	
	S*		1.3						
CAZ	P* 01 05 04		0.3	1.58	89		4.1		
	E								
TNZ	P* 01 05 06.0 29.3 32.0 34.0		-1.0	1.78	6		3.5	3.4	
	E								
	E								
KAI	ESN 01 05 49		-7.3*	2.58	232		3.5		
GPZ	ES* 06 04		-2.1	2.96	202		3.8		
	PN		0.0					3.4	
KRP	ESV 06 03		0.8						
AUG 12	H M S 18 24 44.4 + 0.7	41,835 172,04E 0.05 0.05	33 KM	SE	1.7	AVG MAG	68/ 314	3.3	
	R								
KAI	EP* 18 25 00 12	DIR	RES	DIST	AZ	H=A	M P	W S	
	S*		-0.6	0.84	214				
COB	IP* 18 25 00		-0.3	0.91	35				
GPZ	EP* 18 25 21 37		2.4	1.92	167		3.1		
	ESN		0.8						
	ES*		-2.0						
	E		26.5						
WEL	EP* 18 25 20.5 49		-1.5	2.12	76		3.3	3.6	
	ES*		-1.0						
MNG	PN 18 25 30 28 13		3.1	2.86	66		3.5	3.1	
	ES*		0.7						
MSZ	EPN 18 25 44 26 31		-0.4	4.14	225		3.2	3.0	
	ESN		0.6						
	E		53						
FELT MURCHISON (80) MM IV									
AUG 13	H M S 09 08 19.2 + 0.8	40,045 175,99E 0.03 0.05	12 KM	SE	1.6	AVG MAG	68/ 315	3.4	
	R								
MNG	P* 09 08 38.0 46.0	DIR	RES	DIST	AZ	H=A	M P	W S	
	I		0.2	1.03	236		3.2		
CNZ	P* 09 08 40.0 56.5		-0.3	1.17	316		3.1	3.2	
	S*		0.5						
TJA	EP* 09 08 44		1.3	1.31	19		3.8		
GNZ	ESN 09 09 11 21 42 54		-0.3	1.78	39				
	E								
	E								
WEL	SN 09 09 14		0.9	1.86	228		3.2	3.9	
KRP	EP* 09 09 00		0.9	2.27	338		3.0		
	ES*		-2.1						
COB	E 09 09 23 45			3.12	249			3.3	
	ESN		1.4						
	E		48						
GPZ	ESN 09 10 19		-2.6	4.69	218		4.1		
FELT HASTINGS (60) MM IV									
AUG 13	H M S 10 48 24.3 + 0.6	41,825 172,08E 0.03 0.04	12 KM	SE	1.3	AVG MAG	68/ 316	3.7	
	R								
KAI	P* 10 48 40.3 51	DIR	RES	DIST	AZ	H=A	M P	W S	
	S*		0.1	0.86	215				
	S*		-0.9						

COB	P*	10 48 40,2	=0,3	0,88	34							
	S*	52	=0,4							4,1	4,1	
GPZ	E	10 49 03,5		1,92	168	3,3						
	S*	24	0,3									
WEL	S*	10 49 28	=0,7	2,09	76	3,4						
MNG	EPV	10 49 11,2	2,5	2,83	66				3,5	3,7		
	EP*	14,5	0,6								3,7	
	ES*	50	=1,1									
TNZ	E	10 49 27		3,16	34							
FELT	MURCHISON (80) WM IV, AND WESTPORT (79)											

H	M	S										
AUG 15	05 06	16,3	41,46S	174,43E	12 KM	SE	1,5			AVG MAG	68/ 58	
		-0,4	0,05	0,05	R						4,5	

H	M	S	DIR	RES	DIST	AZ	H=A	W=P	W=S		
WEL	P*	05 05	22,0	U	=0,5	0,30	56	4,4			
	S*		26,0		=1,1						

MNG	P*	05 06	36,0	U	=1,1	1,15	44				
COB	IP*	05 06	41,2	D	1,0	1,33	286				
CAZ	P*	05 06	44,5		2,2	1,46	68				

KAI						2,49	244	4,5		4,8		
GPZ	EPN	05 06	56		=1,5	2,60	210	4,2				
	E	07 06										

TJA	EP*	05 07	17		=0,4							
	E	08 13			2,0	3,37	39			4,7		

KRP	EPN	05 07	12		0,7	3,63	14			4,3		
	E		14,3									

	EP*		21		1,5							
	ES*		08 05		=2,0							

GNZ	E	05 07	34			3,93	46					
MSZ	EPN	05 07	38		=1,8	5,75	234			4,2	4,3	

	I		45,5									
	ISV	08 44,5			0,4							

	I		55									
MNW	SN	05 09	04		0,5	6,57	227					

FELT COOK STRAIT REGION MAXIMUM INTENSITY MM V

H	M	S										
AUG 17	23 00	25,9	41,82S	172,21E	12 KM	SE	1,5			AVG MAG	68/ 58	
		-0,4	0,03	0,04	R						3,9	

H	M	S	DIR	RES	DIST	AZ	H=A	W=P	W=S		
COB	P*	23 00	43,5		=0,7	0,83	29				
	S*		55,3		=0,3						

KAI	P*	23 00	45,0		=0,7	0,92	220	3,6				
	S*		56,5		=1,7							

GPZ	EP*	23 01	01		=1,5	1,90	170	3,4				
	ES*		26,5		=1,1							

WEL	EPN	23 01	03,0		1,3	2,00	75	3,8	3,9			
	P*		05,0		0,9							

	S*		31		0,5							
MNG	PV	23 01	14,3		2,2	2,75	65	4,4	4,2			

	IP*		16,8		=0,2							
	S*		58,5		5,4*							

TYZ	EP*	23 01	24		0,8	3,11	33					
	ES*		02 01		=3,0							

MSZ	PN	23 01	33		0,9	4,23	226	3,5	3,7			
	ESN		02 22,5		2,3							

KRP	EPN	23 01	38		0,2	4,66	34	3,7				
	E		02 56									

H	M	S										
AUG 18	02 45	02,8	41,82S	172,09E	12 KM	SE	0,9			AVG MAG	68/ 58	
		-0,3	0,02	0,02	R						4,1	

H	M	S	DIR	RES	DIST	AZ	H=A	W=P	W=S		
KAI	EP*	02 45	18,6		=0,1	0,87	215	3,7			
	ES*		29,6		=0,9						

COB	P*	02 43 18,8	=0,1	0,88	34						4,5	
	S*	30,5	=0,3									

GPZ	E	02 45 36	=0,7	1,92	168	3,3						
	S*	42										

	ISSV					59				0,9		
	ISS*					46 02				=0,2		

WEL	IP*	02 45 38,0	=1,5	2,08	76	3,8	4,1	4,4				
	I					40,2						

	ISS*					46 07				=0,0		
MNG	EPV	02 45 48,5		2,83	66					1,4	4,3	4,1

	ES*					53				0,7		
	ES*					46 34				4,6*		

TNZ	E	02 46 57		3,16	34							
MSZ	EPV	02 46 06		4,17	225					0,8	3,8	3,9

	ESV					53				0,4		
KRP	EPN	02 46 13		4,71	35					0,6	4,0	

	EP*					23				=1,5		
	ISSV					47 06				0,4		

FELT	WESTPORT (79)											
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H	M	S										
AUG 18	02 58	57,9	44,59S	167,84E	12 KM	SE	1,8			AVG MAG	68/ 58	
		-0,9	0,04	0,06	R						5,0	

H	M	S	DIR	RES	DIST	AZ	H=A	W=P	W=S		
MSZ	P*	02 58	59,3		=1,3	0,10	145				
MNG	P*	02 59	19,0		=0,5	1,20	187			4,9	

	I		21,3									
	ES*		36		0,4							

ROX	P*	02 59	22,3		=0,2	1,37	131			4,9	5,2	
	S*		41,5		0,7							

KAI	P*	02 59	58,3		2,5	3,32	53					
GPZ	EPV	02 59	51		=1,2	3,57	77	5,1				

	E	03 00	08									
	ES*		47		0,0							

COB	EPN	03 00	09,2		=2,5	5,02	47			5,1	4,9	
	E		13,3									

	I		19,2									
	SN		01 05		=3,3							

WEL	EPN	03 00	25		=0,6	6,06	59					
	ESN		01 34		0,8							

MNG	PN	03 00	39,5		2,6	6,89	57					
TNZ	EPN	03 00	44		2,0	7,28	44					

KRP	EPN	03 01	03		0,5	8,83	44					
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H	M	S										
AUG 18	06 24	12,0	47,63S	164,56E	33 KM	SE	1,0			AVG MAG	68/ 58	
		-1,2	0,07	0,07	R						4,3	

H	M	S	DIR	RES	DIST	AZ	H=A	W=P	W=S			
MNW	P	06 24	54,0		0,3	2,80	50			4,0	4,1	
	S		25 27		1,6							



		H	M	S														
TJA	P	15	15	08,0	0,5	1,43	172											
	S			37,5	-0,5													
GNZ	P	15	15	08,8	0,5	1,54	145											
	S			37,2	-2,2													
TNZ	EP	15	15	20,3	2,1	2,66	227											
MNG	P	15	15	26,0	-0,0	3,40	198											
	S			16 12	0,7													
WEL	P	15	15	34,0	-1,3	4,22	202	4,8										
	S			16 28	0,0													
COB	P	15	15	43	-0,4	4,90	220											
	S			16 43	0,6													
GPZ	EP	15	15	10	-0,2	7,07	206	5,0										
	S			17 30	-0,5													
MSZ	E	15	16	53		9,93	220											
AUG 19		H	M	S														
		06	31	31,8		44,58S	167,42E	12 KM	SE	1,5				AVG MAG	68/ 311			
						0,03	0,07	R							4,4			
MSZ	PG	06	31	37,5	-2,0	0,36	104											
ROX	PN	06	32	00,3	0,7	1,61	124											
	EP			03	-1,6													
	ESN			19,5	-0,6													
	E			21,6														
	SN			26,2	-0,2													
WPZ	PA	06	32	14	1,6	2,31	155											
	S			43	0,2													
KAI	PG	06	32	37,5	-6,1*	3,55	56	4,8										
	ES*			33 21	0,8													
GPZ	E	06	32	34		3,86	79	4,4										
	EP*			41,5	2,5													
	SN			33 15	0,9													
	ES*			30	0,5													
COB	EPN	06	32	47	-1,5	5,24	50											
	ESN			33 46	-1,3													
AUG 19		H	M	S														
		17	11	07,8		41,91S	171,93E	12 KM	SE	1,0				AVG MAG	68/ 311			
						0,03	0,04	R							3,4			
KAI	EP*	17	11	23	1,7	0,73	212											
	S*			31	-0,3													
COB	P*	17	11	26,7	0,5	1,02	37											
	S*			40,3	0,3													
	SG			41,3	-0,9													
GPZ	PG	17	11	46	0,5	1,87	164	3,1										
	SN			12 01	-0,7													
WEL	E	17	12	21		2,22	75	3,3										
MNG	EP	17	12	03		2,97	66											
MSZ	SN	17	12	54	-0,1	4,03	225											
	S*			13 09,5	-0,9													
AUG 19		H	M	S														
		17	11	24,6		41,92S	171,92E	12 KM	SE	1,5				AVG MAG	68/ 311			
						0,04	0,05	R							3,4			
KAI	S*	17	11	46,5	-1,2	0,72	212											
COB	S*	17	11	56	-1,2	1,03	37											
GPZ	S*	17	12	21,6	-0,4	1,85	164	3,1										
WEL	ES*	17	12	33,5	0,3	2,23	74	3,4										
MNG	P*	17	12	18	1,3	2,95	65											
MSZ	S*	17	13	28	1,2	4,01	225											
AUG 20		H	M	S														
		03	01	37,3		42,51S	172,38E	12 KM	SE	1,2				AVG MAG	68/ 311			
						0,02	0,02	R							4,2			

		H	M	S														
KAI	EP*	03	01	51,5														
	PG			53														
	S*			02 00,7														
	E			02														
GPZ	PA	03	02	00														
	PG			02														
	S*			15,1	-0,0													
WEL	PN	03	02	13,1	0,7													
	S*			44,5	0,5													
MNG	PN	03	02	23,9	U	-0,1												
	PA			30,3		0,6												
	SN			59		-0,1												
	S*			03 09		-0,1												
	SG			16		-2,5												
MSZ	E	03	02	35														
	PG			56		-0,1												
	SN			03 24		3,5*												
	SG			46		-2,6												
AUG 20		H	M	S														
		06	36	21,3		40,38S	174,08E	12 KM	SE	0,7				AVG MAG	68/ 594			
						0,01	0,01	R							4,2			
WEL	PA	06	36	40,7	0,6													
	PG			42,3	-0,1													
	SG			56,5	0,0													
MNG	PA	06	36	40,6	D	-0,4												
	PG			42	-1,4													
	S*			56	0,3													
TNZ	PA	06	36	44,6	U	1,4												
	PG			46,3	0,3</													

















		H	M	S	DIR	RES	DIST	AZ	H=A	M=P	W=S	
TNZ	P	17	44	15.5		=0.0	0.33	332				
	S			31		=0.0						
CNZ	IP	17	44	18.7	U	0.5	0.80	70				
	S			36		0.3						
MNG	IP	17	44	24.2	U	1.1	1.33	149				
	S			43.3		=1.0			4.3	4.4		
HEL	IP	17	44	28.8	U	0.6	1.81	176	4.0	4.0	4.4	
	S			54		0.5						
COB	P	17	44	31.5		=0.7	2.14	221				
	S			45.00		=0.4			4.3	4.3		
GNZ	P	17	44	40.6		=0.2	2.81	74				
	S			48.15		=0.6			4.3	4.4		
KAI	ES	17	45	28			3.87	217	4.2			
GPZ	ES	17	45	48		=5.9*	4.45	198	4.8			
SEP 01	H M S	16	44	36.7			41.84S	171.74E	12 KM	SE	1.2	AVG MAG 68/ 614
							0.02	0.03				4.1
KAI	EP*	16	44	49.8		=0.5	0.73	200	4.0			
	IS*			59.0		=1.2						
COB	IP*	16	44	56.0	U	0.1	1.06	45				
	IPG			59.3		1.0			4.4	4.3		
	ISV			45 10.1		=2.2						
GPZ	EPV	16	45	07.6		=1.6	1.97	161	3.9			
	IP*			12.8		1.3						
	ISV			31.9		=1.2						
	IS*			38.8		1.2						
	ESG			43.4		0.2						
HEL	EPV	16	45	15.4		1.2	2.34	77			4.1	4.2
	EP*			19.0		1.2						
	IPG			22.5		=1.6						
	ISV			43.4		1.3						
	IS*			48.5		=0.1						
	ISG			54.0		=1.6						
MNG	EPN	16	45	24.5		0.2	3.07	68			4.4	4.2
	IP*			32.3		1.9						
	IPG			38.8		=0.1						
	ES*			46 07.0		=3.8*						
KRP	EPV	16	45	49.1		0.4	4.88	38				
	EP*			46 01.0		=0.4						
MNW	EPN	16	45	49		=0.5	4.94	216				
	ESN			46 46		0.9						3.1
FELT WESTPORT (79) AND MURCHISON (80) MM IV												
SEP 02	H M S	08	29	47.3			41.76S	172.17E	12 KM	SE	0.9	AVG MAG 68/ 637
							0.03	0.03				3.8
COB	EP*	08	30	02.0		0.1	0.79	32			3.8	3.7
	IS*			12.5		=0.3						
KAI	EPG	08	30	06.7		=0.0	0.95	216	3.2			
	S*			17.8		0.2						
GPZ	EPG	08	30	26.0		=1.1	1.97	170				
HEL	EP*	08	30	23.3		0.6	2.01	77			3.6	3.1
	ES*			39.5								
	ES*			50.8		1.6						
MJZ	EPN	08	30	28.8		0.9	2.56	209				
	ESV			55.1		=3.3*						
MNG	EP*	08	30	34.7		=0.7	2.75	67			3.4	3.1
	EPG			42.4		=0.5						
	ES*			47.5								
	ES*			31 10.7		=0.8						
FELT MURCHISON (80) MM IV												

		H	M	S	DIR	RES	DIST	AZ	H=A	M=P	W=S	
SEP 02	H M S	10	40	35.6			41.98S	171.64E	12 KM	SE	1.2	AVG MAG 68/ 636
							0.03	0.05				4.1
KAI	EPG	10	40	47.3		0.0	0.57	197				
	IS*			54.6		0.5						
COB	IP*	10	40	56.2	U	=1.2	1.22	43			4.5	4.7
	IS*			41 11.5		=2.3						
GPZ	EPV	10	41	05.8		=0.9	1.87	157	3.4			
	ISV			28.0		=1.6						
MJZ	EP*	10	41	12.8		=1.1	2.18	203			3.6	3.5
	IPG			19.3		=0.4						
	IS*			43.8		1.1						
HEL	EPV	10	41	15.0		0.5	2.45	75			4.0	4.4
	ESV			45.5		1.9						
MNG	EPV	10	41	24.5		=0.3	3.20	66			4.1	4.0
	IP*			30.7		=0.7						
	ISV			42 03.3		1.4						
CNZ	EPN	10	41	38.0		1.4	4.07	48				5.3
	IS*			42 43.3		3.7*						
MNW	EPN	10	41	47.0		0.9	4.78	216				
KRP	EPN	10	41	49.7		0.1	5.04	38				3.9
	ESN			42 47.2		0.9						
SEP 02	H M S	17	07	56.1			37.18S	177.07E	308 KM	SE	1.1	AVG MAG 68/ 637
							0.11	0.11				3.8
KRP	EP	17	08	41.0		=0.9	1.43	238			3.6	
CNZ	IP	17	08	44.2		0.9	1.65	193			4.5	4.6
	ES			09 18.0		=0.5						
CNZ	EP	17	08	48.4		=0.3	2.35	210			3.2	2.9
	ES			09 29.5		1.3						
MNG	IP	17	09	01.3		=0.1	3.65	199				
	ES			50.0		=1.0						
HEL	EP	17	09	11.0		0.6	4.47	203				
SEP 03	H M S	21	51	16.4			41.97S	171.91E	12 KM	SE	1.3	AVG MAG 68/ 638
							0.04	0.05				3.2
KAI	EPG	21	51	30.5		0.4	0.66	214	3.2			
	IS*			39.0		0.9						
COB	IP*	21	51	36.6	U	0.6	1.08	35				
	IS*			50.8		0.2						
GPZ	EPN	21	51	45.6		=1.1	1.80	163	3.0			
	ESN			52 09.6		0.6						
MJZ	EP*	21	51	55.5		=0.9	2.27	207				
MNG	EP*	21	52	07.0		=2.1	3.01	64			3.3	3.3
	ES*			50.0		1.3						
	E			53 01.8								
FELT MURCHISON (80) MM IV												
SEP 05	H M S	15	10	13.4			41.81S	172.06E	12 KM	SE	1.2	AVG MAG 68/ 639
							0.05	0.05				3.4
KAI	ES*	15	10	40.9		=0.1	0.87	214	2.8			
COB	IP*	15	10	29.4		=0.1	0.88	36			3.7	3.8
	IS*			41.0		=0.5						
HEL	EPV	15	10	49.0		1.4	2.10	77				3.2
	ES*			11 18		=0.2						
MJZ	EP*	15	10	56		=0.8	2.47	208				
MNG	EPV	15	10	59.7		1.8	2.84	66				
	ES*			11 39.2		=1.3						
FELT STRONGLY MANGLES VALLEY (80)												

SEP 06	H	M	S	41.81S	172.07E	12 KM	SE	0.7	AVG MAG	68/ 644			
	06	11	36.9	0.02	0.03	R				3.1			
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S
KAI	IPG	06	11	54.0				-0.6	0.87	214			
	IS*			12	05.1			0.4					
COB	IP*	06	11	53.5	U			0.6	0.88	35			
	IS*			12	05.2			0.4					
GPZ	EIPN	06	12	08.8				-0.1	1.93	168			
	ESV				53.3			0.9					
WEL	EP*	06	12	13.5				-0.2	2.09	76			
	ES*				40.8			-0.5					
MJZ	EIPN	06	12	19.0				-1.2	2.48	208			
	ESV				46.0			0.4					
	ISG				57.7			-2.7*					
	E				13	05.5							
FELT MURCHISON (80) MM IV													

SEP 07	H	M	S	37.69S	174.37E	220 KM	SE	0.3	AVG MAG	68/ 644			
	06	31	25.3	0.02	0.01	2				4.1			
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S
KRP	IP	06	31	55.7	D			0.1	0.70	290			
	IS				32	18.8		-0.2					
TJA	EIPN	06	31	58.9				-0.2	1.27	191			
	IS				32	25.8		0.4					
GNZ	IP	06	32	01.8				-0.2	1.61	127			
	IS				29.8			-0.5					
ECZ	EP	06	32	03.1				0.1	1.73	91			
	IS				32.6			0.5					
MNQ	IP	06	32	16.7	U			0.3	3.00	193			
	IS				56.0			-0.1					
WEL	IP	06	32	25.8	D			-0.1	3.80	199			
	IS				33	11.5		-1.3*					
COB	EP	06	32	33.2				-0.2	4.41	219			
	IS				33	26.6		0.4					
MJZ	EP	06	33	15.5				-0.1	7.72	214			

SEP 08	H	M	S	37.81S	177.46E	81 KM	SE	1.6	AVG MAG	68/ 644			
	13	08	08.8	0.08	0.05	18				4.1			
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S
ECZ	IP	13	08	26.7	D			-0.1	0.87	83			
	IS				40.5			0.2					
GNZ	IP	13	08	26.6	D			-1.0	0.94	192			
	IS				42.0			0.3					
KRP	IP	13	08	36.0	U			0.9	1.52	265			
	IS				55.0			0.3					
TNZ	EP	13	08	49.6				-2.7	2.78	239			
WEL	EP	13	09	11.3				1.5	4.04	210			
COB	EP	13	09	22.3				0.6	4.91	227			

SEP 08	H	M	S	37.95S	177.54E	91 KM	SE	0.9	AVG MAG	68/ 644			
	21	22	33.2	0.04	0.04	11				4.1			
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S
GNZ	IP	21	22	52.2	D			1.2	0.79	151			
	IS				23	04.5		-0.0					
ECZ	IP	21	22	51.0	D			-0.5	0.84	73			
	IS				23	05.0		-0.4					
KRP	IP	21	23	01.6	U			0.9	1.58	270			
	IS				20.7			-0.3					
TNZ	EP	21	23	19.3				-0.3	2.77	242			
WEL	ES	21	24	18				-0.5	3.96	212			

SEP 09	H	M	S	41.81S	171.95E	12 KM	SE	0.9	AVG MAG	68/ 644				
	04	08	39.6	0.04	0.04	R				4.9				
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S	
KAI	IP*	04	08	53.9	D			-0.8	0.82	209				
	IP*				U			-0.2	0.93	40				
COB	IP*	04	09	16.7	D			-1.3	2.18	77		4.9	5.1	5.4
	IS*				46.2			-0.6						
	I				10	01.5								
MJZ	EPN	04	09	18.2				-0.2	2.44	206			4.7	4.9
	IPG				28.2			-0.7						
	ISN				48.3			1.0						
TNZ	EPN	04	09	28.1				-0.8	3.21	36				
	IPN				04	09	32.5	1.7	3.35	76				
CAZ	EPN	04	09	30.4	D			0.5	4.76	37			5.0	4.9
KRP	EPN				10	43.0		-0.6						
	ISN				04	09	54.0	0.1	5.06	217			4.1	4.6
MNQ	EPN				10	53.8		3.0*						
	I				11	17.0								
GNZ	EPN	04	10	02.3				1.0	5.62	58			4.8	4.9
	ISN				11	05.0		0.7						
FELT MURCHISON (80) MM IV														

SEP 10	H	M	S	39.21S	174.63E	12 KM	SE	1.9	AVG MAG	68/ 644				
	07	00	02.9	0.03	0.05	R				4.1				
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S	
TNZ	IP*	07	00	10.3				3.0	0.20	275				
	IPN				07	00	27.5	U	-1.2	1.46	29		4.0	4.2
KRP	IPG				34.2			1.7						
	ISN				49.7			-2.1						
WEL	EIPN	07	00	37.2				0.3	2.08	177		3.8	4.2	4.3
	EPG				47.0			2.0						
	ISN				01	01.7		-0.3						
	IS*				08.2			1.1						
CAZ	ESN	07	01	02				-0.3	2.09	145				
COB	EPN	07	00	39.6				-1.1	2.38	217			4.2	4.2
	EP*				49.8			1.2						
	ESN				01	06.6		-2.6						
	IS*				14.2			-1.8						

SEP 12	H	M	S	40.28S	176.00E	12 KM	SE	2.1	AVG MAG	68/ 644				
	13	25	56.8	0.04	0.06	R				3.8				
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S	
CAZ	IP*	13	26	09.5	U			0.6	0.68	169				
	IS*				19.0			1.1						
WEL	EPN	13	26	20.0				-1.5	1.37	223			4.0	3.8
	IPG				27.2			2.5						
	ISN				39.8			-3.9						
	ISG				43.0			-0.3						
TNZ	EP*	13	26	27.6				1.3	1.66	311			3.5	
	ESG				52.9			-0.0						
GNZ	EPN	13	26	31.8				-1.5	2.26	44				
COB	EP*	13	26	44.3				1.7	2.61	251			3.7	

SEP 12	H	M	S	41.81S	171.72E	12 KM	SE	1.0	AVG MAG	68/ 644				
	13	51	57.2	0.02	0.03	R				3.8				
				H	M	S	DIR	RES	DIST	AZ	W=A	W P	W S	
KAI	EP*	13	52	10.4				-0.7	0.75	198		3.6		
	IS*				20.0			-1.3						
COB	IP*	13	52	16.1	U			-0.1	1.05	47			4.3	4.3
	IS*				30.9			0.5						
GPZ	EPN	13	52	30.8				0.7	2.00	160			3.5	
	ESN				53.4			-0.9						



		H	M	S										
	ESQ	53	05,8		1.1									
WEL	EPN	13	52	39,5	0.7	2,35	78				4,0	4,2		
	ES*	53	08,2		-1.1									
MJZ	EPV	13	52	35,3	0.3	2,36	203				3,4	3,2		
	EPQ			41,8	-3,2*									
	ISN	53	02,8		-0.3									
	ISQ			17,8	1.0									
TNZ	E	13	52	52,4		3,31	39							
SEP 12	H M S	14	46	13,6	40,38S	175,99E	12 KM	SE	1.8	AVG MAG	68/ 316			
				0,04	0,04	0,05	R							
	H M S	14	46	23,5			DIR	RES	DIST	AZ	H=A	W=P	W=S	
CAZ	EP*			23,5				0,6	0,55	161				
	IS*			33,5				1,7						
WEL	EPV	14	46	35,2			D	-2,0	1,29	225		3,7	3,6	
	EPQ			41,0				1,2						
	ISV			53,0				-1,6						
	ISQ			58,5				1,2						
TNZ	EPV	14	46	44,2				1,4	1,72	314				
	ESV			47,0				1,7						
GNZ	EP*	14	46	54,1				-0,7	2,35	43				
COB	EP*	14	46	56,3				-2,4	2,57	253				
SEP 13	H M S	13	18	25,6	41,85S	171,96E	12 KM	SE	1.4	AVG MAG	68/ 311			
				0,05	0,03	0,04	R							
	H M S	13	18	38,8			DIR	RES	DIST	AZ	H=A	W=P	W=S	
KAI	EP*			38,8				-1,4	0,79	211		3,9		
	IS*			49,1				-1,9						
COB	EIP*	13	18	41,7			D	-1,4	0,96	38		4,2	4,1	
	IS*			54,5				-1,6						
GPZ	EP*	13	18	58,3				-1,1	1,91	165		3,6		
	ES*			19,24,0				-0,8						
WEL	EIP*	13	19	04,2				0,2	2,18	76		4,0	4,1	
	I			14,3										
	IS*			32,8				0,0						
	ISQ			40,3				1,1						
MJZ	EPV	13	19	03,8				-0,1	2,40	207		3,5	3,4	
	EPQ			15,3				1,1						
	ESV			34,0				1,5						
	ISQ			46,2				1,6						
TNZ	EP*	13	19	22,5				0,4	3,24	36				
KRP	EP*	13	19	51				2,3	4,79	36				
SEP 14	H M S	07	20	13,0	40,48S	175,22E	12 KM	SE	2.0	AVG MAG	68/ 410			
				0,06	0,03	0,05	R							
	H M S	07	20	31,4			DIR	RES	DIST	AZ	H=A	W=P	W=S	
WEL	IP*			31,4				2,4	0,88	203		3,5	4,4	4,1
	IS*			43,4				2,4						
CAZ	ES*	07	20	39				-2,0	0,88	119				
TNZ	EPV	07	20	37,7				-0,8	1,44	333		4,1	4,3	
	IP*			40,6				1,9						
	ISV			54,5				-2,9						
	ISQ			21,01,2				-0,4						
COB	EPN	07	20	44,4				-1,2	1,98	251		4,0	4,1	
	ISV			21,07,3				-2,3						
KRP	EPN	07	20	53,0				-0,7	2,56	6		3,6	3,1	
	EP*			58,5				0,6						
	ESV			21,25,0				0,8						
	ISQ			42,2				2,8						
GNZ	EP*	07	21	02				-0,6	2,84	51				
FELT	OKOIA (57) MM IV													

		H	M	S										
SEP 14	H M S	15	35	36,7	38,78S	175,09E	273 KM	SE	0.9	AVG MAG	68/ 651			
				0,06	0,04	0,04	R							
	H M S	15	36	12,2			DIR	RES	DIST	AZ	H=A	W=P	W=S	
TNZ	EP			12,2				-0,7	0,68	234				
KRP	IP	15	36	14,3				0,4	0,93	23		4,8		
	ES			43,1				0,0						
CAZ	ES	15	37	02				1,2	2,29	158				
GNZ	IP	15	36	23,3			D	-0,8	2,30	87		5,0	4,7	
	IS			37,00,0				-0,9						
WEL	EP	15	36	26,8				0,7	2,51	185		4,5	4,7	
	IS			37,05,3				0,8						
COB	IP	15	36	31,0				0,7	2,93	217		4,6	4,4	
	IS			37,11,5				-0,5						
KAI	EP	15	36	51,2				1,4	4,67	216		4,5		
	ES			37,45,6				-1,3						
GPZ	EP	15	36	56,0				-0,6	5,24	200		4,7		
	ES			37,58,8				-0,4						
MJZ	EP	15	37	08,5				-0,5	6,25	212				
MWV	EP	15	37	42,7				0,5	8,91	216				
SEP 14	H M S	15	36	12,6	41,76S	172,00E	12 KM	SE	0.9	AVG MAG	68/ 652			
				0,03	0,02	0,02	R							
	H M S	15	36	27,9			DIR	RES	DIST	AZ	H=A	W=P	W=S	
COB	IP*			27,9				-0,7	0,87	40				
KAI	EP*	15	36	29,0				0,2	0,58	209		3,7		
	IS*			40,0				-0,8						
GPZ	EP*	15	36	47,5				-0,3	1,99	166		3,4		
	ES*			57,13,5				-0,7						
	ESQ			21,3				1,4						
	E			26,7										
WEL	EP*	15	36	49,2				-1,0	2,13	78		4,0	3,8	
	ES*			57,18,3				-0,1						
	E			34,3										
MJZ	EPN	15	36	51,9				-0,3	2,49	206		3,7	3,5	
	ISN			57,22,2				0,4						
	ISQ			37,2				0,4						
TNZ	EPN	15	37	02,5				1,4	3,15	36				
KRP	EPN	15	37	23,0				0,9	4,70	37				
SEP 14	H M S	17	31	11,5	41,84S	172,22E	12 KM	SE	0.9	AVG MAG	68/ 653			
				0,02	0,03	0,04	R							
	H M S	17	31	27,2			DIR	RES	DIST	AZ	H=A	W=P	W=S	
COB	IP*			27,2				0,1	0,85	27		3,6	3,8	
	IS*			38,5				-0,2						
KAI	EP*	17	31	28,8				0,7	0,91	221		3,3		
	ES*			40,2				-0,3						
WEL	EPV	17	31	44,3				0,0	1,99	75				
MJZ	EP*	17	31	55				-0,3	2,50	210				
FELT	MURCHISON (80) MM IV													
SEP 14	H M S	19	12	05,2	44,96S	167,73E	12 KM	SE	1.5	AVG MAG	68/ 654			
				0,07	0,04	0,07	R							
	H M S	19	12	22,5			DIR	RES	DIST	AZ	H=A	W=P	W=S	
MWV	IP*			22,5				2,2	0,82	189		4,1	4,3	
	IS*			35,2				3,7*						
ROX	IPV	19	12	27,5			D	-0,5	1,24	115		4,2	4,7	
	ISN			47,0				2,1						
MPZ	EPN	19	12	35,0				-1,3	1,87	156				
	ESV		</											

		H	M	S			DIR	RES	DIST	AZ	W=A W P W S			AVG MAG	68/ 659
KAI	ISG			19,4				0,3	3,61	49	3,9				
	ISN	19	13	41,8				0,3	3,75	72	4,2				
	ISN	19	13	02,0				0,2							
	ISN			42,8				=2,0							
COB	ISN	19	13	23,0				=0,1	5,33	45					
	ISN			14 22,2				=0,8							
SEP 15	H M S	00	43	51,2	39,205	175,32E	179 KM		SE	2,0		AVG MAG			68/ 659
				1,8	0,09	0,09	19								4,4
TNZ	EIP	00	44	17,0			D	=0,1	0,73	270	3,9				
CAZ	ES	00	44	56				1,7	1,84	198					
WEL	IP	00	44	32,2			U	2,2	2,13	191	4,2	4,4	4,5		
	IS			59,6				=0,3							
GNZ	IP	00	44	32,0			U	1,4	2,18	76	9,0				4,5
	IS			58,3				=2,6							
COB	IP	00	44	37,8			U	0,6	2,74	225	4,4				4,5
	IS			45 12,2				=0,5							
GPZ	EP	00	45	05,2				0,3	4,92	203	4,4				
	ES			59,2				=2,7							
SEP 15	H M S	08	49	17,9	41,36S	173,43E	114 KM		SE	2,2		AVG MAG			68/ 659
				1,0	0,06	0,05	11								4,3
COB	IP	08	49	37,9			D	1,8	0,59	297					
	IS			48,7				=1,3							
WEL	IP	08	49	41,8			D	2,0	1,01	86	4,3	4,8	4,5		
	IS			56,0				=0,5							
KAI	IS	08	50	16,0				1,3	1,91	232	4,2				
CAZ	EIP	08	49	56				2,3	2,16	79					
	IS			50 21				0,4							
TNZ	EP	08	49	57,3			U	1,9	2,29	19	4,7				4,5
	ES			50 22,2				=1,4							
GPZ	EP	08	49	58,0				1,1	2,40	194	4,7				
	IS			50 23,7				=2,6							
GNZ	EP	08	50	24,2				=0,4	4,45	54	4,3				4,7
	ES			51 12,0				=3,7							
MSZ	EP	08	50	36,8				1,8	5,22	229	3,7				4,4
	IS			51 31,8				=2,7							
SEP 16	H M S	12	29	24,6	41,68S	171,42E	12 KM		SE	1,0		AVG MAG			68/ 659
				0,8	0,05	0,06	R								3,7
KAI	EP	12	29	41,2				0,9	0,85	181	3,2				
	IS			52,0				0,2							
COB	IP	12	29	46,5				1,1	1,15	60	4,0				3,9
	IS			30 00,7				=0,1							
MJZ	EP	12	30	06,2				=0,8	2,42	197					
WEL	EP	12	30	08,2				=1,1	2,55	82					
MSZ	EP	12	30	33				=0,2	3,94	219					
	FELT LIGHT TREMOR WESTPORT (79)														
SEP 18	H M S	03	35	53,4	41,78S	172,23E	12 KM		SE	1,1		AVG MAG			68/ 659
				1,1	0,08	0,13	R								3,1
COB	IP	03	36	07,0				=0,9	0,79	29	3,9				3,7
	IS			17,8				=0,8							
KAI	EP	03	36	11,0				0,0	0,97	219	3,3				
	IS			23,0				=1,1							
MJZ	EP	03	36	38				=0,3	2,56	210					
	FELT MURCHISON (80) MM IV														

		H	M	S			DIR	RES	DIST	AZ	W=A W P W S			AVG MAG	68/ 659
SEP 15	H M S	09	26	02,1	41,98S	171,94E	12 KM		SE	1,2		AVG MAG			3,8
				0,4	0,04	0,04	R								
KAI	EIP	09	26	15,1			U	=0,8	0,68	216					
	IS			22,9				=1,2							
COB	EIP	09	26	21,7				0,3	1,07	34	4,1				4,3
	IS			36,8				1,0							
WEL	EP	09	26	40,0				=1,2	2,23	73	3,9				3,9
	EP			47,2				0,1							
	ES			27 09,6				=1,0							
	ES			18,0				0,8							
MJZ	EPV	09	26	39,6				0,8	2,28	208	3,5				3,4
	E			53,8											
	ESN			27 07,3				1,2							
	ISG			20,4				1,3							
	E			27,6											
MSZ	EPV	09	27	00,6				=1,3	3,98	226	3,6				3,7
	ESN			43,2				=4,2							
SEP 18	H M S	13	49	54,3	41,03S	175,86E	12 KM		SE	0,5		AVG MAG			68/ 660
				0,3	0,02	0,01	R								4,3
CAZ	IS	13	50	05,5				0,5	0,30	65					
WEL	EIPN	13	50	12,2				=0,1	0,87	253	4,0				4,6
	ISN			25,0				=0,5							
TNZ	EPV	13	50	29,2				=0,3	2,17	328	4,3				4,0
	ESN			55,8				0,3							
	ISG			51 07,0				=0,4							
COB	EPV	13	50	31,8				=0,4	2,37	268	4,4				4,7
	IPG			42,0				=0,3							
	ISN			51 00,2				=0,2							
	IS			07,8				0,7							
	ISG			15,0				0,8							
GNZ	EPN	13	50	37,2				=2,5	2,91	36					
	FELT HAIRARAPA AND HUTT VALLYBY MM IV														
SEP 18	H M S	15	43	33,5	39,39S	176,23E	33 KM		SE	1,0		AVG MAG			68/ 661
				0,3	0,03	0,03	R								4,1
MNZ	EIPN	15	43	46,0				=1,3	0,77	353					
TNZ	IPN	15	43	56,4			D	=0,3	1,45	278	4,6				3,9
	ISN			44 15,5				1,4							
CAZ	ISN	15	44	16				0,4	1,51	180					
GNZ	IPN	15	43	58,2			D	=0,3	1,58	62	4,5				4,2
	ISN			44 18,3				1,0							
WEL	EPN	15	44	07,0				0,1	2,20	210	3,7				3,9
	ESN			31,5				=0,7							
COB	EPN	15	44	20				=0,3	3,17	237					
	FELT MANDITANIWA (52)														
SEP 19	H M S	16	11	04,7	41,70S	171,94E	12 KM		SE	1,5		AVG MAG			68/ 662
				0,6	0,04	0,05	R								4,0
COB	IP	16	11	19,7			U	=0,8	0,86	44	4,2				4,5
	IS			31,0				=1,2							
KAI	EP	16	11	21,8				0,4	0,91	206	4,0				
	IS			33,6				=0,2							
GPZ	EP	16	11	41,2				0,2	2,06	166	3,4				
	IS			12 08,7				0,5							
WEL	EP	16	11	41,0				=1,9	2,17	80	4,1				4,3
	EPG			51,2				2,6							
	IS			12 10,8				=0,6							



		H	M	S	DIR	RES	DIST	AZ	M=A	M P	W S
MJZ	EPV	16	11	45.2		0.3	2.53	205			
	EP*			51.2		2.2					3.7 3.7
	EPG			56.2		0.4					
	ISV		12	14.9		=0.2					
	ISG			27.2		=2.7					
TNZ	EPV	16	11	54		1.0	3.13	37			
FELT WESTPORT DISTRICT MM IV TO V											
SEP 19	H M S	17	12	03.1							
	+	-	0.2								
	H M S	41	19S	174.27E		12 KM	SE	0.9		AVG MAG	68/ 611
						R					4.3
	H M S	17	12	11.0	U	0.0	0.40	110	M=A	M P	W S
											3.7
WEL	IP*	17	12	11.0	U	0.0	0.40	110	M=A	M P	W S
	IS*			17.1		0.4					
COB	EPN	17	12	25.0		0.0	1.17	273			
	ISV			42.5		1.4				4.0	4.4
CAZ	EPN	17	12	29		=0.4	1.50	81			
TNZ	EPN	17	12	34.8		=0.7	1.97	2			
	EP*			39.2		1.4				4.0	4.0
	ESV			59.0		=0.4					
	IS*		13	04.2		0.3					
	ISG			08.6		=0.9					
KAI	EP*	17	12	47.8		0.1	2.54	236			
OPZ	EP*	17	12	53.2		0.9	2.81	205	3.7		
	ESV			13 16.0		=4.4*					
GNZ	EP*	17	13	09.5		=0.1	3.82	50			
MJZ	EPN	17	13	02.9		=0.1	3.99	224			
	ESV			46.7		=1.9					
FELT WELLINGTON (68) MM IV											
SEP 20	H M S	01	55	28.4							
	+	-	1.8								
	H M S	36	87S	177.90E		221 KM	SE	1.3		AVG MAG	68/ 641
						R					4.3
	H M S	01	56	01.0		0.8	0.97	148	M=A	M P	W S
											4.4 4.1
ECZ	EP	01	56	01.0		0.8	0.97	148	M=A	M P	W S
	IS			24.0		=1.0					
GNZ	IP	01	56	07.5	D	0.9	1.77	177		4.8	3.0
	IS			36.2		0.1					
TJA	EP	01	56	09.8		0.8	2.02	197			
KRP	EP	01	56	10.0		=0.3	2.16	240	3.7		
WEL	EP	01	56	42.5		=1.9	5.04	208	4.6		
COB	S	01	58	02		0.6	5.85	222			4.3
SEP 21	H M S	02	03	41.8							
	+	-	0.4								
	H M S	40	16S	174.85E		12 KM	SE	1.7		AVG MAG	68/ 541
						R					4.3
	H M S	02	04	01.0	U	0.4	1.04	339	M=A	M P	W S
											4.1 4.2
TNZ	IP*	02	04	01.0	U	0.4	1.04	339	M=A	M P	W S
	IS*			15.4		0.7					
WEL	IP*	02	04	02.8	U	0.7	1.12	183	4.2	4.2	4.1
	IS*			17.8		0.6					
CAZ	EPG	02	04	06.5		=1.3	1.28	126			
	ISG			27.5		2.3					
COB	EPN	02	04	13.7		1.0	1.86	239		4.2	4.1
	IS*			40.2		1.0					
TJA	EP*	02	04	19.7		=1.4	2.24	54		4.5	
KRP	EPN	02	04	16.8		=1.9	2.30	14		4.1	4.1
	IP*			23.1		0.9					
	IPG			28.6		0.3					
	ISV			48.1		1.9					
GNZ	EPN	02	04	25.0		=1.9	2.89	59		4.2	
KAI	EPG	02	04	49.5		=3.2	3.50	227			
FELT OROIA (57) MM IV											
SEP 21	H M S	02	31	49.6							
	+	-	0.4								
	H M S	42	02S	171.99E		12 KM	SE	0.7		AVG MAG	68/ 541
						R					3.7

## LOCAL EARTHQUAKES

		H	M	S	DIR	RES	DIST	AZ	M=A	M P	W S
KAI	IP*	02	32	01.5	D	=0.5	0.66	220		3.9	
	IS*			09.3		=1.8*					
COB	IP*	02	32	08.7		=0.7	1.09	31		4.3	
	IS*			23.9		=0.2					
WEL	EP*	02	32	29.3		0.8	2.21	71		4.0	4.1
	EPG			34.6		0.2					
	IS*			57.2		=0.5					
	ISG		53	04.1		=0.1					
	I			11.9							
TNZ	EPV	02	32	41.6		0.5	3.37	34			
KRP	EPN	02	33	02.3		0.2	4.92	35		3.8	3.6
	ESV			58.6		1.1					
	ES*		54	18.3		=0.8					
SEP 23	H M S	01	26	55.2							
	+	-	0.7								
	H M S	38	26S	177.50E		12 KM	SE	2.1		AVG MAG	68/ 657
						R					4.2
	H M S	01	27	05.5	U	0.6	0.51	139	M=A	M P	W S
											4.6 4.7
GNZ	IP*	01	27	05.5	U	0.6	0.51	139	M=A	M P	W S
	IS*			14.2		2.2					
TJA	IP*	01	27	08.9	D	1.6	0.65	213		4.5	4.7
	IS*			19.2		2.9					
ECZ	EPN	01	27	13.1	U	=1.0	0.94	53		4.3	4.3
	ISV			27.7		=0.3					
KRP	IPN	01	27	23.2	U	=0.3	1.66	281		3.5	3.2
	IPG			30.7		1.9					
	ISV			44.0		=0.5					
	ISG			53.5		2.3					
WEL	EP*	01	27	57.2		=2.8	3.73	215		4.3	4.4
	ISV			25 30.7		=3.5					
COB	EPN	01	28	03.2		=1.4	4.70	252			
	ESV			56.0		=1.6					
SEP 23	H M S	12	30	13.0							
	+	-	0.4								
	H M S	41	66S	172.08E		12 KM	SE	1.1		AVG MAG	68/ 658
						R					3.6
	H M S	12	30	27.0	U	0.0	0.75	41	M=A	M P	W S
											4.4 4.1
COB	IP*	12	30	27.0	U	0.0	0.75	41	M=A	M P	W S
	IS*			37.8		0.5					
KAI	EP*	12	30	31.9		0.7	1.00	210			
	IS*			44.6		=0.1					
WEL	EP*	12	30	48.0		=1.2	2.06	80	3.7	4.0	4.0
	EPG			53.2		=1.4					
	I			58.5							
	IS*			31 16.6		0.2					
OPZ	EP*	12	30	50.7		1.1	2.08	169	3.3		
	ES*			31 18.2		1.1					
MJZ	EPN	12	30	54.8		0.4	2.61	206		3.3	3.3
	EPG			31 07.2		1.4					
	ISV			24.4		=1.1					
	ES*			32.8		=0.3					
	ISG			39.3		=1.8					
TNZ	EPN	12	31	01.0		1.1	3.03	36			
KRP	EPN	12	31	20.3		=0.6	4.58	37			
FELT MURCHISON (80) MM IV											
SEP 24	H M S	02	32	55.0							
	+	-	0.6								
	H M S	41	50S	173.05E		108 KM	SE	1.3		AVG MAG	68/ 669
						R					3.9
	H M S	02	33	12.6		0.9	0.48	330	M=A	M P	W S
											3.8 3.8 4.5
COB	IP	02	33	12.6		0.9	0.48	330	M=A	M P	W S
	IS			20.8		0.8	1.31	81	3.8	3.8	4.5
	IS			39.2		0.3					
KAI	IS	02	33	44.5		=0.2	1.59	229		3.9	
OPZ	IS	02	33	57.4		=1.0	2.21	188		4.0	
TNZ	EP</										

	ES	34 04.9	-1.1						
MJZ	EP	02 33 45.8	2.2	3.13	217				
	IS	34 19.6	-0.8					3.5	3.7
KRP	EP	02 33 55.3	-0.9	4.06	29				3.9

SEP 25	H	M	S	38.45S	175.75E	189 KM	SE	0.5	AVG MAG	68/ 674
	02	34	21.4	0.02	0.02	4				
KRP	IP*	02 34 47.5	-0.0	0.55	343					
	ES	35 07.7	-0.0							
TJA	IP	02 34 51.5	0.2	1.16	108					
	IS	35 14.9	0.4							
GNZ	IP	02 34 57.2	-0.1	1.80	97					
	IS	35 24.5	-0.4							
WEL	EP	02 35 09.8	-0.4	2.93	195					
	IS	48.2	0.3							
COB	EP	02 35 18.0	0.7	3.51	220					
	IS	59.8	-0.6							

FELT THROUGHOUT OTAGO AND SOUTHLAND, MAXIMUM INTENSITY MM VI  
AT PUYSEGUR POINT (146)  
USCGS ORIGIN 07 02 51.8 46.48 166.8E 33 KM MB=5.5 MS=6.3

SEP 25	H	M	S	46.71S	166.78E	12 KM	SE	1.9	AVG MAG	68/ 674
	07	02	47.6	0.08	0.16	4				
MNW	IP*	07 03 03.5	-4.0	1.10	32					
WPZ	IPN	07 03 12.8	-0.1	1.43	89					
	IP*	07 03 21.1	-1.5	2.16	56					
MJZ	EPN	07 03 42.0	-2.5	3.77	45					
	EPN	07 04 01.8	-1.0	3.13	56					
KAI	EPN	07 04 06.1	0.6	3.33	40					
COZ	PN	07 04 16	1.0	5.05	166					
	E	05 43								
COB	EPN	07 04 27.5	-1.4	7.08	40					
	ISN	05 44.5	-2.5							
WEL	EPN	07 04 40.0	0.0	7.91	50					
	IP*	05 05.5	1.5							
	ISN	06 05.5	-1.3							
TNZ	EPN	07 05 01.0	1.9	9.36	39					
	IP*	29.2	0.4							
	IPG	57.6	0.9							
	ISN	06 44.7	3.6							
KRP	EP	07 05 19.6	0.2	10.91	40					
	IS	07 19.6	2.2							
CIZ	EP	07 05 40.4	6.3	12.04	83					
ONE	EP	07 05 39.2	1.6	12.32	30					
	ES	07 50.4	0.3							

SEP 25	H	M	S	58 42.7	-0.2					
	08	20	31.0	0.11	0.08	4				
MNW	IP*	08 20 45.7	-0.4	0.82	42					
MJZ	EPN	08 21 23.5	-1.0	3.52	48					
	IP*	33.0	0.7							
GPZ	EPN	08 21 42.8	-0.6	4.92	59					
	ESN	22 38.3	-0.6							
	ES*	23 01.6	1.1							
	ISG	16.6	-0.2							
KAI	ES*	08 23 03.3	-1.6	5.07	42					
COB	EPN	08 22 09.7	0.9	6.81	41					
	ESN	23 25.7	1.7							

SEP 25	H	M	S	46.37S	166.53E	12 KM	SE	2.8	AVG MAG	68/ 674
	08	26	55.0	0.10	0.15	4				
MNW	IP*	08 27 11.5	-1.0	0.96	52					
WPZ	EPN	08 27 20.2	-2.7	1.62	101					
	IP*	23.9	0.0							
	ISN	41.6	-1.9							
MJZ	EPN	08 27 48.0	-2.5	3.66	51					
	IP*	59.1	0.3							
	ISN	28 29.2	-3.4							
	ISG	57.5	-1.0							
GPZ	EPN	08 28 10.9	1.2	5.09	60					
	EP*	27.9	4.7							
	EP*	42.6	4.6							
	ESN	29 10.9	3.9							
	IS*	30.3	0.6							
KAI	ES*	08 29 29.8	-2.9	5.19	44					
COB	EPN	08 28 34.7	0.2	6.93	43					
	ESN	29 51.0	0.0							

SEP 25	H	M	S	46.48S	166.65E	12 KM	SE	1.1	AVG MAG	68/ 675
	09	12	52.1	0.04	0.07	4				
MNW	IP*	09 13 08.6	-1.2	0.97	44					
WPZ	IPN	09 13 17.7	-1.1	1.53	98					
	IP*	24.2	1.1							
	ISN	38.4	-0.1							
MJZ	EPN	09 13 46.7	-1.0	3.67	49					
	IP*	56.5	0.5							
	ISN	14 30.0	0.2							
	ISG	55.3	-0.6							
GPZ	EP*	09 14 19.6	-0.4	5.08	59					
COB	EPN	09 14 33.5	1.6	6.96	41					
	ESN	15 49.5	0.9							

SEP 25	H	M	S	46.36S	166.69E	12 KM	SE	1.4	AVG MAG	68/ 676
	09	41	25.5	0.04	0.06	4				
MNW	IP*	09 41 40.8	-0.6	0.87	49					
WPZ	IPN	09 41 50.5	-1.6	1.52	102					
	IP*	53.6	1.0							
	IPG	56.5	0.2							
	ISN	42 10.2	-1.6							





		H	M	S		RES	DIST	AZ	AVG MAG			
COB	IS	42	06	8	1.0							
	EP	13	40	26.8	-0.3	10.80	219					
	ES	42	24	0	-0.6							
	ES	43	37	8	1.4	14.06	216					
MJJZ	EP	13	41	10.0	3.3*							
	ES											
	SEP 30											
	H M S	10	27	28.7	41.27S	175.66E	12 KM	SE	1.5	AVG MAG 68/ 688		
		* - 1.5		0.06	0.07							
MNG	IP*	10	27	41.1	DIR	RES	DIST	AZ	W-A	W-P	W-S	
	IS*			48.1		-0.0	0.66	348	3.9	4.1		
WEL	IP*	10	27	42.2		0.9	0.67	268	3.3	3.8	4.0	
	IS*			50.0		-0.6						
GNZ	EPN	10	28	03.2		0.7	2.07	358				
	IPG			09.1		-1.5						
COB	IS*			13.7								
	ISG			31.2		-1.3						
GNZ	EPN	10	28	03.8		2.3	2.22	274	3.3	3.7		
	ESN			31.3		0.2						
TNZ	EPN	10	28	06.0		0.4	2.30	334				
	ESN			35.0		1.9						
OCT 01												
H M S	11	16	59.7	36.16S	177.93E	275 KM	SE	0.9	AVG MAG 68/ 688			
		* - 1.2		0.14	0.17							
ECZ	EP	11	17	41.6	DIR	RES	DIST	AZ	W-A	W-P	W-S	
	ES			18.13.3		-0.5	1.61	162	4.9	4.3		
GNZ	IP	11	17	49.5		0.5	2.48	178	4.8	4.3		
	IS			18.27.5		0.2						
GNZ	EP	11	18	01.3		0.9	3.98	211				
	IP	11	18	13.9		-1.2	4.85	203	4.1	3.7		
COB	IS			19.14.5		0.5						
	ES	11	19	47.0		-0.4	6.39	218				
OCT 01												
H M S	13	15	07.6	36.44S	177.29E	12 KM	SE	1.1	AVG MAG 68/ 688			
		* - 0.9		0.06	0.06							
GBZ	IPN	13	15	33.8	DIR	RES	DIST	AZ	W-A	W-P	W-S	
	ISN			33.6		0.2	1.47	278				
ECZ	EPN	13	15	34.3		0.8	1.61	142				
	ESN			37.3		-1.0						
GNZ	EPN	13	15	43.2		-1.0	2.28	165	4.3	4.4		
	IP*			48.7		1.1						
ONE	IPG			53.8		0.1						
	IS*			16.10.3		-1.2						
MNG	EP*	13	15	50.8		0.1	2.46	285				
	EPN	13	15	55.3		0.1	3.08	206	3.4			
MNG	EPN	13	16	11.4		-1.7	4.41	198				
	IS											
OCT 01												
H M S	14	21	24.5	39.27S	174.78E	220 KM	SE	1.7	AVG MAG 68/ 688			
		* - 1.1		0.08	0.09							
TNZ	IP	14	21	54.3	DIR	RES	DIST	AZ	W-A	W-P	W-S	
	IP			55.4	U	0.8	0.32	284				
MNG	IS	14	21	55.4		1.0	0.60	84	3.3	3.1		
	IS			22.16.8		-0.7						
TUA	IP	14	22	01.8	U	2.0	1.45	159	4.8	4.1		
	IS			26.8		-0.4						
WEL	IP	14	22	04.2	D	0.3	1.90	77	4.6	4.4		
	IS			31.7		-2.5						
WEL	IP	14	22	07.2		2.2	2.02	180	4.3	4.1		
	IS			38.2		1.9						

		H	M	S		RES	DIST	AZ	AVG MAG		
COB	IP	14	22	09.9	U	0.9	2.40	220	4.9	4.3	
	IS			42.1		-1.3					
	IP	14	22	11.0	D	-0.1	2.60	77	5.0	4.4	
	IS			42.3		-5.0*					
GNZ	IS	14	22	19.0		-0.7	3.34	63	4.8		
	EP	14	23	31.1		-1.1	4.71	199	4.9		
GPZ	IS	14	23	52.8		-2.3	5.72	213			
	ES										
OCT 01											
H M S	23	17	15.9	37.98S	177.84E	142 KM	SE	2.2	AVG MAG 68/ 688		
		* - 1.6		0.10	0.15						
ECZ	IP	23	17	37.2	DIR	RES	DIST	AZ	W-A	W-P	W-S
	IS			53.2	D	0.0	0.62	63	6.0	5.3	
GNZ	IP	23	17	38.0	D	0.4	0.68	168	5.2	5.0	
	IS			54.1		-0.1					
TUA	EP	23	17	39.5		-0.5	0.99	213	4.9	5.2	
	IS			57.0		-1.5					
GNZ	IP	23	17	55.5	D	-2.8	2.58	312			
	EP	23	18	07.0		3.6	2.97	245	4.3		
MNG	EP	23	18	07.2		0.8	3.21	214	4.3	4.4	
	IS			47.4		2.3					
WEL	IS	23	19	05		-0.2	4.07	215	4.8	4.5	
	ES	23	18	31.5		1.1	5.02	230	4.4	4.5	
COB	EP			19.29.5		1.5					
	ES	23	20	11		-3.1	6.94	213	4.8		
GPZ	EP	23	19	14.5		1.6	8.19	221			
	ES			20.40.8		-3.4					
FELT WAIMANA (35) MM IIII											
OCT 02											
H M S	03	17	50.1	39.92S	174.37E	137 KM	SE	1.5	AVG MAG 68/ 689		
		* - 1.1		0.05	0.05						
TNZ	IP	03	18	12.8	DIR	RES	DIST	AZ	W-A	W-P	W-S
	IS			28.8		1.2	0.73	1	4.0	3.9	
MNG	IP	03	18	16.7		1.8	1.10	130	4.5	4.4	
	IS			34.2		0.4					
WEL	IP	03	18	19.4		1.4	1.40	168	3.8	4.4	
	IS			38.8		-0.5					
COB	IP	03	18	21.0		-0.4	1.71	226	4.6	4.0	
	IS			43.3		-2.0					
TUA	ES	03	18	58.7		-2.1	2.43	64			4.0
	IS	03	19	16.2		-0.4	3.11	67			4.4
MJJZ	EP	03	19	04.4		0.1	5.00	214			
OCT 02											
H M S	13	07	16.2	39.65S	174.42E	220 KM	SE	1.4	AVG MAG 68/ 690		
		* - 1.0		0.06	0.05						
TNZ	IP	13	07	46.1	DIR	RES	DIST	AZ	W-A	W-P	W-S
	IS			08.07.8	D	0.4	0.47	356			
MNG	IP	13	07	52.0	U	2.0	1.26	140	4.9	4.7	
	IS			08.16.7		0.4					
WEL	EP	13	07	55.0		1.7	1.65	171	4.3	4.1	4.7
	IS			08.22.8		0.8					
COB	IP	13	07	56.3		0.4	1.93	222	4.8	4.7	
	IS			08.25.3		-1.2					
GNZ	EP	13	08	07.3	D	0.2	2.97	71	4.2	4.6	
	IS			44.5		-2.0					
GPZ	EP	13	08	23.1		0.7	4.25	198	4.8		
	ES			09.12.1		-1.7					
MJJZ	EP	13	08	39.0		0.2	5.24	213	4.1	3.6	
	ES			09.34.5		-1.4					





IS*		10 22,5		=0,1											
H	M	S	NEAR MANAPOURI			DIR	RES	DIST	AZ	W=A	W=P	W=S			
		H	M	S	DIR	RES	DIST	AZ	W=A	W=P	W=S				
OCT 06	14 39 24														
FELT MANAPOURI (139) MM IV													68/ 584	2,7	
OCT 06	16 45 31,0	46,11S	167,19E	12 KM	SE	1,2									
		0,03	0,05	R					AVG MAG	68/ 584	4,4				
MNW	IP*	16 45 37,6			DIR	RES	DIST	AZ	W=A	W=P	W=S				
WPZ	EPN	16 45 54,7				2,0	0,44	43							
	ISN	46 11,4				0,4	1,27	116							
ROX	IPN	16 45 57,9				-0,9	1,62	68							
	IP*	46 00,7				0,9									
	ISN	17,9				-1,5									
	IS*	21,5				0,2									
	ISG	26,2				0,6									
GPZ	EP*	16 46 50,5				0,3	4,56	60							
KAI	EP*	16 46 52,7				0,4	4,69	42							
COB	EPN	16 47 05,5				1,8	6,43	41							
FELT DEEP COVE (129) MM IV															
OCT 07	00 37 51,3	41,52S	171,76E	12 KM	SE	1,9									
		0,14	0,17	R					AVG MAG	68/ 703	3,6				
COB	IP*	00 38 07,0			DIR	RES	DIST	AZ	W=A	W=P	W=S				
	IS*	00 38 17,0				-1,5	0,85	60							
KAI	EP*	00 38 11,2				1,1	1,04	195							
	IS*	24,2				0,1									
MJZ	EP*	00 38 35,2				-2,4	2,64	201							
MVG	EPN	00 38 36,8				1,5	2,95	73							
FELT MURCHISON (80) MM IV															
OCT 08	12 06 28,3	41,78S	171,92E	12 KM	SE	0,8									
		0,02	0,02	R					AVG MAG	68/ 704	4,0				
KAI	EP*	12 06 44,0			DIR	RES	DIST	AZ	W=A	W=P	W=S				
	IS*	55,2				0,3	0,84	207							
COB	IP*	12 06 44,4				-0,8	0,92	42							
GPZ	EP*	12 07 02,8				-0,6	1,99	165							
	ISN	26,1				0,9									
	ISG	34,5				-0,9									
HEL	EP*	12 07 05,0				-1,9	2,19	78							
	IPG	12,0				-0,7									
	IS*	33,3				-2,6*									
	ISG	42,5				0,1									
MJZ	EPN	12 07 08,3				1,0	2,45	205							
	ESN	36,2				-0,2									
	IS*	43,5				-0,1									
	ISG	51,3				0,3									
MVG	EPN	12 07 13,9				-0,1	2,93	68							
	IP*	22,7				3,2*									
	IPG	28,9				1,4									
	ISN	48,9				0,5									
	ISG	08 08,1				1,1									
TNZ	EPN	12 07 17,5				-0,0	3,20	37							
KRP	EPN	12 07 38,0				-0,5	4,75	37							
MNW	EPN	12 07 43				0,3	5,07	216							
OCT 08	23 59 55,8	39,89S	174,28E	217 KM	SE	1,6									
		0,08	0,08	9					AVG MAG	68/ 705	4,9				

		H	M	S	DIR	RES	DIST	AZ	W=A	W=P	W=S			
TNZ	IP	24 00 26,0			D	0,1	0,70	6						
MVG	IP	24 00 31,6			U	2,9	1,17	129						
GNZ	IP	24 00 29,5			D	0,7	1,20	55						
	IS	53,8				-0,7								
HEL	IP	24 00 33,5			U	2,7	1,45	165						
	IS	58,8				0,8								
COB	IP	24 00 33,9			D	1,0	1,68	224						
TJA	IP	24 00 41,8			D	1,0	2,47	65						
	IS	01 13,7				-2,0								
GNZ	IP	24 00 49,3			D	0,7	3,16	68						
	IS	01 27,8				-1,8								
KAI	EP	24 00 51,4				-0,3	3,41	218						
	ES	01 33,0				-2,0								
ECZ	IP	24 00 58,8			D	0,2	3,99	58						
	IS	01 46,0				-1,3								
GPZ	EP	24 00 59,5				0,8	4,00	197						
	IS	01 46,2				-1,3								
MJZ	EP	24 01 12,4				1,3	4,99	214						
	IS	02 07,1				-2,5								
ROX	EP	24 01 32,3				-0,3	6,67	212						
OCT 09	09 09 13,7	38,92S	176,30E	105 KM	SE	0,8								
		0,04	0,03	4					AVG MAG	68/ 703	4,4			
GNZ	IP	09 09 31,3			D	-0,1	0,65	244						
	IS	45,5				0,5								
TJA	IP	09 09 32,6			D	-0,1	0,67	81						
	IS	44,2				-1,1								
GNZ	IP	09 09 39,2			D	-0,1	1,37	79						
	IS	59,0				0,4								
TNZ	IP	09 09 42,0			D	0,9	1,52	259						
MVG	EP	09 09 45,1				0,5	1,81	200						
	IS	10 08,1				0,5								
ECZ	IP	09 09 49,1			D	0,1	2,15	56						
HEL	EP	09 09 56,0			D	0,2	2,64	206						
	IS	10 27,6				0,3								
COB	EP	09 10 06,7				-0,6	3,49	230						
	ES	46,4				-1,5								
MJZ	ES	09 12 01				-5,3*	6,70	219						
OCT 09	19 27 18,8	38,04S	178,26E	169 KM	SE	1,8								
		0,12	0,12	9					AVG MAG	68/ 704	4,4			
ECZ	IP	19 27 39,1			U	-3,1	0,41	33						
GNZ	P	19 27 44,6			U	1,4	0,63	197						
	IS	28 02,3				0,4								
TJA	IP	19 27 47,1				0,1	1,16	228						
	IS	28 06,7				-2,0								
GNZ	EP	19 28 01,5				1,1	2,42	241						
	ES	33,8				1,4								
TNZ	EP	19 28 11,9				1,2	3,25	248						
MVG	EP	19 28 13,7				1,6	3,36	219						
	IS	54,1				1,0								
HEL	EP	19 28 25,0				1,8	4,22	219						
	IS	29 14,2				1,4								
COB	EP	19 28 36,0				-0,6	5,24	233						
	ES	29 35,0				-1,8								
GPZ	ES	19 30 18,5				-1,7	7,07	215						
MJZ	ES	19 30 48,5				-2,4	8,36	222						
OCT 10	16 52 29,7	38,97S	176,22E	86 KM	SE	1,1								
		0,03	0,03	8					AVG MAG	68/ 705	3,8			



		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
CNZ	IP	16	52	43,7		=1,2	0,57	246			
	IS			56,8		0,3			3,6	3,3	
TJA	IP	16	52	46,6		=0,0	0,75	78			
	IS			53 00,6		1,1			4,4	4,1	
KRP	IP	16	52	51,8		0,1	1,17	333			
	IS			53 07,8		=0,3			3,7	3,3	
TNZ	EP	16	52	59,2		0,0	1,45	261			
GNZ	EP	16	52	54,7		=0,5	1,45	78	3,8		
MNG	EP	16	52	57,1		=1,8	1,74	199	3,8	4,1	
	IS			53 19,8		=0,7			3,9	4,1	
WEL	EP	16	53	12,0		1,7	2,57	205	3,8	4,1	
COB	EP	16	53	21,7		=0,1	3,41	231			
	ES			54 02,7		1,4					

OCT 10 H M S 41,65S 171,93E 12 KM SE 1,3 AVG MAG 68/714  
 17 46 30,0 R 0,03 0,04

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
COB	IP*	17	46	44,4		=0,8	0,83	47			
	IS*			55,4		=1,1					
KAI	EP*	17	46	47,0		=0,4	0,95	204			
	IS*			59,0		=1,3					
GPZ	EPN	17	47	03,1		=1,2	2,11	166	4,0		
	IP*			08,7		1,6					
	ISN			27,4		=2,4					
	IS*			35,2		0,2					
WEL	EPN	17	47	06,0		0,9	2,15	81	4,0	4,4	4,3
	ISN			33,0		1,9					
MJZ	EPN	17	47	10,4		=0,4	2,57	204	4,2	4,1	
	IP*			16,7		1,7					
	IPB			23,0		1,0					
	ISN			40,2		=1,2					
	IS*			50,2		1,4					
MNG	EPN	17	47	14,6		=0,4	2,88	70	4,6		
TNZ	EPN	17	47	19,5		1,7	3,09	38			
CNZ	EPN	17	47	30,1		4,2*	3,69	50	4,5	4,1	
KRP	EPN	17	47	38,0		=0,8	4,65	38	4,1	4,1	
	ESN			48 31,0		=0,3					

FELT WESTPORT DISTRICT MM IV

OCT 10 H M S 46,38S 166,14E 12 KM SE 2,5 AVG MAG 68/717  
 18 47 00,2 R 0,15 0,15

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
MNW	IP*	18	47	22,2		0,6	1,19	60	4,8	4,3	
	IS*			36,2		=1,4					
WPZ	EPN	18	47	32,1		0,5	1,89	100			
	ISN			52,6		=2,2					
ROX	EPN	18	47	39,8		1,3	2,39	69	4,0	4,1	
	IP*			45,6		3,3					
	ISN			48 07,7		0,8					
	IS*			16,4		2,6					
MJZ	EP*	18	48	05,5		=2,2	3,88	54	3,8		
GPZ	EPG	18	48	44,7		=3,3	5,33	62			

OCT 11 H M S 41,83S 172,22E 12 KM SE 1,2 AVG MAG 68/711  
 01 27 40,4 R 0,03 0,05

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
COB	IP*	01	27	56,0		0,2	0,84	28			
	IS*			29 07,0		=0,2					
KAI	EP*	01	27	58,8		1,6	0,92	221	3,7		
GPZ	EPG	01	28	18,8		0,1	1,89	171	3,2		
	ESG			44,5		0,2					
	E			51,3							
MJZ	EP*	01	28	23,5		=1,0	2,51	210	3,3	3,7	

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
	IS*			59,5		=2,0					
	ISS			29 06,3		1,2					
	E			15,5							
MVG	EP*	01	28	28,3		=0,1	2,74	65	3,8		
FELT	MURCHISON (80) MM IV										
	H	M	S								
OCT 12	04 04 24,9	38,94S	176,00E	118 KM	SE	1,1	AVG MAG	68/709			
	*- 0,7	0,04	0,04	7				4,5			
	H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S	
CNZ	EP	04	04	43,3		0,8	0,43	234			
	IS			56,1		0,2					
TJA	IP	04	04	46,7		0,5	0,91	82	4,3	4,4	
	IS			05 01,5		=0,9					
KRP	EP	04	04	47,2		=0,7	1,08	340			
TNZ	IP	04	04	51,7		1,4	1,28	299			
GNZ	IP	04	04	55,0		1,0	1,61	80	5,3	5,0	
	IS			05 15,3		=0,7					
MNG	IP	04	04	57,0		1,7	1,72	193	4,2	4,4	
	IS			05 18,6		0,4					
WEL	EP	04	05	05,3		=0,5	2,52	202	4,3	3,9	4,5
	IS			35,6		=1,0					
COB	EP	04	05	19,3		=0,8	3,30	228			
	IS			53,6		=1,3					

OCT 12 H M S 40,84S 176,18E 33 KM SE 0,6 AVG MAG 68/710  
 17 10 08,2 R 0,03 0,03

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
GAZ	IP*	17	10	11,2		=0,4	0,07	149			
MNG	IPN	17	10	17,0		=0,3	0,57	293	4,2	4,1	
	ISN			25,4		0,0					
WEL	IPN	17	10	25,3		0,0	1,15	247	3,9		
CNZ	EPN	17	10	33,7		0,8	1,71	343	3,3		
TNZ	EP*	17	10	43,5		=0,9	2,15	320	3,9	3,6	
	ES*			11 13,0		0,1					
COB	EPN	17	10	46,0		0,6	2,62	264			

OCT 13 H M S 36,14S 177,51E 12 KM SE 1,1 AVG MAG 68/711  
 18 34 46,5 R 0,03 0,03

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
GBZ	EPN	18	35	14,4		=0,2	1,64	267			
	ISN			34,7		=0,7					
ECZ	EPN	18	35	17,1		1,0	1,76	192	4,9		
KRP	EPN	18	35	23,9		=0,6	2,38	221	4,0	4,1	
	ISN			51,2		=1,6					
	IS*			36 00,4		0,8					
	ISS			07,0		0,3					
BNZ	EPN	18	35	26,2		=0,6	2,53	171	4,7	4,8	
	ISN			55,2		=1,8					
	ISS			36 10,2		=1,6					
TJA	EPN	18	35	29,7		1,0	2,68	186	4,3	4,3	
	EPG			41,2		0,6					
	ESN			36 00,5		0,0					
	ES*			09,5		1,0					
CNZ	EP*	18	35	43,5		=2,7*	3,43	206	3,8		
MNG	EPN	18	35	57,8		1,2	4,74	199	3,9		
COB	EPN	18	36	17,3		1,4	6,19	216			

OCT 15 H M S 41,77S 172,18E 12 KM SE 1,3 AVG MAG 68/712  
 05 53 17,7 R 0,05 0,05

		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
COB	IP*	05	53	33,0		0,6	0,80	32			
	IS*			43,5		0,2					
KAI	EP*	05	53	36,3		1,2	0,95	217	3,5		

	IS*		48.8	0.8														
WEL	EP*	05 53	57.2	=1.1	2.00	77												
	ES*	54	21.6	2.0														
MJZ	EP*	05 54	00.5	=2.0	2.55	209												
MNG	EP*	05 54	05.2	=0.6	2.74	66												
	IP*		12.8	=0.5														
	I		19.7															
	IS*		41.2	=0.7														
FELT MURCHISON (80) MM IV																		
OCT 15	H M S	41.73S	171.85E	12 KM	SE	1.3	AVG MAG	68/ 712										
	* - 0.6	0.04	0.05	R				3.7										
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
KAI	EP*	08 49	58.7	=0.9	0.86	202	3.5	4.3										
	IS*	50	09.2	=2.1														
COB	IP*	08 49	59.8	=0.8	0.92	46												
	IS*	50	12.3	=0.8														
GPZ	EP*	08 50	21.3	=1.4	2.05	164	3.3											
	ESV		40.9	=1.2														
WEL	EP*	08 50	22.2	=0.9	2.23	80												
	ESN		47.6	=1.0														
MJZ	EPN	08 50	22.0	=0.3	2.48	204												
	ISN		54.3	=1.8														
	ISG	51	08.5	=1.2														
MNG	EPN	08 50	29.0	=0.8	2.96	69												
	IP*		35.8	=0.4														
	IPG		43.4	=0.2														
	ISN	51	04.0	=0.5														
	IS*		19.2	=1.0														
GNZ	EP*	08 50	51.5	=1.9	3.78	49												
FELT MURCHISON (80) MM IV																		
OCT 15	H M S	40.20S	173.75E	208 KM	SE	1.6	AVG MAG	68/ 714										
	* - 0.9	0.07	0.07	9				4.1										
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
COB	IP	23 22	51.0	=1.1	1.17	221												
	IS	23	13.7	=1.0														
WEL	IP	23 22	53.3	=2.3	1.33	145	4.9	4.4	5.3									
	IS	23	17.6	=0.8														
MNG	IP	23 22	53.6	=2.1	1.38	108												
	IS	23	18.0	=0.4														
GNZ	IP	23 22	55.0	=0.5	1.71	95												
	IS	23	22.5	=0.2														
KRP	IP	23 23	03.3	=1.3	2.67	32												
TJA	IP	23 23	08.5	=0.3	2.97	63												
	IS		44.7	=2.4														
GPZ	EP	23 23	16.5	=1.1	3.59	193	5.9											
	IS		57.7	=2.3														
GNZ	IP	23 23	17.5	=1.2	3.65	66												
	IS	24	00.5	=1.0														
MJZ	EP	23 23	27.5	=0.7	4.50	212												
	IS		24 18.0	=2.3														
OCT 16	H M S	37.70S	176.58E	307 KM	SE	0.0	AVG MAG	68/ 715										
	* - 0.1	0.01	0.00	1				4.3										
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
KRP	IP	14 55	01.5	=0.0	0.86	294												
TJA	IP	14 55	03.2	=0.0	1.20	198												
	ES		36.2	=0.0														
GNZ	IP	14 55	06.4	=0.0	1.71	208												
	ES		41.8	=0.0														

	H M S	44.86S	167.69E	12 KM	SE	1.5	AVG MAG	68/ 716										
OCT 16	15 40	12.5	0.04	0.07	R			4.2										
	* - 1.1																	
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
MNW	IP*	15 40	30.0	=0.6	0.92	183												
	IS*		42.5	=0.6														
ROX	IP*	15 40	36.6	=0.6	1.31	119												
	IPG		40.2	=1.2														
	ISN		54.4	=0.6														
	IS*		57.2	=3.8*														
HPZ	ISN	15 41	06.1	=3.0	1.98	156												
MJZ	IPN	15 40	47.8	=0.1	2.17	67												
	EPG		58.3	=1.8														
	ISN		41 14.0	=0.2														
	ISG		26.5	=0.8														
GPZ	ESV	15 41	49.8	=2.2	3.74	74												
COB	EPN	15 41	30.0	=0.2	5.28	46												
	ESV		42 27.5	=1.6														
OCT 17	H M S	46.43S	166.57E	12 KM	SE	1.4	AVG MAG	68/ 717										
	10 18	36.8	0.10	0.10	R			4.1										
	* - 1.8																	
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
MNW	IP*	10 18	53.4	=1.2	0.98	49												
	IS*		19 06.4	=1.5														
MSZ	EPN	10 19	09.5	=0.2	2.00	29												
	ISN		35.2	=1.3														
ROX	EPN	10 19	11.5	=0.1	2.14	65												
	ISN		39.0	=1.5														
MJZ	EP*	10 19	41.0	=0.1	3.68	50												
OCT 17	H M S	36.77S	178.06E	216 KM	SE	1.7	AVG MAG	68/ 718										
	19 12	58.6	0.14	0.17	19			4.4										
	* - 2.1																	
		H M S	DIR	RES	DIST	AZ	W=A	W P	W S									
ECZ	IP	19 13	30.0	=0.1	1.00	157												
	IS		52.3	=2.3														
GNZ	IP	19 13	38.4	=1.0	1.87	181												
	IS		14 08.9	=1.7														
TJA	IS	19 14	13.5	=1.1	2.16	199												
KRP	EP	19 13	43.0	=1.1	2.32	240												
MNG	EP	19 14	05.0	=0.8	4.34	207												
	IS		57.3	=0.5														
COB	ES	19 15	34.0	=1.2	5.99	222												





OCT 24		H	M	S	40,36S 173,60E 173 KM			SE	1.0	AVG MAG	68/ 728
		+ 0,9			0,04	0,04	7				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
COB	IP	02 41	33,3			-0,0	0,98	222			
	IS		32,8			-1,3					
HEL	EP	02 41	37,0			1,0	1,28	136	4,2	4,0	4,7
	IS		38,5			-0,3					
TNZ	IP	02 41	37,0			0,7	1,32	28			
	IS		42 00,0			0,7			4,3	4,1	
MNG	IP	02 41	39,0			1,4	1,46	101			
	IS		42 01,8			0,1			4,4	4,5	
CNZ	IP	02 41	42,6			0,4	1,90	53			
KRP	EP	02 41	53,0			-0,7	2,96	32	4,1		
GYZ	IP	02 42	09,2			-0,6	3,83	65			
	IS		50,2			-1,4			4,7	4,4	
OCT 24		H	M	S	45,07S 167,65E 108 KM			SE	1,6	AVG MAG	68/ 730
		+ 1,3			0,06	0,07	12				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
MSZ	IP	13 19	10,2			0,7	0,45	26			
MNH	IP	13 19	11,6			0,1	0,71	182			
	IS		23,4			-2,2			4,5	4,5	
ROX	IP	13 19	18,8			1,5	1,25	109			
	IS		37,1			1,5			4,5	4,5	
WPZ	EP	13 19	24,2			0,4	1,80	192			
	ES		46,5			-0,3					
HJZ	IP	13 19	31,0			0,7	2,29	63	3,5	3,7	
	IS		58,7			0,5					
KAI	ES	13 20	34,2			1,2	3,73	48			
GPZ	ES	13 20	33,0			-2,7	3,84	71	4,1		
COB	EP	13 20	13,5			0,3	5,45	45			
	ES		21 13,5			-1,7					
OCT 25		H	M	S	46,34S 166,23E 12 KM			SE	1,1	AVG MAG	68/ 730
		+ 0,8			0,04	0,03	R				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
WPZ	IPN	01 20	54,7			-0,8	1,84	101			
	IPG		21 02,6			0,6					
	ISN		17,1			-1,0					
	ISG		27,4			0,6					
MSZ	IPN	01 20	57,5			-0,8	2,05	36			
ROX	IPN	01 21	02,3			0,2	2,32	69	5,2	5,1	
	IPG		12,6			0,8					
	ISN		29,0			-0,8					
	ISG		42,0			-1,2					
HJZ	EPN	01 21	21,7			-0,5	3,81	53	4,6	4,1	
	IP*		31,5			0,5					
	IPG		41,7			-0,1					
	ISN		22 05,4			-0,4					
GPZ	EPN	01 21	42,5			0,8	5,26	62	5,2		
	EPG		22 09,0			-2,1					
	ESN		42,6			1,8					
	IS*		23 06,1			1,6					
COB	EPN	01 22	06,7			0,9	7,05	44			
	EP*		26,0			-0,6					
	ESN		23 23,0			-0,6					
MNG	EPN	01 22	30,4			1,2	8,82	53			
CVZ	EPN	01 22	50,3			7,1*	9,89	47			
OCT 25		H	M	S	46,23S 166,47E 12 KM			SE	1,6	AVG MAG	68/ 730
		+ 1,8			0,09	0,09	R				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S

## LOCAL EARTHQUAKES

OCT 24		H	M	S	46,19S 166,27E 12 KM			SE	1,6	AVG MAG	68/ 732
		+ 1,7			0,11	0,09	R				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
WVH	IP*	04 09	11,0			-1,2	0,91	61			
	IS*		23,0			-1,6					
WPZ	ESV	04 09	44,7			-0,9	1,70	106			
MSZ	EPN	04 09	25,8			-0,7	1,86	34	3,7	3,7	
ROX	EPN	04 09	31,2			1,2	2,13	70	3,9	4,2	
	ISN		58,2			2,5					
HJZ	EP*	04 09	58,7			0,4	3,51	53	3,7	3,5	
	ES*		10 45,7			0,2					
OCT 25		H	M	S	46,32S 166,27E 12 KM			SE	1,6	AVG MAG	68/ 732
		+ 1,7			0,11	0,09	R				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
WVH	IP*	05 32	51,4			-0,5	1,03	67			
	IS*		33 04,0			-1,7					
WPZ	EPN	05 33	02,8			-1,2	1,84	106			
MSZ	EPN	05 33	09,3			0,3	1,91	38	4,0	4,1	
	IPG		12,3			0,3					
ROX	EPN	05 33	10,2			0,7	2,25	72	4,2	4,5	
	IPG		21,1			2,3					
	ISN		37,9			1,5					
HJZ	EP*	05 33	36,0			-1,7	3,70	55		3,8	
OCT 25		H	M	S	39,19S 174,98E 240 KM			SE	1,7	AVG MAG	68/ 733
		+ 0,8			0,06	0,07	8				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
CNZ	IP	05 34	34,2			1,1	0,44	93			
	IS		56,2			0,5					
TNZ	IP	05 34	34,0			0,8	0,47	269			
MNG	IP	05 34	41,1		D	2,1	1,49	165			5,2
TJA	IP	05 34	41,6		U	0,7	1,73	78			5,2 5,7
	IS		38 09,3			-2,2					
CAZ	IP	05 34	45,0			2,0	1,97	151			
HEL	IP	05 34	47,0		U	2,6	2,11	184	5,4	5,0	5,4
	IS		35 18,0			0,3					
GNZ	IP	05 34	48,4		U	0,9	2,43	78			5,8 6,0
	IS		35 21,3			-2,0					
COB	IP	05 34	49,6			0,5	2,57	221			
	IS		35 25,0			-1,1					
EOT	IP	05 34	56,1			0,6	3,16	63			5,6 5,4
	IS		35 36,1			-1,5					
GPZ	EP	05 35	16,0			0,5	4,84	201	5,8		
	IS		35 11,2			-2,1					
CRZ	EP	05 35	17,4			-1,1	5,08	338			
HJZ	IP	05 35	29,4			1,0	5,88	214			4,4 4,6
	IS		36 33,4			-2,9					
MSZ	IP	05 35	49,6			-0,7	7,61	222			
	IS		37 10,6			-5,1*					
OCT 27		H	M	S	42,13S 171,73E 12 KM			SE	0,7	AVG MAG	68/ 734
		+ 0,6			0,04	0,04	R				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S
KAI	EP*	08 41	10,0			-0,9	0,46	211	3,4		
	IS*		18,2			0,7					
GPZ	EPN	08 41	30,5			-0,3	1,71	157	2,8		
	ESN		52,2			0,0					
HEL	EP*	08 41	44,5			0,1	2,43	71			
MNG	EPN	08 41	51,5			0,4	3,20	63			
FELT WESTPORT (79) MM III											
OCT 29		H	M	S	36,84S 179,50W 127 KM			SE	1,6	AVG MAG	68/ 735
		+ 1,6			0,13	0,11	15				
		H	M	S	DIR	RBS	DIST	AZ	M=A	M=P	M=S



		H	M	S	DIR	RES	DIST	AZ	M=A	M P	M S
EOZ	IP	02	17	37.7		1.2	1.78	241			
	IS	18	00.1			=0.3			3.0	5.0	
GNZ	EP	02	17	47.5		=0.5	2.67	227			
	IS	18	18.5			=2.2			4.4	4.8	
TJA	IP	02	17	57.6		1.3	3.30	232			
	IS	18	38.2			2.7			4.3	4.9	
KRP	EP	02	18	06.3		=0.7	4.10	293			
	ES	53.6				=0.9					
GNZ	EP	02	18	14.1		0.9	4.57	237			
	ES	19	05.8			0.0				3.6	
MNG	EP	02	18	24.0		=1.0	5.45	225			
WEL	IS	02	19	47.0		=0.6	6.30	223			
OCT 29		H	M	S							
		17	13	44.3	38.25S	175.67E	297 KM	SE	1.0	AVG MAG	68/734
				+ 1.3	0.07	0.09	12			4.6	
KRP	EP	17	14	22.3		=0.2	0.34	343			
TJA	EP	17	14	26.2		=0.1	1.29	116			
	ES	57.6				=1.2			4.4	4.6	
GNZ	IP	17	14	30.9		0.6	1.89	103			
	IS	19	06.0			=0.1			4.7	4.6	
EOZ	ES	17	19	13.0		0.2	2.34	77			
MNG	IP	17	14	35.0		0.7	2.37	183			
	IS	19	14.0			0.7			4.1	4.3	
WEL	IS	17	19	27.0		1.0	3.11	193	4.7		
GPZ	ES	17	16	21.0		=1.5	5.90	202	5.0		
OCT 30		H	M	S							
		02	08	12.6	41.93S	172.06E	12 KM	SE	1.4	AVG MAG	68/737
				+ 0.5	0.05	0.08	R			3.3	
KAI	IP*	02	08	27.0		0.2	0.77	219	3.4		
	IS*	37.0				=0.3					
COB	IP*	02	08	30.2		=0.3	0.98	31			
	IS*	44.4				0.7					
GPZ	EP*	02	08	48.8		=0.6	1.82	166			
MJZ	EPN	02	08	50.3		=0.2	2.37	209	3.2	3.2	
	ESN	09	21.0			2.3					
MSZ	EPN	02	09	12		=1.7	4.08	226			
	FELT WESTPORT (79) MM IV										
OCT 30		H	M	S							
		08	46	48.8	34.89S	179.82W	329 KM	SE	0.7	AVG MAG	68/731
				+ 1.0	0.10	0.16	9			4.7	
EOZ	EP	08	47	47.7		=0.2	3.09	209	3.2	4.6	
	ES	48	34.5			0.4					
GNZ	IP	08	47	58.7		0.3	4.13	204	3.0	4.6	
	IS	48	52.2			=0.8					
KRP	IP	08	49	06.1		0.2	4.82	230	4.1		
WEL	EP	08	48	40.0		0.5	7.68	212			
	ES	50	07.0			0.4					
COB	EP	08	48	49.0		=0.8	8.53	221			
OCT 30		H	M	S							
		16	29	58.6	41.79S	171.84E	12 KM	SE	1.6	AVG MAG	68/731
				+ 0.5	0.04	0.04	R			3.6	
KAI	IP*	16	30	14.5		1.2	0.80	203	4.1		
	IS*	23.5				=0.7					
COB	IP*	16	30	15.8		=0.6	0.98	44			
	IS*	28.1				=1.5					
GPZ	EP*	16	30	33.5		=0.2	1.99	163	3.6		
	IS*	39.7				=0.4					
	I	31	11.0								

		H	M	S	DIR	RES	DIST	AZ	M=A	M P	M S
WEL	IP*	16	30	37.8		=0.5	2.26	78	3.5	4.1	4.2
	IP*	49.0				4.7					
	IS*	31	07.0			=1.1					
	ISG	14.8				0.1					
	I	23.0									
MJZ	EPN	16	30	38.0		0.9	2.41	204		3.8	3.7
	IP*	44.5				3.5					
	IP*	48.4				1.0					
	ISV	31	07.2			1.4					
TNZ	EP*	16	30	58		2.8	3.28	37			
MSZ	EPN	16	30	58.2		=1.2	4.06	224		3.7	4.0
	EP*	31	08.1			=1.0					
	EP*	45.0				=0.7					
	ISV	32	02.5			0.3					
	IS*	12.2				=3.2					
	ISG										
	FELT WESTPORT (79) MM IV										
OCT 30		H	M	S							
		19	09	58.2	41.80S	173.71E	12 KM	SE	1.0	AVG MAG	68/740
				+ 0.3	0.02	0.03	R			4.5	
WEL	IP*	19	10	19.5		0.0	0.98	97	4.4		
	IS*	30.0				1.7					
COB	IP*	19	10	18.5		=0.4	1.03	314			
KAI	EP*	19	10	31.4		0.3	1.86	246	4.7		
	I	40.3									
	IS*	56.2				0.5					
	I	11	09.0								
GPZ	EPN	19	10	30.7		=1.1	2.09	202	4.3		
	IP*	38.9				=0.8					
	ISV	59.4				=1.1					
CAZ	EP*	19	10	39.0		3.9	2.09	65			
TNZ	EP*	19	10	43.4		=1.5	2.66	11	4.7	4.6	
	IP*	51.2				=0.9					
	I	58.2									
	IS*	11	20.5			0.6					
MJZ	EPN	19	10	48.4		0.8	3.23	226	4.4	4.2	
	ISV	11	26.5			1.2					
	IS*	38.1				1.1					
	ISG	47.1				=0.1					
	FELT SEDDON (84)										
OCT 30		H	M	S							
		23	40	04.5	44.24S	167.70E	12 KM	SE	2.2	AVG MAG	68/741
				+ 1.5	0.07	0.10	R			4.6	
MSZ	IP*	23	40	11.8		=1.6	0.46	161			
MNW	IPN	23	40	32.0		0.7	1.54	182	4.7	4.8	
	ISV	54.0				2.8					
ROX	EPN	23	40	31.2		=2.0	1.69	138	4.7	4.9	
	ISV	52.2				=2.2					
MJZ	EPN	23	40	36.8		=0.6	2.01	84	4.6	4.5	
	IP*	46.6				1.5					
	ISV	41	02.6			0.9					
KAI	EP*	23	41	01.6		1.3	3.20	59	4.6		
	IS*	42.8				0.6					
	ISG	56.1				3.8					
COB	EPN	23	41	16.0		=0.2	4.86	51	4.3	4.3	
	EP*	40.5				=2.3					
	ISV	42	11.0			=0.0					
	ISG	44.7				=3.7					
MNG	EPN	23	41	43.0		0.9	6.80	61			
OCT 31		H	M	S							
		16	18	41.5	39.14S	174.74E	196 KM	SE	1.4	AVG MAG	68/742
				+ 1.2	0.08	0.08	16			4.4	





H	M	S	41,86S	171,86E	12 KM	SE	0,9	AVG MAG	68/748
NOV 56	00	20	21,4						
			0,03	0,03	R				
			* - 0,4						
KAI	P*	00	20	34,6		DIR	RES	DIST	AZ
	S*			46				0,74	206
COB	IP*	00	20	39,3	U			1,01	41
	S*			53,8					
	E			21					
GPZ	SN	00	21	19,7				1,93	163
	S*			31,5				2,26	76
WEL	S*	00	21	31,5				2,36	209
MJZ	EPN	00	20	59					
	S*			21					
	EP*	00	21	13				3,00	67
	ES*			54					
	FELT	WESTPORT (79)							

H	M	S	44,86S	167,33E	33 KM	SE	0,3	AVG MAG	68/749
NOV 56	00	42	22,7						
			0,02	0,02	R				
			* - 0,3						
MSZ	IP*	00	42	32,9	U			0,46	66
MNW	IPN	00	42	38,8	U			0,94	167
ROX	PN	00	42	47				1,54	114
	E			43					
	ESN			09,6					
MJZ	E	00	43	03				2,41	70
	S*			37					
GPZ	E	00	43	27				3,99	75

H	M	S	41,60S	171,64E	12 KM	SE	0,4	AVG MAG	68/750
NOV 56	16	11	23,6						
			0,02	0,02	R				
			* - 0,3						
KAI	EP*	16	11	40,5				0,94	190
	SN			50,5					
	E			56					
COB	P*	16	11	40,9				0,97	58
	E			49,3					
	E			51,4					
GPZ	EPN	16	12	00				2,22	161
	S*			54,7					
	ES*			21,5					
	ES*			32,0					
MJZ	EPN							2,53	199
MSZ	ESN	16	13	12				4,10	220
	FELT	WESTPORT (79)							

H	M	S	47,35S	165,90E	33 KM	SE	1,4	AVG MAG	68/751
NOV 56	20	07	15,7						
			0,11	0,07	R				
			* - 1,7						
MNW	PN	20	07	47,3	U			1,97	38
	E			59,6					
	SN			08					
WPZ	PN	20	07	49,0				2,14	72
	SN			12,5					
	S*			22					
ROX	PN	20	08	01				3,02	53
	E			22,6					
	SN			34,5					
MJZ	PN	20	08	20				4,64	45
	E			29					
	E			38					

H	M	S	45,38S	167,23E	12 KM	SE	1,2	AVG MAG	68/752
NOV 56	04	59	55,0						
			0,03	0,11	R				
			* - 1,7						
MNW	IP*	05	00	03,9				0,48	146
	S*			11					
MSZ	IP*	05	00	10,6	U			0,86	35
	S*			21,6					
	E			29					
ROX	SN	05	00	40				1,47	94
MJZ	EP*	05	00	44				1,8	2,69

H	M	S	41,69S	173,24E	33 KM	SE	1,1	AVG MAG	68/753
NOV 56	13	57	50,1						
			0,04	0,02	R				
			* - 0,4						
COB	IPN	18	58	02,2	D			0,70	327
	SN			07,5					
	EPN			12,5					
WEL	IP*	18	58	09				1,21	72
	SN			11,7					
	S*			25,0					
	IS*			27,9					
	E			26,4					
KAI	S*	18	58	41				0,4	1,61
MNW	IPN	18	58	21,3	U			0,6	1,99
	E			39					
	SN			45,7				1,9	
TNZ									
ONZ								2,63	20
								3,03	36

H	M	S	40,38S	175,09E	114 KM	SE	1,0	AVG MAG	68/754
NOV 59	12	12	20,2						
			0,03	0,03	R				
			* - 0,6						
MNW	IP	12	12	37,4	U			0,2	0,41
WEL	IPN	12	12	43,0				1,7	0,93
	E			49					
	SN			57					
	E			13					
ONZ	IP	12	12	49,0	U			0,2	1,24
TNZ	IP	12	12	46,4	D			1,0	1,30
	ES			13					
COB	EPN	12	12	53				0,4	1,90
	E			54,5					
	E			58					
	ES			13					
TJA									
KRP	PN	12	13	00				0,2	2,48
ONZ	SN	12	13	39,6				0,5	2,88
	E			49					
KAI	SN	12	13	54,5				0,1	3,48
GPZ	SN	12	14	00				1,5	3,77
	FELT	LOWER HUTT (68) MM IV, PA VALLEY (66) MM III							

H	M	S	41,44S	172,82E	125 KM	SE	0,6	AVG MAG	68/755
NOV 59	13	20	23,3						
			0,02	0,02	R				
			* - 0,5						
COB	IP	13	20	42,0				0,7	0,36
	S			54,7					
WEL	P	13	20	51,6	U			0,4	1,47
	E			54,7					
	S			21					
KAI	S	13	21	13,0				0,1	1,51
MNW	P	13	20	59,0				0,7	2,17

















		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	03	44	01.5		-0.4	3.02	205			
GNZ	P	03	44	12.0		-1.2	4.05	204		8.0	
KRP	P	03	44	22.4		1.2	4.75	230			
AUC	EP	03	44	22		0.7	4.76	245		5.1	
CRZ	P	03	44	37.8		-0.6	6.18	273			
MNG	EP	03	44	45		-0.4	6.75	212			
	IS	45	04			1.2					
WEL	EP	03	44	56.8		0.7	7.61	212	6.6		
COB	EP	03	45	07.0		0.3	8.46	222			
	IS	45	39.5			-1.5					

MANY UNIDENTIFIED IMPULSIVE APPARENT CRUSTAL PHASES RECORDED ON ALL STATIONS

NOV 22	H	M	S									68/ 796
	04	13	33.0	41.67S	171.56E	12 KM	SE	0.9				AVG MAG 4.2
			+ 0.7	0.04	0.05	R						
KAI	PG	04	13	51.4		0.9	0.86	187				
	IS*	14	01.5			1.1						
COB	IP*	04	13	51.6		-0.6	1.06	57				
GPZ	EPN	04	14	08		-0.2	2.17	159		3.9		
	SN			32.8		-1.6						
WEL	EPN	04	14	12		0.1	2.44	82	4.1	4.3	4.4	
	SN			41.8		0.9						
HJZ	P*	04	14	15.5		-0.5	2.45	199		3.9	3.9	
	S*			48		-0.2						
MNG	PN	04	14	21		-0.5	3.14	72			4.6	
	I			25								
	IP*			26.3		0.4						

FELT MURCHISON (80) MM IV

NOV 22	H	M	S									68/ 778
	10	27	22.7	38.10S	176.70E	12 KM	SE	ND				AVG MAG 3.5
				R	R	R						
KRP	P*	10	27	39.8		0.0*	0.93	280		3.2	3.1	
	SN			54.5		-0.9*						
GNZ	PG	10	27	46		-0.5*	1.17	118		4.5	3.7	
	ESG			23 02		-0.4*						

FELT KAWERAU (34) MM IV

NOV 23	H	M	S									68/ 811
	02	15	11.2	40.91S	178.08E	12 KM	SE	0.7				AVG MAG 4.1
			+ 1.1	0.06	0.04	R						
MNG	P*	02	15	47.0		0.6	2.00	277		3.8	4.1	
	PG			51.4		-0.2						
	S*			15 13.3		0.5						
GNZ	EPN	02	15	47.8		0.2	2.26	359		4.2	4.1	
	SN			16 14.3		-0.4						
WEL	S*	02	15	28		-0.9	2.53	260	4.1		4.1	
	SG			36.8		0.2						

NOV 24	H	M	S									68/ 811
	06	43	03.2	41.70S	172.00E	12 KM	SE	1.1				AVG MAG 3.9
			+ 0.6	0.05	0.05	R						
COB	IP*	06	43	18.0		-0.4	0.83	42		3.9		
	S*			29		-0.6						
KAI	P*	06	43	20.6		0.4	0.93	208		3.6		
	PG			22.5		0.3						
	S*			32		-0.9						
WEL	P*	06	43	41		0.4	2.12	80	3.8	3.9	4.1	
	S*			44 08		-0.6						
MNG	PN	06	43	47		-0.7	2.84	69			4.1	
	P*			55		2.1						

FELT WESTPORT (79), MURCHISON (80) MM IV

NOV 25	H	M	S									68/ 802	
	06	54	07.8	46.50S	166.92E	33 KM	SE	1.1				AVG MAG 3.9	
			+ 1.4	0.05	0.36	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
				06	54	23.6	J	-1.6	0.91	38			4.2
MNW	IP*			06	54	33.2		-0.2	1.41	97			3.8
WPZ	EP*					53		0.6					
	ES*			06	54	44		0.9	1.98	23			3.7
HSZ	EP*					10		0.6					
	ES*			06	54	44		0.2	2.02	61			4.0
	EP*					10		-0.6					
ROX	ES*												

NOV 25	H	M	S									68/ 803	
	05	27	51.2	46.00S	166.76E	12 KM	SE	1.2				AVG MAG 4.5	
			+ 1.0	0.04	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
				05	29	04.0	D	0.9	0.64	70			4.5
MNW	IP*			05	29	17.0	D	-1.2	1.56	32			4.7
HSZ	IPN					24							
	E			05	29	21.0		1.5	1.59	115			4.6
WPZ	EP*					24.0		0.5					
	EPG					40		-0.7					
	ES*					43.8		-1.2					
ROX	ESG			05	29	23.0	D	-1.2	1.87	75			4.6
	EP*					29		0.0					
	EPG					33.5							
	E					56		1.8					
	ESG					29 03							
HJZ	EPN			05	29	41.1		-0.8	3.31	54			4.3
	EP*					49.0		0.1					
	EPG					58.3		0.2					
	ES*					29 31		-1.3					
	E					47							
GPZ									4.77	63		4.4	
KAI									4.82	46		4.5	
COB	EPN			05	29	26.8		1.3	6.55	44			

NOV 26	H	M	S									68/ 814	
	09	20	07.3	38.87S	175.09E	238 KM	SE	1.0				AVG MAG 4.5	
			+ 0.8	0.04	0.04	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
				09	20	40.1	D	1.2	0.48	133			
CNZ	IP					21 04		0.7					
	ES												
TNZ	P			09	20	40.4		1.0	0.64	240			
KRP	EP			09	20	41.0		-0.2	1.01	20			
	S					21 06.8		-0.8					
MNG	IP			09	20	48.0	J	1.0	1.77	170			4.5
	S					21 16.5		-1.2					
GNZ	IP			09	20	51.7	D	-0.3	2.30	85			4.8
	E					21 20.2							
	S					27.0		0.3					
WEL	EP			09	20	53.9		0.6	2.42	186			4.2
	S					21 29		0.1					
COB	IP			09	20	57.7	J	-0.3	2.86	219			4.6
	S					21 36.3		-1.0					
ECZ	P			09	20	58.0		-1.1	2.96	68			4.9
GPZ									5.16	200			4.5

NOV 26	H	M	S									68/ 805	
	20	04	11.1	46.52S	166.99E	12 KM	SE	1.7				AVG MAG 4.3	
			+ 2.2	0.09	0.13	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P*	20	04	27.7		1		-2.2	1.03	44			4.7
WPZ	IPN			20	04	37.8		-0.5	1.57	96			4.3
	SN					58		-0.4					
ROX	EPN			20	04	46.8		0.4	2.17	62			4.3





		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	S	16	03	36.2		-1.6	3.30	223			
	P			04.17		-0.9					
	S					0.7					
GMZ S-P 23.8 SEC											
DEC 01 07 45 49.7 46.94S 165.18E 33 KM SE 0.3											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	PH	07	45	21.2	U	0.1	2.05	96	4.5	4.4	
	SN			45		0.3					
	S*			53		-0.2					
ROX	PN	07	46	37		-0.2	3.22	64			
	SN			47 13 5		0.1			4.5	4.3	
GPZ	EPN	07	47	41.5		-0.1	6.18	61	4.6		
COB	E			49 08			7.99	46	5.2		
DEC 01 08 27 18.7 37.77S 177.62E 114 KM SE 1.5											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	IP	08	27	37.3	D	-0.8	0.74	84	5.4	4.7	
	S			54		1.1					
TUA	P	08	27	40.5		-1.1	1.10	199			
	E			45					4.2	4.3	
	S			54 0							
	E			59		0.0					
KRP	IP						1.65	264			
GBZ	IP	08	27	56.2	D	-0.2	2.31	312	4.1	3.6	
	S			28 24		-0.8					
TNZ	EP	08	28	07.5		2.9	2.91	240			
MNG	EP	08	28	10		0.4	3.29	210			
WEL	ES	08	29	07		-2.0	4.14	211	4.7	3.8	3.3
COB	EP	08	29	33		-0.1	5.03	227		4.0	4.2
	ES			29 31		0.6					
DEC 02 14 53 13.2 47.52S 168.33E 12 KM SE 2.3											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	PN	14	53	50.5		-0.4	2.35	43	5.2	4.8	
	SN			54 19 5		0.6					
ROX	PN	14	54	09.2		-0.4	3.43	55	5.1	5.0	
	SN			43		-2.2					
	ES*			57		-1.1					
MJZ	PN	14	54	24.7		-2.6	5.04	47	4.8	4.4	
	P*			34 8		-9.8*					
	SN			53 25.4		1.3					
	SG			56 01		-2.2					
GPZ	E			54 41 3							
	EPN	14	54	44		-1.5	6.40	56	5.3		
	ESN			55 59		2.5					
	ES*			56 29		1.7					
KAI	EPN	14	54	50.5		2.3	6.60	43			
	ESN			55 06		4.8					
COB	EPN	14	55	10.5		-0.8	8.34	42			
	ESN			56 39		-3.7					
WEL	EPN	14	55	24		1.5	9.19	51	5.3		
	ESN			57 03		0.1					
MNG	EPN	14	55	34		0.2	10.05	50			
	E			52							
DEC 02 16 25 21.0 40.62S 176.68E 33 KM SE 0.6											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPN	16	25	36.4		-0.3	0.91	270		4.4	4.4
	SN			47.5		-0.8					
WEL	PN	16	25	46.3		0.3	1.59	245	3.8	4.1	4.2
	SN			25 05 7		0.8					
	E			19 3							
GNZ	IPN	16	25	50.0	U	0.4	1.66	328		4.3	4.3
TUA	SN			25 11		-0.2	1.85	12		4.7	4.4
TNZ	P*	16	25	00.5		-0.7	2.27	308			
	ES*			32		0.7					
COB	PN	16	26	06		0.2	3.03	260		4.3	4.1
	E			54							
	E			27 07							
GPZ	EPN	16	25	42		-0.1	4.29	223	4.2		
MJZ	ESN			27 44 5		-0.2	5.70	232		3.6	3.5
FELT MOUNT VERNON (60) MM V 21 SEC S MINUS P ON GNZ NO TIMING											
DEC 03 16 27 37.8 38.35S 176.47E 220 KM SE 1.6											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	68/ 817
TUA	P	16	28	08.6		0.5	0.70	130		4.2	4.4
ECZ	EP	16	28	16		0.0	1.77	69		4.5	4.1
	ES			44		-1.4					
WEL	P	16	28	34.3		3.0	3.20	204	4.7	4.1	4.4
	S			29 13 5		0.8					
COB	EP	16	28	40.5		0.1	3.96	225		4.0	4.4
	ES			29 29		0.1					
KAI	ES	16	30	06		-1.3	5.67	221			
GPZ	S	16	30	15		-1.2	6.06	207	4.9		
MJZ	S	16	30	42		-0.8	7.21	217			
DEC 04 11 33 12.1 40.70S 176.72E 33 KM SE 1.0											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	68/ 818
MNG	IPN	11	33	27.8	U	-0.5	0.95	274		4.5	
	E			37							
WEL	PN	11	33	37.9		0.7	1.59	248	4.2	4.3	4.7
	E			46 3							
	SN			56 5		0.4					
	E			34 10 5							
TUA	IPN	11	33	41.7	U	0.1	1.91	10		4.4	4.3
TNZ	P*	11	33	52		-1.6	2.35	309		4.5	
KRP	P*	11	34	03.1		-0.2	2.92	341		3.9	3.8
	S*			42		0.4					
COB	EPN	11	33	58		0.8	3.05	261		4.3	4.3
	P*			34 06 5		0.9					
	SN			32		0.5					
	S*			45		-0.6					
	E			59							
GPZ	SN	11	34	59		-2.1	4.26	224	4.4		
KAI	SN	11	35	04		0.0	4.38	244			
MJZ	PH	11	34	37.3		4.3*	5.68	233		3.7	3.8
	SN			39 36 5		1.1					
DEC 07 01 55 09.8 41.91S 171.90E 12 KM SE 0.8											
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	68/ 819
KAI	IP*	01	55	22.7	D	-0.4	0.72	211			
COB	IP*	01	55	28.2	U	-0.4	1.03	37		4.7	4.8
	S*			41 5		-1.0					
GPZ	EPN	01	55	41		0.1	1.87	163	4.1		







		H	M	S	45.12S	167.65E	104 KM	SE	0.1	AVG MAG	68/ 839
	HNG	IP	01	11	04.0	0	-0.0	1.03	44		
		S			17.1		-1.1			4.1	4.1
	COB	P	01	11	09.2		0.3	1.39	281		
		S			26		-0.8			3.9	4.1
	TNZ	ES	01	11	46		0.8	2.17	357		
										3.3	
DEC 13	H	M	S	01	56	05.1					
					0.01	0.01					
					H	M	S	DIR	RES	DIST	AZ
	MNW	IP	01	56	22.7	J	-0.1	0.66	182		
		S			36.3		0.0			4.2	4.2
	WPZ	P	01	56	35.2		0.1	1.75	152		
		S			57.5		-0.0			4.1	3.9
	HJZ	S	01	57	10.5		0.0	2.31	62		
										3.4	
DEC 13	H	M	S	06	02	24.0					
					0.04	0.04					
					H	M	S	DIR	RES	DIST	AZ
	GNZ	IP*	06	02	31.7	D	-0.8	0.36	17		
		I			33.1						
		IS*			39.3		0.7				
	TUA	IP*	06	02	35.9	U	-0.4	0.61	288		
		IS*			45.2		0.1			4.5	4.4
	HNG	EPN	06	03	01.5		0.4	2.46	228		
		E			21					2.9	
DEC 14	H	M	S	01	14	26.9					
					0.25	0.25					
					H	M	S	DIR	RES	DIST	AZ
	ECZ	E	01	15	39			4.60	225		
	GNZ	EP	01	15	46		-0.2	5.56	221		
		E			17 04					4.9	4.8
	TUA	P	01	15	52		-2.3	6.16	224		
		E			17 09						
	KRP	P	01	15	01.5		0.2	6.68	237		
		S			17 15		0.8				
	ONE	E	01	15	01			6.90	257		5.3
	MNG	EP	01	15	18		-5.5	8.34	221		
		E			51						
		S			17 56		2.1				
	HEL	ES	01	18	15		0.8	9.20	220		5.5
	COB	ES	01	18	37		-1.6	10.23	227		
	GPZ	ES	01	19	20.5		0.0	12.02	217		5.4
	MJZ	EP	01	17	30		1.0	13.36	221		
		ES			19 50		-1.4				
	MNW	P	01	19	09		6.2*	16.06	221		
DEC 14	H	M	S	02	00	41.0					
					0.03	0.08					
					H	M	S	DIR	RES	DIST	AZ
	ECZ	P	02	01	11.3		-1.4	1.35	222		
		E			32.5					4.9	4.7
	GNZ	P	02	01	23		0.1	2.35	214		4.7 4.8
		ES			56		0.7				
	TUA	EP	02	01	30.5		0.8	2.91	223		4.6 4.8
		ES			02 07		-0.3				
	KRP	E	02	01	39			3.53	248		4.0 3.9
		S			02 20		-0.5				
	HNG	P	02	01	58.5		1.2	5.11	219		4.0 4.1
		S			02 56		-0.5				
	HEL	S	02	03	17		0.5	5.97	218		5.3 4.7
	COB	ES	02	03	41.5		1.5	6.97	229		

		H	M	S <th>32.75S</th> <th>178.97E</th> <th>33 KM</th> <th>SE</th> <th>2.2</th> <th>AVG MAG</th> <th>68/ 839</th>	32.75S	178.97E	33 KM	SE	2.2	AVG MAG	68/ 839
	GPZ	ES	02	04	22		-1.4	8.82	215		5.3
	HJZ	ES	02	04	53		-0.7	10.12	221		
DEC 14	H	M	S	03	30	13.8					
					0.29	0.43					
					H	M	S	DIR	RES	DIST	AZ
	ECZ	E	03	31	29			5.34	202		W-A W P W S
	GNZ	EP	03	31	46		2.0	6.37	202		5.2 5.0
		ES			32 53		-0.6				
	TUA	EP	03	31	50.5		0.5	6.82	206		
		ES			33 06		1.8				
	KRP	P	03	32	17		-2.5	6.84	219		
	HNG	EP	03	32	55		-2.1	9.03	208		
		ES			33 55		-2.1				
	COB	ES	03	34	36		0.9	10.64	216		
DEC 14	H	M	S	11	13	51.2					
					0.04	0.07					
					H	M	S	DIR	RES	DIST	AZ
	MSZ	IP	11	14	04.2	J	0.0	0.36	21		
		S			14		0.0				
	MNW	IP	11	14	08.7	U	0.6	0.78	186		3.8 3.8
		S			20.5		-0.3				
	HJZ	P	11	14	25.9		-0.6	2.20	63		3.5 3.2
		S			53		0.3				
DEC 14	H	M	S	19	49	53.5					
					0.03	0.04					
					H	M	S	DIR	RES	DIST	AZ
	KAI	EP*	19	50	07		-0.3	0.74	203		3.3
		S*			15.9		-1.6				
		SG			17.7		-1.1				
		E			23.2						
	COB	P*	19	50	12.5	U	0.3	1.03	43		4.0 4.1
		S*			26.5		0.4				
		SG			28		-0.4				
	GPZ	EP*	19	50	29		0.9	1.95	162		3.1
		SN			51		1.4				
	HEL	EP*	19	50	33		-0.9	2.29	77		3.6 3.7 3.7
		ES*			51 04		-0.1				
	HJZ	PN	19	50	31.5		0.2	2.36	204		3.5 3.3
		PG			41.5		0.2				
		SN			51 00.3		0.9				
	HNG	EPN	19	50	41		0.5	3.03	67		3.7 3.6
		P*			48		1.5				
		ES*			51 24.5		-1.8				
DEC 14	H	M	S	20	19	26.9					
					0.13	0.15					
					H	M	S	DIR	RES	DIST	AZ
	TNZ	P	20	20	00.5		0.9	0.45	279		
	HNG	IP	20	20	07.1	J	2.3	1.42	164		3.9 4.0
		S			33.5		-0.5				
	HEL	S	20	20	44		0.9	2.03	184		4.1 4.0
	GNZ	P	20	20	11.8		-2.2	2.47	77		4.3 4.3
		E			49						
	COB	IP	20	20	15.7	J	1.3	2.50	222		4.2 3.7
		S			49		-2.3				
	GPZ	S	20	21	37		-0.5	4.76	201		4.4





		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
TUA	P	08	17	56		-0.1	0.86	97					
	S			13 16		-2.0			4.2	4.2			
TNZ	P	08	13	00.5		0.4	1.39	249					
GNZ	P	08	13	03.5		2.0	1.54	88		3.6			
	S			26		-1.6				4.2	4.2		
MNG	IP	08	19	07.4	U	1.7	1.96	193					
	S			36		1.1				4.7	4.1		
WEL	P	08	19	16.3		1.5	2.76	201	4.1	4.0	4.1		
	S			53		1.9				4.0	4.2		
COB	EP	08	19	23		-0.6	3.49	226					
	S			19 06.5		-0.2							
GPZ	ES	08	19	53		-1.9	5.61	206	4.7				
HJZ	ES	08	20	19		-2.4	6.74	217					
DEC 17		H	M	S									
		11	56	03.6		39.21S	178.16E	33 KM	SE	1.2			68/ 851
				+ 1.5		0.03	0.07	R					AVG MAG 4.0
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
GNZ	IP*	11	55	15.8	U	0.4	0.58	348					
	I			17.9						4.2	4.2		
	S*			23		-0.9							
TUA	IP*	11	55	22.0	J	1.3	0.89	297		4.3	4.3		
	S*			33		-0.1							
MNG	E	11	56	48			2.50	235					
	ESN			57 09		-0.7							2.7
DEC 18		H	M	S									
		05	43	15.6		46.36S	166.70E	33 KM	SE	2.2			68/ 851
				+ 3.7		0.11	0.16	R					AVG MAG 3.7
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
MNW	IP*	05	43	30.2	J	-1.4	0.83	45					
	S*			43.5		0.4				4.1	4.2		
WPZ	E	05	43	42.5			1.46	102					
	S*			44 01		-0.6							3.8
MSZ	EP*	05	43	48		-1.0	1.87	26		3.5	3.5		
	S*			44 13.3		-0.6							
	E			17									
HJZ	EP*	05	44	20.5		3.2	3.53	49					3.4
DEC 18		H	M	S									
		08	18	52.2		44.30S	167.91E	12 KM	SE	1.2			68/ 851
				+ 1.2		0.03	0.05	R					AVG MAG 3.7
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
MSZ	IP*	08	19	58.7	U	-0.9	0.37	180					
	I			19 02.0									
	S*			04.3		-0.7							
MNW	P*	08	19	19.5		0.7	1.49	188		4.0	4.1		
	PG			22.5		0.0							
	S*			41		2.3							
ROX	ESN	08	19	39		0.1	1.54	140					3.7
HJZ	EP*	08	19	24.5		-0.7	1.86	81		3.1	3.2		
	PG			29		-0.9							
	S*			50		0.1							
	ESG			56.5		1.4							
WPZ	ES*	08	20	06		-1.5	2.45	165					3.8
DEC 18		H	M	S									
		17	41	39.9		39.13S	174.99E	239 KM	SE	1.3			68/ 851
				+ 0.9		0.03	0.05	R					AVG MAG 4.3
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
TNZ	P	17	42	12		0.3	0.48	263					
	ES			37		0.7							
KRP	IP	17	42	14.2	D	-1.7	1.27	20		4.4			
	S			39.5		-4.2*							
MNG	IP	17	42	19.0	U	1.1	1.54	166		4.5	4.5		
	S			47		-0.1							

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	M	S
TUA	ES	17	42	48.5		-1.2	1.72	80					4.4
WEL	P	17	42	25.5		2.1	2.16	184	4.6	4.2	4.4		
	S			57.5		0.4							
GNZ	P	17	42	26.8		0.9	2.42	79				4.4	4.3
	S			43 01		-0.6							
COB	IP	17	42	28.2	J	0.2	2.61	221				4.8	4.2
	S			43 05		-0.4							
KAI	S	17	43	41.5		0.6	4.35	218		4.3			
GPZ	EP	17	42	55		0.3	4.89	200		4.7			
	S			43 52		-0.9							
HJZ	P	17	43	08.5		1.0	5.92	213				3.6	3.6
	S			44 13		-2.9							
DEC 19		H	M	S									
		08	37	04.3		37.98S	177.63E	136 KM	SE	1.7			68/ 854
				+ 0.9		0.03	0.06	R					AVG MAG 4.7
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
GNZ	IP	08	37	26.6	U	0.9	0.73	155				5.0	5.3
	S			42		-0.1							
GCZ	IP	08	37	25.9	D	-0.2	0.78	69				5.0	5.0
	S			41.7		-1.1							
TUA	P	08	37	27.3		0.2	0.91	204				4.9	4.9
	I			29.0									
	S			45		0.4							
	E			51.3									
GBZ	IP	08	37	43.1	D	-1.7	2.46	315					
TNZ	E	08	37	54			2.82	244				4.0	
ONE	EP	08	37	59		1.5	3.42	309		4.2			
	E			38 36									
WEL	E	08	38	08.5			3.97	213		4.7	4.2	4.5	
	S			53		1.9							
	E			39 12									
GPZ	S	08	39	57		-3.2	6.84	212		4.8			
CIZ	E	08	38	57.5			7.41	145					
	S			40 14		0.2							
HJZ	EP	08	39	02		2.1	8.08	220					
	S			40 29		-1.0							
DEC 20		H	M	S									
		07	02	25.8		34.83S	178.69E	12 KM	SE	2.9			68/ 855
				+ 3.1		0.15	0.22	R					AVG MAG 4.8
		H	M	S	DIR <th>RES</th> <th>DIST</th> <th>AZ</th> <th>W-A</th> <th>W</th> <th>P</th> <th>M</th> <th>S</th>	RES	DIST	AZ	W-A	W	P	M	S
ECZ	PN	07	03	13.5		2.9	2.86	182				4.9	4.6
	SN			45		0.6							
TUA	PN	07	03	29.5		1.4	4.16	197				4.9	4.6
	EP*			37.7		-0.4							
	E			04 37									
TNZ	E	07	03	57			5.55	217					
MNG	EPN	07	03	56.0		-1.0	6.31	203				4.5	
	P*			04 10.8		-4.2							
	ESN			05 06		-1.1							
	S*			37		-0.3							
WEL	E	07	04	31			7.15	204		5.0			
	ESN			05 24		-3.0							
COB	EPN	07	04	17		-0.0	7.82	215					
	E			32									
	ESN			05 48		5.1							
	E			05 06									
CIZ	E	07	05	14			9.82	160					
DEC 20		H	M	S									
		14	03	42.2		38.50S	176.00E	217 KM	SE	0.7			68/ 856
				+ 0.7	</								



		H	M	S														
	MNG	IP	14	04	24.7	U	0.8	2.15	191									
		S			56.3		0.3					4.3	4.2					
	HEL	P	14	04	33		0.5	2.94	198		4.4	4.4	4.2					
		S			03.12		0.5											
	COB	P	14	04	40.3		-0.1	3.61	223									
		S			03.25		-0.5					4.2	4.2					
	GPZ	EP	14	03	07		-0.5	5.77	205		4.4							
		ES			05.13		-0.9											
DEC 20			H	M	S													
			17	50	04.6			38.80S	175.81E	195 KM	SE	1.8		AVG MAG	68/ 851			
					+ - 2.0		0.10	0.12	16					4.3				
			H	M	S													
	CNZ	P	17	50	31.5	U	0.4	0.45	207		W-A	W P	W S					
	TUA	S	17	50	55.5		-1.9	1.05	91									
	TNZ	P	17	50	35.3	U	-0.1	1.18	250					4.3	3.4			
	MNG	IP	17	50	42.6	U	1.2	1.83	188					4.4	4.1			
		S			51.10		0.3											
	HEL	IP	17	50	51.2	D	1.2	2.61	197		4.2	4.4	4.1					
		S			51.28		3.0											
	COB	P	17	50	57.5		-0.5	3.29	225					4.0	3.8			
		ES			51.38		-1.2											
	GPZ	EP	17	51	25		-0.3	5.44	205		4.4							
		ES			52.26		-2.0											
DEC 21			H	M	S													
			08	04	08.2			35.73S	178.37E	33 KM	SE	1.4		AVG MAG	68/ 852			
					+ - 1.7		0.07	0.11	R					4.1				
			H	M	S													
	ECZ	PN	08	04	38		-0.4	1.97	176		W-A	W P	W S					
		SN			05.01		-0.2							4.3	4.2			
		S*			08		-1.3											
	GNZ	EPN	08	04	51		-0.6	2.92	185					4.3	4.1			
		E			05.02		2.0											
		ESN			26.5													
		E			34.5													
	KRP	P*	08	03	02.9		-0.6	3.16	225					3.9				
	TUA	PN	08	04	58		2.3	3.22	197					4.5	4.4			
		S*			05.40		-6.9*											
	MNG	EPN	08	03	24.5		-0.6	5.38	204					3.8	3.5			
		EP*			42.4		0.8											
		ESN			05.23		-1.3											
		E			47													
DEC 21			H	M	S													
			11	39	28.0			38.52S	175.69E	213 KM	SE	0.6		AVG MAG	68/ 853			
					+ - 1.0		0.03	0.04	9					4.1				
			H	M	S													
	KRP	IP	11	39	56.9	D	-0.2	0.61	349		W-A	W P	W S					
	TUA	S	11	40	26.5		0.7	1.18	104									
	GNZ	S	11	40	35		-0.7	1.83	95									
	MNG	IP	11	40	09.5		0.7	2.10	184					4.1	4.1			
		S			40		-0.3											
	HEL	E(P)	11	40	17		-0.1	2.85	194		4.2							
		S			55		-0.1											
	COB	ES	11	41	07		-0.1	3.43	221									
DEC 21			H	M	S													
			22	00	54.1			38.38S	178.02E	33 KM	SE	0.8		AVG MAG	68/ 854			
					+ - 1.0		0.05	0.04	R					3.7				
			H	M	S													
	GNZ	IP*	22	01	01.7	U	0.4	0.27	179		W-A	W P	W S					
		I			04.6													
		S*			06.5		0.0											
	TUA	IP*	22	01	10.0	U	0.3	0.81	237					4.2	4.2			
		S*			21.5		0.6											
	KRP	ESN	22	01	48		-0.1	2.01	282									

		H	M	S														
	MNG	PN	22	01	37													
DEC 22			H	M	S													
			02	04	42.2			38.67S	177.90E	72 KM	SE	1.2		AVG MAG	68/ 851			
					+ - 0.6		0.04	0.04	6					4.0				
			H	M	S													
	GNZ	IP	02	04	52.2	U	-0.8	0.10	73									
		S			05.00.3		-0.7											
	TUA	IP	02	04	57.2	D	0.6	0.60	257					4.7	4.6			
		I			05.00.6													
		S			08.5		1.0											
	ECZ	EP	02	03	03		0.3	1.10	28					4.5	4.3			
		E			10													
		ES			19.5		1.5											
		E			22													
	KRP	P	02	05	14		-0.5	2.00	291					3.6	3.3			
		E			21													
		S			37		-1.4											
		E			45													
	MNG	IP	02	05	24.1	D	-0.4	2.69	223					4.1	3.6			
		ES			56		-0.2											
	HEL	P	02	03	35.3		-0.9	3.55	222					4.1	4.0	3.9		
		ES			06.17.5		0.3											
	COB	P	02	05	50.5		-1.1	4.65	237					3.9	3.7			
		ES			06.47		2.3											
			FELT	GISBORNE	(65)	MM	IV											
DEC 22			H	M	S													
			04	11	43.7			42.24S	174.00E	33 KM	SE	1.3		AVG MAG	68/ 852			
					+ - 0.4		0.03	0.03	R					4.3				
			H	M	S													
	HEL	IP*	04	12	04.5	U	0.1	1.12	31		W-A	W P	W S					
		S*			19.0		-0.6											
		I			24.5													
		I			35.3													







	S	45 33.5	-0.1																	
COB	P	15 43 12.5	-0.5	9.03	220															
	S	45 54	1.3																	
KAI	ES	15 47 32	0.1	10.74	219															
GPZ	ES	15 47 39	-0.1	11.06	211					5.4										
HJZ	EP	15 45 55	0.9	12.26	216					5.4										
	ES	45 06	-0.8																	
DEC 25	H M S	17 46 01.4	38.92S	176.18E	12 KM	SE	1.9													
		+ 0.6	0.04	0.04	R					AVG MAG	68/ 876									
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S										
TUA	P*	17 45 13.4	-2.2	0.77	82			4.0	4.2											
	S*	24.5	-1.6																	
KRP	P*	17 45 22	0.5	1.11	333															
	S*	37	0.6																	
GHZ	EP*	17 45 29.5	1.9	1.47	80															
	S*	49	1.9																	
MNG	EPN	17 45 31	-0.4	1.78	197															
	PG	36	-1.5																	
	ESG	47 04	2.4																	
HEL	ESN	17 47 14	0.4	2.60	204															
COB	EP*	17 45 59	-2.0	3.42	230															
	E	47 36																		
DEC 25	H M S	19 33 44.2	41.75S	172.14E	12 KM	SE	1.4													
		+ 0.4	0.03	0.03	R					AVG MAG	68/ 877									
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S										
COB	P*	19 33 58.9	-0.2	0.81	34															
	PG	34 00	-0.7																	
	S*	09.5	-0.6																	
KAI	EP*	19 34 03	1.7	0.94	215															
	S*	15	0.9																	
	SG	16	-0.0																	
GPZ	EPG	19 34 22	-2.1	1.97	169															
	S*	46	1.0																	
WEL	EP*	19 34 20	0.0	2.03	77															
	EPG	23	-2.3																	
	S*	48	1.2																	
HJZ	EPN	19 34 25	0.4	2.54	206															
	PG	34.5	-1.2																	
	SN	56	1.0																	
	SG	35 08.5	-1.5																	
MNG	E	19 34 30		2.77	67															
	P*	34.8	2.2																	
	S*	35 09	0.0																	
	FELT MURCHISON (80) MM IV																			
DEC 26	H M S	00 38 25.0	41.83S	171.98E	12 KM	SE	1.0													
		+ 0.3	0.02	0.02	R					AVG MAG	65/ 878									
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S										
KAI	P*	00 39 40.8	0.7	0.82	211															
	S*	50.3	-0.9																	
	SG	51.2	-1.6																	
COB	IP*	00 38 41.6	0	0.93	38															
	S*	54	-0.7																	
GPZ	E	00 38 58		1.93	165															
	SN	39 20	-0.6																	
	SG	30	-0.3																	
WEL	EPN	00 39 01.5	1.4	2.16	76															
	P*	05	1.9																	
	S*	31.5	-0.2																	
HJZ	PN	00 39 03.6	-0.2	2.43	207															
	P*	09.5	1.8																	
	SN	33.5	0.9																	

## LOCAL EARTHQUAKES

	S*	40	0.3																	
	PG	15	0.8																	
MNG	PN	00 39 10.6	0.2	2.91	67															
	P*	15	-0.9																	
	EPG	24	0.2																	
	S*	53	-1.0																	
MSZ	PN	00 39 26.6	-0.5	4.11	225															
	SN	40 12.6	-0.7																	
	FELT WESTPORT (79)																			
DEC 26	H M S	01 43 52.3	41.44S	172.99E	112 KM	SE	1.0													
		+ 0.5	0.04	0.04	R					AVG MAG	68/ 879									
			H 4 S	DIR	RES	DIST	AZ	W-A	W P	W S										
COB	IP*	01 44 09.5	0.5	0.40	331															
WEL	P	01 44 19.2	1.2	1.35	84															
	E	22	0.7																	
	S	38	0.7																	
	S	43.5																		
KAI	S	01 44 42.5	-0.0	1.60	227															
MNG	P	01 44 26.9	0.4	2.05	67															
	E	32																		
	S	51.5	-0.8																	
	E	59																		
GPZ	S	01 44 56	-1.3	2.27	186															
	E	45 05																		
HJZ	EP	01 44 41.5	0.1	3.15	215															
	E	46																		
	S	45 18.5	-0.0																	
KRP	P	01 44 53.5	0	4.02	30															
	S	23	-1.6																	
MSZ	P	01 45 06.5	1.1	4.92	227															
	S	45 01	-0.6																	
DEC 26	H M S	06 37 03.4	39.47S	177.17E	12 KM	SE	2.5													
		+ 1.5	0.07	0.10	R					AVG MAG	68/ 880									
			H 4 S	DIR	RES	DIST	A													



DEC 26	H	M	S	41.96S 171.94E		12 KM	SE 1.3	68/ 832			
				0.04 0.04				AVG MAG 3.8			
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
MJZ	SN	07	23	40	-3.1	5.03	48		4.0	3.8	
	EPN			50	-2.2						
	P*			50	-5.4*						
COB	SN	07	29	38	-0.7						
	S*			30 03.5	2.5						
	EPN	07	29	26	-0.1	8.32	43				
MNG	ESN			30 55	-2.2						
	EPN	07	29	49	0.3	10.03	51				
DEC 26	H	M	S	41.96S 171.94E		12 KM	SE 1.3	68/ 832			
			06.3		0.04 0.04				AVG MAG 3.8		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
KAI	P*	08	10	18.5	0.0	0.65	210		3.6		
	PG			19.5	-0.1						
	S*			26.7	-0.7						
COB	P*	08	10	25.6	-0.6	1.10	38				
	S*			41	-0.0						
GPZ	EPN	08	10	37.5	0.6	1.83	161		3.6		
	P*			40	1.3						
HIJZ	SN	08	10	58	-1.5						
	PN	08	10	43	0.3	2.26	206		3.6	3.5	
	PG			50	-2.1						
WEL	SN	11	11	5	1.7						
	P*	08	10	47	0.4	2.29	74		3.7	4.1 4.1	
	S*			11 19	2.1						
MNG	EPN	08	10	54.5	1.0	3.05	65		4.0	3.7	
	P*			11 00.8	1.2						
	S*			38	-1.7						
	SG			47.5	-1.7						
FELT WESTPORT (79) M M 11											
DEC 26	H	M	S	34.37S 178.62E		199 KM	SE 1.1	68/ 841			
			21.4		0.29 0.52				AVG MAG 4.3		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	EP	08	43	16	0.7	3.32	181		4.6	4.4	
	ES			57	-0.0						
GNZ	P	08	43	28	0.5	4.30	186		4.5	4.4	
	ES			49 18	-0.6						
KRP	E	08	43	34		4.34	214				
	ES	08	49	25	-0.2	4.59	194				
MNG	EP	08	43	57.5	-1.2	6.72	201				
	S			50 15.5	0.9						
DEC 26	H	M	S	37.30S 177.99E		234 KM	SE 0.3	68/ 834			
			51.2		0.11 0.16				AVG MAG 4.2		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	EP	11	24	23	0.3	0.59	132		4.2	4.1	
	ES			47	-0.2						
GNZ	P	11	24	26.8	-0.3	1.34	179		4.0	3.8	
	ES			55	0.2						
MNG	EP	11	24	53	-0.0	3.85	210			3.1	
	ES			25 41	0.0						
DEC 26	H	M	S	35.29S 177.36E		33 KM	SE 2.1	68/ 835			
			54.7		0.15 0.21				AVG MAG 4.1		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	ES	11	53	01	-1.7	2.58	159		4.1		
	P	11	52	44.8	0.4	3.39	171		4.5	4.4	
TUA	S			53 22	-0.4					4.3	
	P	11	52	48	1.9	3.51	183				
MNG	ES			53 28	2.5						
	P	11	53	12.8	-0.6	5.52	195		3.8	3.5	
	S			54 12	-2.1						

DEC 26	H	M	S	41.82S 172.11E		12 KM	SE 1.3	68/ 836			
				0.02 0.03				AVG MAG 3.7			
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
COB	P*	12	59	03.6	0.0	12 59	18.2		-1.3	0.87 33	
	S*			0.4	0.03		29.5		-1.7		
	EPG	12	59	22.5	1.0	0.88	216		3.7		
KAI	S*			31	-0.7						
	SG			32.3	-1.2						
	EPG	12	59	42	-0.4	1.92	168		3.5		
GPZ	S*	13	00	01.5	-1.4						
	SG			07	-1.3						
	P*	12	59	41.5	1.6	2.06	76		3.6	3.8 3.9	
WEL	S*	13	00	09	1.8						
	PN	12	59	43.5	0.5	2.48	209		3.6	3.4	
	SN	13	00	13.7	1.2						
MNG	S*			21.6	1.7						
	SG			28	0.6						
	EPN	12	59	48	0.4	2.81	66		4.0	3.5	
MSZ	P*			54	1.3						
	PG	13	00	01	0.6						
	S*			28	-1.6						
FELT MURCHISON (60) M M 1V	PN	13	00	06	-0.2	4.19	226		3.6	3.7	
	SN			53	-0.8						
	S			53	-0.8						
DEC 26	H	M	S	38.15S 176.42E		145 KM	SE 0.5	68/ 837			
			40.6		0.02 0.01				AVG MAG 4.0		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
KRP	P	14	55	03.5	0.5	0.73	288				
	S			20	-0.2						
TUA	P	14	55	04	0.1	0.87	139		4.0	4.0	
	S			22	0.1						
GNZ	P	14	55	09.3	0.7	1.35	112		4.3	4.2	
	S			30	0.1						
ECZ	P	14	55	12.4	-0.4	1.75	75		4.4	4.0	
	ES			37	-0.5						
MNG	P	14	55	23	0.1	2.56	196		3.3	3.4	
	S			55	-0.2						
COB	ES	14	57	30	-0.3	4.08	223				
	S			55	-0.2						
DEC 26	H	M	S	35.25S 177.38E		33 KM	SE 1.7	68/ 838			
			20.8		0.14 0.16				AVG MAG 3.9		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	E	15	05	06.5	0.5	2.62	159			4.1	
	ES			28	-1.7						
GNZ	P	15	05	12.5	1.4	3.43	172		4.0	4.2	
	S			50	0.5						
TUA	ES	15	05	54	1.3	3.56	183				
	EP	15	05	40	-0.1	5.57	195			3.2	
MNG	S			05 40	-1.3						
	S			05 40	-1.3						
DEC 26	H	M	S	47.48S 164.97E		33 KM	SE 1.3	68/ 839			
			27.0		0.07 0.08				AVG MAG 4.6		
	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	EIPN	16	54	04.5	0.1	2.50	48		4.9	4.7	
	SN			34	1.1						
WPZ	PN	16	54	09.3	1.0	2.78	74		4.8	4.6	
	SN			40	0.2						
MSZ	PN	16	54	19	1.0	3.48	37		4.6	4.5	
	E			26							
	E			34.5							
	S*			55 14	0.6						

	E		23																			
ROX	PN	16	54	19	-0.8	3.61	58															
	P*			30	-0.1															4.7	4.5	
	SN			59	-1.2																	
	SG			53	23																	
HJZ	PN	16	54	39	-2.3	5.20	50														4.2	4.0
	E			49																		
	E			55	01																	
	SN			37	-1.6																	
	E			55	02																	
GPZ	E	16	55	10		6.58	58															
	E			56	20																	
	E			56	20																	
KAI	E	16	55	20		6.73	45															
COB	PN	16	55	25	-0.3	8.47	44															
	ESN			55	56	-1.1																
MNG	EPN	16	55	50	1.7	10.21	52															
	ESN			57	40	1.8																
DEC 26	H M S	18	02	25.3	47.48S	164.95E	33 KM	SE	1.9													
				+/- 2.2	0.10	0.13	R															
	H M S	18	03	03																		
	H M S	18	03	08																		
	H M S	18	03	18.5																		
	H M S	18	03	37																		
	H M S	18	03	35																		
DEC 26	H M S	21	20	51.5	45.33S	167.58E	12 KM	SE	2.0													
				+/- 1.4	0.05	0.09	R															
	H M S	21	20	58.5																		
	H M S	21	21	15																		
	H M S	21	21	18																		
	H M S	21	21	29																		
	H M S	21	21	35																		
	H M S	21	23	03																		
	H M S	21	22	15																		
	H M S	23	20																			
	NO TIMING ON MSZ 9 SEC S-P																					
DEC 26	H M S	23	00	48.4	41.95S	171.81E	12 KM	SE	1.2													
				+/- 0.5	0.03	0.04	R															
	H M S	23	01	00.4																		
	H M S	23	01	08.1																		
	H M S	23	01	23																		
	H M S	23	01	25.5																		

	H M S	23	01	38.5	38.63S	176.10E	137 KM	SE	1.5													
				+/- 1.0	0.03	0.04	R															
	H M S	05	18	59.9																		
	H M S	05	19	21.1																		
	H M S	05	19	23																		
	H M S	05	19	29																		
	H M S	05	19	29.4																		
	H M S	05	19	35.5																		
	H M S	05	19	36																		
	H M S	05	19	44.5																		
	H M S	05	19	57																		
	H M S	09	45	36.9	37.77S	176.27E	221 KM	SE	0.6													
				+/- 0.7	0.03	0.02	R															
	H M S	09	46	06.7																		
	H M S	09	46	10.5																		
	H M S	09	46	13.6																		
	H M S	09	46	45																		
	H M S	09	46	26.8																		
	H M S	09	47	05																		
	H M S	09	47	23																		
	H M S	09	47	36																		
DEC 28	H M S	01	06	33.8	38.82S	176.14E	120 KM	SE	1.1													
				+/- 1.1	0.05	0.05	R															
	H M S	01	06	55																		
	H M S	01	06	56.2																		
	H M S	01	07	02																		
	H M S	01	07	06.6																		
	H M S	01	07	44																		
	H M S	01	08	07																		
DEC 28	H M S	04	05	52.2	39.30S	174.82E	222 KM	SE	1.5													
				+/- 1.0	0.05	0.06	R															
	H M S	04	05	22.5																		
	H M S	04	05	29.6																		
	H M S	04	05	28																		
	H M S	04	05	33																		

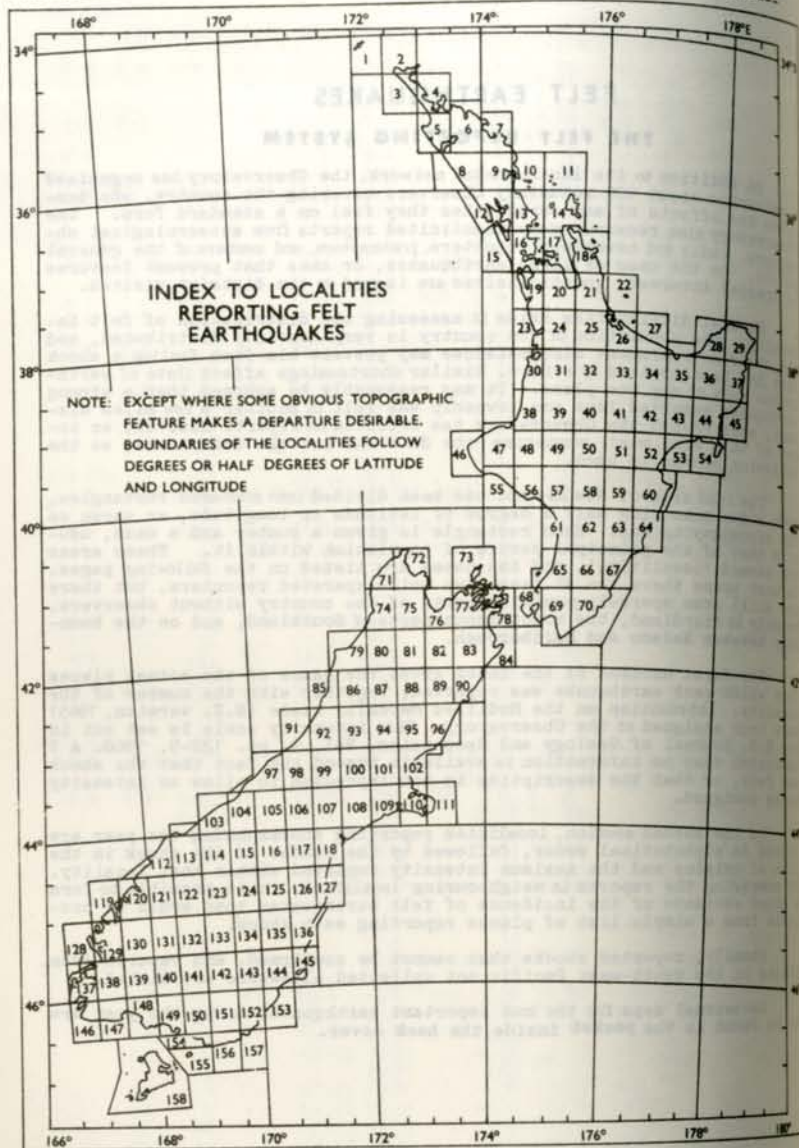


		H	M	S												
	S	07	01													
WEL	P	04	05	34.5	1.9	1.98	181	4.4	4.1	4.4						
	S	07	04		0.3											
COB	P	04	05	37.3	0.6	2.39	221			3.8	4.3					
	S	07	11		-0.1											
GNZ	P	04	05	39	0.2	2.58	76			4.5	4.4					
	S	07	13		-1.9											
GPZ	S	04	07	57	-2.5	4.68	200	4.7								
MJZ	EP	04	07	17	0.3	5.70	213									
	ES	08	21		-1.5											
DEC 28	H M S	07	43	35.1	41.75S	172.05E	12 KM	SE	1.6	AVG MAG	68/ 837					
					0.02	0.03	R				4.1					
	H M S	07	43	50.5	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S				
COB	IP*	07	43	50.5			-0.2	0.85	38							
KAI	P*	07	43	51.3			-0.3	0.90	212	3.9						
	PG			52.5			-1.0									
	S*			44 03			-0.9									
	SG			05			-0.7									
GPZ	P*	07	44	11			0.8	1.99	167	3.7						
	PG			14			-1.3									
	SN			31			-0.9									
	S*			35			-1.4									
	SG			41			-1.1									
WEL	P*	07	44	12.7			0.6	2.10	78	4.0	4.2	4.4				
	S*			42			2.2									
	SG			50.6			4.8*									
MJZ	EPN	07	44	15.5			0.4	2.51	207	4.0	3.9					
	P*			20			0.8									
	PG			25.5			-0.5									
	SN			47			1.8									
	SG			45 00			0.2									
MNG	PN	07	44	20.6			1.1	2.83	67	4.4	4.1					
	P*			24.8			0.2									
	PG			32			-0.4									
	SN			35			-2.1									
	S*			45 01			-0.8									
	ESG			11			0.4									
TNZ	EPN	07	44	25			1.7	3.12	35	4.4	4.2					
	P*			29			-0.7									
	PG			34			-4.3*									
	S*			45 11			0.3									
	SG			18.5			-2.0									
	E			31												
KRP	PN	07	44	45.4			1.1	4.68	36							
	SN			45 40			2.9									
	S*			57			-0.3									
	PG			06			-3.7									
	SG			46 09.3			-3.4									
MNH	E	07	44	53			2.7	5.14	217	4.1	3.8					
	SN			45 51												
FELT PAENGA (80)																
DEC 28	H M S	12	02	44.1	38.44S	175.75E	169 KM	SE	1.0	AVG MAG	68/ 818					
					0.04	0.03	8				4.0					
	H M S	12	03	07.7	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S				
KRP	IP	12	03	07.7			-0.3	0.54	342		3.7					
	S			26			-0.4									
TUA	P	12	03	12			-0.2	1.15	109	4.1	4.3					
	S			34			0.2									
TNZ	P	12	03	15.5			1.9	1.31	235							
GNZ	P	12	03	18.0			-0.5	1.79	97	4.1	4.1					
	ES			45			0.1									
MNG	IP	12	03	23.1			0.2	2.19	185	4.2	3.7					
	S			53			0.2									

	COB	ES	12	04	21					-1.2	3.52	220				3.8
	H M S															
DEC 28	23	45	12.0	36.82S	177.38E	282 KM	SE	2.3	AVG MAG	68/ 899						
				0.24	0.32	27					4.3					
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S								
ECZ	E			23 43 52				1.02	149							4.4
	ES			45 20				-1.0								
GNZ	P			23 43 56				-0.0	1.83	177					4.4	4.6
	E			45 32												
TUA	S			23 45 36				2.2	2.07	196						4.5
KRP	P			23 45 58.5				-0.4	2.17	239						
MNG	P			23 45 21.5				1.1	4.23	206					3.7	4.2
	S			47 12				-1.8								
DEC 29	H M S															
	H M S															
DEC 29	21	01	44.8	37.85S	177.52E	33 KM	SE	1.2	AVG MAG	68/ 900						
				0.05	0.04	33					3.9					
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S								
ECZ	P			21 02 00.5				1.1	0.82	80					3.9	3.7
	E			16												
GNZ	IP			21 01 58.9				-1.4	0.89	154					4.0	3.9
	S			02 11				-0.7								
TUA	P			21 02 02				0.1	1.00	197					4.0	4.0
	S			16				1.5								
KRP	EP			21 02 09.5				-0.2	1.57	267						
	ES			28				-0.4								
DEC 30	H M S															
	H M S															
DEC 30	04	05	28.8	38.03S	176.61E	159 KM	SE	0.8	AVG MAG	68/ 901						
				0.04	0.03	6					4.1					
	H 1 S	DIR	RES	DIST	AZ	W-A	W P	W S								
KRP	P			04 05 54.5				1.0	0.86	278					3.8	
	S			05 12				-0.5								
TUA	P			04 05 54				0.5	0.86	151					4.4	4.4
	S			05 13				0.4								
GNZ	P			04 05 57.5				0.6	1.25	118					4.2	4.3
	S			05 19				0.5								
ECZ	EP			04 05 00				-0.1	1.57	77						4.4
	ES			23				-1.1								
MNG	P			04 05 13.2				-0.3	2.71	199					3.9	3.8
	S			47												

Year	Month	Day	Time	Locality	Intensity	Duration	Direction	Remarks
1968	1	1	10:15	Wellington	III	10	SW	...
1968	1	2	11:30	Christchurch	II	15	W	...
1968	1	3	14:45	Dunedin	I	20	SE	...
1968	1	4	18:00	Hamilton	II	12	N	...
1968	1	5	21:15	Palmerston North	III	8	SW	...
1968	1	6	00:30	Wellington	II	10	W	...
1968	1	7	03:45	Christchurch	I	15	SE	...
1968	1	8	07:00	Dunedin	II	12	N	...
1968	1	9	10:15	Hamilton	III	10	SW	...
1968	1	10	13:30	Palmerston North	II	15	W	...
1968	1	11	16:45	Wellington	I	20	SE	...
1968	1	12	20:00	Christchurch	II	12	N	...
1968	1	13	23:15	Dunedin	III	8	SW	...
1968	1	14	01:30	Hamilton	II	10	W	...
1968	1	15	04:45	Palmerston North	I	15	SE	...
1968	1	16	08:00	Wellington	II	12	N	...
1968	1	17	11:15	Christchurch	III	10	SW	...
1968	1	18	14:30	Dunedin	II	15	W	...
1968	1	19	17:45	Hamilton	I	20	SE	...
1968	1	20	21:00	Palmerston North	II	12	N	...
1968	1	21	24:15	Wellington	III	8	SW	...
1968	1	22	00:30	Christchurch	II	10	W	...
1968	1	23	03:45	Dunedin	I	15	SE	...
1968	1	24	07:00	Hamilton	II	12	N	...
1968	1	25	10:15	Palmerston North	III	10	SW	...
1968	1	26	13:30	Wellington	II	15	W	...
1968	1	27	16:45	Christchurch	I	20	SE	...
1968	1	28	20:00	Dunedin	II	12	N	...
1968	1	29	23:15	Hamilton	III	8	SW	...
1968	1	30	01:30	Palmerston North	II	10	W	...
1968	2	1	04:45	Wellington	I	15	SE	...
1968	2	2	08:00	Christchurch	II	12	N	...
1968	2	3	11:15	Dunedin	III	10	SW	...
1968	2	4	14:30	Hamilton	II	15	W	...
1968	2	5	17:45	Palmerston North	I	20	SE	...
1968	2	6	21:00	Wellington	II	12	N	...
1968	2	7	24:15	Christchurch	III	8	SW	...
1968	2	8	00:30	Dunedin	II	10	W	...
1968	2	9	03:45	Hamilton	I	15	SE	...
1968	2	10	07:00	Palmerston North	II	12	N	...
1968	2	11	10:15	Wellington	III	10	SW	...
1968	2	12	13:30	Christchurch	II	15	W	...
1968	2	13	16:45	Dunedin	I	20	SE	...
1968	2	14	20:00	Hamilton	II	12	N	...
1968	2	15	23:15	Palmerston North	III	8	SW	...
1968	2	16	01:30	Wellington	II	10	W	...
1968	2	17	04:45	Christchurch	I	15	SE	...
1968	2	18	08:00	Dunedin	II	12	N	...
1968	2	19	11:15	Hamilton	III	10	SW	...
1968	2	20	14:30	Palmerston North	II	15	W	...
1968	2	21	17:45	Wellington	I	20	SE	...
1968	2	22	21:00	Christchurch	II	12	N	...
1968	2	23	24:15	Dunedin	III	8	SW	...
1968	2	24	00:30	Hamilton	II	10	W	...
1968	2	25	03:45	Palmerston North	I	15	SE	...
1968	2	26	07:00	Wellington	II	12	N	...
1968	2	27	10:15	Christchurch	III	10	SW	...
1968	2	28	13:30	Dunedin	II	15	W	...
1968	2	29	16:45	Hamilton	I	20	SE	...
1968	2	30	20:00	Palmerston North	II	12	N	...
1968	3	1	23:15	Wellington	III	8	SW	...
1968	3	2	01:30	Christchurch	II	10	W	...
1968	3	3	04:45	Dunedin	I	15	SE	...
1968	3	4	08:00	Hamilton	II	12	N	...
1968	3	5	11:15	Palmerston North	III	10	SW	...
1968	3	6	14:30	Wellington	II	15	W	...
1968	3	7	17:45	Christchurch	I	20	SE	...
1968	3	8	21:00	Dunedin	II	12	N	...
1968	3	9	24:15	Hamilton	III	8	SW	...
1968	3	10	00:30	Palmerston North	II	10	W	...
1968	3	11	03:45	Wellington	I	15	SE	...
1968	3	12	07:00	Christchurch	II	12	N	...
1968	3	13	10:15	Dunedin	III	10	SW	...
1968	3	14	13:30	Hamilton	II	15	W	...
1968	3	15	16:45	Palmerston North	I	20	SE	...
1968	3	16	20:00	Wellington	II	12	N	...
1968	3	17	23:15	Christchurch	III	8	SW	...
1968	3	18	01:30	Dunedin	II	10	W	...
1968	3	19	04:45	Hamilton	I	15	SE	...
1968	3	20	08:00	Palmerston North	II	12	N	...
1968	3	21	11:15	Wellington	III	10	SW	...
1968	3	22	14:30	Christchurch	II	15	W	...
1968	3	23	17:45	Dunedin	I	20	SE	...
1968	3	24	21:00	Hamilton	II	12	N	...
1968	3	25	24:15	Palmerston North	III	8	SW	...
1968	3	26	00:30	Wellington	II	10	W	...
1968	3	27	03:45	Christchurch	I	15	SE	...
1968	3	28	07:00	Dunedin	II	12	N	...
1968	3	29	10:15	Hamilton	III	10	SW	...
1968	3	30	13:30	Palmerston North	II	15	W	...
1968	4	1	16:45	Wellington	I	20	SE	...
1968	4	2	20:00	Christchurch	II	12	N	...
1968	4	3	23:15	Dunedin	III	8	SW	...
1968	4	4	01:30	Hamilton	II	10	W	...
1968	4	5	04:45	Palmerston North	I	15	SE	...
1968	4	6	08:00	Wellington	II	12	N	...
1968	4	7	11:15	Christchurch	III	10	SW	...
1968	4	8	14:30	Dunedin	II	15	W	...
1968	4	9	17:45	Hamilton	I	20	SE	...
1968	4	10	21:00	Palmerston North	II	12	N	...
1968	4	11	24:15	Wellington	III	8	SW	...
1968	4	12	00:30	Christchurch	II	10	W	...
1968	4	13	03:45	Dunedin	I	15	SE	...
1968	4	14	07:00	Hamilton	II	12	N	...
1968	4	15	10:15	Palmerston North	III	10	SW	...
1968	4	16	13:30	Wellington	II	15	W	...
1968	4	17	16:45	Christchurch	I	20	SE	...
1968	4	18	20:00	Dunedin	II	12	N	...
1968	4	19	23:15	Hamilton	III	8	SW	...
1968	4	20	01:30	Palmerston North	II	10	W	...
1968	4	21	04:45	Wellington	I	15	SE	...
1968	4	22	08:00	Christchurch	II	12	N	...
1968	4	23	11:15	Dunedin	III	10	SW	...
1968	4	24	14:30	Hamilton	II	15	W	...
1968	4	25	17:45	Palmerston North	I	20	SE	...
1968	4	26	21:00	Wellington	II	12	N	...
1968	4	27	24:15	Christchurch	III	8	SW	...
1968	4	28	00:30	Dunedin	II	10	W	...
1968	4	29	03:45	Hamilton	I	15	SE	...
1968	4	30	07:00	Palmerston North	II	12	N	...
1968	5	1	10:15	Wellington	III	10	SW	...
1968	5	2	13:30	Christchurch	II	15	W	...
1968	5	3	16:45	Dunedin	I	20	SE	...
1968	5	4	20:00	Hamilton	II	12	N	...
1968	5	5	23:15	Palmerston North	III	8	SW	...
1968	5	6	01:30	Wellington	II	10	W	...
1968	5	7	04:45	Christchurch	I	15	SE	...
1968	5	8	08:00	Dunedin	II	12	N	...
1968	5	9	11:15	Hamilton	III	10	SW	...
1968	5	10	14:30	Palmerston North	II	15	W	...
1968	5	11	17:45	Wellington	I	20	SE	...
1968	5	12	21:00	Christchurch	II	12	N	...
1968	5	13	24:15	Dunedin	III	8	SW	...
1968	5	14	00:30	Hamilton	II	10	W	...
1968	5	15	03:45	Palmerston North	I	15	SE	...
1968	5	16	07:00	Wellington	II	12	N	...
1968	5	17	10:15	Christchurch	III	10	SW	...
1968	5	18	13:30	Dunedin	II	15	W	...
1968	5	19	16:45	Hamilton	I	20	SE	...
1968	5	20	20:00	Palmerston North	II	12	N	...
1968	5	21	23:15	Wellington	III	8	SW	...
1968	5	22	01:30	Christchurch	II	10	W	...
1968	5	23	04:45	Dunedin	I	15	SE	...
1968	5	24	08:00	Hamilton	II	12	N	...
1968	5	25	11:15	Palmerston North	III	10	SW	...
1968	5	26	14:30	Wellington	II	15	W	...
1968	5	27	17:45	Christchurch	I	20	SE	...
1968	5	28	21:00	Dunedin	II	12	N	...
1968	5	29	24:15	Hamilton	III	8	SW	...
1968	5	30	00:30	Palmerston North	II	10	W	...
1968	6	1	03:45	Wellington	I	15	SE	...
1968	6	2	07:00	Christchurch	II	12	N	...
1968	6	3	10:15	Dunedin	III	10	SW	...
1968	6	4	13:30	Hamilton	II	15	W	...
1968	6	5	16:45	Palmerston North	I	20	SE	...
1968	6	6	20:00	Wellington	II	12		





## LIST OF REPORTING LOCALITIES

1	Three Kings	54	Mahia	107	Mt. Somers
2	Te Reinga	55	Hawera	108	Ashburton
3	Ninety Mile Beach	56	Waverley	109	Rakaia
4	Doubtless Bay	57	Wanganui	110	Christchurch
5	Kaitaia	58	Taihape	111	Akaroa
6	Kaikohe	59	Ruahine	112	Big Bay
7	Bay of Islands	60	Hastings	113	Jacksons Bay
8	Dargaville	61	Bulls	114	Makarora
9	Whangarei	62	Palmerston North	115	Lake Ohau
10	Bream Head	63	Dannevirke	116	Pukaki
11	Moko Hinau	64	Porangahau	117	Fairlie
12	Kaipara	65	Otaki	118	Timaru
13	Warkworth	66	Masterton	119	George Sound
14	Barrier Islands	67	Castlepoint	120	Milford
15	Helensville	68	Wellington	121	Glenorchy
16	Auckland	69	Featherston	122	Arrowtown
17	Waiheke	70	Martonborough	123	Wanaka
18	Coromandel	71	Mt. Stevens	124	St. Bathans
19	Pukekohe	72	Takaka	125	Kurow
20	Mercer	73	D'Urville Is.	126	Duntroon
21	Thames	74	Karamea	127	Waimate
22	Mayor Is.	75	Motueka	128	Secretary Is.
23	Baglan	76	Nelson	129	Doubtful Sound
24	Matamata	77	Blenheim	130	Te Anau
25	Tauranga	78	Picton	131	Livingstone Mts.
26	Whakatane	79	Westport	132	Kingston
27	Te Kaha	80	Murchison	133	Alexandra
28	East Cape	81	Glenhope	134	Poolburn
29	Kawhia	82	Wairau	135	Ranfurly
30	Te Kuiti	83	Awatere	136	Oamaru
31	Tokoroa	84	Cape Campbell	137	Resolution Is.
32	Rotorua	85	Greymouth	138	Pillans Pass
33	Murupara	86	Reefton	139	Monowai
34	Opotiki	87	Maruia	140	Mossburn
35	Motu	88	Hanmer	141	Waikais
36	Tolaga Bay	89	Clarence	142	Roxburgh
37	Mokau	90	Kaikoura	143	Lawrence
38	Taumarunui	91	Hokitika	144	Outram
39	Tokaanu	92	Kumara	145	Dunedin
40	Faupo	93	Arthur's Pass	146	Puysegur Pt.
41	Te Whaiti	94	Lake Sumner	147	Poteretere
42	Tuai	95	Culverden	148	Tuatapere
43	Whakapunaki	96	Cheviot	149	Invercargill
44	Gisborne	97	Franz Josef	150	Gore
45	Cape Egmont	98	Hari Hari	151	Clinton
46	New Plymouth	99	Whitcombe Pass	152	Balclutha
47	Whangamomona	100	Lake Coleridge	153	Waihola
48	Chakune	101	Oxford	154	Bluff
49	Chateau	102	Rangiora	155	Ruapeke
50	Kaweka	103	Haast	156	Tahakopa
51	Napier	104	Bruce Bay	157	Owaka
52	Wairoa	105	Mt. Cook	158	Stewart Is.
53		106	Tekapo	159	Chatham Is.

## PLACES REPORTING FELT EARTHQUAKES IN 1968

68/001	Jan	1d	20h 34m	Maungataniwha (42).
68/002	Jan	2d	08h 41m	MM4 Waimana (35).
68/007	Jan	8d	15h 37m	? Seddon (84).
68/010	Jan	9d	03h 27m	MM3 Wellington (68); ? Seddon (84).
68/013	Jan	10d	01h 48m	MM3 Patoka (52).
68/019	Jan	15d	03h 52m	? Maungataniwha (42).
68/020	Jan	15d	11h 03m	MM4 Lake Tekapo (105).
68/023	Jan	20d	21h 21m	MM3 Ngakaroa (44).
68/027	Jan	24d	05h 15m	MM5 Allandale (110); MM4 Ross (91); Melrose (94); Peak Hill (99); Lake Coleridge (100); Ouruhia (102); Somerton (106); Dunsandel (109); Le Bon's Bay (111); Arowhenua, Timaru (118); MM3 Hakataramea (125); Otisake, Waihaorunga (126); "slight" Hokitika (91); Cloudy Peaks, Fairlie (117); ? Glenallen (95); Akaroa Head, Christchurch (110); Eastwood (111).
68/028	Jan	24d	06h 42m	MM4 Allandale (110).
68/034	Jan	29d	11h 09m	MM4 Waitaha (98).
68/036	Jan	30d	05h 38m	MM6 Turangi (40); MM5 Motucapa, Tokaanu, Turangi, Waitetoko (40); MM4 Taumarunui (39); MM3 Taupo (41); "sharp" Tongariro Prison Farm (40); ? Hinemaimai (41); Ngapuketurua (42); Wanganui (57).
68/037	Jan	30d	05h 42m	MM4 Tokaanu, Turangi (40); MM2 Tauhara Forest (41); "sharp" Tongariro Prison Farm (40).
68/038	Jan	30d	07h 14m	? Ngapuketurua (42).

## FELT EARTHQUAKES

68/040	Feb	2d	19h 01m	MM4 Kaingaroa Forest (34); Ngapuketurua (42); ? Rotomahana, Waiotapu (33).
68/042	Feb	3d	01h 27m	? Waiotapu (33).
68/043	Feb	3d	01h 54m	MM4 Kaingaroa Forest (34); ? Waiotapu (33); Ngapuketurua (42).
68/044	Feb	3d	20h 00m	? Rotomahana, Waiotapu (33).
68/045	Feb	4d	03h 35m	MM4 Wanganui (57); MM3 Waitotara (56).
68/047	Feb	4d	22h 08m	MM4 Te Kōpi (70).
68/048	Feb	6d	04h 29m	MM4 York Bay (68); MM3 Waiorongomai (69); MM2 Bunnythorpe (62); Dannevirke (63); Wellington (68).
68/050	Feb	11d	06h 15m	MM4 Gisborne (45).
68/051	Feb	11d	13h 27m	MM4 Wanganui (57); MM2 Motueka (76).
68/060	Feb	15d	17h 45m	MM2 Turangi (40).
68/062	Feb	16d	09h 31m	MM4 Napier (52); ? Taradale (60).
68/063	Feb	16d	09h 55m	MM4 Napier (52).
68/068	Feb	18d	15h 05m	MM4 Turangi (40).
68/069	Feb	19d	07h 49m	"moderate" Maungataniwha (42).
68/070	Feb	19d	10h 53m	MM4 Naenae (68); MM3 Lower Hutt (68); MM2 Lower Hutt (68).
68/071	Feb	20d	00h 38m	MM4 Culverden (95); MM3 Hammer Springs (95); Allandale (110).
68/074	Feb	21d	18h 23m	? Waiotapu (33).
68/075	Feb	21d	20h 47m	MM4 Uruti (38); Ohakune (57); MM2 Wanganui (57); ? Rotomahana (33).



68/076	Feb	22d	02h 01m	
		MM4		Pleasant Flat (103); Mahitahi (104); Wanaka (123); Queenstown (132);
		MM3		Haast (103);
		MM2		Manapouri (139); Mt Aspiring (113);
		"strong"		Haast (103); Queenstown (132);
		?		Milford Sound (120); Miller's Flat (142).
68/081	Feb	23d	22h 47m	
		?		Tokomaru Bay (37).
68/084	Feb	24d	04h 45m	
		MM4		Haast (103);
		?		Milford Sound (120).
68/087	Feb	24d	19h 01m	
		MM3		Waikawa Beach (65).
68/089	Feb	26d	05h 57m	
		?		Milford Sound (120).
68/102	Mar	3d	10h 35m	
		"sharp"		Wairakei (41).
68/111	Mar	5d	05h 00m	
		MM4		Tataramoa (63).
68/114	Mar	5d	22h 41m	
		MM3		Dannevirke.
68/115	Mar	6d	04h 37m	
		MM4		Manapouri (139).
68/116	Mar	8d	05h 20m	
		"slight"		Manapouri (139).
68/120	Mar	10d	07h 11m	
		?		Maungataniwha (42).
68/122	Mar	12d	13h 37m	
		MM4		Waitetoko (40); Ohakune (49); Waiwhare (51); Patoka (52); Ohakune (57); Hihitahi, Hunterville, Moawhango (58); Dannevirke (63); Wanganui (57);
		MM3		Waiouru (50);
		"sharp"		Maungataniwha (42).
		?		
68/130	Mar	17d	11h 22m	
		MM4		Ponatahi (70).
68/131	Mar	20d	09h 08m	
		MM4		Eketahuna (66); Kelburn, Titahi Bay, Wainuonata (68);
		MM3		Ohakune (57); Wairere (66); Karori, Miramar (68);
		"slight"		Mauriceville (66);
		?		Rongokokako (66).
68/132	Mar	20d	16h 26m	
		MM3		Ohakune (49).
68/134	Mar	21d	07h 11m	
		MM5		Ohakune (49); Waitotara (56); Hunterville (58); Opiki (61); Feilding, Komako (62); Dannevirke (63); Eketahuna (66);
		MM4		Patoka (52); Ohakune, Okoia, Wanganui (57); Pleasant Flat (58); Ashley Clinton (59); Mt. Vernon.

				MM3	Waipawa (60); Tataramoa (63); Wairere (66); Waiwhare (51); Waitahinga (56); Ovingdean (67); Ponatahi (70);
				"jolt"	Mangamutu (62);
				"sharp"	Waiouru (50);
				"moderate"	Mauriceville (66);
				"light"	Hokio Beach (65);
				?	Ohingaiti (61); Foxton (61); Feilding (62); Rotokai (64); Rongokokako (66).
68/135	Mar	23d	05h 33m		
		MM3			Uruti (38).
68/137	Mar	23d	22h 09m		
		MM5			Kotemaori (53);
		"jolt"			Maungataniwha (42).
68/140	Mar	28d	16h 34m		
		MM4			Lake Okataina (33);
		?			Rotorua (33).
68/143	Apr	1d	17h 39m		
		MM4			Mangles Valley, Six Mile (80).
68/146	Apr	2d	08h 12m		
		MM6			Glengarry Peak (129);
		MM5			Deep Cove (129); Te Anau (130); Kingston (132); West Arm (138); Manapouri (139); Otama (141); Heddon Bush (149);
		MM4			Mahitahi (104); Earnslaw Station, Lake McKenzie (121); Wanaka (123); Gibbston, Queenstown (132); Dunrobin Station, Eyre Creek, Nightcaps (140); Parawa (141); Gummie's Bush (149); Gore (150); Awarua Radio (154); Waimahaka (156); Hokitika (91); Mt. Aspiring Station (113);
		MM3			Arrowtown (122); Eastern Bush (139); Tuatapere (148); Gore (150);
		MM2			Jackson's Bay (113);
		"jolt"			Miller's Flat (142);
		?			Dunrobin Station (140); Puysegur Point (146); Invercargill (149).
68/147	Apr	2d	09h 45m		
		MM4			Te Anau (130).
68/149	Apr	2d	12d 04m		
		"light"			West Arm (138).
68/151	Apr	2d	15h 48m		
		"Not felt, but stopped pendulum clock"			Manapouri (139).
68/152	Apr	2d	17h 20m		
		"light"			West Arm (138).
68/153	Apr	2d	17h 53m		
		MM4			Glengarry Peaks (129); Te Anau (130);
		"loud bang"			Paenga (180).
68/154	Apr	2d	18h 01m		
		MM5			Deep Cove, Glengarry Peak (129); Te Anau (130); Manapouri (139);
		MM4			Lake McKenzie (121); Wanaka (123); Kingston (132); West Arm (138); Eastern Bush, Manapouri (139); Dunrobin Station, Eyre Creek (140); Athol (141);

		MM3	Mt. Aspiring Station (113); Queenstown (132); Nightcaps (140);
		MM2	Gore (150);
		?	Dunrobin Station (140); Puysegur Point (146).
68/155	Apr	2d	18h 51m
		MM4	Earnslaw (121); Te Anau (130).
68/163	Apr	4d	18h 25m
		MM3	Nancy Sound (129).
68/164	Apr	4d	23h 39m
		MM5	Takaka (72);
		MM4	Tarakohe (72).
68/168	Apr	7d	02h 34m
		MM4	Taupo (41).
68/170	Apr	7d	19h 45m
		MM3	Kelburn (68).
68/172	Apr	10d	19h 35m
		"moderate"	Mangataniwha (42).
68/174	Apr	14d	08h 02m
		MM4	Rotorua (33);
		?	Rotomahana (33).
68/177	Apr	15d	05h 19m
		MM4	Ohope Beach (35); Tokomaru Bay (37).
68/178	Apr	15d	15h 16m
		MM4	Ponatahi (70).
68/191	Apr	23d	17h 47m
		MM4	Taupo (41).
68/193	Apr	26d	10h 43m
		MM4	Manapouri (139); Awarua (154).
68/197	Apr	29d	19h 21m
		MM4	Eastern Bush (139);
		MM3	Tuatapere (148).
68/201	May	2d	10h 56m
		MM3	Wairakei (41).
68/203	May	3d	01h 31m
		MM4	Lower Hutt; York Bay (68);
		MM3	Wellington (68).
68/212	May	5d	09h 05m
		MM5	Uruti (38); Wanganui (57); Dannevirke (63);
		MM4	Dawson's Falls, Purangi, Tarata (47); Ohakune (49); Waiwhare (51); Patoka (52); Wairoa (53); Waitahinga (56); Okoia (57); Hunterville, Moa-whango (58); Hastings, Redcliffe (60); Tataramoa (63); Eketehuna (66); Khandallah, Lower Hutt, Miramar, York Bay (68); Manaroa, Ocean Bay (78); Gebbies Pass (110);
		MM3	Hawera (55); Ashley Clinton (59); Pa Valley (66); Ovingdean (67); Northland, Tawa, Titahi Bay (68); Mangles Valley (80); Ovingdean (110);
		MM2	Okuti (110);
		?	Oratonui (37); Makakahi (49); Lake Alice (51); Ohau, Tirohanga, Upper Hutt (65); Kowhaibank; Wallaceville (69).

				Press reports of a shock felt at Westport (79) and Grey-mouth (85) may refer to an unrelated event.
68/213	May	5d	09h 09m	
		MM4	Ngakoroa (44); Wairoa (53);	
		MM3	Waiwhare (51);	
		?	Waitahinga (56); Okoia (57).	
68/239	May	12d	15h 11m	
		MM3	Dannevirke (63);	
		?	Glebelands (64).	
68/242	May	15d	06h 57m	
		MM5	Gisborne (45);	
		MM4	Ngakoroa (44);	
		"slight"	Beckington (44).	
68/244	May	15d	11h 33m-	
		MM3	Waiteteko (40).	
68/255	May	20d	07h 35m	
		MM5	Uruti (38); Waitotara (56);	
		MM4	Ohakune (49); Taurewa (50); Taumarunui, Waitahinga (56); Ohakune, Okoia (57).	
		MM3	Tarata (47); Purangi (48); Hunterville, Moa-whango (58).	
68/258	May	20d	19h 08m	
		?	Jackson's Bay (113).	
68/261	May	21d	12h 26m	
		MM4	Wairoa (53).	
68/269	May	23d	17h 24m	
		MM11	Inangahua (79);	
		MM10	Berlins, Buller Railway Bridge, Inangahua, Westport (79);	
		MM9	Buller Gorge Road, Oweka, Te Kuha, Westport (79); Upper Buller (81); Blackball (85); Cronadun, Reefton (86);	
		MM8	Collingwood (72); Denniston, Garvey Creek, Ngakawau, Seddonville, Sergeant's Hill, Stockton, Waimanara, Westport (79); Murchison, Six Mile (80); Blackball, Cobden, Greymouth (85); Black's Point, Cronadun, Dauntless Mine, Nelson Creek, Reefton, Slaty Creek (86); Ross (91); Kanieri (92);	
		MM7	Karama (74); Barrytown, Blaketown, Cape Foulwind, Charlestown, Cobden, Dunollie, Granity, Greymouth, Hector, Millerton, Ngahere, Ngakawau, Punakaiki, Runanga, Taylorville (85); Ahaura, Ikamatua, Reefton (86); Burnbrae, Lewis Pass, Springs Junction, Upper Matakita (87); Hokitika (91); Kowhitirangi, Kumara (92);	
		MM6	Takaka (72); Riwaka Valley (75); Nelson (76); Mangles Valley, Six Mile (80); Blenheim (83); Blackball, Blaketown, Greymouth, Taylorville (85); Reefton, Waitahu (86); Hokitika (91); Kumara, Taipo (92); Arthur's Pass, Upper Hawden River (93); Melrose (94); Hammer Springs, Poplars (95); Lake Coleridge, Mr. Cheeseman (100); Pleasant Flat (103); Christchurch (110);	
		MM5	Bayly's Coast, Dargaville (8); Uruti (38); Dawson's Falls, Eltham, Mangorei, New Plymouth, Stratford, Tarata (47); Omoana, Purangi (48); Ohakune (49); Hawera (55); Ohau, Waitahinga,	



				Waitotara, Wanganui, Waverley (56); Glennloch, Palmerston North (62); Wairere (66); Kelburn, Lower Hutt, Wellington (68); Paturau River (71); Farewell Spit, Takaka (72); Tadmor, Wanganui (75); Brightlands, Harakeke, Nelson, Wangapeka (76); Manaroa, Marshlands (78); Mangies Airport, Paenga (80); Rotoiti, St. Arnaud (81); Lonsdale, Wairau Valley, Wye Hills (82); Seddon (84); Rapahoe, Taylorville (85); Burnbrae, Marua Springs (87); Flax Hills, Molesworth (89); Kaikoura (90); Inchbonnie (92); Arthur's Pass, Otira (93); Culverden, Glenwye, Waikari (95); Cheviot, Lowry Hills, Robinson (96); Franz Josef, Whataroa (97); Erewhon (98); Peak Hill (99); Cass (100); Mohitahi (104); Mesopotamia (106); Ashburton (108); Dunsandel (109); Allandale, Christchurch, Okuti Valley (110); Le Bon's Bay (111); Lynford, Timaru (118); Matakanui (134); Mt. Nimrod (136);
MM4				Mangawhare (8); Te Mata (25); Ngaruawahia, Tukikaramea (24); Otorahanga, Te Kuiti (31); Hautu (39); Warea (46); Eltham (47); Taurewa (50); Napier, Tarapouai (52); Wanganui (56); Ohakune, Okoia (57); Moawhango, Table Flat (58); Waipukurau (60); Dannevirke (63); Paraparumu, Tirohanga (65); Eketahuna, Masterton, Te Ore Ore (66); Kelburn, Kilbirnie, Lower Hutt, Miramar, Upper Hutt (68); Waiorongomai (69); Hikawera, Ponatahi (70); Stephens Island (73); Maitai Valley, Motueka (76); Grovetown, Linkwater (77); Ocean Bay (78); Birch Hill (82); Kaikoura (90); Mason's Flat, Motunau (95); Lake Coleridge (100); Christchurch, North Loburn (102); Haast (103); Hermitage (105); Tekapo (106); Somerton (108); Christchurch (110); Akaroa (111); Jackson's Bay (113); Lake Tekapo (116); Albury, Hakataramea Downs (117); Kerrytown (118); Otematata, Otiako (125); Otekaike, Waihoarunga (126); Waimate (127); Queenstown (132); Oamaru (136); Manapouri (139); Dunedin (145);
MM3				Ruawai (12); Auckland (16); Te Kuiti (31); Wairoa (53); Redclyffe (60); Feilding (62); Rotokai (64); Karori (68); Blenheim (83); Mt. Aspiring Station (113); Minaret Bay (114); Momona (144); Invercargill (149);
?				Whangarei (9); Oratia (16); Marea (46); Eltham, Mountain House, New Plymouth, Waitara (47); Whangamomona (48); Makakahi (49); Lake Alice, Ohahea (61); Feilding (62); Glebelands (64); Kelburn, Rongotai (68); Stephens Island (73); Brightwater, Moutere (76); Koromiko (77); Ugbrooke (84); Kaikoura (90); Hokitika (91); Kanieri (92); Boyle River, Melrose (94); Island Hills, Woodford (95); Hawkswood, Port Robinson (96); Fox Glacier, Franz Josef Glacier (97); Glenariffe (99); Lake Coleridge (100); Haast (103); Godley Peaks (106); Valetta (108); Allandale, Christchurch (110); Benmore (115); Ranfurly (135); Manapouri (139).
68/270	May	23d	17h 33m	Rotoiti (81); Arthur's Pass (93); Allandale (110);
		MM4		Farewell Spit (72);
		"slight"		Waiorongomai (69); Takaka, Tarakohe (72); Ocean Bay (78); Kaikoura (90); Taipo (92).

68/271	May	23d	17h 43m	Molesworth (89); Arthur's Pass (93); Island Hills (95).
		MM4		
		"slight"		
68/272	May	23d	17h 45m	Moawhango (58); Harakeke (76); Nelson Airport (76); Kaikoura (90); Taipo (92).
		MM3		
		?		
68/273	May	23d	17h 50m	Arthur's Pass (93); Nelson Airport (76); Ocean Bay (78); Kaikoura (90).
		MM4		
		MM2		
		?		
68/275	May	23d	18h 24m	Allandale (110); Motueka (76); Wye Hills (82); Taipo (92); Glynnwye (95).
		MM4		
		MM3		
		?		
68/278	May	23d	18h 44m	Farewell Spit (72); Takaka (72); Nelson Airport (76); Barrytown (85); Taipo (92).
		"slight"		
		?		
68/280	May	23d	18h 55m	Takaka (72); Maitai Valley (76); Ross (91).
		?		
68/292	May	23d	20h 20m	Harakeke (76); Collingwood (72).
		MM3		
		?		
68/295	May	23d	21h 09m	Harakeke (76); Wellington (68); Takaka, Tarakohe (72); Riwaka Valley (75); Nelson Airport (76).
		MM4		
		MM3		
		?		
68/304	May	23d	23h 03m	Takaka (72).
		?		
68/305	May	23d	23h 13m	Takaka (72).
		?		
68/308	May	24d	00h 25m	Westport (79).
		"sharp"		
68/318	May	24d	03h 30m	Westport (79).
		?		
68/320	May	24d	04h 04m	The following reports, for which either no time or only "afternoon" is stated can plausibly be associated with this earthquake: Mai Mai Valley (86); Poplars (95); Valetta (108); Riverton (149).
		?		
68/329	May	24d	10h 24m	Molesworth (89).
		MM3		
68/337	May	24d	17h 40m	Takaka (72); Harakeke (76); Molesworth (89); Kaikoura (90); Hokitika, Ross (91); Culverden (95); Pleasant Flat (103); Allandale (110); Glynnwye (95); Westport (79); Springs Junction (87); Franz Josef (97); Hermitage (105).
		MM4		
		"strong"		
		"sharp"		
		?		

68/339	May	24d	20h 57m	
		MM5		Kelburn (68); Harakeke (76); Ross (91); Allandale (110);
		MM4		Uruti (38); Manaroa (78); Kaikoura (90); Hawarden (94); Mason's Flat (95); Okuti (110);
		MM3		Hawera (55); Wanganui (56); Brooklyn (68); Lake Coleridge (100);
		MM2		Motunau (95);
		"sharp"		Westport (79);
		gentle rock		Leatham (82);
		"tremor"		Gebbies Pass (110);
		"slight"		Kaikoura (90); Arthur's Pass (93); Lyttelton (110);
		?		Kelburn (68); Takaka (72); Cobb River (75); Nelson Airport (76); Koromiko, Linkwater, Woodbourne (77); Seddon (84); Blackball (85); Springs Junction (87); Melrose (94); Culverden, Glynwye, Hanmer, Poplars, Waikare, Woodford (95); Hawkswood (96); Glenariffe (99); Harewood (102).
68/341	May	24d	21h 37m	
		?		Cobb River (75).
68/342	May	24d	23h 51m	
		?		Westport (79); Hokitika (91); Hanmer (95).
68/343	May	25d	02h 10m	
		MM5		Ross (91);
		"severe"		Mt. Somers (107);
		?		Le Bon's Bay (111).
68/346	May	25d	11h 02m	
		MM4		Whakatane (27);
		?		Glebelands (64).
68/347	May	25d	11h 18m	
		MM5		Ross (91);
		MM4		Lake Coleridge (100).
68/349	May	25d	20h 58m	
		?		Westport (79).
68/352	May	25d	23h 49m	
		MM5		Ross (91);
		MM4		Molesworth (89); Culverden (95);
		?		Seddon (84).
68/353	May	26d	01h 10m	
		MM5		Waiwhare (51); Napier, Patoka, Tarapouai (52); Kotemaori (53); Redcliffe, Waipukurau (60); Waitetoko (40); Ohakune (57); Moawhango, Table Flat (58); Waipawa (60);
		MM4		Hunterville (58); Dannevirke (63);
		MM3		Napier (52);
		"sharp jolt"		Waitahora (63); Glebelands, Sherenden (64).
		?		
68/360	May	26d	14h 21m	
		MM4		Hunterville (58).
68/362	May	26d	23h 23m	
		?		Hokitika (91).
68/364	May	28d	15h 41m	
		?		Poplars (95).

68/365	May	28d	23h 23m	
		MM4		Westport (79).
68/366	May	28d	23h 26m	
		MM4		Westport (79).
68/369	May	29d	06h 09m	
		MM4		Harakeke (76); Blenheim (83);
		?		Springs Junction (87)
68/373	May	29d	11h 34m	
		MM4		Ross (91).
68/375	May	29d	20h 01m	
		?		Poplars (95).
68/378	May	30d	04h 24m	
		MM5		Motueka (75); Westport (79);
		MM4		Harakeke (76); Molesworth (89); Ross (91).
68/394	Jun	1d	12h 07m	
		MM5		Uruti (38); Omoana (48); Ohakune (49);
		MM4		Tapuwae (39); Tarata (47); Wanganui, Ohakune, Okoia (57);
		MM3		Wanganui (56).
68/395	Jun	1d	18h 51m	
		MM5		Uruti (38); Omoana (48);
		MM4		Tarata (47); Ohakune (57);
		"sharp"		Whangamomona (48);
		?		Ohakune (49).
68/398	Jun	2d	01h 01m	
		MM4		Patoka (52).
68/402	Jun	2d	11h 56m	
		MM4		Ross (91); Lake Coleridge (100);
		?		Cobb River (75); Westport (79); Hokitika (91).
68/403	Jun	2d	16h 48m	
		?		Westport (79).
68/410	Jun	5d	01h 15m	
		MM4		Wanaka (123); Cromwell (133); Matakanaui (134).
68/411	Jun	5d	12h 43m	
		MM5		Westport (79); Ross (91);
		MM4		Hanmer (88);
		MM3		Lake Coleridge (100);
		?		Hokitika (91).
68/412	Jun	5d	19h 50m	
		MM3		Taurewa (50).
68/413	Jun	6d	04h 01m	
		?		Hokitika (91).
68/415	Jun	6d	04h 58m	
		?		Westport (79).
68/421	Jun	8d	03h 02m	
		?		Hokitika (91).
68/424	Jun	8d	19h 45m	
		?		Westport (79).



68/424	Jun	9d MM4 MM3 ?	19h 06m Westport (79); Le Bon's Bay (111); Brightwater (76); Mangles Valley (80); Hokitika (91).
68/429	Jun	10d MM5 MM4	08h 36m Otira (93); Westport (79); Ross (91).
68/432	Jun	10d ?	22h 33m Westport (79).
68/433	Jun	11d "light tremor"	07h 07m Westport (79).
68/434	Jun	11d ?	17h 25m Seddon (84).
68/435	Jun	11d ?	18h 26m Seddon (84).
68/438	Jun	12d MM4	06h 29m Murchison (80).
68/439	Jun	12d MM4	07h 46m Murchison (80).
68/441	Jun	12d ?	11h 29m Glebelands (64).
68/443	Jun	13d "slight"	06h 21m Westport (79).
68/444	Jun	13d ?	09h 57m Glebelands (64).
68/445	Jun	13d MM4 "slight"	10h 41m Ngakaroa (44); Gisborne (45); Moanui (35).
68/447	Jun	14d MM4 ? Not Felt	18h 43m Westport (79); Murchison (80); Molesworth (89); Nelson (76); Hokitika (91); Motueka (76).
68/448	Jun	14d MM4 ? ?	19h 03m Takaka (72); Harakeke, Motueka (75); Ocean Bay (78); Westport (79); Murchison (80); Molesworth (89); Ross (91); Otira (93); Brightwater, Nelson (76); Hokitika (91).
68/449	Jun	14d MM4 ?	19h 09m Murchison (80); Brightwater (76).
68/451	Jun	15d MM4	05h 56m Murchison (80).
68/452	Jun	15d MM4	12h 10m Murchison (80).
68/453	Jun	15d MM4	14h 29m Molesworth (89).

68/454	Jun	16d MM5 MM4	05h 58m Ross (91); Westport (79); Murchison (80).
68/456	Jun	16d MM4	17h 25m Westport (79); Murchison (80); Molesworth (89).
68/457	Jun	17d ?	00h 01m Mangles Valley (80).
68/458	Jun	17d MM5 ?	16h 40m Wairere (66); Mauriceville (66).
68/459	Jun	17d ?	19h 36m Eastern Bush (139).
68/460	Jun	18d MM4 "moderate"	06h 41m Murchison (80); Westport (79).
68/461	Jun	18d MM4 ?	13h 56m Westport (79); Murchison (80); Hokitika (91).
68/462	Jun	18d ?	16h 38m Westport (79).
68/463	Jun	18d ?	17h 06m Westport (79).
68/464	Jun	18d MM5 MM4 MM3 "slight" ?	17h 30m Te Anau (130); Arrowtown (122); Wanaka (123); Deep Cove (129); Te Anau (130); West Arm (138); Manapouri, Eastern Bush (139); Nightcaps (140); Heriot (142); Gore (150); Waimahaka (154); Gummie's Bush (149); Awarua (154); Arthur's Point (122); Manapouri, Monowai (139).
68/465	Jun	18d MM4	17h 58m Ngakaroa (44).
68/466	19d	18h MM4	30m Wellington (68).
68/468	Jun	20d MM4 ?	03h 08m Westport (79); Murchison (80); Mangles Valley (80); Hokitika (91).
68/469	Jun	20d ?	06h 12m Eastern Bush (139).
68/470	Jun	20d MM4	16h 38m Westport (79); Murchison (80).
68/471	Jun	20d MM4	23h 53m Westport (79).
68/472	Jun	22d MM4 ?	02h 14m Westport (79); Hokitika (91).
68/474	Jun	23d MM5 MM4	11h 14m Westport (79); Ross (91); Otira (93); Hanmer (88); Lake

				Coleridge (100); Hokitika (91).
68/475	Jun	23d "sharp" ?	11h 26m	Mangataniwha (52); Moanui (35).
68/476	Jun	23d "slight"	16h 29m	Westport (79).
68/478	Jun	24d ?	12h 08m	Westport (79).
68/480	Jun	25d MM4	12h 37m	Westport (79).
68/482	Jun	25d MM4 ?	23h 25m	Harakeke (75); Westport (79); Paenga (80).
68/485	Jun	26d ?	04h 28m	Westport (79).
68/486	Jun	26d MM4 "severe"	07h 03m	Westport (79); Paenga (80).
68/495	Jun	28d MM3	00h 09m	Whakatane (27).
68/496	Jun	29d MM4	09h 26m	Westport (79).
68/497	Jun	29d MM4	17h 11m	Whakatane (27).
68/498	Jun	29d MM4	20h 23m	Murchison (80).
68/499	Jun	29d MM4 "sharp"	23h 23m	Blackball (85); Ross (91); Hokitika (91).
68/501	Jun	30d MM4	02h 00m	Westport (79); Murchison (80); Ross (91).
68/506	Jul	1d "jolt"	17h 15m	Westport (79).
68/507	Jul	1d ?	19h 57m	Westport (79).
68/508	Jul	2d "slight"	00h 19m	Oratonui (37).
68/509	Jul	2d MM4	05h 54m	Westport (79).
68/510	Jul	2d MM4	09h 09m	Murchison (80).
68/511	Jul	2d MM4	17h 41m	Pleasant Flat (103).
68/512	Jul	2d MM4	18h 16m	Murchison (80).

68/513	Jul	2d MM5 MM4 ?	19h 49m	Te Anau (130); Mt. Aspiring (113); Earnslaw (121); Queenstown (132); Manapouri (139); Te Anau Downs (130).
68/514	Jul	3d MM5 MM4	06h 22m	Arthur's Pass (93); Westport (79).
68/515	Jul	3d ?	09h 49m	Westport (79).
68/516	Jul	3d MM4 MM3-4	12h 47m	Westport (79); Murchison (80); Hokitika (91).
68/517	Jul	4d MM4	09h 19m	Queenstown (132).
68/519	Jul	5d MM4	13h 20m	Ross (91); Haast (103).
68/520	Jul	5d MM4 ?	22h 13m	Murchison (80); Westport (79); Hokitika (91).
68/521	Jul	5d MM4 ?	22h 17m	Murchison (80); Westport (79); Paenga (80); Hokitika (91).
68/522	Jul	6d ?	01h 24m	Westport (79).
68/525	Jul	6d MM4 ?	07h 03m	Murchison (80); Paenga (80).
68/530	Jul	7d MM4	03h 25m	Westport (79); Murchison (80).
68/537	Jul	9d MM5	07h 14m	Coromandel (18).
68/542	Jul	13d ?	01h 05m	Westport (79).
68/543	Jul	13d MM4	07h 41m	Coromandel (18).
68/544	Jul	14d MM3	20h 41m	Okoia (57).
68/545	Jul	14d ?	21h 23m	Whangamomona (48).
68/546	Jul	15d MM5 MM4	19h 13m	Taupo (41); Taupo (41).
68/548	Jul	16d MM4	11h 07m	Westport (79).
68/550	Jul	17d MM4	08h 46m	Te Anau (130).



68/554	Jul	21d MM4 ?	05h 59m Westport (79); Ngakawau (79).
68/555	Jul	22d MM4	18h 24m Westport (79).
68/557	Jul	24d MM4	18h 53m Murchison (80).
68/558	Jul	25d MM5 MM4 MM3 ?	07h 23m Raoul Island; Wellington (68); Naenae (68); Te Hoe (52).
68/562	Jul	29d MM4 ?	22h 16m Murchison (80); Westport (79).
68/564	Jul	30d MM5 ?	22h 18m Murchison (80); Westport (79).
68/570	Aug	4d MM4	03h 23m Murchison (80).
68/572	Aug	5d MM4	21h 11m Westport (79); Murchison (80).
68/573	Aug	5d "slight"	21h 14m Westport (79).
68/574	Aug	6d MM4	09h 08m Murchison (80).
68/575	Aug	7d MM4	18h 47m Westport (79); Murchison (80); Reefton (86); Hokitika (91).
68/576	Aug	8d "slight" ?	01h 52m Mangles Valley (80); Westport (79).
68/578	Aug	9d MM4	22h 33m Dannevirke (63).
68/581	Aug	12d MM4	18h 24m Murchison (80).
68/582	Aug	13d MM4	09h 08m Hastings (60).
68/583	Aug	13d MM4 "slight"	10h 48m Murchison (80); Westport (79).
68/584	Aug	15d MM5 MM4	05h 06m Newtown (68); Blenheim (77); Ocean Bay (78); Paraparaumu (65); Lower Hutt, Northland, Wellington (68).
68/586	Aug	18d ?	02h 45m Westport (79).
68/596	Aug	20d MM4	13h 09m Arrowtown (122); Queenstown (132); Manapouri (139).

68/598	Aug	21d MM4	02h 15m Murchison (80).
68/600	Aug	21d MM4	12h 41m Murchison (80).
68/605	Aug	24d MM4	11h 07m Murchison (80).
68/606	Aug	25d MM4	03h 32m Murchison (80).
68/609	Aug	25d MM4	12h 23m Murchison (80).
68/616	Aug	27d MM4	09h 13m Murchison (80).
68/618	Aug	27d MM4	17h 02m Ohakune (49).
68/623	Aug	29d MM4	14h 39m Murchison (80).
68/625	Aug	30d MM5 MM4	14h 34m Ocean Bay (78); Wanganui (56); Paraparaumu (65); Lyal Bay (68); Hikawera (70); Motueka (75); Maitai Valley (76); Mangles Valley, Murchison (80).
68/630	Aug	31d MM3	12h 13m Ohakune (49).
68/634	Sep	1d MM4	16h 44m Westport (79); Murchison (80).
68/635	Sep	2d MM4	08h 29m Murchison (80).
68/638	Sep	3d MM4	21h 51m Murchison (80).
68/639	Sep	5d "strong"	15h 10m Mangles Valley (80).
68/640	Sep	6d MM4	06h 11m Murchison (80).
68/644	Sep	9d MM4	04h 08m Murchison (80).
68/650	Sep	14d MM4	07h 20m Okoiā (57).
68/653	Sep	14d MM4	17h 31m Murchison (80).
68/657	Sep	16d "light"	12h 29m Westport (79).
68/658	Sep	18d MM4	03h 35m Murchison (80).
68/660	Sep	18d MM4	13h 49m Eketahuna, Pa Valley (66); Woburn (68).

68/661	Sep	18d ?	15h 43m Mangataniwha (52).
68/662	Sep	19d MM5 MM4	16h 11m Westport (79); Murchison (80).
68/663	Sep	19d MM4	17h 12m Wellington, Wilton (68).
68/665	Sep	21d MM4	02h 03m Okioia (57).
68/668	Sep	23d MM4	12h 30m Murchison (80).
68/671	Sep	25d MM7 MM5  MM4  MM3	07h 02m Puysegur Point (146); Hakataramea Downs (117); Blackstone Hill (124); Te Anau (130); Queenstown (132); Cromwell (133); Matakaniui (134); West Arm (138); Eastern Bush, Manapouri (139); Nightcaps (140); Roxburgh (142); Tuatapere (148); Heddon Bush, Invercargill (149); Mt. Aspiring (113); Earnslaw (121); Wanaka (123); Otiake (125); Deep Cove (129); West Arm (138); Manapouri (139); Tairaroa Heads (145); Gummie's Bush (149); Gore (150); Nugget Point (152); Dog Island, Waimahaka, Waipapa Point (154); Quarry Hills (156); Alexandra (133); Oamaru (136); Manapouri (138); Eyre Creek (140); "severe" "strong" "heavy" "sharp" "slight" ?
68/672	Sep	25d ?	07h 55m Puysegur Point (146).
68/673	Sep	25d MM4 ?	08h 20m Nightcaps (140); Puysegur Point (146).
68/674	Sep	25d ?	08h 26m Puysegur Point (146); Tuatapere (148).
68/675	Sep	25d ?	09h 12m Puysegur Point (146).
68/676	Sep	25d ?	09h 41m Puysegur Point (146).
68/677	Sep	25d ?	10h 12m Puysegur Point (146).
68/688	Oct	1d MM3	23h 17m Waimana (35).
68/698	Oct	6d MM4	14h 39m Manapouri (139).

68/699	Oct	6d MM4	16h 45m Deep Cove (129).
68/700	Oct	7d MM4	00h 37m Murchison (80).
68/706	Oct	10d MM4 "slight"	17h 46m Murchison (80); Westport (79).
68/708	Oct	11d MM4	01h 27m Murchison (80).
68/712	Oct	15d MM4	05h 53m Murchison (80).
68/713	Oct	15d MM4	08h 49m Murchison (80).
68/722	Oct	20d MM4	07h 07m Puysegur Point (146).
68/723	Oct	20d ?	13h 49m Cobb River (75).
68/734	Oct	27d MM3	08h 41m Westport (79).
68/737	Oct	30d MM4	02h 08m Westport (79).
68/739	Oct	30d MM4	16h 29m Westport (79).
68/743	Nov	1d MM6 MM5  MM4  MM3  MM2  ?	01h 32m Wellington (68); Paraparumu Beach, Raumati South (65); Miramar (68); Brothers Lighthouse (78). Omoana, Purangi (48); Ohakune (49); Ohakune, Okioia (57); Hunterville, Table Flat (58); Mount Vernon (60); Dannevirke (63); Eketahuna, Mas- terton (66); Baring Head, Tawa Flat, Wainuiomata, Wellington, Woburn (68); Cape Palliser, Wai- rongomai (69); Motueka (75); Nelson (76); Manaroa, Ocean Bay (78); Westport (79); Blenheim (83); Seddon (84); North Loburn (102); Akaroa (111); MM3 Hawera (55); Waitahinga (56); Palmerston North (62); Ponatahi (70); Nelson (76); Westport (79). MM2 New Plymouth (47); Taurewa (50); Wanganui (56); Castlepoint (67); ? Whangamomona (48); Linton (62); Moutoa, Otaki (65); Waimapu, Purunui (66); Paturau River (71); Linkwater (76); Koromiko (77); Seddon (84); Akaroa Heads (111).
68/746	Nov	1d MM4  MM3 MM2 "severe" "slight" ?	13h 46m Ngakaroa (44); Wanganui (57); Table Flat (58); Waipawa (60); Dannevirke (63); Wairoa (53); MM2 Opotiki (35); Gisborne (45); Lower Hutt (68); Maungataniwha (42); "severe" Napier (52); Kelburn (68); "slight" Oratonui (37); Otaki (65).



68/747	Nov	2d MM4	11h 35m Westport (79).
68/748	Nov	6d ?	00h 20m Westport (79).
68/750	Nov	6d ?	16h 11m Westport (79).
68/754	Nov	9d MM4 MM3	12h 12m Lower Hutt (68); Pa Valley (66).
68/760	Nov	11d MM4	12h 48m Ngakarua (44).
68/761	Nov	11d MM5 MM4 MM3 ?	15h 37m Puysegur Point (146); Waimahaka (154); Manapouri (139); Invercargill (149).
68/769	Nov	13d MM4	11h 09m Maketu (26).
68/781	Nov	17d MM3-4	07h 55m Nelson (76).
68/788	Nov	19d MM4 MM2	08h 48m Murchison (80); Barrytown (85); Westport (79).
68/793	Nov	20d MM4	22h 17m Inangahua, Westport (79); Murchison (80).
68/795	Nov	21d MM4	22h 11m Kawerau (34).
68/798	Nov	22d MM4	04h 13m Murchison (80).
68/799	Nov	22d MM4	10h 27m Kawerau (34).
68/801	Nov	24d MM4	06h 43m Westport (79); Murchison (80).
68/816	Dec	2d MM5 MM2	16h 25m Mount Vernon (60); Waiwhare (51).
68/819	Dec	7d MM4	01h 55m Westport (79); Murchison (80).
68/820	Dec	7d MM4	07h 16m Taupo (41).
68/829	Dec	10d MM4	17h 57m Tadmor (75); Murchison (80).
68/861	Dec	22d MM4 MM3	02h 04m Ngaharua (44); Gisborne (45).
68/864	Dec	22d MM4	23h 05m Westport (79).

68/869	Dec	23d "sharp jolt"	18h 29m Te Anau Downs (130).
68/873	Dec	25d MM4	08h 10m Hunterville (58); Dannevirke (63).
68/877	Dec	25d MM4	19h 33m Murchison (80).
68/878	Dec	26d ?	00h 38m Westport (79).
68/882	Dec	26d MM2	08h 10m Westport (79).
68/886	Dec	26d MM4	12h 59m Murchison (80).
68/897	Dec	28d "sharp"	07h 43m Paenga (80).

## EARTHQUAKES FELT IN STANDARD LOCALITIES

Localities within which earthquakes were felt in 1968 are listed in alphabetical order, preceded by its number on the reference map. The figure following the name of the locality is the number of the epicentre, followed by the maximum intensity (in brackets) reported within the district covered by the locality name. The instrumental magnitude may be found from the epicentre list, and the places that actually reported the shock from the table of "Places Reporting Felt Earthquakes".

133	Alexandra	410 (4),	671 (5)		
111	Akaroa	026 (4), 743 (4)	269 (5),	343 (?),	428 (3),
122	Arrowtown	146 (3),	464 (4),	596 (4)	
95	Arthur's Pass	269 (6), 339 (?), 514 (5)	270 (4), 429 (5),	271 (4), 448 (4),	273 (4), 474 (4),
108	Ashburton	026 (4),	269 (4),	320 (?)	
16	Auckland	269 (3)			
83	Awatere	269 (6),	369 (4),	743 (4)	
152	Balclutha	671 (4)			
77	Elenheim	269 (?),	339 (?),	584 (5),	743 (?)
154	Bluff	146 (4), 761 (4)	193 (4),	464 (4),	671 (4),
104	Bruce Bay	076 (4),	146 (4)		
61	Bulls	134 (5),	212 (?),	269 (?)	
84	Cape Campbell	007 (?), 352 (?),	010 (?), 434 (?),	269 (5), 435 (?),	339 (?), 743 (4)
46	Cape Egmont	269 (4)			

67	Castlepoint	134 (3),	212 (3),	743 (2)	
50	Chateau	122 (?), 412 (3),	134 (?), 743 (2)	255 (4),	269 (4),
96	Cheviot	269 (5),	339 (?)		
110	Christchurch	026 (5), 269 (6), 339 (5)	028 (4), 270 (4),	071 (3), 275 (4),	212 (4), 337 (4),
89	Clarence	269 (5), 352 (4), 453 (4),	271 (4), 378 (4), 456 (4)	329 (3), 447 (4),	337 (4), 448 (4),
18	Coromandel	537 (5),	543 (4)		
95	Culverden	026 (?), 275 (?), 342 (?)	071 (4), 320 (?), 352 (4),	269 (6), 337 (4), 364 (?)	271 (?), 339 (2), 375 (?)
63	Dannevirke	048 (2), 134 (5), 353 (3),	111 (4), 212 (5), 578 (4),	114 (3), 239 (3), 746 (4),	122 (4), 269 (4), 873 (4)
8	Dargaville	269 (5)			
129	Doubtful Sound	146 (6), 464 (4),	153 (4), 671 (4),	154 (5), 699 (4)	163 (3),
145	Dunedin	269 (4),	671 (4)		
126	Duntroon	026 (3),	269 (4)		
73	D'Urville Island	269 (4)			
117	Fairlie	026 (?),	269 (4),	671 (5)	
69	Featherston	048 (3), 743 (4)	212 (?),	269 (4),	270 (?),
97	Franz Josef	269 (5),	337 (?)		
45	Gisborne	050 (4), 861 (3)	242 (5),	445 (4),	746 (2),
81	Glenhope	269 (9),	270 (4)		
121	Glenorchy	146 (4), 671 (4)	154 (4),	155 (4),	513 (4),
150	Gore	146 (4),	154 (2),	464 (4)	
85	Greymouth	212 (? possibly another shock), 278 (?), 788 (4)	339 (?),	499 (4),	269 (9), 575 (4),
103	Haast	076 (4), 511 (4),	084 (4), 519 (4)	269 (6),	337 (4),
24	Hamilton	269 (4)			
88	Hanmer	411 (4),	474 (4)		
98	Hari Hari	034 (4),	269 (5)		
60	Hastings	062 (?),	134 (4),	212 (4),	269 (4),

		353 (5), 816 (5)	582 (4),	743 (4),	746 (4),
55	Hawera	212 (3),	269 (5),	339 (3),	743 (4)
91	Hokitika	026 (4), 337 (4), 347 (5), 378 (4), 421 (?), 448 (4), 472 (?), 501 (4), 521 (?)	146 (3), 339 (5), 352 (5), 402 (4), 428 (?), 454 (5), 474 (4), 516 (3-4), 575 (4)	269 (8), 342 (?), 362 (?), 411 (5), 429 (4), 461 (?), 474 (?), 519 (4),	280 (?), 343 (5), 373 (4), 413 (?), 447 (?), 468 (?), 499 (4), 520 (?)
149	Invercargill	146 (5), 671 (5)	269 (3), 761 (?)	320 (?),	464 (3),
113	Jackson's Bay	076 (2), 269 (4)	146 (2), 513 (4)	154 (3), 671 (4)	258 (?),
90	Kaikoura	269 (5), 337 (4)	270 (?), 339 (4)	272 (4),	273 (?),
74	Karamea	269 (7),	270 (?)		
51	Kaweka	122 (4), 353 (5)	134 (3), 816 (2)	212 (4),	213 (3),
132	Kingston	076 (4), 513 (4)	146 (5), 517 (4)	154 (4), 596 (4)	269 (4), 671 (5)
93	Kumara	269 (8),	272 (?),	275 (?),	278 (?)
125	Kurow	026 (3),	269 (4),	671 (4)	
100	Lake Coleridge	026 (4), 402 (4)	269 (6), 411 (3)	339 (3), 474 (4)	347 (4),
115	Lake Ohau	269 (?)			
94	Lake Sumner	026 (4),	269 (6),	339 (4)	
143	Lawrence	671 (?)			
131	Livingstone Mts	671 (?)			
114	Makarora	269 (3),	671 (?)		
70	Martinborough	047 (4), 743 (3)	130 (4),	269 (4),	625 (4),
87	Maruia	269 (7),	337 (?),	339 (?),	369 (?)
66	Masterton	131 (4), 269 (5), 754 (3)	134 (5), 458 (5)	178 (4), 660 (4)	212 (4), 743 (4),
120	Milford	076 (?),	084 (?),	089 (?)	
38	Mokau	075 (4), 269 (5)	135 (3), 339 (4)	212 (5), 394 (5)	255 (5), 395 (5)
139	Monowai	076 (2), 151 (?), 269 (4), 513 (4)	115 (4), 154 (4), 459 (?), 596 (4)	116 (?), 193 (4), 464 (4), 671 (5)	146 (5), 197 (4), 469 (?), 698 (4)



		761 (3)				
140 Mossburn	146 (4), 673 (?)	154 (4),	464 (4),	671 (5),		
75 Motueka	269 (6), 378 (5), 625 (4),	295 (?), 402 (?), 723 (?),	339 (?), 448 (4), 743 (4),	341 (?), 482 (4), 829 (4),		
105 Mount Cook	020 (4),	269 (4),	337 (?)			
107 Mount Somers	343 (?)					
71 Mount Stevens	269 (5),	743 (?)				
80 Murchison	143 (4), 428 (?), 448 (4), 454 (4), 461 (4), 486 (?), 512 (4), 525 (4), 564 (4), 575 (4), 598 (4), 609 (4), 635 (4), 644 (4), 668 (4), 712 (4), 798 (4), 877 (4),	153 (?), 438 (4), 449 (4), 456 (4), 468 (4), 498 (4), 516 (4), 530 (4), 570 (4), 576 (?), 600 (4), 616 (4), 638 (4), 653 (4), 700 (4), 713 (4), 801 (4), 886 (4),	212 (3), 439 (4), 451 (4), 457 (?), 470 (4), 501 (4), 520 (?), 557 (4), 572 (4), 581 (4), 605 (4), 623 (4), 639 (?), 658 (4), 706 (4), 788 (4), 819 (4), 897 (?)	269 (8), 447 (4), 452 (4), 460 (4), 482 (?), 510 (4), 521 (4), 562 (4), 574 (4), 583 (4), 606 (4), 634 (4), 640 (4), 662 (4), 708 (4), 793 (4), 829 (4),		
34 Murupara	040 (4),	041 (4),	795 (4),	799 (4)		
52 Napier	013 (3), 134 (4), 398 (4), 746 (?)	062 (4), 212 (4), 475 (?),	063 (?), 269 (4), 558 (?),	120 (4), 353 (5), 661 (?),		
76 Nelson	051 (2), 275 (3), 295 (4), 378 (4), 449 (?)	269 (6), 278 (3), 337 (4), 428 (?), 625 (4),	272 (4), 280 (?), 339 (5), 447 (?), 743 (4),	273 (2), 292 (?), 369 (4), 448 (?), 781 (3-4)		
47 New Plymouth	212 (4), 395 (4),	255 (3), 743 (2)	269 (5),	394 (4),		
136 Oamaru	269 (5),	671 (3)				
49 Ohakune	122 (4), 255 (4), 395 (?)	132 (3), 269 (5), 618 (4),	134 (5), 353 (4), 630 (3),	212 (4), 394 (5), 743 (4)		
35 Opotiki	002 (4), 688 (3),	177 (4), 746 (2)	445 (?),	475 (?),		
65 Otaki	081 (3), 584 (4),	134 (?), 625 (4),	212 (?), 743 (5),	269 (4), 746 (?)		
144 Outram	269 (3),	671 (?)				
62 Palmerston North	048 (2), 212 (4),	134 (5), 269 (5),	269 (5), 270 (?),	743 (3), 273 (?)		

	339 (4), 743 (5)	448 (4),	584 (5),	625 (5),	
158 Pillan's Pass	146 (5), 464 (4),	149 (?), 671 (5)	152 (?),	154 (4),	
134 Poolburn	269 (5),	410 (4),	671 (5)		
64 Porangahau	134 (?), 353 (?)	239 (?), 441 (?)	269 (3), 444 (?)	346 (?)	
146 Puysegur Point	146 (?), 673 (?), 677 (?)	154 (?), 674 (?), 722 (4),	671 (?), 675 (?), 761 (5)	672 (?), 676 (?)	
23 Raglan	269 (4)				
109 Rakaiia	026 (4)				
155 Ranfurly	269 (?)				
102 Rangiora	026 (4),	269 (4),	339 (?),	743 (4)	
86 Reefton	269 (9),	320 (?),	575 (4)		
33 Rotorua	040 (?), 074 (?)	042 (?), 075 (?)	043 (?), 140 (4),	044 (33), 174 (4)	
142 Roxburgh	076 (?),	146 (?),	464 (4),	671 (5)	
59 Rushine	134 (4),	212 (3)			
124 St. Bathans	671 (5)				
156 Tahakopa	146 (4),	671 (4)			
58 Taihape	122 (4), 269 (4), 743 (4),	134 (5), 272 (?), 746 (4),	212 (4), 353 (4), 873 (4)	255 (3), 360 (4),	
72 Takaka	164 (5), 280 (?), 305 (?)	269 (8), 292 (?), 337 (4),	270 (?), 295 (?), 339 (?)	278 (?), 304 (?), 448 (4)	
39 Taumarunui	036 (4),	269 (4),	394 (4)		
41 Taupo	036 (3), 191 (4),	037 (2), 197 (3),	103 (?), 546 (5),	168 (4), 820 (4)	
26 Tauranga	769 (4)				
130 Te Anau	146 (5), 155 (4), 671 (5),	147 (4), 464 (5), 869 (?)	153 (4), 513 (5),	154 (5), 550 (4),	
31 Te Kuiti	269 (4)				
42 Te Whaiti	001 (?), 040 (4), 122 (?)	019 (?), 041 (?), 137 (?)	036 (?), 069 (?), 172 (?)	038 (?), 120 (?), 746 (?)	
106 Tekapo	269 (4)				
118 Timaru	026 (4),	269 (5)			
40 Tokaanu	036 (6), 122 (4),	037 (4), 244 (3),	060 (2), 353 (4)	068 (4),	

37 Tolaga Bay	081 (?), 746 (?)	177 (4),	212 (?),	508 (?),
148 Tuatapere	146 (3),	197 (3),	671 (5),	674 (?)
141 Waikaisa	146 (5),	154 (4)		
86 Wairau	269 (5),	275 (?),	339 (?)	
53 Wairoa	137 (5), 269 (3),	212 (4), 353 (5),	213 (4), 746 (3),	261 (4),
123 Wanaka	076 (4), 464 (4),	146 (4), 671 (4),	154 (4),	410 (4),
57 Wanganui	036 (?), 122 (3), 213 (?), 394 (4), 650 (4),	045 (4), 131 (3), 255 (4), 395 (4), 665 (4),	051 (4), 134 (4), 269 (4), 544 (3), 743 (4),	075 (4), 212 (5), 339 (3), 625 (4), 746 (4),
12 Warkworth	269 (3)			
56 Waverley	045 (3), 255 (5),	134 (5), 269 (5),	212 (4), 394 (3),	213 (?), 743 (3),
68 Wellington	010 (3), 170 (3), 295 (3), 584 (5), 746 (2),	048 (4), 203 (4), 339 (5), 660 (4), 754 (4),	070 (4), 212 (4), 466 (4), 663 (4),	131 (4), 269 (5), 558 (4), 743 (6),
79 Westport	212 (? possibly another shock), 308 (?), 342 (?), 378 (5), 415 (?), 432 (?), 448 (4), 461 (4), 468 (4), 474 (5), 482 (?), 501 (4), 514 (4), 521 (?), 548 (4), 564 (?), 576 (?), 634 (4), 734 (3), 747 (4), 793 (4), 878 (?)	318 (?), 349 (?), 402 (?), 424 (?), 433 (?), 454 (4), 462 (?), 470 (4), 476 (?), 485 (?), 506 (?), 515 (?), 522 (?), 554 (4), 572 (4), 583 (?), 657 (?), 737 (4), 748 (?), 801 (4), 882 (2)	337 (?), 365 (4), 403 (?), 428 (4), 443 (?), 456 (4), 463 (?), 471 (4), 478 (?), 486 (4), 507 (?), 516 (4), 530 (4), 555 (4), 573 (?), 586 (?), 662 (5), 739 (4), 750 (?), 819 (4),	269 (11), 339 (1), 366 (4), 411 (5), 429 (2), 447 (4), 460 (7), 466 (4), 472 (4), 480 (4), 496 (4), 509 (4), 520 (?), 542 (?), 562 (?), 575 (4), 625 (4), 706 (?), 743 (4), 788 (2), 864 (4),
44 Whakapunaki	023 (3), 465 (4),	213 (4), 746 (4),	242 (4), 760 (4),	445 (4), 861 (4),
27 Whakatane	346 (4),	495 (3),	497 (4)	
48 Whangamomona	255 (3), 545 (?)	269 (5), 743 (4)	394 (5),	395 (5),
9 Whangarei	269 (?)			
99 Whitcombe Pass	026 (4),	269 (5)		

## UNCONFIRMED REPORTS

The following shocks reported to have been felt cannot be confirmed either by an instrumental record or by an independent report.

Jan 2d	09h17m	Waimana (35)	MM4
15d	02h00m	Maungataniwha (42)	?
17d	23h30m	Waimana (35)	MM4
25d	05h45m	Mangles Valley (80)	MM2
Feb 16d	03h19m	Kaikoura (90)	MM2
19d	01h05m	Turangi (40)	MM2
19d	15h10m	Glebelands (64)	?
25d	18h45m	Tokomaru Bay (37)	?
Apr 2d	or		
3d	00h25m	Paenga (80)	"slight"
5d	03h10m	Maungataniwha (42)	"moderate"
5d	10h40m	Takaka (72)	MM4
5d	11h56 $\frac{1}{2}$ m	Manapouri (139)	MM4
5d	01h00m	Tareha (52)	"strong"
May 17d	05h30m	Manapouri (139)	MM3
20d	19h15m	Makakahi (49)	?
22d	18h25m	Somerton (108)	?
25d	16h45m	Ngutunui (39)	MM3
24d	-	Waimate (127)	"slight tremors"
25d	-	Hanmer (95)	MM5
24d	19h00m	Moawhango (58)	"jolt"
27d	04h02m	(Possibly artillery practice at Waiouru.)	
27d	23h20m	Manapouri (139)	MM3
28d	11h00m	Upper Matakaitaki (87)	?
30d	23h43m	Brooklyn (68)	MM4
Jun 1d	16h58m	Wanganui (56)	MM4
1d	15h00m	Te Mata (23)	MM4
2d	early morning	Wanganui (56)	MM4
6d	12h52m	Totara Flat (86)	"heavy"
14d	23h45m	Mangles Valley (80)	MM4
15d	00h05m	Mangles Valley (80)	?
16d	15h45m	Westport (79)	?
17d	05h20m	Mangles Valley (80)	?
19d	00h -		
	04h	Mangles Valley (80)	?
20d	23h55m	Westport (79)	MM4
25d	11h45m	Takaka (72)	MM4
Jul 3d	15h -		
	16h	Wairakei (41)	MM5
4d	21h -		
	00h	Mangles Valley (80)	MM4
		(Perhaps refers to 68/520.)	
5d	19h10m	Murchison (80)	?
6d	15h50m	Murchison (80)	?
7d	06h00m	Gisborne (45)	"very slight"
11d	03h00m	Arthur's Pass (93)	MM5
15d	03h00m	Paenga (80)	?
16d	15h00m	Westport (79)	?
25d	00h50m	Paenga (80)	?
Aug 9d	05h36m	Turangi (40)	MM4
14d	10h43m	Murchison (80)	MM4
20d	16h32m	Paraparaumu (65)	MM4
Sep 5d	00h15m	Paraparaumu (65)	MM3
7d	23h55m	Karori (68)	MM3
8d	16h00m	Mangles Valley (80)	"strong"
23d	17h30m	Ponatahi (70)	MM3
Oct 18d	01h06m	Murchison (80)	MM4
30d	17h35m	Murchison (80)	MM4



Oct	30d	19h09m	Seddon (84)	?
Nov	2d	16h47m	Paraparaumu (65)	MM4
	2d	17h10m	Paraparaumu Beach (65)	MM2
	6d	14h40m	Manapouri (139)	"sharp"
	9d	11h32m	Patoka (52)	MM2
	11d	12h10m	Manapouri (139)	"slight"
	21d	22h46m	Kawerau (34)	MM4
Dec	5d	12h43m	Paraparaumu Beach (65)	MM4
	8d	07h20m	Hokio Beach (65)	?
	11d	16h47m	Paraparaumu Beach (65)	MM4
	26d	"early a.m."	Tairua (18)	?

### REPORTS FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of felt earthquakes from islands in the south-west Pacific and other places beyond the limits of its systematic reporting network. The following reports were received during 1968: -

Feb	28d	02h47m	Raoul Island	MM2
Mar	26d	21h25m	Raoul Island	MM2
Apr	10d	20h06m	Raoul Island	MM2
	10d	20h17m	Raoul Island	MM2
	10d	20h28m	Raoul Island	MM2
Mar	15d	15h00m	Raoul Island	MM3
	20d	07h13m	Raoul Island	MM4
	20d	20h06m	Raoul Island	MM4
	23d	18h43m	Raoul Island	MM3
Jun	29d	08h01m	Raoul Island	MM1
Jul	2d	04h31m	Raoul Island	MM4
	5d	13h38m	Raoul Island	MM3
	25d	07h23m	Raoul Island	MM5
Sep	1d	00h24m	Raoul Island	MM3
	24d	10h00m	Niuafo'ou	-
Oct	6d	10h00m	Niuafo'ou	-
Nov	14d	11h35m	Niuafo'ou	MM2
	24d	22h10m	Niuafo'ou	MM6
	25d	01h00m	Niuafo'ou	"slight damage" MM3

### STATION READINGS OF DISTANT SHOCKS

This section contains the readings from earthquakes at distances beyond about 10 degrees from Wellington, and is divided into two parts, the first containing data from stations within the main islands of New Zealand (including Chatham Island), and the second containing the data from other stations of the network. Both lists include U.S. Coast and Geodetic Survey origin data, and magnitudes computed from the New Zealand data.

The arrangement is as follows. For each earthquake the first line gives the origin time, epicentre, focal depth and magnitude assigned by the USGS, and in the case of the New Zealand stations, the distance from Wellington in degrees. For the overseas stations, distances are listed individually with the station readings. When no USGS data are available, this line is omitted. Next the arrival times of phases at the individual stations are listed. With these are given directions of first motion, the amplitudes and periods of the associated ground motions, the results of the magnitude calculations, and values of  $\log_{10} A/T$  for the short-period vertical component.

Periods are given in seconds, and amplitudes in microns. These are worked out by the computer, using a stored polynomial approximation to the response curve of the seismometer concerned. The magnitudes are the 'unified magnitude'  $m = \log_{10} A/T + Q$ , defined by Gutenberg and Richter (Annali di Geofisica, 9: 1-15, 1956). No station correction is applied. Only the vertical component recordings of P or PP, and the horizontal components of P, PP or S are used. The value printed on the right is the mean of separate determinations for all the components whose amplitude and period data are given on the same line.

Magnitude calculations are carried out only for the stations at Wellington, Karapiro, Gisborne, Roxburgh, and Monowai within New Zealand, and for the overseas stations at Afiamalu, Rarotonga, Suva, Raoul Island, and Scott Base.

## STATIONS WITHIN NEW ZEALAND

	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JAN 02	00	21	10.8	5.15 193.4E	55KM	3.5	NEW IRELAND	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 41 AE TE MAG
				H 4 S	DIR					
CRZ	EP	Z	00 27 53							
KRP	P	Z	00 28 29			-0.59				
	ESCP	Z	34 28							4.2
MNG	P	Z	00 29 49							
	E(SCP)	Z	34 32							
	E	Z	35 02							
MSZ	P	Z	00 29 49							
MNH	EP	Z	00 29 02							
JAN 02	02	08	43.2	19.39 177.6W	570KM	4.2	FIJI	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 23 AE TE MAG
				H 4 S	DIR					
CRZ	EP	Z	02 12 17							
KRP	IP	Z	02 12 36.0 D			-1.01				5.3
MNH	EP	Z	02 14 00							
JAN 02	11	44	21.6	15.09 167.6E	127KM	4.7	NEW HEBRIDES	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 27 AE TE MAG
				H 4 S	DIR					
CRZ	EP	Z	11 49 15							
KRP	P	Z	11 49 59							
MNG	EP	Z	11 50 17							
JAN 03	03	05	47.7	4.59 149.1E	33KM	4.8	BISMARCK SEA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 45 AE TE MAG
				H 4 S	DIR					
KRP	EP	Z	03 13 49							
MNG	EP	Z	03 14 02							
MSZ	P	Z	03 14 04							
JAN 03	07	37	25.2	72.2N 1.2E	33KM	5.3	NORWEGIAN SEA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 149 AE TE MAG
				H 4 S	DIR					
KRP	E(PKP)	Z	07 57 32							
JAN 03	19	32	37.4	24.59 179.3E	612KM	4.2	S OF FIJI	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 17 AE TE MAG
				H 4 S	DIR					
KRP	EP	Z	19 33 24							
JAN 03	23	15	52.6	18.8S 169.9E	299KM	4.2	NEW HEBRIDES	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 23 AE TE MAG
				H 4 S	DIR					
CRZ	EP	Z	23 19 20							
KRP	EP	Z	23 20 00							
JAN 04	00	57	44.4	52.2N 171.3W	36KM	5.7	ALEUTIAN IS	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 94 AE TE MAG
				H 4 S	DIR					
KRP	P	Z	01 10 43							
COB	EP	Z	01 10 58							
MJZ	EP	Z	01 11 12							
JAN 04	10	27	37.7	9.9S 148.9E	19KM	5.4	E NEW GUINEA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 39 AE TE MAG
				H 4 S	DIR					
KRP	EP	Z	10 34 47							
COB	EP	Z	10 34 54							
MNG	EP	Z	10 35 01							
JAN 05	08	00	19.2	16.6S 173.7W	70KM	4.5	TONGA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 27 AE TE MAG
				H 4 S	DIR					

## DISTANT EARTHQUAKES

	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JAN 06	23	27	21.2	27.8S 71.1W	33KM	5.8	NEAR N CHILE	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 88 AE TE MAG
				H 4 S	DIR					
				Z	23 40 09					
				Z	50 36					
				Z	23 40 15					
				Z	23 40 17					
				Z	23 40 17					
				NE	51 09					
JAN 07	09	56	40.3	5.19 153.9E	118KM	5.6	NEW IRELAND	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 41 AE TE MAG
				H 4 S	DIR					
				Z	10 03 50					
				Z	04 12					
				Z	10 04 02.4 U					
				Z	10 04 06.4 U					
				Z	29					
				Z	10 04 22.9 U					
JAN 07	11	12	33.9	33.5N 141.6E	48KM	5.5	OFF E HONSHU JAPAN	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 80 AE TE MAG
				H 4 S	DIR					
				Z	11 24 30					
				Z	11 24 40					
				Z	11 24 42					
				Z	11 24 51					
JAN 07	19	17	34.3	16.7S 174.7W	119KM	4.8	TONGA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 26 AE TE MAG
				H 4 S	DIR					
				Z	19 22 27					
JAN 08	03	17	42.6	13.79 171.5E	630KM	5.2	NEW HEBRIDES	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 28 AE TE MAG
				H 4 S	DIR					
				Z	03 21 49.2 U					6.1
				Z	23 24					
				Z	27 49					
				Z	03 22 05.1 U					
				Z	25 49					
				Z	03 22 34					
				Z	25 47					
				Z	03 22 50.7 U					
JAN 08	12	21	09.1	17.7S 169.1E	41KM	4.4	NEW HEBRIDES	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 24 AE TE MAG
				H 4 S	DIR					
				Z	12 29 53					
				Z	12 26 17					
				Z	12 26 20					
JAN 08	17	24	11.0	5.1S 154.1E	113KM	5.1	SOLOMON IS	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 40 AE TE MAG
				H 4 S	DIR					
				Z	17 31 32					
				Z	17 31 36					
				Z	17 31 49					
				Z	17 31 49					
JAN 08										
				Z	21 19 19					
JAN 08	21	54	20.8	14.8S 174.8W	16KM	5.5	SAMOA	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 26 AE TE MAG
				H 4 S	DIR					
				Z	21 59 39					
				Z	22 00 05					





JAN 14	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	12 25 09.7	7.5S 127.9E	115KM	5.9 BANDA SEA	WEL 35
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ EP	ZNE 12 33 48			
	MNW EP	Z 12 34 04			
	HJZ EP	ZNE 12 34 09			
	KRP EP	ZNE 12 34 14			
	ES	NE 41 34			
	E(SCS)	NE 43 48			
	MNG EP	Z 12 34 20			
	ES	Z 41 55			
	CIZ EP	ZNE 12 35 10			
JAN 14	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	12 40 48.5	52.8N 171.4W	44KM	5.6 ALEUTIAN IS	WEL 94
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 12 53 48			
JAN 14	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	14 33 39.7	21.0S 173.7W	33KM	4.5 TONGA	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 14 38 24			
	MNG EP	Z 14 38 51			
	COB EP	Z 14 39 08			
JAN 14	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 43 10.0	52.7N 171.2W	34KM	5.5 ALEUTIAN IS	WEL 94
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 17 55 11			
	WEL EP	Z 17 55 26			
	ELR	Z 18 25			
JAN 15	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	03 29 03.0	20.4S 163.7E	39KM	4.4 LOYALTY IS	WEL 21
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 03 33 45			
JAN 15	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	05 43 09.4	19.7S 173.1W	33KM	4.6 TONGA	WEL 23
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 05 48 08			
	COB E(P)	Z 05 48 19			
JAN 15	KRP EP	ZNE 15 26 28		-1.20	
	MNG EP	Z 15 25 48			
	ES	Z 29 36			
JAN 17	WEL EP	Z 09 47 27			
	EL	Z 10 01			
JAN 17	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	09 49 50.7	56.4S 147.0E	33KM	W OF MACQUARIE IS	WEL 23
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 09 53 59			
JAN 17	KRP EP	ZNE 13 50 27			
	CRZ EP	ZNE 13 50 40			
	WEL ES	ZNE 13 52 45			
	EL	Z 54			
JAN 18	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	12 03 37.4	14.6S 179.4W	33KM	5.1 FIJI	WEL 27
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 12 03 49			
	MJZ EP	Z 12 07 52			
	MNW EP	Z 12 10 16			

## DISTANT EARTHQUAKES

JAN 19	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	06 04 38.2	9.4S 153.4E	33KM	5.0 SOLOMON IS	WEL 35
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 06 11 09			
	EPCP	Z 13 56			
	ENCP	Z 17 43			
	ESCS	NE 21 50			
	COB EP	Z 06 11 24			
	MNG EP	Z 06 11 26			
	EPCP	Z 14 08			
	HJZ EP	ZNE 06 11 38			
	MSZ EP	Z 06 11 39			
	CIZ EP	ZNE 06 12 23			
JAN 19	H M S	EPICENTRE	DEPTH <th>MAG</th> <th>DIST (DEG)</th>	MAG	DIST (DEG)
	14 12 02.1	7.2S 108.6E	142KM	5.6 JAVA	WEL 67
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNW EP	Z 14 22 18			
	HJZ EP	ZNE 14 22 27			
	COB EP	Z 14 22 35			
	MNG EP	Z 14 22 36			
JAN 19	H M S	EPICENTRE	DEPTH <th>MAG</th> <th>DIST (DEG)</th>	MAG	DIST (DEG)
	14 39 37.8	42.6S 75.2W	22KM	5.5 OFF COAST S CHILE	WEL 75
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG IP	Z 14 51 21.8 U			
	MJZ IP	ZNE 14 51 23.0 U			
	MNW EP	Z 14 51 23			
	KRP EP	ZNE 14 51 31			
JAN 19	HJZ E(P)	Z 18 33 34			
JAN 19	MSZ EP	Z 18 44 58			
	HJZ EP	Z 18 45 06			
	COB EP	Z 18 45 18			
	MNG EP	Z 18 45 29			
JAN 20	H M S	EPICENTRE	DEPTH <th>MAG</th> <th>DIST (DEG)</th>	MAG	DIST (DEG)
	16 41 27.1	16.2S 173.1E	21KM	5.6 FIJI	WEL 25
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 16 45 20.9 DNE		-0.45	5.9
	ES	ZNE 50 27			
	MNG EP	Z 16 46 43			
	HJZ EP	ZNE 16 47 20			
	MNW IP	Z 16 47 32			
JAN 20	H M S	EPICENTRE	DEPTH <th>MAG</th> <th>DIST (DEG)</th>	MAG	DIST (DEG)
	17 34 05.4	18.9S 178.0W	626KM	4.5 FIJI	WEL 23
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	QBZ EP	Z 17 37 43			
	CRZ EP	ZNE 17 37 44			
	KRP P	ZNE 17 37 57			
	WEL P	ZNE 17 38 25			
	MJZ EP	ZNE 17 38 57			
	MSZ EP	Z 17 39 10			
	MNW P	Z 17 39 21			
				-0.62	5.9
JAN 22	H M S	EPICENTRE	DEPTH <th>MAG</th> <th>DIST (DEG)</th>	MAG	DIST (DEG)
	20 06 48.0	18.4N 146.5E	77KM	5.0 MARIANA IS	WEL 65
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 20 17 03			
	MNG EP	Z 20 17 18			
	MSZ EP	Z 20 17 24			
	HJZ EP	ZNE 20 17 26			



H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 20 21 21 31.6		29.9S 179.5W	349KM		5.8	KERMADEC IS			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
GBZ	IP	Z	21 23 24.0						
CRZ	IP	ZNE	21 23 30.2	USH					
ONE	IP	B	21 23 32.2						
AUC	Y	Z	21 23 34						
KRP	EP	ZNE	21 23 37						
	E(S)	N	23 19						
	E(S)	NE	22						
	ESCP	Z	32 21						
	ESCS	NE	33 33						
TUA	EP	Z	21 23 39						
	E(S)	Z	23 17						
ONZ	EP	Z	21 23 47						
	E(SCP)	Z	32 04						
	E(PCSC)	Z	18						
MNG	EP	Z	21 23 39						
	ES	Z	26 00						
	ISCP	Z	32 26.0						
	ESCS	Z	33 34						
WEL	EP	ZNE	21 24 10						
	E(S)	E	25 13						
	E(S)	NE	18						
	ISCP	ZNE	32 26.6						
	ESCS	ZNE	33 00						
COB	EP	Z	21 24 17						
	EP	Z	23 32						
	EP	Z	25 32						
	EP	Z	25 32						
	EP	Z	32 26						
KA1	EP	X	21 24 38						
	MS	X	27 07						
	ESCS	X	36 03						
CIZ	EP	ZNE	21 24 41						
	EP	B	23 02						
	EP	ZNE	27 22						
GPZ	EP	N	21 24 45						
	EP	N	27 18						
	ESCS	N	36 07						
MJZ	EP	ZNE	21 24 56						
	EP	ZNE	27 41						
	EP	Z	32 32						
	ESCS	ZNE	35 10						
MSZ	EP	Z	21 25 15						
	E(S)	Z	23 16						
	E(S)	Z	20						
	ESCS	Z	36 19						
MNH	EP	Z	21 25 25						
	EP	Z	26 11						
	EP	Z	27						
	EP	Z	23 35						
	ESCP	Z	32 37						
WPZ	E(P)	Z	21 25 30						
	EP	Z	25 07						
	ESCS	Z	32 38						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 00 28 12.5		5.2S 154.0E	113KM		5.1	SOLOHON IS			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	EP	ZNE	00 33 21					3.7	
MNG	EP	Z	00 33 38						
MJZ	EP	ZNE	00 33 47						
MNH	EP	Z	00 33 54						

H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 01 20 49.7		8.0S 117.6E	134KM		5.3	SUMBAWA IS			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
MSZ	EP	Z	01 30 22						
MJZ	EP	ZNE	01 30 31						
KRP	EP	Z	01 30 44						
MNG	EP	Z	01 30 47						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 04 26 11.7		33.8N 141.7E	37KM		5.0	OFF E HONSHU JAPAN			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	EP	Z	04 33 04						
	EP	Z	04 33 20						
COB	EP	Z	04 33 14						
MNG	EP	Z	04 33 16						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 06 03 16.7		17.3S 167.0E	33KM		4.2	NEW HEBRIDES			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
MNG	EP	Z	06 03 33						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 09 10 26.1		25.2S 179.4E	549KM		4.2	S OF FIJI			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	EP	Z	09 13 12						
MNG	EP	Z	09 13 36						
COB	EP	Z	09 13 48						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 13 47 09.6		16.1S 173.9W	33KM		4.2	TONGA			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
COB	EP	Z	13 52 50						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 21 22 55 05.8		9.0S 150.8E	139KM		5.0	NEW BRITAIN			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	E(P)	ZNE	23 02 53					5.8	
	E(PP)	Z	04 55						
MNG	IP	Z	23 03 08.7	U					
MSZ	EP	Z	23 03 13						
MNH	EP	Z	23 03 19						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 22 11 25 05.7		5.2S 154.3E	95KM		5.2	SOLOHON IS			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
COB	EP	Z	11 32 29						
MSZ	EP	Z	11 32 42						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 22 15 36 41.2		5.1S 154.1E	117KM		4.8	SOLOHON IS			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
COB	EP	Z	15 44 02						
MSZ	EP	Z	15 44 15						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 22 18 16 49.8		9.8S 149.0E	27KM		5.3	E NEW GUINEA			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	EP	ZNE	18 23 56						
	E(PP)	Z	26 22						
COB	EP	Z	18 24 05						
MNG	EP	Z	18 24 12						
MNH	EP	Z	18 24 17						
H M S		EPICENTRE			DEPTH	MAG	DIST (DEG)		
JAN 22 18 59 08.5		6.8S 153.6E	29KM		4.6	NEW BRITAIN			
		H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE	MAG	
KRP	EP	ZNE	19 06 17						





	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)				
				H	°	S	DIR	LOG <sub>e</sub> A/T	AZ	TZ	AN TN	WEL	21	MAG
JAN 30	01	53	59.9	20.75	179.6W	590KM	4.9 FIJI					AE TE	26	
	CRZ	EP		ZNE	01 57 17							AE TE	21	
	KRP	EP		ZNE	01 57 36							AE TE	21	
	MNG	EP		Z	01 57 56							AE TE	21	
JAN 30	03	44	24.4	6.15	113.3E	594KM	6.2 JAVA					AE TE	69	
	MSZ	IP		Z	03 53 41.2	D						AE TE	69	
	MNW	IP		Z	03 53 44.2	D	0.24					AE TE	69	
	COB	IP		Z	03 53 56.6	D						AE TE	69	
	ES			Z	04 01 45							AE TE	69	
	KRP	IP		ZNE	03 54 05.7	DW	-0.02					AE TE	69	
	E			Z	59 33							AE TE	69	
	E			Z	04 02 04							AE TE	69	
	MNG	IP		Z	03 54 07.9	D						AE TE	69	
	E			Z	04 01 50							AE TE	69	
	ES			Z	39							AE TE	69	
	CIZ	P		ZNE	03 54 47							AE TE	69	
JAN 30	20	12	41.7	22.05	69.5W	118KM	5.3 N CHILE					AE TE	94	
	KRP	EP		ZNE	20 26 25							AE TE	94	
JAN 31				Z	01 17 56							AE TE	94	
	COB	P		Z	01 17 53							AE TE	94	
FEB 01	15	45	30.2	28.35	179.5W	294KM	4.2 KERMADEC IS					AE TE	14	
	KRP	EP		Z	15 48 01							AE TE	14	
	ES			Z	49 45							AE TE	14	
	MNG	EP		Z	15 48 23							AE TE	14	
	E			Z	50 33							AE TE	14	
	ES			Z	45							AE TE	14	
FEB 01	23	13	47.2	16.55	169.0E	228KM	5.1 NEW HEBRIDES					AE TE	23	
	KRP	EP		Z	23 18 06							AE TE	23	
	MNG	EP		Z	23 19 30							AE TE	23	
	E			Z	19 11							AE TE	23	
	E			Z	55							AE TE	23	
FEB 02	00	44	02.1	19.95	179.2W	366KM	4.4 FIJI					AE TE	22	
	KRP	EP		Z	00 47 48							AE TE	22	
	MNG	EP		Z	00 48 09							AE TE	22	
FEB 02	09	39	28.3	7.95	127.0E	116KM	5.4 BANDA SEA					AE TE	34	
	MNG	EP		Z	09 48 29							AE TE	34	
	COB	EP		Z	09 48 30							AE TE	34	
	MJZ	EP		Z	09 48 32							AE TE	34	
	KRP	EP		Z	09 48 37							AE TE	34	
FEB 02	09	50	41.2	22.25	171.3E	95KM	5.1 LOYALTY IS					AE TE	19	
	KRP	EP		Z	09 54 21							AE TE	19	
	MJZ	P		Z	09 54 26							AE TE	19	
				Z	54 37							AE TE	19	

	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)				
				H	°	S	DIR	LOG <sub>e</sub> A/T	AZ	TZ	AN TN	WEL	26	MAG
FEB 02	18	46	24.1	16.05	177.9W	417KM	4.7 FIJI					AE TE	26	
	KRP	P		Z	18 50 43							AE TE	26	
	GNZ	EP		Z	18 50 43							AE TE	26	
	MNG	EP		Z	18 51 02							AE TE	26	
	WEL	E(P)		Z	18 51 10							AE TE	26	
	COB	EP		Z	18 51 14							AE TE	26	
	MJZ	EP		Z	18 51 42							AE TE	26	
	MNW	EP		Z	18 52 05							AE TE	26	
FEB 02	23	16	31.3	16.09	167.5E	32KM	5.0 NEW HEBRIDES					AE TE	26	
	KRP	EP		Z	23 21 39							AE TE	26	
	GNZ	EP		Z	23 21 48							AE TE	26	
	MNG	EP		Z	23 21 58							AE TE	26	
	COB	EP		Z	23 21 59							AE TE	26	
FEB 03	05	16	18.6	17.59	175.3E	33KM	5.1 FIJI					AE TE	24	
	KRP	EP		Z	05 20 56							AE TE	24	
	GNZ	EP		Z	05 21 01							AE TE	24	
	MNG	EP		Z	05 21 22							AE TE	24	
	COB	EP		Z	05 21 29							AE TE	24	
FEB 04	11	00	20.1	43.04	147.1E	33KM	5.5 KURILE IS					AE TE	86	
	KRP	EP		Z	11 13 22							AE TE	86	
	WEL	E(S)		N	11 24 00							AE TE	86	
FEB 04	16	26	18.2	23.38	175.0W	40KM	4.9 TONGA					AE TE	20	
	MNG	EP		Z	16 30 38							AE TE	20	
FEB 04	19	17	36.5	20.86	174.3W	34KM	4.7 TONGA					AE TE	22	
	MNG	EP		Z	19 22 23							AE TE	22	
FEB 04	19	32	15.8	20.59	174.0W	33KM	4.5 TONGA					AE TE	23	
	MNG	EP		Z	19 37 03							AE TE	23	
FEB 05	11	54	12.9	24.48	173.8W	159KM	4.4 S OF FIJI					AE TE	18	
	MNG	EP		Z	11 59 00							AE TE	18	
	ES			Z	12 00 58							AE TE	18	
FEB 06	04	07	23.5	13.29	167.1E	225KM	4.6 NEW HEBRIDES					AE TE	29	
	MNG	EP		Z	04 13 57							AE TE	29	
FEB 06	04	37	11.9	0.13	123.3E	40KM	5.5 MOLUCCA SEA					AE TE	62	
	MNM	P		Z	04 47 12							AE TE	62	
	MJZ	P		Z	04 47 16							AE TE	62	
	KRP	P		Z	04 47 19							AE TE	62	

MNG P		Z	04 47 25	EPICENTRE		DEPTH	MAG				DIST (DEG)	
H	M	S		H	S			LOG <sub>e</sub> A/T	AZ	TZ	AN TN	NEL
FEB 06	11	19	23.1	28.55	71.04	23KM	5.7	CENTRAL CHILE				24
						DIR						AE TE MAG
	MNG	P		Z	11 32 12							
	HJZ	P		Z	11 32 16							
				Z	31							
				Z	48							
	CNZ	IP		Z	11 32 16.8	U						
	KRP	P		Z	11 32 19		-0.35					
FEB 07	00	22	28.6	21.64	142.9E	309KM	3.3	MARIANA IS				7.0
						DIR						NEL 69
	KRP	EP		Z	00 32 48							AE TE MAG
	MNG	EP		Z	00 33 00							
FEB 07	13	10	22.3	25.35	177.7E	491KM	4.5	S OF FIJI				18
						DIR						NEL 18
	KRP	EP		Z	13 13 43							AE TE MAG
				N	15 07							
	GNZ	EP		Z	13 13 45							
				Z	15 03							
				Z	10							
	CNZ	EP		Z	13 13 54							
				Z	16 20							
	MNG	EP		Z	13 14 07							
				Z	15 40							
				Z	21 26							
	WEL	EP		Z	13 14 15							
				Z	16 38							
	COB	EP		Z	13 14 19							
				Z	17 10							
	MJZ	EP		N	13 13 10							
FEB 08	MNG	E		Z	10 33 22							
FEB 09	01	05	30.5	18.13	168.1E	32KM	4.8	NEW HEBRIDES				24
						DIR						NEL 24
	KRP	EP		Z	01 10 12							AE TE MAG
	MNG	EP		Z	01 10 37		-1.31					4.9
FEB 09	16	35	41.4	23.38	171.2E	99KM	4.7	LOYALTY IS				18
						DIR						NEL 18
	MNG	E(P)		Z	16 39 04							AE TE MAG
FEB 09	18	06	28.2	22.63	173.1W	50KM	5.0	TONGA				20
						DIR						NEL 20
	MNG	EP		Z	18 10 32							AE TE MAG
	MNW	E(P)		Z	18 10 35							
FEB 10	05	29	13.8	18.03	177.9W	453KM	4.2	FIJI				24
						DIR						NEL 24
	KRP	EP		Z	05 33 24							AE TE MAG
	MNG	EP		Z	05 33 42							
	MNW	EP		Z	05 34 19							
FEB 10	10	00	05.8	46.04	192.3E	87KM	5.7	KURILE IS				89
						DIR						NEL 89
	KRP	E(P)		Z	10 12 39		-1.28					AE TE MAG
	MNG	EP		Z	10 12 49							5.1

MNG EP		Z	16 07 06.8	EPICENTRE		DEPTH	MAG	NEW HEBRIDES			DIST (DEG)	
H	M	S		H	S			LOG <sub>e</sub> A/T	AZ	TZ	AN TN	NEL
FEB 10	16	07	06.8	17.63	167.9E	31KM						24
						DIR						NEL 24
				Z	16 12 20							AE TE MAG
FEB 10	16	22	03.8	17.55	167.8E	22KM	4.2	NEW HEBRIDES				24
						DIR						NEL 24
				Z	16 27 42							AE TE MAG
				Z	16 27 49							
				Z	29 07							
FEB 10	20	05	33.9	14.73	166.7E	22KM	4.1	NEW HEBRIDES				27
						DIR						NEL 27
				Z	20 10 59							AE TE MAG
				Z	20 11 06							
FEB 10	20	08	41.6	14.75	166.5E	13KM	4.7	NEW HEBRIDES				27
						DIR						NEL 27
				Z	20 14 05							AE TE MAG
				Z	15 37							
				Z	20 14 24							
				Z	16 55							
FEB 10	21	52	11.4	14.69	166.7E	41KM	4.4	NEW HEBRIDES				27
						DIR						NEL 27
				Z	21 57 58							AE TE MAG
FEB 12	01	26	27.8	6.55	109.5E	130KM	5.6	JAVA				68
						DIR						NEL 68
				Z	01 37 09							AE TE MAG
				Z	01 37 10							
FEB 12	02	12	31.5	5.55	131.1E	67KM	5.8	BANDA SEA				53
						DIR						NEL 53
				Z	02 21 06							AE TE MAG
				Z	02 21 33							
				Z	02 21 34							
				Z	02 21 41		-1.04					6.0
FEB 12	05	44	47.6	5.55	153.2E	74KM		NEW IRELAND				41
						DIR						NEL 41
				Z	05 51 25							AE TE MAG
				Z	54 08							
				Z	05 52 01							
				Z	54 15							
				Z	58 03							
				NE	06 02 15							
				E	42							
				Z	05 52 17							
				Z	58 06							
				Z	05 52 20							
				Z	58 29							
				Z	05 52 26							
				Z	58 18							
				Z	05 52 33							
				Z	54 45							
				Z	59 20							
				Z	05 53 11							
				Z	06 00 10							





	KRP	EP	Z	00 39 42																
			Z	40 41																
FEB 20	H M S				EPICENTRE	DEPTH	MAG													
	09 27 50.1				18.8S 169.6E	234KM	4.4	NEW	HEBRIDES											
			H 4 S																	
	KRP	EP	Z	09 31 59																
	GNZ	EP	Z	09 32 13																
	MNG	EP	Z	09 32 24																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	06 18 21.6				52.3N 175.3W	108KM	5.2	ALEUTIAN	IS											
			H 4 S																	
	KRP	EP	Z	06 31 10																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	06 21 03.6				52.3N 175.3W	107KM	5.3	ALEUTIAN	IS											
			H 4 S																	
	KRP	EP	Z	06 33 52																
	E		Z	34 19																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	08 57 39.4				14.8S 167.4E	124KM			NEW	HEBRIDES										
			H 4 S																	
	KRP	EP	Z	09 02 46																
	E		Z	48																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	08 57 49.1				4.0S 128.5E	19KM	5.2	BANDA	SEA											
			H 4 S																	
	MJZ	EP	Z	09 07 15																
	KRP	EP	Z	09 07 17																
	WEL	EP	Z	09 07 24																
	GNZ	EP	Z	09 07 32																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	19 27 30.0				30.2S 179.0W	228KM	5.0	KERMADEC	IS											
			H 4 S																	
	KRP	EP	Z	19 29 33																
	WEL	E(P)	Z	19 30 10																
	E		NE	32 17																
	MSZ	EP	Z	19 31 18																
FEB 21	H M S				EPICENTRE	DEPTH	MAG													
	21 05 53.8				20.4S 177.9W	503KM	5.5	FIJI												
			H 4 S																	
	KRP	EP	Z	21 09 37																
	E		Z	42																
	MNG	EP	Z	21 09 58																
	E		Z	11 46																
	E		Z	13 19																
	E		Z	16 37																
FEB 22	H M S				EPICENTRE	DEPTH	MAG													
	04 27 54.4				17.9S 167.9E	32KM	4.3	NEW	HEBRIDES											
			H 4 S																	
	KRP	EP	Z	04 32 42																
	MNG	EP	Z	04 33 07																
FEB 22	H M S				EPICENTRE	DEPTH	MAG													
	09 13 47.8				21.8S 179.7E	556KM	4.7	S	OF	FIJI										
			H 4 S																	
	KRP	EP	Z	09 17 12																
	E		NE	20 01																
	GNZ	EP	Z	09 17 14																
	E		Z	20 00																
	GNZ	EP	Z	09 17 23																
	EP		Z	09 17 27																
	TNZ	EP	Z	09 17 27																

	MNG	EP	Z	09 17 33																
			Z	20 29																
			Z	34																
			Z	09 17 41																
			Z	20 53																
			Z	09 19 13																
			Z	21 43																
FEB 22	H M S				EPICENTRE	DEPTH	MAG													
	17 46 57.4				51.4N 175.3W	49KM	5.1	ALEUTIAN	IS											
			H 4 S																	
	KRP	EP	Z	18 00 03																
	E		Z	38																
FEB 22	H M S				EPICENTRE	DEPTH	MAG													
	21 51 54.5				19.1S 169.2E	139KM	4.3	NEW	HEBRIDES											
			H 4 S																	
	KRP	EP	Z	21 55 19																
	MNG	EP	Z	21 56 40																
FEB 23	H M S				EPICENTRE	DEPTH	MAG													
	02 13 24.5				22.2S 170.2E	20KM	4.9	LOYALTY	IS											
			H 4 S																	
	KRP	EP	Z	02 17 16																
	MNG	EP	Z	02 17 47																
	MJZ	EP	Z	02 19 16																
	MHW	EP	Z	02 19 29																
FEB 24	H M S				EPICENTRE	DEPTH	MAG													
	03 51 04.4				20.6S 174.0W	33KM	4.6	TONGA												
			H 4 S																	
	KRP	EP	Z	03 59 29																
	MNG	EP	Z	03 59 32																
	MJZ	E(P)	Z	03 56 37																
FEB 24	H M S				EPICENTRE	DEPTH	MAG													
	10 34 44.7				19.3S 175.0W	37KM	4.7	TONGA												
			H 4 S																	
	MNG	E(P)	Z	10 39 49																
FEB 24	H M S				EPICENTRE	DEPTH	MAG													
	15 34 22.3																			



	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 25	20	00	31.5	37.6N 141.4E	56KM	5.3	HONSHU JAPAN	WEL 84
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	20 12 44				
		E=PP	Z	13 02				
	MNG	EP	Z	20 12 55				
		E=PP	Z	13 12				
FEB 26	10	50	16.7	22.7N 121.9E	24KM		TAIWAN	WEL 81
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	11 02 22				
	MNH	EP	Z	11 02 26				7.1
	MNG	EP	Z	11 02 28		0.47		
	GNZ	EP	Z	11 02 31				7.6
	CIZ	EP	Z	11 03 07				
FEB 27	05	19	00.5	12.2N 140.7E	19KM	5.5	W CAROLINE IS	WEL 82
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	05 29 05				
		E=PP	Z	15				
		E=PP	Z	28				
	MNG	EP	Z	05 29 18				
		E=PP	Z	28				
FEB 27	10	54	38.5	12.1N 140.6E	33KM	5.4	W CAROLINE IS	WEL 82
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	11 04 42				
	MNG	EP	Z	11 04 54				
	MNH	EP	Z	11 05 00				
FEB 27	12	52	35.8	4.6S 153.3E	58KM	4.7	NEW IRELAND	WEL 41
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	12 59 57				
		E	Z	13 00 14				
	GNZ	EP	Z	13 00 12				
	MNG	EP	Z	13 00 14				
FEB 27	KRP	EP	Z	13 50 39				
FEB 27	KRP	IP	Z	15 21 01.8 U		-0.76		
FEB 28	02	46	39.1	28.6S 178.8W	92KM	4.2	KERMADCC IS	WEL 14
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	GNZ	ES	Z	02 50 37				
	KRP	E(P)	Z	02 49 18				
	MNG	EP	Z	02 49 41				
		E=PP	Z	56				
		ES	Z	52 04				
FEB 28	12	08	01.5	32.9N 137.7E	349KM	5.8	S OF HONSHU JAPAN	WEL 81
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	IP	Z	12 17 29.1 U		-0.22		6.7
		E=PP	Z	48				
		E=PP	Z	20 48				
		E=PP	Z	54				
	GNZ	EP	Z	12 19 36				
	MNG	EP	Z	12 19 38				
	MNH	EP	Z	12 19 49				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 29	18	21	15.8	6.9S 155.7E	80KM	5.0	SOLOMON IS	WEL 38
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	10 23 07				
		E	Z	30 35				
		E	Z	51				
	GNZ	EP	Z	10 23 22		-0.27		6.6
	MNG	EP	Z	10 23 26				
FEB 29	14	19	18.4	9.0S 153.7E	14KM	4.9	D ENTRECASTEAUX IS	WEL 37
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	14 25 57				
FEB 29	16	31	34.4	2.9S 119.6E	50KM	5.4	CELEBES	WEL 62
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	16 41 48				
	MNG	EP	Z	16 41 53				
FEB 29	23	36	08.5	14.6S 167.2E	193KM	4.9	NEW HEBRIDES	WEL 27
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	CRZ	EP	Z	23 40 32				
	KRP	EP	Z	23 41 10				
	MNG	EP	Z	23 41 31				
		E	Z	42 39				
MAR 01	03	45	13.3	19.1S 169.4E	234KM	4.2	NEW HEBRIDES	WEL 23
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	03 49 49				
MAR 01	10	19	58.3	94.9S 131.9W	33KM	4.9	PACIFIC-ANTARCTIC R.	WEL 37
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	KJZ	EP	Z	10 27 13				
MAR 01	11	15	17.1	6.1S 130.4E	154KM		BANDA SEA	WEL 53
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	HSZ	EP	Z	11 24 01				
	KJZ	EP	Z	11 24 08				
	MNG	EP	Z	11 24 18				
MAR 01	20	34	28.6	18.5S 175.6W	251KM	4.2	TONGA	WEL 24
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	20 39 11				
		ES	Z	43 10				
	COB	EP	Z	20 39 28				
MAR 02	11	14	01.1	60.7S 25.5W	33KM	5.3	SOUTH SANDWICH IS	WEL 77
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	HSZ	E(P)	Z	11 25 38				
	COB	E(P)	Z	11 25 53				
	MNG	E(P)	Z	11 25 55				
	KRP	E(P)	Z	11 25 08		-1.05		6.1
MAR 02	22	32	24.8	6.1S 71.4E	33KM	5.6	INDIAN OCEAN	WEL 96
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
	COB	EP	Z	22 15 44				
	KRP	EP	Z	22 15 56				







H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 15	20 39 08.7		56.9S 23.9W H 1 S DIR	33KM	5.4 SOUTH SANDWICH IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 81 AE TE MAG
	KRP EP	Z	20 51 36			
MAR 17	04 03 13.3		10.5S 161.4E H 1 S DIR	39KM	5.4 SOLOMON IS. LOG <sub>a</sub> /T AZ TZ AN TN	WEL 33 AE TE MAG
	KRP EP	Z	04 09 21			
	MNG EP	Z	04 09 41			
	MJZ EP	Z	04 09 58			
	MNW EP	Z	04 10 08		-0.86	
MAR 17	16 58 48.4		24.0S 179.7E H 1 S DIR	577KM	4.6 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 18 AE TE MAG
	KRP E(P)	Z	17 01 50			
	MNG EP	Z	17 02 10			
MAR 17	20 14 32.8		3.4N 129.1E H 1 S DIR	52KM	5.7 HALMAHERA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 61 AE TE MAG
	MNW E(P)	Z	20 24 35			
	KRP EP	Z	20 24 36			
	MJZ EP	Z	20 24 38			
	MNG EP	Z	20 24 43			
MAR 18	07 23 02.6		23.2S 179.8W H 1 S DIR	522KM	5.0 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 19 AE TE MAG
	CRZ EP	Z	07 25 56			
	ONE EP	B	07 25 01			
	E(S)	B	25 26			
	E(S)	B	32			
	KRP EP	Z	07 26 16			
	E(S)	NE	29 54			
	GNZ EP	Z	07 25 16			
	MNG EP	Z	07 25 37			
	E(S)	Z	29 29			
	E(PC5)	Z	33 30			
	COB EP	Z	07 25 45			
	E(S)	Z	29 44			
	WEL EP	Z	07 25 90			
	E(S)	ZNE	29 30			
	CIZ EP	Z	07 27 16			
	MJZ EP	Z	07 27 19			
	E(S)	N	30 56			
	E(S)	ZNE	33 41			
	MNW EP	Z	07 27 43		-0.47	
MAR 18	18 16 03.7		6.6S 126.2E H 1 S DIR	450KM	4.7 BANDA SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 95 AE TE MAG
	MNG E(P)	Z	18 24 54			
MAR 18	21 43 52.8		15.9S 173.4E H 1 S DIR	33KM	4.7 FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 29 AE TE MAG
	KRP EP	Z	21 49 56		-1.03	5.3
MAR 19	01 35 49.2		17.4S 172.8W H 1 S DIR	33KM	5.2 TONGA REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 24 AE TE MAG
	KRP EP	Z	01 40 53		-0.18	6.2
	MNG E(P)	Z	01 41 13			
	E(S)	Z	45 47			
	MNW EP	Z	01 42 35			

H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	01 39 05					
MAR 19	19 08 45.1		15.1S 173.6W H 1 S DIR	33KM	4.6 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG
	KRP EP	Z	19 13 36			
	MNG E(P)	Z	19 13 58			
MAR 19	19 17 46.8		26.4S 177.4W H 1 S DIR	23KM	5.1 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 16 AE TE MAG
	KRP EP	Z	19 20 56			
MAR 20	12 13 08.4		51.4N 177.7E H 1 S DIR	45KM	5.1 ALEUTIAN IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 92 AE TE MAG
	KRP EP	Z	12 25 00		-1.09	6.3
	E*PP	Z	14			
	MNG EP	Z	12 25 10			
MAR 20	12 53 59.8		15.1S 173.4W H 1 S DIR	33KM	4.8 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG
	KRP EP	Z	12 59 22			
	MNG EP	Z	12 59 43			
	MNW EP	Z	13 00 46			
MAR 21	14 58 31.6		21.1S 174.0E H 1 S DIR	41KM	4.4 NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 20 AE TE MAG
	KRP EP	Z	15 02 29			
	MNG E(P)	Z	15 02 59			
	MJZ EP	Z	15 03 41			
MAR 22	09 19 12.3		13.1N 148.5E H 1 S DIR	50KM	5.4 MARIANA IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 60 AE TE MAG
	KRP EP	Z	09 23 02			
	MJZ EP	Z	09 25 23			
	MNW EP	Z	09 25 28			
MAR 22	19 19 29.3		3.7S 152.0E H 1 S DIR	14KM	5.0 NEW IRELAND LOG <sub>a</sub> /T AZ TZ AN TN	WEL 43 AE TE MAG
	KRP EP	Z	19 27 08			
	E(PCP)	Z	29 19			
	MNG EP	Z	19 27 24			
MAR 22	20 34 45.3		37.4N 142.4E H 1 S DIR	18KM	5.3 E. OF HONSHU LOG <sub>a</sub> /T AZ TZ AN TN	WEL 84 AE TE MAG
	MNG EP	Z	20 47 11			
MAR 24	KRP EP	Z	22 32 42		-0.74	
	MNG EP	Z	22 33 02			
MAR 25	02 56 37.1		20.0S 169.9E H 1 S DIR	21KM	5.0 LOYALTY IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 22 AE TE MAG
	KRP EP	Z	03 01 00			
	MNG EP	Z	03 01 26			
MAR 26	00 41 56.9		6.6S 115.1E H 1 S DIR	520KM	5.9 E. JAVA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 62 AE TE MAG
	MNW IP	Z	00 51 08.4		-0.06	6.4
	COB P	Z	00 51 19.8			



DATE	TIME	LOC	DEPTH (KM)	MAG	DIST (DEG)	WEL	AE	TE	MAG
MAR 26	02 17 43.7	10.5S 165.8E	98KM	4.0	SANTA CRUZ IS.	32			6.5
MAR 26	04 51 02.5	16.3S 167.8E	22KM	5.1	NEW HEBRIDES	26			
MAR 26	07 09 15.2	16.1S 172.2W	33KM	4.3	SAMOA REGION	28			
MAR 26	14 34 53.7	20.9S 179.7W	603KM	4.5	FIJI REGION	21			
MAR 26	19 40 42.1	8.1N 126.3E	53KM	5.4	MINDANAO	66			6.4
MAR 26	21 24 59.3	30.3S 179.0W	50KM	4.9	KERMADEC IS	12			
MAR 27	12 32 02.6	19.9S 175.1W	225KM	4.8	FIJI REGION	23			9.2
MAR 27	18 53 31.5	40.9N 139.0E	27KM	5.4	SEA OF JAPAN	88			
MAR 27	21 11 00.9	25.5S 179.6E	529KM	5.0	S. OF FIJI	14			
MAR 27	22 36 43.3	4.3S 133.3E	33KM	5.5	WEST IRIAN	92			

DATE	TIME	LOC	DEPTH (KM)	MAG	DIST (DEG)	WEL	AE	TE	MAG
MAR 28	05 45 06.6	10.8S 166.0E	42KM	5.2	SANTA CRUZ IS	31			5.7
MAR 28	07 39 07.1	37.9N 20.9E	6KM	5.4	IONIAN SEA	160			
MAR 28	13 37 50.2	34.9S 69.4W	171KM	5.3	ANDES	84			
MAR 28	22 57 07.4	6.3S 151.4E	53KM	4.6	NEW BRITAIN	41			
MAR 30	00 44 20.9	21.5S 179.4W	626KM	4.6	FIJI REGION	20			
MAR 30	19 18 47.5	21.2S 174.2W	70KM	4.6	TONGA	22			
MAR 31	08 19 35.6	11.4N 125.3E	71KM	5.3	CENTRAL PHILIPPINES	69			
MAR 31	13 50 37.8	16.3S 168.4E	243KM	4.9	NEW HEBRIDES	25			5.3
MAR 31	00 06 40.2	16.1S 173.0W	280KM	4.2	TONGA	27			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
APR 01	00	16	30.0	6.2S 151.2E	27KM	4.9 NEW BRITAIN	WEL 41
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	00 23 52			
	COB	EP	Z	00 24 02			
	MNG	IP	Z	00 24 08.1	U		
		E	Z	20			
APR 01	00	42	04.2	32.5N 132.2E	33KM	SHIKOKU JAPAN	WEL 83
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	00 54 17			
		E	Z	55 05			
		ESKS	NE	01 04 28			
	COB	EP	Z	00 54 24			
	MNG	EP	Z	00 54 26			
		EP	Z	58 17			
	MNH	EP	Z	00 54 39			
APR 01	02	24	03.4	5.9S 146.6E	60KM	4.9 E NEW GUINEA	WEL 43
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	P	ZNE	02 31 46			
		E	Z	32 17			
	COB	EP	Z	02 31 53			
		E(=PP)	Z	32 04			
	MNG	P	Z	02 32 00			
		(=PP)	Z	11			
APR 01	03	20	42.0	6.2S 151.2E	17KM	4.9 NEW BRITAIN	WEL 41
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	P	Z	03 28 22.0			
APR 01	06	35	48.0	2.9S 133.9E	33KM	5.5 W NEW GUINEA	WEL 53
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	COB	EP	Z	06 44 53			
	KRP	EP	ZNE	06 44 55			
	HJZ	EP	ZNE	06 44 57			
	MNG	P	Z	06 49 03.0	U		
APR 01	07	13	17.6	32.3N 132.1E	32KM	5.7 SHIKOKU JAPAN	WEL 83
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	07 25 31			
	MNG	EP	Z	07 25 40			
	HJZ	EP	ZNE	07 25 42			
APR 03	10	49	25.3	56.7S 147.4E	17KM	W OF MACQUARIE IS	WEL 23
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	10 53 33			
APR 04	01	10	38.5	21.8S 170.3E	119KM	4.7 LOYALTY IS	WEL 23
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	01 14 56			
APR 04	09	12	10.5	5.3S 154.0E	96KM	4.9 SOLOMON IS	WEL 40
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	P	ZNE	09 19 21			
	COB	IP	Z	09 19 33.2	U		
	MNG	P	Z	09 19 37.4	U		
		=PP	Z	20 01			
	MNH	IP	Z	09 19 53.0	U		
					-0.82		

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
APR 04	13	34	32.5	6.4S 129.0E	208KM	4.8 BANDA SEA	WEL 53
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	HSZ	IP	Z	13 43 15.8			
	MNH	EP	Z	13 43 18			
	HJZ	EP	ZNE	13 43 23			
APR 04	14	11	32.1	23.1S 171.5E	33KM	4.7 LOYALTY IS	WEL 18
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	14 15 16			
	HJZ	P	ZNE	14 15 18			
APR 05	02	00	25.4	16.0S 179.8W	33KM	4.6 FIJI	WEL 26
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	(P)	ZNE	02 03 24			
APR 05	08	19	49.8	25.3S 179.9W	462KM	4.4 S OF FIJI	WEL 17
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	P	ZNE	08 22 42			
	GNZ	EP	Z	08 22 45			
		ES	Z	25 07			
	MNG	EP	Z	08 23 05			
		EP	Z	24 09			
		EP	Z	29 40			
		EP	Z	47			
	COB	EP	Z	08 23 18			
	MNH	EP	Z	08 24 14			
APR 05	17	50	51.3	20.3S 178.2W	540KM	4.2 FIJI	WEL 22
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	17 54 32			
	MNG	EP	Z	17 54 52			
APR 05							
	MNG	P	Z	18 21 03.5			
		ES	Z	22 44			
	WEL	S	ZNE	18 23 02			
	CIZ	ES	ZNE	18 23 21			
	GPZ	ES	N	18 24 09			
	HJZ	(P)	Z	18 22 11			
	HSZ	P	Z	18 22 31			
APR 06	06	52	47.1	21.8S 179.5W	610KM	4.2 FIJI	WEL 20
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	06 56 12			
APR 06	16	56	55.0	16.2S 173.8W	96KM	4.4 TONGA	WEL 27
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	17 01 59			
	MNG	EP	Z	17 02 19			
	COB	EP	Z	17 02 30			
	MSZ	EP	Z	17 03 16			
APR 06	21	41	17.9	7.4N 124.3E	17KM	5.1 PHILIPPINE IS	WEL 67
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	21 52 06			
		E=PP	Z	14			



	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 07	01	31	07.0	16.9S 177.2W	33KM	5.0	FIJI	AZ	TZ	AN	TN	WEL 29
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	EP	Z	01 35 46								
	MNG	EP	Z	01 37 12								
	COB	EP	Z	01 37 25								
APR 07	04	40	19.3	51.5N 175.5E	33KM	5.3	ALEUTIAN IS	AZ	TZ	AN	TN	WEL 92
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	E(P)	Z	04 53 13		-0.97						6.4
	MNG	E(P)	Z	04 53 13								
APR 08	02	14	34.0	23.5S 179.8E	550KM	4.7	S OF FIJI	AZ	TZ	AN	TN	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	EP	Z	02 17 43								
	MNG	EP	Z	02 19 02								
	COB	EP	Z	02 19 17								
APR 08	10	34	06.8	17.5S 173.1W	33KM	4.2	TONGA	AZ	TZ	AN	TN	WEL 26
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	EP	Z	10 39 58								
	MNG	EP	Z	10 40 21								
APR 08	14	50	16.7	6.7S 129.4E	125KM	5.4	BANDA SEA	AZ	TZ	AN	TN	WEL 53
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	MSZ	P	Z	14 59 04								
	MJZ	P	Z	14 59 12								
	KRP	IP	Z	14 59 15.7	U	-1.00						6.0
	MNG	IP	Z	14 59 22								
APR 09	01	02	43.6	19.3S 169.4E	144KM	4.5	NEW HEBRIDES	AZ	TZ	AN	TN	WEL 22
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	IP	Z	01 07 01	D	-0.86						5.4
	MNG	P	Z	01 07 27								
APR 09	02	28	06.9	33.1N 115.1W	20KM	6.1	S CALIFORNIA	AZ	TZ	AN	TN	WEL 98
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	WEL	EPP	Z	02 45 36								
		EPPP	Z	47 17								
		EL	Z	03 09								
APR 09	11	27	39.0	17.8S 173.2W	690KM	5.2	FIJI	AZ	TZ	AN	TN	WEL 24
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	CRZ	P	Z	11 31 20		-0.49						5.9
	KRP	P	Z	11 31 39								
	MNG	P	Z	11 31 58								
	WEL	P	Z	11 32 06								
	COB	EP	Z	11 32 10								
	MJZ	EP	Z	11 32 38								
	MSZ	P	Z	11 32 51								
	MNH	P	Z	11 33 01								
APR 10	05	01	07.0	23.5S 179.6W	435KM	4.3	S OF FIJI	AZ	TZ	AN	TN	WEL 18
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	COB	P	Z	05 09 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	18	32	09.6	22.6S 171.5E	50KM	5.1	LOYALTY IS	AZ	TZ	AN	TN	WEL 19
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	EP	Z	18 35 00								
	COB	EP	Z	18 35 20								
	MSZ	P	Z	18 37 02								
APR 11	00	19	02.4	4.0S 127.6E	56KM	5.4	BANDA SEA	AZ	TZ	AN	TN	WEL 56
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	MSZ	EP	Z	00 29 13								
	MNG	EP	Z	00 29 30								
APR 11	01	34	28.9	18.0N 145.7E	189KM	5.0	MARIANA IS	AZ	TZ	AN	TN	WEL 65
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	P	Z	01 44 33		-1.28						5.6
	COB	EP	Z	01 44 43								
	MNG	EP	Z	01 44 46								
	MSZ	EP	Z	01 44 54								
	MNH	EP	Z	01 44 59								
APR 11	11	35	04.4	11.6S 165.3E	49KM	4.6	SANTA CRUZ IS	AZ	TZ	AN	TN	WEL 30
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	MNG	EP	Z	11 41 08								
APR 11	19	22	45.7	4.6S 153.1E	76KM	4.8	NEW IRELAND	AZ	TZ	AN	TN	WEL 41
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	COB	EP	Z	19 29 49								
	MNG	EP	Z	19 29 53								
	MSZ	EP	Z	19 30 02								
APR 11	KRP	EP	Z	20 30 07								
APR 12	06	16	01.9	18.1S 178.1W	471KM	4.2	FIJI	AZ	TZ	AN	TN	WEL 24
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	IP	Z	06 20 58.9	D	-1.00						5.4
	MNG	EP	Z	06 21 18								
	COB	EP	Z	06 21 29								
	MJZ	EP	Z	06 22 00								
	MSZ	EP	Z	06 22 13								
	MNH	IP	Z	06 22 22.8	D	-0.74						5.7
APR 12	12	58	34.7	1.7N 122.6E	40KM	5.1	N CELEBES	AZ	TZ	AN	TN	WEL 64
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	MNG	EP	Z	13 09 06								
APR 13	6	35	38.3	20.3S 177.9W	499KM	4.6	FIJI	AZ	TZ	AN	TN	WEL 22
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	IP	Z	16 39 28.3	U	-1.00						5.4
	MNG	P	Z	16 39 47								
APR 13	17	33	11.0	5.4S 145.9E	225KM	5.0	E NEW GUINEA	AZ	TZ	AN	TN	WEL 44
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	MNG	EP	Z	17 40 53								
APR 13	17	43	07.0	22.9S 171.8E	33KM	4.5	LOYALTY IS	AZ	TZ	AN	TN	WEL 19
				H 4 S	DIR	LOG <sub>a</sub> /T						AE TE MAG
	KRP	EP	Z	17 46 49								
	MNG	EP	Z	17 47 17								

	COB EP	EP	Z	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
	MJZ EP		Z	17 47 21					
			Z	17 47 51					
APR 13	H M S			21 16 10.7	5.1S 144.1E	94KM	5.0	NEW GUINEA	
	COB EP		Z	21 24 12	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 45
	MNG EP		Z	21 24 20					AE TE MAG
APR 14	H M S			08 37 12.2	33.4N 141.4E	44KM	5.4	OFF E HONSHU JAPAN	
	KRP EP		Z	08 49 06	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 80
			Z						AE TE MAG
APR 14	H M S			13 05 08.0	33.4N 141.4E	41KM	5.4	OFF E HONSHU JAPAN	
	KRP EP		Z	13 17 03	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 80
	COB EP		Z	13 17 16					AE TE MAG
APR 15	H M S			03 08 34.7	6.1S 154.9E	199KM	4.9	SOLOMON IS	
	KRP EP		Z	03 19 24	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 39
	GNZ EP		Z	03 19 39					AE TE MAG
	MSZ EP		Z	03 19 54					
	MNH EP		Z	03 19 00					
APR 18	H M S			04 34 40.6	25.7S 179.5W	379KM	4.7	S OF FIJI	
	CRZ P		ZNE	04 37 19.5	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 16
			Z						AE TE MAG
	KRP EP		Z	04 37 34.0	D		-0.30		
			Z						
	GNZ EP		Z	04 37 34					
	MNG EP		Z	04 37 58					
	WEL EP		ZNE	04 38 09					
			ZNE	40 53					
	MJZ EP		Z	04 38 45					
	MSZ EP		Z	04 39 01					
APR 18	MNH EP		Z	06 56 07			-0.35		
	MSZ EP		Z	06 56 19					
	MJZ EP		Z	06 56 19					
	WEL EP		Z	06 56 40					
	MNG EP		Z	06 56 46					
APR 16	H M S			09 58 33.3	25.9S 177.9W	230KM	5.1	S OF FIJI	
	KRP EP		ZNE	10 01 58	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 17
	GNZ EP		Z	10 04 04					AE TE MAG
			Z						
	MNG EP		Z	10 02 18					
			Z	09 26					
	WEL EP		Z	10 05 24					
APR 18	H M S			12 33 33.0	29.8S 176.7W	32KM	4.5	KERMADEC IS	
	MNG EP		Z	12 36 23	H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	WEL 13
	MSZ EP		Z	12 37 54					AE TE MAG
	MNH EP		Z	12 38 04					

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 18	12 49 33.0	6.9S 155.0E	157KM	5.1	SOLOMON IS	WEL 38
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	12 55 18			
		Z	12 53 41			
APR 19	01 13 09.0	15.0S 167.4E	123KM		NEW HEBRIDES	WEL 27
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		ZNE	01 13 14		-1.01	5.4
		Z	01 19 35			
APR 19	09 04 27.3	42.6S 15.0W	33KM	5.6	S ATLANTIC RIDGE	WEL 96
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	09 17 39			
APR 19	16 55 46.7	10.7S 163.4E	28KM	4.8	SANTA CRUZ IS	WEL 32
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	17 02 05			
APR 19	23 25 43.9	12.2N 143.8E	17KM	5.3	S OF MARIANA IS	WEL 60
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	23 39 55.8			
		Z	23 36 01			
APR 20	01 01 31.2	96.1S 27.4W	186KM	5.1	S SANDWICH IS	WEL 81
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	01 13 08			
		Z	01 13 14.8	D		
		Z	01 13 30			
		Z	01 13 31			
		ZNE	01 13 42.8		-0.97	5.9
APR 20	07 34 36.7	1.2S 129.8E	33KM	5.2	HALMAHERA	WEL 57
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	07 44 11			
		ZNE	07 44 16			
APR 20	12 29 10.1	15.7S 172.6W	30KM	5.7	SAMOA	WEL 28
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		ZNE	12 30 14			
		ZNE	12 30 31		-0.09	6.3
		NE	34 56			
		Z	12 31 05			
		Z	12 31 48			
APR 20						
		Z	19 17 54		-0.57	
		Z	19 18 07			
		ZNE	19 18 22			
		Z	19 18 54			
		Z	19 19 06.6	U		
APR 21	06 10 49.1	31.6S 177.7W	37KM	4.7	KERMADEC IS	WEL 11
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
		Z	06 12 17			
		Z				
		Z	06 12 41			
		Z	06 14 27			



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
APR 21	08	34	03.5	38.6N 143.0E H 4 S ZNE 08 45 21 Z 47 19 ZNE 08 46 49 Z 08 47 17	42KM DIR	5.3 OFF E HONSHU JAPAN LOG <sub>a</sub> /T AZ TZ AN TN	WEL 85 AE TE MAG
APR 21	16	43	17.2	56.4S 153.0E H 4 S Z 16 45 10 ZNE 16 45 44 Z 16 47 46 ZNE 16 48 04 ZNE 16 48 11	27KM DIR	5.8 MACQUARIE IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 18 AE TE MAG
APR 22	14	22	35.0	4.4N 127.7E H 4 S ZNE 14 32 41 Z 14 32 41 ZNE 14 32 44 Z 14 32 47	97KM DIR	5.3 TALAUD IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 83 AE TE MAG
APR 23	14	58	53.0	4.7S 143.2E H 4 S Z 15 07 04	51KM DIR	5.1 NEAR N NEW GUINEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 45 AE TE MAG
APR 23				Z 16 52 42 Z 54 37			
APR 23	19	16	07.9	0.4S 127.6E H 4 S Z 19 25 44	89KM DIR	5.2 HALMAHERA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 59 AE TE MAG
APR 23	20	29	14.5	58.7N 150.0W H 4 S Z 20 45 04 Z 20 47 28 Z 21 19	23KM DIR	5.3 GULF OF ALASKA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 104 AE TE MAG
APR 24	13	59	14.5	4.6S 149.4E H 4 S ZNE 14 05 10 Z 07 55 Z 14 05 18 Z 14 05 25 Z 14 05 29 Z 14 05 34	555KM DIR	5.0 BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 43 AE TE MAG
APR 24	22	35	53.3	20.9S 179.2W H 4 S ZNE 22 39 05 Z 22 39 24 ZNE 22 40 28 Z 22 40 48	640KM DIR	4.3 FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 21 AE TE MAG
APR 24	23	44	46.2	6.9S 129.2E H 4 S Z 23 53 39	32KM DIR	5.1 BANDA SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 55 AE TE MAG

## DISTANT EARTHQUAKES

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
APR 25	17	14	27.7	7.1S 155.2E H 4 S ZNE 17 20 46.9 Z 17 21 04.0 U Z 17 21 15 Z 17 21 22	419KM DIR	5.0 SOLOMON IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 38 AE TE MAG
APR 25	17	42	08.7	4.5S 155.1E H 4 S ZNE 17 48 49 Z 50 50 Z 17 49 02 Z 50 53 ZNE 17 49 05.2 Z 50 55 Z 17 49 15 Z 17 49 22	476KM DIR	4.7 SOLOMON IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 41 AE TE MAG
APR 25	21	25	36.1	19.2S 173.1W H 4 S ZNE 21 30 54 Z 21 31 17 Z 21 31 56 Z 32 01 Z 21 32 21	33KM DIR	5.2 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG
APR 26	00	42	34.9	15.3S 173.1W H 4 S ZNE 00 47 55 Z 00 48 20 ZNE 54 ZNE 00 48 58 Z 00 49 20	33KM DIR	5.3 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG
APR 26	15	00	00.1	37.3N 115.5W H 4 S ZNE 15 19 25	0KM DIR	6.3 S NEVADA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 100 AE TE MAG
APR 26	17	48	02.3	18.7N 103.3W H 4 S Z 18 14 07 Z 19 04 Z 23 20 Z 32	69KM DIR	5.5 NEAR MEXICAN COAST LOG <sub>a</sub> /T AZ TZ AN TN	WEL 96 AE TE MAG
APR 27	10	58	21.5	10.5S 165.1E H 4 S ZNE 11 04 14 Z 11 04 36 ZNE 11 04 56 ZNE 07 36 Z 11 09 01	79KM DIR	5.1 SANTA CRUZ IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 32 AE TE MAG

DATE	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)					
				H	S			WBL	AE	TE	MAG		
APR 27	13	57	50.1	21.29	179.2W	670KM	4.5 FIJI	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	CRZ	IP		ZNE	14 01 00.0	U							
	QBZ	P		Z	14 01 04								
	KRP	EP		Z	14 01 18								
	MNG	EP		Z	14 01 39								
	MSZ	EP		Z	14 02 35								
	MNH	EP		Z	14 02 41								
APR 28	04	18	15.7	44.8N	174.5E	39KM	5.5 N PACIFIC OCEAN	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	P		ZNE	04 30 34								
	MNG	EP		Z	04 30 45								
	HJZ	EP		ZNE	04 31 03								
	MNH	EP		Z	04 31 12								
APR 29				Z	00 27 09								
APR 29	00	43	14.2	14.0N	144.7E	154KM	5.0 MARIANA IS	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	COB	P		Z	00 53 09								
	MNG	P		Z	00 53 13								
		E		Z	00 53 59								
	MSZ	P		Z	00 53 19								
	HJZ	EP		Z	00 53 22								
		E		Z	54 08								
APR 29	09	32	56.8	21.35	179.5W	640KM	4.5 FIJI	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	CRZ	P		ZNE	09 35 03								
	QBZ	P		Z	09 35 10								
	GNZ	EP		Z	09 35 24								
	MNG	EP		Z	09 36 43								
	COB	EP		Z	09 36 54								
	MSZ	EP		Z	09 37 39								
	MNH	EP		Z	09 37 46								
APR 30	18	45	24.0	21.4S	174.5W	197KM	4.5 TONGA	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	EP		ZNE	18 49 25								
	MNG	EP		Z	18 49 48								
	HJZ	EP		Z	18 50 40								
	MNH	EP		Z	18 51 03								
APR 30	23	51	17.9	38.4S	71.1W	40KM	5.9 CHILE-ARGENTINA	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	MNG	P		Z	00 03 27								
	HJZ	P		ZNE	00 03 30								
	MSZ	P		Z	00 03 33								
	COB	P		Z	00 03 34								
	KRP	P		ZNE	00 03 38		-0.70						6.5
MAY 01	01	40	59.4	31.0S	179.7W	320KM	4.7 KERMADEC REGION	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	QBZ	P		Z	01 42 46								
	ECZ	EP		Z	01 42 49								
		S		Z	44 12								
	ONE	IP		E	01 42 50.2	W							
		S		E	44 14								
		S		E	42 56								

DATE	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)					
				H	S			WBL	AE	TE	MAG		
	KRP	EP		Z	01 43 00								
		NE		Z	01 43 32								
	TUA	EP		Z	01 43 00								
	MNG	EP		Z	01 43 20								
		ES		Z	01 45 08								
	WEL	EP		Z	01 43 32								
		ES		ZNE	01 43 31								
	COB	EP		Z	01 43 38								
		ES		Z	43 42								
	CIZ	EP		Z	01 44 08								
		E		ZNE	25								
		ES		ZNE	46 41								
	HJZ	EP		Z	01 44 16								
		ES		ZNE	45 54								
	MSZ	EP		Z	01 44 38								
MAY 01	04	31	09.7	2.9S	128.0E	26KM	5.4 CERAM SEA	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	CRZ	EP		Z	04 40 19								
	HJZ	EP		Z	04 40 43								
	KRP	EP		Z	04 40 49								
	MNG	EP		Z	04 40 51								
MAY 01	09	55	10.0	1.5N	127.7E	191KM	5.2 HALMAHERA	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	EP		Z	06 04 50								
	HJZ	EP		Z	06 04 53								
	MNG	EP		Z	06 04 58								
MAY 01	08	43	47.4	38.6N	143.1E	360KM	5.3 E. OF HONSHU	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	EP		Z	08 56 04								
	MNG	EP		Z	08 55 15								
	HJZ	EP		Z	08 56 24								
	MSZ	EP		Z	08 55 29								
MAY 01	14	35	50.3	0.3S	122.8E	176KM	4.9 SULAWESI	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	HJZ	EP		Z	14 49 46								
	KRP	EP		Z	14 49 50		-1.41						5.5
	MNG	EP		Z	14 49 55								
	TUA	EP		Z	14 49 58								
MAY 01	19	12	53.4	40.9N	142.5E	18KM	4.9 HONSHU	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	MNG	EP		Z	19 23 35								
MAY 02	11	44	58.1	5.5S	153.6E	91KM	5.0 NEW IRELAND	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	EP		Z	11 52 07								
	GNZ	EP		Z	11 52 21		-0.72						6.1
	MNG	EP		Z	11 52 24								
	MSZ	EP		Z	11 52 34								
MAY 02	13	03	14.7	17.6S	179.7W	504KM	4.1 FIJI REGION	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	
	KRP	EP		Z	13 07 22								
	GNZ	EP		Z	13 07 23								
	MNG	EP		Z	13 07 43								
	COB	EP		Z	13 07 54								









	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 13	21	09	44.0	3.6S 151.5E	33KM		NEW IRELAND	WEL 43
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE 21 15 34					
	MNG	EP	Z 21 17 03					
MAY 14	01	15	24.9	18.6S 172.5W	39KM		5.0 TONGA REGION	WEL 29
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ	EP	ZN 01 20 09					
	KRP	EP	ZNE 01 20 18			-1.20		
	MNG	EP	Z 01 20 43					5.1
MAY 14	01	24	31.2	22.3S 171.7E	134KM		4.7 LOYALTY IS	WEL 19
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE 01 29 11			-0.94		
	MNG	EP	Z 01 29 38.1					3.2
	MJZ	EP	ZNE 01 29 19					
MAY 14	09	37	05.3	23.8S 176.9W	122KM		4.9 S. OF FIJI	WEL 19
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE 05 40 40					
	MNG	EP	Z 05 40 59					
			Z 41 02					
			Z 04					
			Z 44 00					
	CIZ	EP	ZNE 05 41 39					
		EP	ZNE 43 05					
MAY 14	14	05	06.0	29.9N 129.4E	148KM		5.9 RYUKYU IS	WEL 82
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ	E*PP	Z 14 17 16					
	KRP	EP	ZNE 14 15 59			-0.93		5.9
		E*PP	ZNE 17 40					
	WEL	EP	ZNE 14 17 08			-0.81		6.1
		E*PP	ZNE 43					
		E*PP	Z 20 21					
		E*PPP	Z 53					
		ES	ZNE 27 09					
		ES	ZNE 29 08					
	MJZ	EP	ZNE 14 17 15					
		E*PP	ZNE 50					
MAY 15	02	39	12.0	18.0S 178.6W	650KM		4.3 FIJI REGION	WEL 24
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 02 43 09					
	MNG	EP	Z 02 43 29					
MAY 15	12	38	11.0	2.0S 138.8E	45KM		5.1 WEST IRIAN	WEL 31
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z 12 47 07					
MAY 15	15	00	29.9	29.8S 179.0W	33KM		5.1 KERMADEC REGION	WEL 13
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ	EP	ZNE 15 02 33					
		ES	ZNE 04 09					
	KRP	EP	ZNE 15 02 45					
	WEL	EP	ZNE 15 03 18					
		ES	ZNE 39					
		ES	ZNE 03 45					
		ES	ZNE 15 04 20					

13 30

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 15	21	55	02.0	23.9S 179.8W	441KM		4.1 S. OF FIJI	WEL 18
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 21 53 16					
	MNG	EP	Z 21 53 39					
MAY 16	00	48	23.4	40.8N 143.2E	7KM		7.9 E. OF HONSHU	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE 01 01 30					7.2
	WEL	EP	ZNE 01 01 43			-0.07	27 22	7.2
		ES	ZNE 11 14					
	MJZ	EP	ZNE 01 01 59					
	MSZ	EP	Z 01 02 00					
MAY 16	01	04	54.0	40.7N 143.1E	33KM		5.7 E. OF HONSHU	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 01 17 25					
	MNG	EP	Z 01 17 36					
	MSZ	EP	Z 01 17 48					
MAY 16								
	KRP	P	ZNE 01 10 10.5			-0.85		
	MNG	P	Z 01 10 21					
	WEL	P	Z 01 10 22					
	MJZ	P	Z 01 10 30					
	MSZ	P	Z 01 10 30.5					
MAY 16	04	39	04.0	41.5N 142.3E	33KM		5.1 HOKKAIDO	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z 04 47 46					
MAY 16	06	30	20.7	40.5N 143.6E	14KM		5.2 E. OF HONSHU	WEL 86
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z 06 43 01					
MAY 16	06	36	51.0	41.1N 143.0E	35KM		5.7 HOKKAIDO	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 06 49 21					6.1
	MNG	IP	Z 06 49 31.5 D			-1.09		
	MSZ	EP	Z 06 49 41					
MAY 16	07	49	01.5	41.3N 142.6E	38KM		5.1 HOKKAIDO	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 08 01 33					
	MNG	EP	Z 08 01 44					
	MSZ	EP	Z 08 01 53					
MAY 16	08	14	42.3	10.5S 164.8E	31KM		4.9 SANTA CRUZ IS	WEL 32
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z 08 21 02					
MAY 16	08	58	11.1	41.4N 142.7E	19KM		5.4 HOKKAIDO	WEL 87
				H 1 S	DIR		LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z 09 10 47					6.3
	MNG	IP	Z 09 10 56.3 D			-0.95		
	MSZ	EP	Z 09 11 04					
	MJZ	EP	Z 09 11 06					

	H	M	S	EPICENTRE	DEPTH	MAG												
MAY 16	10	39	01.6	41.5N 142.7E	33KM		HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 10 51 35		0.22												
	WEL	EP		ZNE 10 51 46		0.11												
	MJZ	EP		ZNE 10 51 55														
	MSZ	EP		Z 10 51 55														
MAY 16	14	02	40.7	41.4N 142.3E	37KM	4.8	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	EP		Z 14 13 23														
MAY 16	16	13	45.1	39.7N 143.5E	29KM	5.6	E. OF HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		Z 16 26 13														
	MNG	EP		Z 16 26 23														
MAY 16	17	21	50.9	41.1N 142.9E	38KM	4.5	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	EP		Z 17 34 33														
MAY 16	17	28	13.0	41.4N 143.0E	33KM	5.2	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	EP		Z 17 40 55														
MAY 16	18	43	21.0	40.7N 142.1E	39KM	5.7	HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 18 53 48		-0.78												
		I+PP		ZNE 56 04.5 U														
	MNG	IP		Z 18 53 58.9 D														
		I+PP		Z 56 14.5 U														
	MJZ	EP		ZNE 18 55 08														
	MSZ	EP		Z 18 55 08														
MAY 16	19	16	47.2	41.3N 142.4E	42KM	5.6	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	IP		ZNE 19 29 18.5 U		-0.74												
	MNG	IP		Z 19 29 29.2 U														
	MJZ	EP		ZNE 19 29 38														
	MSZ	EP		Z 19 29 39														
MAY 16																		
	KRP	EP		ZNE 20 05 03														
	MNG	EP		Z 20 05 39														
	MJZ	EP		ZNE 20 06 17														
	MSZ	EP		Z 20 05 32														
MAY 16	20	22	14.9	41.4N 142.6E	39KM	5.6	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 20 34 47														
	MNG	EP		Z 20 34 56														
	MJZ	EP		ZNE 20 35 07														
	MSZ	EP		Z 20 35 07														
MAY 16	21	03	24.3	41.2N 142.4E	33KM	5.0	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	P		Z 21 15 07														

	H	M	S	EPICENTRE	DEPTH	MAG												
MAY 16	23	04	54.7	39.8N 143.1E	37KM	5.8	E. OF HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 23 17 18														
	WEL	EP		ZNE 23 17 30														
		EP		ZNE 20 50														
		ESKS		ZNE 27 53														
		ESS		ZNE 33 49														
		ELQ		NE 40														
		ELR		ZNE 43														
	MJZ	EP		ZNE 23 17 39														
	MSZ	EP		Z 23 17 40														
MAY 17	07	39	00.0	22.7S 175.0E	98KM	4.3	LOYALTY IS											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	EP		Z 07 43 02														
MAY 17	07	57	18.0	22.7S 173.0E	91KM	5.0	LOYALTY IS											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 08 00 52														
	GNZ	EP		Z 08 01 03		-0.86												
	WEL	EP		ZNE 08 01 22		-0.66												
		ES		ZNE 05 15														
	MJZ	EP		ZNE 08 01 58														
MAY 17	09	01	54.9	41.2N 142.7E	34KM	5.0	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	P		Z 09 14 38														
MAY 17	10	42	59.9	39.6N 143.4E	33KM	5.3	E. OF HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	MNG	EP		Z 10 53 24														
MAY 17	13	02	37.3	41.5N 142.8E	45KM	5.6	HOKKAIDO											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 13 19 08		-1.15												
	MNG	EP		Z 13 15 19														
	MJZ	P		ZNE 13 15 28														
MAY 17	13	03	32.3	22.8S 173.3E	55KM	5.7	LOYALTY IS											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		ZNE 13 07 06		-1.09												
	GNZ	EP		Z 13 07 20		-0.79												
	MNG	EP		Z 13 07 39														
	MJZ	P		ZNE 13 08 19														
MAY 17																		
	KRP	EP		Z 18 29 39														
	MNG	EP		Z 18 29 41														
	MJZ	P		ZNE 18 29 55.5														
MAY 18	15	33	44.3	40.8N 143.2E	33KM	5.0	E. OF HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN											
	KRP	EP		Z 15 46 12														
	MNG	EP		Z 15 46 24														
MAY 19	04	12	40.3	35.6N 141.7E	46KM	5.1	HONSHU											
				H 1 S	DIR	LOG <sub>a</sub> /T												



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 19	08	58	03.0	9.2S 111.9E	32KM	4.6 S. OF JAVA	WEL 94
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	09 03 10			
MAY 19	10	40	46.0	4.6S 152.9E	96KM	4.7 NEW BRITAIN	WEL 42
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	10 48 19			
	MSZ	EP	Z	10 43 29			
MAY 19	12	11	09.0	48.9S 124.5E	33KM	S. OF AUSTRALIA	WEL 36
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	12 13 14			
MAY 19	17	25	28.3	23.0S 173.3E	33KM	4.4 LOYALTY IS	WEL 18
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	17 29 38			
MAY 19	21	35	01.2	6.8S 129.5E	43KM	5.3 BANDA SEA	WEL 93
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	21 44 19			
MAY 19	22	16	44.8	40.9N 143.2E	18KM	5.1 E. OF HONSHU	WEL 87
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	22 29 16			
MAY 20	01	54	51.6	01 54 51.6			
	ECZ	EP	Z	01 56 05.5			
	GNZ	EP	Z	01 55 03.6			
		EP	Z	55 16.9			
	KRP	EP	Z	01 55 07.0			
MAY 20	03	16	19.6	40.0N 144.0E	31KM	5.5 E. OF HONSHU	WEL 86
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	03 25 45			
	MNG	EP	Z	03 23 56			
MAY 20	06	53	35.2	40.3N 143.7E	33KM	5.2 E. OF HONSHU	WEL 86
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	07 05 02			
	MNG	EP	Z	07 06 13			
MAY 20	07	13	03.0	30.9S 173.3W	22KM	6.0 KERMADEC IS	WEL 12
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	ECZ	EP	Z	07 14 51			
		EP	Z	15 18			
	CRZ	EP	NE	07 13 19			
		EP	NE	15 54			
	WEL	EP	ZNE	07 13 34			
		EP	Z	17 51			
		EP	ZNE	55			
		EP	ZNE	19			
	CIZ	EP	ZNE	07 16 10			
		EP	ZNE	13 21			
	MJZ	EP	ZNE	07 15 47			
		EP	ZNE	19 26			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 20	10	34	16.8	48.8N 154.7E	40KM	5.4 KURIL IS	WEL 91
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	10 47 18			
	MNG	EP	Z	10 47 26			
MAY 20	17	20	22.4	5.0S 153.3E	45KM	5.3 NEW IRELAND	WEL 41
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	17 27 44			
	GNZ	EP	Z	17 27 58			
	MNG	EP	Z	17 29 01			
	MSZ	EP	Z	17 28 11			
MAY 20	20	09	49.1	30.7S 173.4W	46KM	7.0 KERMADEC IS	WEL 12
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	20 07 54.5			
		EP	ZNE	08 11			
	CRZ	EP	ZNE	20 07 57.2			
		EP	ZNE	09 39			
	WEL	EP	ZNE	20 03 28			
		EP	ZNE	10 38			
		EP	ZNE	11			
	CIZ	EP	ZNE	20 08 53			
		EP	ZNE	11 07			
	MSZ	EP	Z	20 09 49			
		EP	Z	12 56			
MAY 20	20	20	23.0	31.0S 173.1W	39KM	5.0 KERMADEC REGION	WEL 12
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	ECZ	EP	Z	20 22 07			
		EP	Z	23 26			
	KRP	EP	ZNE	20 22 28			
	CRZ	EP	NE	20 22 30.5			
		EP	NE	24 07			
	MNG	EP	Z	20 22 50			
		EP	Z	24 43			
	MSZ	EP	Z	20 24 24			
MAY 20	21	09	44.8	44.8N 150.3E	38KM	5.8 KURIL IS	WEL 89
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	21 22 23			
	MNG	EP	Z	21 22 34			
MAY 21	08	20	00.9	44.9N 150.1E	33KM	5.7 KURIL IS	WEL 89
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	08 32 43			
	WEL	EP	ZNE	08 32 56			
		EP	ZNE	43 06			
		EP	ZNE	49 09			
		EP	ZNE	53 08			
		EP	NE	56			
	MJZ	EP	ZNE	09 01			
		EP	ZNE	08 33 04			
MAY 21	10	52	16.6	20.2N 122.0E	30KM	5.1 PHILIPPINES	WEL 78
				H 4 S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	11 04 17			



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
				H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 23
MAY 21	16	39	58.0	63.7S 171.0E	33KM	5.1 BALLENY IS	
	MNW	EP	Z	16 40 07			
	MSZ	EP	Z	16 40 19			
	MJZ	EP	Z	16 40 29			
MAY 21	17	11	06.0	63.7S 171.7E	24KM	5.0 BALLENY IS	
	MSZ	EP	Z	17 15 32			
MAY 21	ECZ	E(P)	Z	21 24 38			
		ES	Z	25 41			
	GNZ	E(P)	Z	21 24 48			
		ES	Z	23 53			
	MNG	E(S)	Z	21 25 51			
MAY 21	GNZ	ES	Z	21 29 56			
	MNG	E(S)	Z	21 30 59			
MAY 22	00	18	05.9	30.4S 177.8W	43KM	4.7 KERMADEC IS	
	ECZ	EP	Z	00 19 50			
		ES	Z	21 31			
	KRP	EP	ZNE	00 20 21			
		ES	ZNE	21 31			
	MNG	EP	Z	00 20 42			
		ES	Z	22 41			
	MJZ	EP	ZNE	00 21 49			
		ES	ZNE	24 34			
MAY 22	10	51	53.3	41.5N 142.8E	40KM	5.9 HOKKAIDO	
	KRP	EP	ZNE	11 04 25			
		E(=PP)	ZNE	42			
	MNG	P	Z	11 04 35			
		(=PP)	Z	53			
	MSZ	P	Z	11 04 46			
MAY 22	19	29	25.7	40.2N 142.3E	40KM	5.3 HONSHU	
	KRP	EP	ZNE	19 41 49			
	MNG	EP	Z	19 42 00			
	MSZ	P	Z	19 42 13			
MAY 24	14	06	24.2	40.9N 143.0E	38KM	5.6 E. OF HONSHU	
	KRP	EP	ZNE	14 19 53			
	MNG	EP	Z	14 19 04			
		E(=PP)	Z	15			
MAY 24	15	43	54.2	6.8S 119.9E	609KM	6.0 FLORES	
	MSZ	P	Z	15 52 44.0			
	KRP	IP	ZNE	15 53 04.0 D		-0.40	
		IPCP	ZNE	42.4 D			
		PP	ZNE	55 04			
		EPPP	ZNE	56 43			
		ES	ZNE	00 32			
	MNG	IP	Z	15 53 07.0 D			
		IPCP	Z	44.2 D			

	PP	Z	55 07				
	ES	Z	16 00 34				
	GNZ	IP	Z	15 53 16.0 D		-0.31	
		ES	Z	16 00 50			6.1
MAY 25	11	52	57.4	40.1N 143.1E	37KM	5.2 E. OF HONSHU	
	MNG	EP	Z	12 05 42			
MAY 26	04	01	57.8	0.4S 124.0E	106KM	5.3 MOLUCCA SEA	
	MNG	P	Z	04 12 04.0			
MAY 26	14	41	52.0	63.3S 170.7E	9KM	5.5 BALLENY IS	
	MSZ	EP	Z	14 46 12			
	CIZ	EP	ZNE	14 46 39			
	WEL	EIP	ZNE	14 46 46		-0.24	7 8
		ES	ZNE	50 59			6.2
		EL	ZNE	52		46 20	21 20
	KRP	EP	ZNE	14 47 22		-0.67	14 20
		EPP	ZNE	49 00			5.9
MAY 26	17	24	34.0	63.3S 170.9E	33KM	5.4 BALLENY IS	
	MNG	EP	Z	17 29 36			
MAY 26	20	19	43.0	18.5S 175.1E	33KM	4.9 FIJI REGION	
	KRP	EP	Z	20 24 17			
	MNG	EP	Z	20 24 37			
MAY 27	04	22	41.7	5.8S 153.2E	46KM	5.6 NEW IRELAND	
	KRP	P	Z	04 29 57.3			
	MNG	P	Z	04 30 14.3			
	MSZ	P	Z	04 30 23.3			
MAY 27	11	36	33.8	30.7S 177.9W	32KM	4.5 S. OF KERMADEC IS	
	GNZ	EP	Z	11 38 32			
		ES	Z	40 07			
	MNG	EP	Z	11 39 10			
MAY 27	19	02	50.0	21.3S 174.5W	100KM	4.7 TONGA	
	MNG	EP	Z	19 03 43			
MAY 28	01	28	22.1	30.9S 177.4W	33KM	4.8 S. OF KERMADEC IS	
	GNZ	E(P)	Z	01 30 37.5			
		E(S)	Z	31 51.7			
	MNG	EP	Z	01 30 57			
		S	Z	32 57.4			
MAY 28	02	09	42.0	31.3S 179.8W	33KM	4.8 KERMADEC REGION	
	GNZ	P	Z	02 11 41.6			



DATE	TIME	STATION	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 26	03 33 49.0	MNG EP	31.1S 177.3W	33KM	4.7	KERMADEC REGION
		GNZ EP				
		MNG EP				
MAY 28	04 10 55.0	MNG EP	31.5S 175.8W	33KM	4.5	KERMADEC REGION
		MNG EP				
MAY 28	06 50 19.0	MNG EP	30.6S 177.7W	33KM	4.5	S. OF KERMADEC IS
		GNZ EP				
		MNG EP				
MAY 28	09 06 29.9	MNG EP	30.9S 177.8W	33KM	5.5	S. OF KERMADEC IS
		GNZ EP				
		MNG EP				
		MSZ EP				
MAY 28	13 27 18.7	MNG EP	2.9S 137.3E	55KM	6.1	WEST IRIAN
		KRP EP				
		MNG EP				
		MSZ EP				
		WEL EP				
		ELQ				
		ELR				
MAY 29	17 21 52.9	MNG EP	18.6S 169.0E	214KM	5.1	NEW HEBRIDES
		GNZ EP				
		MNG EP				
		WEL EP				
MAY 30	08 24 03.4	MNG EP	15.8S 167.6E	90KM		NEW HEBRIDES
		KRP EP				
		MNG EP				
MAY 30	09 55 32.0	MNG EP	6.7S 129.5E	33KM	5.4	BANDA SEA

DATE	TIME	STATION	EPICENTRE	DEPTH	MAG	DIST (DEG)
		MNG EP	10 04 47.3			
		H M S				
		EPICENTRE	35.5N 28.0E	21KM	5.3	E. MEDITERRANEAN SEA
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		MSZ EPKP				
		WEL EPKP				
		MNG EPKP				
		KRP EPKP				
		H M S				
		EPICENTRE	30.9S 177.6W	41KM	5.5	KERMADEC REGION
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		KRP EP				
		MNG EP				
		ES				
		MSZ EP				
		H M S				
		EPICENTRE	20.7S 170.0E	97KM	4.8	NEW HEBRIDES
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		GNZ P				
		MNG P				
		I				
		H M S				
		EPICENTRE	17.4S 175.1W	300KM	4.4	TONGA
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		GNZ EP				
		MNG EP				
		H M S				
		EPICENTRE	31.4S 175.9W	33KM	4.8	KERMADEC REGION
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		GNZ EP				
		MNG EP				
		ES				
		MSZ EP				
		H M S				
		EPICENTRE	13.6S 167.2E	209KM	4.9	NEW HEBRIDES
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		MNG EP				
		H M S				
		EPICENTRE	14.7S 167.4E	142KM	4.3	NEW HEBRIDES
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		MNG EP				
		H M S				
		EPICENTRE	31.0S 177.7W	33KM	4.5	KERMADEC REGION
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		KRP EP				
		MNG EP				
		C12 EP				
		ES				
		MSZ EP				
		MNW EP				
		H M S				
		EPICENTRE	1.1S 127.4E	192KM		HALMAHERA
		DIR				
		LOG <sub>a</sub> A/T				
		AZ TZ AN TN				
		AE TE MAG				
		MSZ P				
		MNW P				



	H	M	S	EPICENTRE	DEPTH	MAG												
JUN 02	01	11	19.4	18.5S 177.7W	538KM	4.3	FIJI REGION											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	IP		ZNE 01 15 20.1	U	-0.85												
	MNG	EP		Z 01 15 40														
	WEL	P		ZNE 01 15 47.7	U	-0.77												
	MSZ	EP		Z 01 15 34														
	MNW	IP		Z 01 15 44.0	U													
JUN 02	05	16	01.0	9.0S 120.6E	19KM	5.4	FLORES REGION											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MSZ	EP		Z 05 25 26														
	MNG	EP		Z 05 25 51														
JUN 02	08	18	36.2	8.1S 153.6E	35KM	5.6	SOLOMON IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		ZNE 08 25 12														
		E		Z 08 25 34														
	MNG	P		Z 08 25 30														
	WEL	EP		ZNE 08 25 45														
	MSZ	EP		Z 08 25 47														
	MNW	EP		Z 08 25 54														
		E		Z 08 25 20														
JUN 03	09	17	46.2	5.4S 145.9E	190KM	5.6	NEW GUINEA											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	IP		ZNE 09 25 17.0	USE													
		E		Z 09 25 01														
	MSZ	IP		Z 09 25 30.6	U													
	GNZ	IP		Z 09 25 31.7	U													
		E		Z 09 31 49														
	WEL	P		ZNE 09 25 31														
	MNW	IP		Z 09 25 37.0	U	-0.56												
JUN 04	14	01	30.7	30.7S 173.1W	50KM	4.6	KERMADEC IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	ECZ	EP		Z 14 03 19														
	MNG	EP		Z 14 04 05														
JUN 04	17	15	09.8	22.5N 121.4E	47KM	5.2	TAIWAN											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		Z 17 27 09														
	MSZ	P		Z 17 27 12.0														
	MJZ	P		ZNE 17 27 15														
	MNG	EP		Z 17 27 16														
JUN 05	06	18	35.4	58.7S 25.7W	33KM	5.4	SOUTH SANDWICH IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MSZ	P		Z 06 30 21														
	MJZ	EP		ZNE 06 30 25														
	WEL	EP		Z 06 30 37														
	KRP	IP		Z 06 30 53.9	D	-0.98												
JUN 05	06	38	27.9	7.0S 153.5E	55KM	4.7	SOLOMON IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MNG	EP		Z 06 43 42														

	H	M	S	EPICENTRE	DEPTH	MAG												
JUN 05	11	51	40.0	12.9S 111.8W	33KM	5.1	E PACIFIC OCEAN											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	WEL	ES		Z 12 11 56														
JUN 05	22	06	26.9	4.5S 153.1E	59KM	5.0	NEW IRELAND											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		Z 22 13 51														
		E		Z 22 14 04														
	MNG	P		Z 22 14 06														
	MJZ	EP		Z 22 14 16														
		E		Z 22 14 31														
	MSZ	EP		Z 22 14 26														
JUN 05	23	04	06.0	18.9S 169.4E	215KM	4.6	NEW HEBRIDES											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MNG	IP		Z 23 03 38.7	D													
JUN 06	01	22	12.3	17.9S 167.5E	12KM	5.0	NEW HEBRIDES											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	GNZ	EP		Z 01 27 19														
	MNG	EP		Z 01 27 28														
JUN 06	08	16	24.9	14.6S 166.8E	39KM	4.4	NEW HEBRIDES											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		Z 08 21 45														
JUN 06	11	58	39.0	19.7S 173.3W	50KM	4.8	TONGA											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		ZNE 12 03 17														
	MNG	P		Z 12 03 38														
	MSZ	EP		Z 12 04 45														
JUN 06	12	45	48.0	30.2S 173.5W	127KM	4.3	KERMADEC IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		Z 12 48 03														
	MSZ	EP		Z 12 49 46														
JUN 06	15	01	18.1	31.8S 173.5W	47KM	4.6	KERMADEC REGION											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	KRP	EP		Z 15 03 11														
	MNG	EP		Z 15 03 36														
JUN 06	16	44	57.0	7.0S 129.4E	75KM	5.4	BANDA SEA											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MSZ	EP		Z 16 53 47														
JUN 06	19	44	07.9	14.9N 119.9E	80KM		LUZON											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	MSZ	EP		Z 19 55 34														
	MJZ	P		Z 19 55 40														
	GNZ	EP		Z 19 55 48														
JUN 06	20	33	28.1	30.7S 173.0W	50KM	5.0	KERMADEC IS											
				H 1 S	DIR	LOG <sub>e</sub> A/T	AZ TZ	AN TN										
	GNZ	EP		Z 20 35 31														
	MNG	EP		Z 20 36 03														







	MNG	EP	Z	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
	WEL	ES	ZNE	10	59	16					WEL 86
	MSZ	EP	Z	10	59	45					WEL 86
JUN 09	H	M	S	30.49	178.14		EPICENTRE	DEPTH	MAG	KERMADEC IS	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	GNZ	E	Z	12	50	41					WEL 12
	MNG	EP	Z	12	49	39					AE TE MAG
		ES	Z	51	41						
	MSZ	EP	Z	12	51	13					
JUN 09	H	M	S	0.78	132.7E		EPICENTRE	DEPTH	MAG	WEST IRIAN	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MNG	EP	Z	13	11	21					WEL 59
											AE TE MAG
JUN 09	H	M	S	31.29	177.8W		EPICENTRE	DEPTH	MAG	KERMADEC REGION	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	GNZ	EP	Z	22	03	49					WEL 12
	TUA	EP	Z	22	04	00					AE TE MAG
	MNG	EP	Z	22	04	25					
	MSZ	EP	Z	22	05	55					
JUN 10	H	M	S	19.78	173.5W		EPICENTRE	DEPTH	MAG	TONGA	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MNG	EP	Z	01	11	47					WEL 24
	COB	EP	Z	01	12	08					AE TE MAG
	MSZ	EP	Z	01	12	53					
JUN 10	H	M	S	16.38	173.6W		EPICENTRE	DEPTH	MAG	TONGA	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MNG	EP	Z	14	28	11					WEL 27
	COB	EP	Z	14	28	27					AE TE MAG
JUN 10	H	M	S	31.19	177.7W		EPICENTRE	DEPTH	MAG	KERMADEC REGION	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	ECZ	EP	Z	15	31	31					WEL 12
		ES	Z	33	07						AE TE MAG
	WEL	ES	Z	15	34	07					
	MSZ	EP	Z	15	33	21					
JUN 11	H	M	S	4.9N	125.0E		EPICENTRE	DEPTH	MAG	S OF MINDANAO	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MSZ	EP	Z	03	20	13					WEL 69
											AE TE MAG
JUN 11	H	M	S	5.8S	103.9E		EPICENTRE	DEPTH	MAG	S SUHATRA	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MSZ	EP	Z	10	35	05					WEL 72
	MJZ	EP	ZNE	10	35	13					AE TE MAG
	COB	EP	Z	10	35	21					
	MNG	EP	Z	10	35	32					
	CNZ	P	Z	10	35	32					
JUN 11	H	M	S	8.6S	159.0E		EPICENTRE	DEPTH	MAG	SOLOMON IS	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN TN
	MNG	EP	Z	19	52	59					WEL 39
											AE TE MAG

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 12	13	41	50.7	39.5N 142.7E	44KM	6.0	HONSHU	WEL 86
				H	M	S	DIR	LOG <sub>a</sub> /T
	TUA	P	Z	13	54	20		AZ TZ AN TN
	ECZ	EP	Z	13	54	23		AE TE MAG
	MNG	P	Z	13	54	22		
	CNZ	P	Z	13	54	21		
	WEL	EP	ZNE	13	54	27		-0.53
		ESKS	N	14	03	02		6.7
		ES	N			09		
		ESS	N			10		
		ESSS	E			15		
	MJZ	EP	ZNE	13	54	31		
		E	Z			55		
		E	Z			14		
	MSZ	EP	Z	13	54	33		
	MNH	EP	Z	13	54	39		
JUN 12	H	M	S <td>59.9S 27.6W</td> <td>95KM</td> <td>5.5</td> <td>SOUTH SANDWICH IS</td> <td>DIST (DEG)</td>	59.9S 27.6W	95KM	5.5	SOUTH SANDWICH IS	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNH	EP	Z	14	22	27		WEL 76
	MSZ	EP	Z	14	22	32		AE TE MAG
	MJZ	EP	Z	14	22	35		
		E=PP	Z			58		
	MNG	EP	Z	14	22	49.8		
		E=PP	Z			23		
	CNZ	P	Z	14	22	57		
		E=PP	Z			19		
JUN 12	MNG	EP	Z	14	19	32		
JUN 12	H	M	S <td>39.2N 143.0E</td> <td>32KM</td> <td>5.2</td> <td>E OF HONSHU</td> <td>DIST (DEG)</td>	39.2N 143.0E	32KM	5.2	E OF HONSHU	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNG	P	Z	14	29	59		WEL 85
	MJZ	EP	Z	14	30	09		AE TE MAG
	MSZ	P	Z	14	30	09		
JUN 12	H	M	S <td>39.4N 142.8E</td> <td>31KM</td> <td>5.0</td> <td>HONSHU</td> <td>DIST (DEG)</td>	39.4N 142.8E	31KM	5.0	HONSHU	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNG	P	Z	14	50	45		WEL 85
	MJZ	EP	Z	14	50	54		AE TE MAG
	MSZ	P	Z	14	50	55		
JUN 12	MNG	P	Z	14	57	27		
	MJZ	EP	Z	14	57	36		
JUN 12	MNG	EP	Z	15	08	45		
JUN 12	H	M	S <td>39.5N 143.0E</td> <td>29KM</td> <td>5.3</td> <td>E OF HONSHU</td> <td>DIST (DEG)</td>	39.5N 143.0E	29KM	5.3	E OF HONSHU	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNG	EP	Z	15	21	27		WEL 85
								AE TE MAG
JUN 12	H	M	S <td>39.4N 143.1E</td> <td>29KM</td> <td>5.1</td> <td>E OF HONSHU</td> <td>DIST (DEG)</td>	39.4N 143.1E	29KM	5.1	E OF HONSHU	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNG	EP	Z	15	35	27		WEL 85
								AE TE MAG
JUN 12	H	M	S <td>39.3N 143.0E</td> <td>30KM</td> <td>5.1</td> <td>E OF HONSHU</td> <td>DIST (DEG)</td>	39.3N 143.0E	30KM	5.1	E OF HONSHU	DIST (DEG)
				H	M	S	DIR	LOG <sub>a</sub> /T
	MNG	EP	Z	16	01	33		WEL 85
								AE TE MAG







	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	07	08	48.1	5.6N 82.6W	16KM	5.0	S. OF PANAMA	WEL 81
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				07 27 12				
				35 16				
				42 07				
				57				
JUN 15	12	05	44.0	19.3N 167.8E	12KM		NEW HEBRIDES	WEL 87
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				12 10 53				
JUN 15	13	34	14.4	18.2S 167.9E	11KM	5.5	NEW HEBRIDES	WEL 86
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				13 39 12				
				28				
				13 39 12				
				13 39 22				
				43 39				
				13 39 26				
				40				
				13 39 28				
				41 48				
				43 40				
				13 39 57				
JUN 15	19	53	09.2	41.9N 142.7E	33KM	5.2	HOKKAIDO	WEL 88
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				20 05 06				
JUN 16	02	27	29.6	18.6N 149.4E	227KM	4.9	MARIANA IS	WEL 86
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				02 37 54				
				02 38 00				
JUN 16	04	55	57.0	36.2S 19.9W	33KM	5.1	S. ATLANTIC OCEAN	WEL 102
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				05 23 15				
				29 46				
				39				
				43				
JUN 16	19	14	05.0	53.9S 87.0E	33KM	5.7	BOUVET IS	WEL 97
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				19 25 13				
				19 25 20				
				37				
				19 25 50				
JUN 17	04	26	31.9	22.4N 121.4E	39KM	5.1	TAIWAN	WEL 80
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				04 38 35				
				04 38 39				
				04 38 49				
				04 38 38				
						-0.97		6.2
JUN 17	06	53	21.4	14.0S 166.1E	29KM	4.5	NEW HEBRIDES	WEL 28
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				06 59 18				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	10	17	35.0	56.0S 27.9W	142KM	5.8	SOUTH SANDWICH IS	WEL 81
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				10 29 17				
				10 29 23				
				10 29 37				
				10 29 46				
JUN 17	11	53	00.4	40.8N 143.0E	48KM	5.7	HOKKAIDO	WEL 87
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				12 05 34				
				12 05 40				
				12 05 40				
				12 05 53				
JUN 17	16	56	43.1	40.1N 143.7E	60KM	5.2	E. OF HONSHU	WEL 86
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				17 03 47				
JUN 17	17	49	43.6	6.3S 146.6E	110KM	5.1	NEW GUINEA	WEL 43
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				17 57 25				
				17 57 27				
				17 57 31.0				
				33.6 U				
				17 57 31				
				17 57 33.0 U				
				17 57 33		-0.62		6.1
				17 57 57		-0.90		9.9
JUN 17	18	09	34.1	12.3S 166.7E	33KM	5.5	SANTA CRUZ IS	WEL 30
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				18 15 24				
				18 15 24				
				18 15 26				
				18 15 34				
				20 25				
				18 15 35				
				18 15 39		-0.72		9.9
				17 46				
				20 33				
				18 15 01.6 U				
				18 15 11				
JUN 17	18	50	31.7	39.3N 143.3E	33KM	4.2	E. OF HONSHU	WEL 85
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				19 03 05				
JUN 17	18	57	27.5	38.7N 143.6E	17KM	4.9	E. OF HONSHU	WEL 84
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				19 10 00				
JUN 17	19	34	09.0	2.9S 138.6E	58KM	5.5	WEST IRIAN	WEL 90
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN	AE TE MAG
				19 43 00				



H M S			EPICENTRE			DEPTH	MAG	5.0 FIJI REGION			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 20	MAG
JUN 18	06	42	21.9	21.79	177.6	600KM							
	MNG	EP	Z	06	45	08							
		ES	Z		49	07							
		ESCP	Z		52	43							
		ESCS	Z		56	20							
	COB	EP	Z	06	45	19							
		EP	Z		49	26							
	HSZ	EP	Z	06	47	03							
	GNZ	ES	Z	06	48	32							
JUN 18	MNG	EP	Z	14	05	48							
JUN 18	MNG	EP	Z	21	50	47							
	MSZ	EP	Z	21	50	58							
H M S			EPICENTRE			DEPTH	MAG	5.3 HONSHU			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 85	MAG
JUN 19	01	38	17.4	39.54	142.9	33KM							
	CNZ	EP	Z	01	50	44							
	COB	EP	Z	01	50	49							
	MNG	EP	Z	01	50	51							
	MJZ	EP	ZNE	01	51	00							
	MSZ	EP	Z	01	51	01							
H M S			EPICENTRE			DEPTH	MAG	6.4 N. PERU			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 100	MAG
JUN 19	08	13	35.0	5.6S	77.1W	28KM							
	WEL	EP	Z	08	27	18							
		EP	Z		29	04							
		EP	Z		31	22							
		EP	Z		37	48							
		EP	Z		39	10							
		EP	Z		40	38							
		EP	Z		45	08							
		EP	Z		49	52							
		EP	Z		50	28							
		EP	Z		53	16							
		EP	Z		59								
		EP	Z	09	01								
	MNG	EP	Z	08	31	24							
		EP	Z		44	04							
		EP	Z		31								
	MSZ	EP	Z	08	27	45							
		EP	Z		31	47							
		EP	Z		43	31							
		EP	Z		55								
H M S			EPICENTRE			DEPTH	MAG	4.7 KERMADEC IS			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 12	MAG
JUN 19	11	25	53.8	30.7S	177.9W	33KM							
	MNG	EP	Z	11	29	30							
		EP	Z		30	21							
		EP	Z		29								
	GNZ	EP	Z	11	29	09							
	TUA	EP	Z	11	29	40							
	WEL	EP	ZNE	11	30	48							
	MSZ	EP	Z	11	29	57							
H M S			EPICENTRE			DEPTH	MAG	5.7 S. CHILE			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 74	MAG
JUN 19	19	58	01.9	43.9S	75.1W	24KM							
	MNG	EP	Z	20	09	38							
	MJZ	EP	Z	20	09	40							
		EP	Z	20	09	43							
	MSZ	EP	Z	20	09	45							

H M S			EPICENTRE			DEPTH	MAG	4.6 SANTA CRUZ IS			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 30	MAG
JUN 20	08	21	07.9	12.3S	165.8E	212KM							
	MNG	EP	Z	08	25	49							
H M S			EPICENTRE			DEPTH	MAG	4.5 LOYALTY IS			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 18	MAG
JUN 20	21	49	40.5	22.8S	173.3E	51KM							
	KRP	EP	ZNE	21	53	14							
	MNG	EP	Z	21	53	45							
	WEL	EP	Z	21	53	49							
		EP	Z		59								
	COB	EP	Z	21	53	53							
	MJZ	EP	ZNE	21	54	26							
H M S			EPICENTRE			DEPTH	MAG	NEW HEBRIDES			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 24	MAG
JUN 21	09	52	11.0	18.3S	168.0E	33KM							
	KRP	EP	Z	05	56	54							
	MNG	EP	Z	05	57	18							
H M S			EPICENTRE			DEPTH	MAG	5.1 SOUTH SANDWICH IS			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 81	MAG
JUN 22	00	28	11.3	56.0S	27.6W	174KM							
	KRP	EP	Z	00	40	24							5.7
H M S			EPICENTRE			DEPTH	MAG	5.6 E. OF HONSHU			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 86	MAG
JUN 22	01	12	30.9	40.3N	143.7E	19KM							
	KRP	EP	Z	01	25	00							
	MNG	EP	Z	01	25	00							
H M S			EPICENTRE			DEPTH	MAG	4.5 FIJI REGION			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 22	MAG
JUN 22	08	08	44.4	20.0S	177.8W	419KM							
	KRP	EP	Z	08	12	37							
	MNG	EP	Z	08	12	59							
	COB	EP	Z	08	13	10							
H M S			EPICENTRE			DEPTH	MAG	4.6 FIJI REGION			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 24	MAG
JUN 22	21	01	02.5	17.9S	178.1W	650KM							
	KRP	EP	Z	21	05	01							
	MNG	EP	Z	21	05	20							
	MJZ	EP	ZNE	21	06	00							
		EP	Z			01							
H M S			EPICENTRE			DEPTH	MAG	5.0 NEW GUINEA			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 43	MAG
JUN 23	00	34	33.1	5.9S	147.6E	98KM							
	MNG	EP	Z	00	42	22							
		EP	Z			43							
H M S			EPICENTRE			DEPTH	MAG	4.9 FLORES REGION			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 60	MAG
JUN 23	08	03	57.0	8.3S	118.2E	70KM							
	MSZ	EP	Z	08	13	31							
	MJZ	EP	Z	08	13	41							
	MNG	EP	Z	08	13	57.2							
H M S			EPICENTRE			DEPTH	MAG	4.6 NEW HEBRIDES			DIST (DEG)		
H M S			H M S			DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN	WEL 24	MAG
JUN 23	09	45	25.7	18.3S	167.6E	12KM							
	KRP	EP	Z	09	50	14							



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUN 25	09	08	25.0	50.35 133.0E	33KM	4.1	S. OF AUSTRALIA
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	MNW	EP	Z	09 13 26			
	MSZ	EP	Z	09 13 35			
JUN 26	15	40	31.1	22.25 171.4E	70KM	5.6	LOYALTY IS
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	P	Z	15 44 13			
	MNG	IP	Z	15 44 43.7	D		
	MSZ	P	Z	15 43 26			
	MNW	EP	Z	15 43 37			
JUN 27	02	02	40.2	20.85 177.0W	605KM	4.9	FIJI REGION
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	ZNE	02 06 13			
	MNG	EP	Z	02 06 34			
		E(SCP)	Z	13 06			
	COB	EP	Z	02 05 45			
		ES	Z	10 02			
	MSZ	EP	Z	02 07 29			
	MNW	P	Z	02 07 38			
JUN 27	22	10	03.8	6.1N 120.9E	50KM	5.3	CENTRAL PHILIPPINES
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	MJZ	EP	Z	22 20 53			
	KRP	EP	Z	22 20 54			
JUN 27	22	14	01.3	8.25 119.7E	56KM	5.4	FLORES REGION
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	MSZ	P	Z	22 23 28			
	MJZ	EP	Z	22 23 35			
	KRP	P	Z	22 23 49.8		-0.95	
		E(PCP)	Z	24 21			
	MNG	P	Z	22 23 52			
		E(PCP)	Z	24 25			
JUN 27	23	44	25.2	16.35 167.3E	8KM	4.6	NEW HEBRIDES
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	P	Z	23 49 30			
	MNG	EP	Z	23 49 54		-0.69	
	COB	P	Z	23 49 55			
JUN 29	11	07	40.5	11.65 166.4E	123KM	5.0	SANTA CRUZ IS
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	11 13 15			
	MNG	EP	Z	11 13 36			
	COB	P	Z	11 13 37			
	MNW	EP	Z	11 14 12			
JUN 30	09	39	29.4	13.0N 143.2E	38KM	5.2	MARIANA IS
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	09 44 20			
JUN 30	19	38	19.0	18.65 177.9W	605KM	4.2	FIJI REGION
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	19 42 13			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUN 25	12	45	11.9	36.0N 139.2E	57KM	5.9	HONSHU
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	P	Z	10 57 21			
	COB	P	Z	10 57 30			
	MNG	P	Z	10 57 32			
	MNW	EP	Z	10 57 44			
JUN 26	15	30	10.0	10.85 165.0E	173KM	4.1	SANTA CRUZ IS.
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	MNG	EP	Z	15 35 10			
JUN 27	17	44	48.9	17.6N 100.3W	41KM	5.9	S. MEXICO
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	03 53 24			
	MNG	EP	NE	04 10 02			
		E(P)	ZNE	29			
		E(P)	Z	03 53 32			
JUN 27	14	33	22.7	29.75 177.9W	53KM	5.6	KERMADEC IS
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	04 33 09			
	COB	EP	Z	04 34 49			
	KRP	EP	Z	04 33 10			
	MNG	EP	N	39 04			
	MNG	EP	Z	04 33 37			
		E(P)	Z	39 41			
	KRP	EP	Z	04 33 49			
	MNG	EP	ZNE	35 06			
	COB	EP	Z	04 34 26			
	COB	EP	Z	04 34 08			
		E(P)	ZNE	35 31			
	MNW	E(P)	Z	04 33 13			
JUN 27	18	48	10.1	2.75 133.9E	52KM	5.7	WEST IRIAN
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	P	Z	18 48 47		-0.98	
	COB	P	Z	18 48 51			
	MNG	P	Z	18 48 57			
	MNW	P	Z	18 48 59			
JUN 29	11	10	39.0	31.9S 175.8W	33KM	4.9	KERMADEC REGION
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	01 12 45			
	MNG	EP	Z	01 13 11			
		E(P)	Z	13 15			
	MNG	EP	ZNE	01 13 31			
	MNW	EP	Z	01 14 52			
JUN 30	19	34	22.0	16.0S 172.9W	60KM	4.2	SAMOA REGION
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	COB	EP	Z	09 40 11			
JUN 30	19	34	13.2	34.8N 139.7E	104KM	5.0	S. OF HONSHU
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	KRP	EP	Z	00 45 10			
	MNG	EP	Z	00 45 29			
	MNW	E(P)	Z	00 45 29			



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUL 13	06	38	26.2	6.4S 149.7E H 4 S	36KM DIR	5.1 NEW BRITAIN LOG <sub>a</sub> /T AZ TZ AN TN	WEL 41 AE TE MAG
	KRP	EP	Z	06 45 53			
	MNG	EP	Z	06 46 07			
	MNW	EP	Z	06 46 19			
JUL 13				09 24 46			
	KRP	EP	Z	09 24 46			
	MNG	EP	Z	09 25 07			
		E(S)	Z	27 56			
		E(S)	Z	28 01			
JUL 13	23	03	20.0	20.8S 173.9W H 4 S	33KM DIR	4.9 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 23 AE TE MAG
	KRP	EP	Z	23 07 46			
	MNG	EP	Z	23 09 08			
JUL 13	23	17	09.0	18.3S 175.0W H 4 S	230KM DIR	4.7 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 25 AE TE MAG
	KRP	EP	Z	23 21 39			
	MNG	EP	Z	23 21 59			
		E(S)	Z	25 01			
	COB	EP	Z	23 22 13			
JUL 14	03	11	34.7	15.9S 176.8W H 4 S	379KM DIR	4.6 FIJI REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 26 AE TE MAG
	KRP	EP	Z	03 16 08.4		-0.79	5.4
	MNW	EP	Z	03 17 32		-0.86	5.4
JUL 14	07	57	01.1	19.5S 173.6W H 4 S	96KM DIR	5.1 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 24 AE TE MAG
	KRP	EP	Z	08 01 37			
	MNG	EP	Z	08 01 58			
		E(S)	Z	05 03			
	HEL	EP	Z	08 02 07			
		E(S)	NE	05 24			
	MNW	E	Z	08 03 11			
JUL 15				00 06 23			
JUL 15	00	21	03.0	12.7S 166.7E H 4 S	50KM DIR	4.4 SANTA CRUZ IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 29 AE TE MAG
	MNG	EP	Z	00 25 20			
JUL 15				00 25 31			
JUL 15				00 26 55			
JUL 15	04	12	26.3	16.0S 178.6W H 4 S	599KM DIR	5.3 FIJI REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 24 AE TE MAG
	KRP	EP	Z	04 16 27.8		-1.01	5.3
		E(S)	Z	17 40			
		E(S)	NE	19 54			
	MNG	EP	Z	04 15 46			
		E(S)	Z	20 17			
		E(S)	Z	25 43			
	COB	EP	Z	04 15 59			
		E(S)	Z	20 35			
	MNW	EP	Z	04 17 50		-0.97	5.4
		E(S)	Z	19 25			

	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUL 15	04	52	33.0	3.0S 130.2E H 4 S	20KM DIR	4.9 CERAH LOG <sub>a</sub> /T AZ TZ AN TN	WEL 55 AE TE MAG
	MNG	EP	Z	05 02 06			
JUL 15	10	07	27.5	23.6S 179.2E H 1 S	532KM DIR	4.4 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 18 AE TE MAG
	KRP	EP	Z	10 10 34		-0.98	
		NE	Z	13 09			
	MNG	EP	Z	10 10 55			
		E(S)	Z	13 32			
		E(S)	Z	10 11 08			
	COB	EP	Z	14 04			
		E(S)	Z	10 12 00		-0.86	5.6
JUL 15				19 14 07			
	KRP	EP	Z	19 14 24			
	MNG	EP	Z				
JUL 15	20	04	04.6	23.1S 173.4E H 4 S	33KM DIR	LOYALTY IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 18 AE TE MAG
	KRP	EP	Z	20 07 44			
JUL 16	05	40	10.0	24.6S 179.8W H 4 S	405KM DIR	4.3 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 17 AE TE MAG
	KRP	EP	Z	05 43 19		-1.42	
	COB	EP	Z	05 43 53			
	MNW	EP	Z	05 44 46			
JUL 16	21	25	41.9	13.5S 167.1E H 4 S	219KM DIR	4.4 NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG
	MNG	EP	Z	21 31 11			
	KRP	EP	Z	21 31 31			
JUL 16	21	26	25.0	13.6S 166.1E H 4 S	219KM DIR	4.8 NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 29 AE TE MAG
	KRP	EP	Z	21 31 55			
JUL 17	05	24	15.6	8.7S 125.0E H 4 S	25KM DIR	5.7 TIMOR LOG <sub>a</sub> /T AZ TZ AN TN	WEL 55 AE TE MAG
	MNW	EP	Z	05 33 26			
	COB	EP	Z	05 33 38			
	KRP	EP	Z	05 33 41			
	MNG	EP	Z	05 33 48			
JUL 17	12	23	51.0	5.9S 147.5E H 4 S	92KM DIR	4.8 NEW GUINEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 43 AE TE MAG
	COB	EP	Z	12 31 35			
	MNG	EP	Z	12 31 41			
JUL 18	00	26	26.0	2.4N 128.3E H 4 S	59KM DIR	5.5 HALMAHERA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 61 AE TE MAG
	KRP	EP	Z	00 36 25			
JUL 18	05	04	59.8	19.5S 175.9W H 4 S	235KM DIR	5.0 TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 23 AE TE MAG
	KRP	EP	Z	05 09 15			
		NE	Z	12 54			
		E	Z	13 04			







JUL 22	H M S			EPICENTRE		DEPTH	MAG	DIST (DEG)				
	22	33	43.2	30.3N	139.4E	438KM	3.0	S. OF HONSHU	WEL	79		
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
KRP	EP	Z	22	44	48							
MNG	EP	Z	22	44	58							
MJZ	EP	Z	22	45	04							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 23	07 03 37.8			17.89 174.7W		140KM	4.1	TONGA	WEL	25		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	07	08	19							
KRP	EP	Z	07	08	20			-0.66				
MNG	EP	Z	07	03	40							5.7
MJZ	EP	Z	07	09	38							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 24	08 51 02.0			24.8S 179.6E		570KM	4.7	S. OF FIJI	WEL	17		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	08	53	53			-0.79				
MNG	EP	Z	08	54	14							
WEL	E(S)	Z	08	54	24							
	ES	ZNE	08	57	17							
MJZ	EP	Z	08	55	00							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 24	20 20 59.3			19.4S 173.2W		94KM	5.3	TONGA	WEL	26		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	20	25	08			-0.61				
	E	Z	20	25	10							5.8
KRP	EP	Z	20	26	10							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	06 41 27.0			21.3S 174.5W		33KM	5.1	TONGA	WEL	22		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	06	43	47							
MNG	EP	Z	06	46	07							
	E(S)	Z	06	49	54							
COB	EP	Z	06	46	31							
MNH	EP	Z	06	47	23							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	06 54 15.4			31.5S 177.0W		33KM	4.6	KERMADEC REGION	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	06	57	36							
MNG	EP	Z	06	56	42							
	S	Z	06	53	41							
WEL	ES	Z	06	58	59							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	07 23 07.8			30.8S 179.3W		50KM	6.4	KERMADEC IS.	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	P	Z	07	25	12							
MNG	P	Z	07	25	36							
WEL	P	Z	07	25	48							
	ES	NE	07	27	51							
CIZ	EP	Z	07	26	08							
	ES	Z	07	29	22							
MJZ	EP	Z	07	26	41							
	ES	NE	07	29	28							
MNH	EP	Z	07	27	17							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	07 45 45.8			30.9S 179.0W		42KM	4.8	KERMADEC IS.	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	07	49	48							
	ES	Z	07	51	12							

JUL 25	H M S			EPICENTRE		DEPTH	MAG	DIST (DEG)				
	08	53	22.6	31.0S	179.0W	33KM	4.5 <td>KERMADEC REGION</td> <td>WEL</td> <td>12</td> <td></td> <td></td>	KERMADEC REGION	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	07	50	02							
MNG	EP	Z	07	50	22							
	ES	Z	07	52	10							
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	08	55	19							
	ES	Z	08	55	50							
KRP	EP	Z	08	55	29							
MNG	EP	Z	08	55	52							
	ES	Z	08	57	48							
WEL	ES	ZNE	08	58	07							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	09 29 03.8			30.9S 179.1W		33KM	3.9	KERMADEC IS	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
MNG	EP	Z	09	31	36							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	10 50 31.5			49.8N 146.7E		16KM	5.9	KURIL IS	WEL	90		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	11	03	21							
COB	EP	Z	11	03	29							
MNG	EP	Z	11	03	30							
WEL	EP	Z	11	03	32							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	11 31 47.8			31.0S 179.1W		33KM	4.3	KERMADEC REGION	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	11	33	45							
	ES	Z	11	35	10							
KRP	EP	Z	11	34	01							
MNG	EP	Z	11	34	15							
	ES	Z	11	36	14							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	11 45 48			31.0S 179.1W		33KM	4.3	KERMADEC REGION	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
GNZ	EP	Z	11	45	48							
MNG	EP	Z	11	44	59							
WEL	ES	ZNE	11	47	04							
COB	E(S)	Z	11	47	26							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 25	18 32 21.0			30.9S 179.2W		33KM	4.5	KERMADEC IS	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	18	54	41							
MNG	EP	Z	18	56	32							
WEL	EP	ZNE	18	57	12							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 26	12 28 29.0			20.4S 168.7E		33KM	4.8	LOYALTY IS	WEL	21		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	12	32	44							
MNG	EP	Z	12	33	08							
COB	EP	Z	12	33	21							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 26	16 27 36.4			5.3S 151.9E		37KM	4.6	NEW BRITAIN	WEL	41		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
MNG	EP	Z	16	35	35							
				H	M	S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN	TN
JUL 26	21 46 03.4			31.2S 177.9W		12KM	4.6	KERMADEC REGION	WEL	12		
				H	M	S	DIR <td>LOG<sub>a</sub>A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> </td>	LOG <sub>a</sub> A/T <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td>	AZ	TZ	AN	TN
KRP	EP	Z	21	48	12							
MNG	EP	Z	21	48	34							
	ES	Z	21	50	29							
WEL	EP	Z	21	50	50							



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUL 27	02	45	49.2	35.4N 177.8E	21KM	5.0 DODECANESE IS	WEL 154
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ	EPKP	Z	03 09 42			
	COB	EPKP	Z	03 09 45			
	MNG	EPKP	Z	03 05 48			
	KRP	EPKP	Z	03 05 50			
JUL 27	10	51	40.1	19.2S 175.7E	37KM	5.4 S. OF FIJI	WEL 22
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	10 55 53			
	GNZ	EP	Z	10 55 02			
	MNG	EP	Z	10 55 19			
	MJZ	EP	Z	10 55 57			
JUL 27	23	40	33.1	30.9S 175.7W	27KM	4.5 KERMADEC REGION	WEL 12
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	23 43 11			
			Z	45 09			
JUL 28	10	58	25.7	22.5S 174.7W	33KM	5.0 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	11 02 26			
	KRP	EP	Z	11 02 33			
	MNG	EP	Z	11 02 52			
			Z	06 20			
	MNW	EP	Z	11 04 10			
JUL 28	21	12	38.1	55.4N 166.6E	27KM	5.4 KOMANDORSKY IS	WEL 97
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	21 26 04			
JUL 29							
	MNG	E(S)	Z	02 26 56			
JUL 29							
	KRP	P	Z	03 19 05		-1.15	
JUL 29	11	11	59.5	22.5S 175.0W	33KM	5.6 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	11 15 26			
			Z	20 00			
	COB	EP	Z	11 15 44			
			Z	20 34			
	MJZ	EP	Z	11 17 20			
JUL 29	12	19	46.6	22.4S 174.9W	33KM	5.3 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	12 23 52			
	MNG	EP	Z	12 24 12			
			Z	27 43			
	MNW	EP	Z	12 25 32			
JUL 29	13	30	31.9	3.2S 150.6E	28KM	5.4 NEW IRELAND	WEL 44
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	13 38 17			
	COB	P	Z	13 38 28			
	MNG	P	Z	13 38 33			
	MJZ	EP	Z	13 38 41			

	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUL 29	15	14	01.3	25.3S 177.9W	209KM	4.9 S. OF FIJI	WEL 17
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	15 17 33			
			Z	20 52			
JUL 29	15	19	57.6	21.5S 174.3W	33KM	5.0 TONGA	WEL 22
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	15 24 16			
	MNG	EP	Z	15 24 37			
			Z	23 31			
	COB	EP	Z	15 25 00			
	MJZ	EP	Z	15 25 30			
JUL 29	23	52	15.0	0.2S 133.4E	12KM	6.1 WEST IRIAN	WEL 99
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	IP	Z	24 01 41.1	U		
	MJZ	P	Z	24 01 45			
	MNG	IP	Z	24 01 50	U		
	GNZ	EP	Z	24 01 55			
JUL 30	00	05	07.5	9.3S 114.0E	64KM	5.3 E. JAVA	WEL 62
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ	EP	Z	00 15 07			
	MNG	EP	Z	00 15 25			
JUL 30	02	50	41.4	20.9S 179.2W	620KM	4.9 FIJI REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	P	Z	02 54 14		-1.03	
	GNZ	EP	Z	02 54 14			
	MNG	P	Z	02 54 34			
JUL 30	04	10	12.1	22.4S 175.0W	33KM	5.3 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	04 14 18			
	GNZ	E(P)	Z	04 14 18			
			Z	17 12			
	MNG	E(P)	Z	04 14 45			
			Z	15 04			
	MNW	EP	Z	04 15 58			
JUL 30	05	06	46.9	22.6S 175.0W	33KM	4.6 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	05 11 14			
JUL 30	05	42	39.9	6.9S 156.7E	134KM	5.6 SOLOMON IS.	WEL 38
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	05 49 41			
JUL 30	06	57	25.0	22.3S 175.2W	33KM	4.6 TONGA REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	07 02 29			
JUL 30	20	38	42.0	6.9S 80.5W	37KM	5.8 N. PERU	WEL 96
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	WEL	EGKS	NE	21 02 42			
		EPS	ZNE	04 42			
		EL	ZNE	23			



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
JUL 31	13	46	00.1	31.59 173.1W H 4 S DIR	33KM	4.7 KERMADEC REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 11 AE TE MAG
	GNZ	EP	Z	13 47 48			
			Z	49 04			
	KRP	EP	Z	13 47 57			
	MNG	EP	Z	13 49 22			
			Z	49 59			
	WEL	EP	ZNE	13 50 33			
AUG 01	00	14	16.0	26.6S 177.9W H 4 S DIR	123KM	5.6 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 16 AE TE MAG
	TUA	EP	Z	00 17 19			
	MNG	EP	Z	00 17 32			
			Z	20 09			
			Z	16			
	WEL	EP	ZNE	00 17 50			
			ZNE	20 39			
AUG 01	07	37	44.2	2.48 139.9E H 4 S DIR	33KM	5.2 WEST IRIAN LOG <sub>a</sub> /T AZ TZ AN TN	WEL 90 AE TE MAG
	MNG	EP	Z	07 46 38			
AUG 01	08	52	22.5	24.69 177.8W H 4 S DIR	194KM	3.8 S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 18 AE TE MAG
	MNG	EP	Z	08 58 46			
AUG 01	20	19	21.9	16.5N 122.2E H 4 S DIR	36KM	5.9 LUZON LOG <sub>a</sub> /T AZ TZ AN TN	WEL 75 AE TE MAG
	MNW	EP	Z	20 30 57			
	CNZ	EP	Z	20 31 00			
	TUA	EP	Z	20 31 01			
			Z	33 50			
	WEL	EP	ZNE	20 31 03			
	MNG	EP	Z	20 31 09			
AUG 02	04	02	06.1	31.59 173.0W H 4 S DIR	29KM	KERMADEC REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 11 AE TE MAG
	MNG	EP	Z	04 04 30			
AUG 02	14	06	43.9	16.6N 97.7W H 4 S DIR	40KM	6.3 S. MEXICO LOG <sub>a</sub> /T AZ TZ AN TN	WEL 99 AE TE MAG
	WEL	EP	Z	14 20 21			
			Z	22 36			
			Z	24 16			
			Z	25 26			
			Z	29 35			
			ZNE	30 51		22 10 32 9 79 10	
			NE	33 17			
			NE	39 50			
			Z	52			
AUG 03	04	54	32.7	29.6N 123.5E H 4 S DIR	18KM	6.4 RYUKYU IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 79 AE TE MAG
	KRP	EP	ZNE	05 05 28			
	MSZ	EP	Z	05 05 36			
	MJZ	EP	Z	05 06 39			
	WEL	EP	ZNE	05 05 40		-0.52	6.4
			ZNE	15 31			
			ZNE	21 44			

	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 03	06	29	05.8	16.5N 122.3E H 4 S DIR	74KM	5.9 LUZON LOG <sub>a</sub> /T AZ TZ AN TN	WEL 75 AE TE MAG
	KRP	EP	ZNE	06 35 36			
	MSZ	EP	Z	06 35 39			
	MJZ	EP	ZNE	06 35 44			
	MNG	EP	Z	06 35 47			
AUG 04	02	50	07.0	9.2S 159.8E H 4 S DIR	147KM	4.8 SOLOMON IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 35 AE TE MAG
	COB	EP	Z	02 57 17			
	MNG	P	Z	02 57 20			
AUG 04	03	52	31.5	19.2S 169.2E H 4 S DIR	133KM	4.0 NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 23 AE TE MAG
	MNG	EP	Z	03 57 19			
AUG 04	11	41	24.8	6.6N 125.8E H 4 S DIR	107KM	5.7 MINDANAO LOG <sub>a</sub> /T AZ TZ AN TN	WEL 65 AE TE MAG
	MSZ	EP	Z	11 51 42			
	KRP	EP	Z	11 51 49			
	WEL	EP	Z	12 00 23			
			Z	01 13			
			Z	05 01			
			Z	08 00			
			Z	12			
	MJZ	EP	Z	11 51 49			
	MNG	EP	Z	11 51 59			
AUG 05	09	54	42.0	20.6S 173.7W H 4 S DIR	567KM	4.1 FIJI REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 21 AE TE MAG
	KRP	P	ZNE	05 58 18			
	GNZ	EP	Z	05 58 20			
	MNG	EP	Z	05 58 40			
AUG 05	16	17	04.8	33.3N 132.2E H 4 S DIR	41KM	5.3 SHIKOKU LOG <sub>a</sub> /T AZ TZ AN TN	WEL 84 AE TE MAG
	KRP	P	ZNE	16 29 20			
	MNG	P	Z	16 29 29			
	WEL	IP	ZNE	16 29 31.7 U		-0.25	7.0
	MSZ	P	Z	16 29 35			
	MNW	EP	Z	16 29 37			
AUG 06	04	21	03.2	33.4N 132.2E H 4 S DIR	43KM	5.1 SHIKOKU LOG <sub>a</sub> /T AZ TZ AN TN	WEL 84 AE TE MAG
	MSZ	EP	Z	04 33 31			
AUG 06	13	39	03.7	5.7S 154.1E H 4 S DIR	57KM	4.9 SOLOMON IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 40 AE TE MAG
	KRP	P	ZNE	13 43 04			
	COB	P	Z	13 43 16			
	MNG	EP	Z	13 43 23			
	MSZ	P	Z	13 43 31			
AUG 07	03	52	08.0	31.6S 173.1W H 4 S DIR	33KM	4.4 KERMADEC REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 11 AE TE MAG
	KRP	EP	ZNE	03 54 54			



	MNG	EP	Z	03 55 17															
	WEL	ES	ZNE	03 55 28															
AUG 07	KRP	EP	Z	07 25 16															
	MNG	EP	Z	07 25 38															
AUG 07		H M S	EPICENTRE	DEPTH	MAG														
		08 00 13.4	43.1N 144.6E	54KM	5.6	HOKKAIDO													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	ZNE	08 13 03															
	MNG	EP	Z	08 12 59															
		EP	Z	13 14															
AUG 07		H M S	EPICENTRE	DEPTH	MAG														
		12 03 12.0	9.3S 159.0E	12KM	4.8	SOLOMON IS													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	MNG	EP	Z	12 10 20															
AUG 08		H M S	EPICENTRE	DEPTH	MAG														
		04 55 10.0	36.4N 141.4E	41KM	5.4	HONSHU													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	ZNE	05 07 20															
	MNG	EP	Z	05 07 33															
AUG 08		H M S	EPICENTRE	DEPTH	MAG														
		13 38 18.8	23.7S 180.0W	527KM	4.4	S. OF FIJI													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	ZNE	13 42 04															
		ES	NE	44 45															
	GNZ	EP	Z	13 42 09															
	MNG	EP	Z	13 42 37															
		ES	Z	43 15															
		SC	Z	49 29															
	COB	ES	ZNE	13 45 40															
AUG 08		H M S	EPICENTRE	DEPTH	MAG														
		22 10 18.5	13.8S 166.6E	44KM	4.8	NEW HEBRIDES													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	ZNE	22 15 01															
	MNG	EP	Z	22 15 23															
	MSZ	P	Z	22 15 51															
AUG 08	CNZ	P	Z	22 44 11															
	KRP	EP	Z	22 44 30															
	MNG	EP	Z	22 44 39															
AUG 09		H M S	EPICENTRE	DEPTH	MAG														
		03 08 04.2	22.48 113.0W	33KM	5.4	NEAR EASTER IS.													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	ZNE	03 13 12															
	MNG	EP	Z	03 19 22															
	COB	EP	Z	03 19 35															
	MSZ	EP	Z	03 19 57															
AUG 09		H M S	EPICENTRE	DEPTH	MAG														
		06 50 10.9	32.2S 71.8W	31KM	4.7	CHILE													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	MNG	EP	Z	07 03 24															
	CNZ	EP	Z	07 03 28															
	COB	EP	Z	07 03 30															
	KRP	EP	Z	07 03 31															
AUG 09		H M S	EPICENTRE	DEPTH	MAG														
		07 13 24.9	32.3S 71.6W	53KM	4.4	CHILE													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	MNG	EP	Z	07 25 55															
	KRP	EP	Z	07 25 01															

	H	M	S	EPICENTRE	DEPTH	MAG													
	17	59	00.6	22.7S 173.2W	46KM	4.7	TONGA REGION												
AUG 09				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN												
	MNG	EP	Z	18 03 21															
	ES	Z	06 43																
AUG 10		H M S	EPICENTRE	DEPTH	MAG														
		01 41 49.0	15.4S 177.7W	399KM	4.5	FIJI REGION													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	P	Z	01 46 22															
	GNZ	EP	Z	01 46 24															
	MNG	EP	Z	01 46 42															
	COB	EP	Z	01 46 53															
AUG 10		H M S	EPICENTRE	DEPTH	MAG														
		02 07 04.3	1.4N 125.2E	33KM	6.3	MOLUCCAS													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	MNW	EP	Z	02 17 05															
	COB	EP	Z	02 17 07															
	KRP	P	Z	02 17 10															
		ES	Z	25 31															
		ES	Z	38															
		ES	Z	27 08															
		ES	Z	13															
		ES	Z	46 43															
	WEL	EP	ZNE	02 17 19															
	EP	Z	17 43																
	EP	ZNE	46 45																
	MNG	EP	Z	02 17 16															
	EP	Z	19 38																
AUG 10	MNG	EP	Z	02 52 53															
	CNZ	EP	Z	02 52 59															
	WEL	EP	ZNE	02 52 59															
	KRP	EP	Z	02 53 05															
	MNW	EP	Z	02 53 32															
AUG 10		H M S	EPICENTRE	DEPTH	MAG														
		03 47 12.0	1.4N 125.4E	33KM	5.2	MOLUCCAS													
			H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ AN TN													
	KRP	EP	Z	03 57 40															
	MNG	EP	Z	03 57 53															
AUG 10		H M S	EPICENTRE	DEPTH	MAG														
		03 57 09.6	1.3N 125.6E	33KM	4.6	MOLUCCAS													
			H 1 S	DIR	LOG														











DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 15	04	13	00.9	0.6N 119.9E	33KM	5.3 HALMAHERA	WEL 65
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	04 23 19			
AUG 15	05	05	18.3	1.6N 125.2E	33KM	5.3 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	05 15 17			
	COB	EP	Z	05 13 21			
	KRP	EP	Z	05 13 24			
	MNG	EP	Z	05 13 31			
AUG 15	06	50	38.7	23.8S 177.4W	198KM	5.5 S. OF FIJI	WEL 19
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	06 54 02			
	KRP	EP	Z	06 54 07			
	ES	EP	Z	06 55 56			
	MNG	EP	Z	06 54 27			
	ES	EP	Z	06 57 30			
	ESCP	EP	Z	07 02 22			
	EPCS	EP	Z	07 03 38			
	ESCS	EP	Z	07 05 57			
	WEL	EP	Z	06 54 41			
	COB	EP	Z	06 54 45			
	MSZ	EP	Z	06 55 37			
	MNW	EP	Z	06 55 47			
AUG 15	11	40	27.5	0.2S 120.0E	11KM	5.3 HALMAHERA	WEL 64
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	COB	EP	Z	11 50 54			
	KRP	EP	Z	11 51 00			
	MNG	EP	Z	11 51 04			
AUG 15	17	41	28.1	12.7S 166.2E	4KM	5.4 SANTA CRUZ IS	WEL 29
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	17 47 10			
	MNG	EP	Z	17 47 30			
	COB	EP	Z	17 47 30			
	MSZ	EP	Z	17 47 57			
AUG 15	19	20	15.3	6.3S 154.8E	76KM	5.1 SOLOMON IS	WEL 38
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	19 27 18			
	MNG	EP	Z	19 27 34			
	MSZ	EP	Z	19 27 44			
AUG 15	21	26	00.0	0.1N 120.0E	33KM	5.3 HALMAHERA	WEL 64
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	21 36 30			
	WEL	EP	Z	21 36 33			
	MNG	EP	Z	21 36 34			
AUG 16	03	32	04.9	21.8S 179.5W	629KM	4.6 FIJI REGION	WEL 20
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	03 35 43			
	COB	EP	Z	03 35 59			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 16	09	20	47.9	16.2S 174.7W	203KM	4.2 TONGA	WEL 27
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	09 23 41			
	COB	EP	Z	09 26 14			
AUG 16	10	13	38.2	37.7S 26.5W	134KM	5.4 SOUTH SANDWICH IS	WEL 80
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	P	Z	10 23 19			
	MNG	EP	Z	10 23 35			
	KRP	EP	Z	10 23 48			
AUG 16	10	39	16.8	38.5N 143.3E	22KM	5.6 E. OF HONSHU	WEL 84
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	10 51 35			
	MNG	EP	Z	10 51 46			
AUG 16	11	08	38.5	1.2N 125.0E	33KM	5.0 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	11 18 36			
	COB	EP	Z	11 19 41			
	KRP	EP	Z	11 19 43			
	MNG	EP	Z	11 19 51			
AUG 16	11	34	16.4	21.1S 179.3W	640KM	5.1 FIJI REGION	WEL 21
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	ONE	EP	E	11 37 33			
	KRP	IP	Z	11 37 45.9 DN			
	ES	EP	Z	11 40 42			
	GNZ	EP	Z	11 37 45			
	MNG	EP	Z	11 38 05			
	ESCP	EP	Z	11 44 32			
	ESCS	EP	Z	11 48 08			
	WEL	P	Z	11 38 12			
	COB	IP	Z	11 38 17.2 U			
	MSZ	EP	Z	11 38 59			
	MNW	EP	Z	11 39 09			
AUG 16	MNG	EP	Z	20 23 23			
AUG 17	04	00	36.3	1.4N 126.3E	33KM	5.7 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	04 10 34			
	MNW	EP	Z	04 10 37			
	COB	EP	Z	04 10 38			
	EP	EP	Z	04 11 27			
	KRP	EP	Z	04 10 40		-0.54	6.7
	WEL	EP	Z	04 10 38			
	TUA	P	Z	04 10 50			
AUG 17	04	38	06.4	31.6N 140.8E	92KM	5.3 S. OF HONSHU	WEL 79
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	P	Z	04 49 49			
	COB	EP	Z	04 49 57			
	MSZ	P	Z	04 50 08			
AUG 17	06	43	09.9	17.3S 173.0W	33KM	4.5 TONGA	WEL 26
				H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	06 49 01			



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 17	14	39	28.8	4.8S 103.3E	39KM	5.4 S. SUMATRA	WEL 73
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	14 50 25			
	COB	EP	Z	14 50 42			
AUG 17	18	47	29.0	2.1N 126.7E	33KM	5.1 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	18 57 30			
AUG 18	05	31	39.4	7.1S 143.4E	56KM	5.0 NEW GUINEA	WEL 41
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	05 39 05			
	MSZ	EP	Z	05 39 20			
	MNH	EP	Z	05 39 26			
AUG 18	05	43	37.7	1.4N 126.4E	33KM	5.4 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MNH	EP	Z	05 53 56			
	MSZ	EP	Z	05 53 56			
	COB	EP	Z	05 53 59			
	KRP	EP	ZNE	05 54 01			
AUG 18	07	12	19.3	35.3N 135.3E	33KM	5.0 S. HONSHU	WEL 84
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	07 24 53			
AUG 18	15	19	27.6	11.0S 162.2E	57KM	4.8 SOLOMON IS	WEL 32
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	15 26 13			
AUG 18	16	44	20.4	12.5S 166.3E	16KM	4.6 SANTA CRUZ IS	WEL 30
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	16 50 48			
AUG 18	17	35	37.4	1.5N 126.0E	33KM	5.2 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	P	Z	17 43 36			
	COB	EP	Z	17 43 41			
	KRP	EP	Z	17 43 43			
	MNG	EP	Z	17 45 49			
AUG 18	18	08	35.3	12.7S 166.2E	34KM	5.2 SANTA CRUZ IS	WEL 29
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	18 14 32			
	COB	EP	Z	18 14 37			
	MSZ	EP	Z	18 14 59			
AUG 18	18	29	21.8	12.6S 166.3E	38KM	4.7 FIJI REGION	WEL 29
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	18 33 19			
	MSZ	EP	Z	18 33 45			
AUG 18	18	38	30.6	10.1S 159.9E	538KM	6.2 SOLOMON IS	WEL 34
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	KRP	P	ZNE	18 44 04.9			
	E=PP		Z	45 36			

	PP	Z	MAG	DIST (DEG)			
	ZNE	50					
	E	46 45					
	PCP	53.7					
	S	43 36					
	SCP	49 38.1					
	SS	51 28					
	SCS	53 40					
	Z	18 44 20					
	COB	46 56					
	E=PCP	53 47					
	ESCS	46 02					
	E(=PP)	49 11					
	ES	42					
	ESCP	18 44 23					
	MNG	49 09					
	ES	18 44 25					
	WEL	49 10					
	ESCS	53 47					
	MSZ	18 44 39					
	EP	49 35					
	ESCS	54 00					
	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 18	18	56	48.2	1.2N 126.1E	33KM	5.7 MOLUCCAS	WEL 61
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	19 05 46			
	COB	EP	Z	19 05 51			
	KRP	P	ZNE	19 05 53			
	MNG	EP	Z	19 07 00			
	KRP	EP	ZNE	19 09 35			
	MNG	EP	Z	19 09 53			
	ES		Z	12 34			
	WEL	ES	ZNE	19 12 56			
	COB	ES	Z	19 13 10			
	MSZ	EP	Z	19 11 09			
	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 19	15	42	29.7	15.9S 174.0W	151KM	5.3 TONGA	WEL 27
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	15 47 30			
	KRP	EP	ZNE	15 47 30			
	WEL	EP	ZNE	15 47 57			
	COB	EP	Z	15 48 02			
	MSZ	EP	Z	15 48 45			
	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 20	03	15	46.1	31.1S 179.9E	361KM	4.8 KERMADOC REGION	WEL 11
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	EGZ	EP	Z	03 17 25			
	EW		Z	18 38			
	KRP	EP	ZNE	03 17 36			
	MNG	EP	Z	03 17 58			
	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 20	08	03	22.7	25.2S 179.9W	448KM	4.3 S. OF FIJI	WEL 17
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	08 06 18			
	MNG	EP	Z	08 05 42			
	ES		Z	09 26			
	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 20	11	16	39.3	5.6N 146.9E	33KM	5.6 CAROLINE IS	WEL 53
				H 1 S	DIR	LOG <sub>a</sub> /A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	11 25 57			
	MNG	EP	Z	11 25 12			
	MNH	EP	Z	11 25 23			



	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)
				H 1 S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN TN	WEL 25
				ZNE						AE TE MAG
AUG 26	09	25	08.7	16.3S 173.0E	25KM	5.7	FIJI			
	KRP	EP		Z 16 10 32						
	MNG	EP		Z 16 10 37						
	E			Z 11 00						
AUG 26	20	24	28.3	21.3S 172.5W	671KM	4.2	FIJI REGION			
	KRP	EP		Z 20 27 54						
AUG 27	06	53	41.4	19.2S 177.7W	631KM	4.0	FIJI REGION			
	KRP	P		ZNE 06 57 31						
	QZB	EP		Z 06 58 55						
AUG 27	12	56	11.1	15.1S 173.5W	45KM	4.5	TONGA			
	KRP	P		Z 13 31 30						
	MNG	EP		Z 13 31 49						
AUG 27	13	45	47.8	12.3N 144.3E	16KM	5.6	S. OF CAROLINE IS			
	KRP	EP		ZNE 13 55 41						
	COB	EP		Z 13 55 50						
	MNG	P		Z 13 55 54						
	WEL	P		ZNE 13 55 56						
AUG 28	10	48	47.4	17.7S 179.9W	580KM	4.3	FIJI REGION			
	KRP	EP		Z 10 52 49						
	COB	EP		Z 10 53 20						
AUG 28	11	50	30.4	20.0S 175.3E	36KM	5.7	S. OF FIJI			
	KRP	EP		ZNE 11 54 40						
	GNZ	EP		Z 11 54 46						
	CNZ	EP		Z 11 54 59						
	MNG	EP		Z 11 55 07						
	WEL	EP		Z 11 55 15						
	COB	EP		Z 11 55 17						
	HJZ	EP		ZNE 11 55 48						
AUG 28	15	05	31.5	14.7S 167.3E	123KM	4.8	NEW HEBRIDES			
	KRP	EP		ZNE 15 10 39						
	MNG	EP		Z 15 11 01						
	COB	EP		Z 15 11 02						
	HJZ	EP		Z 15 11 25						
AUG 28	15	28	05.1	5.3S 145.5E	80KM	4.5	NEW GUINEA			
	KRP	EP		Z 15 33 56						
	MNG	EP		Z 15 36 08						
AUG 28	GNZ	P		Z 19 26 29.6						
	ES			Z 27 55						

	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)
				H 1 S	DIR	LOG <sub>a</sub> A/T	AZ	TZ	AN TN	WEL 25
				ZNE						AE TE MAG
	MNG	EP		Z 19 26 51						
	COB	EP		Z 19 27 01						
AUG 28	20	42	16.7	15.5N 122.0E	14KM	5.7	PHILIPPINES			
	KRP	EP		Z 20 53 50						
	COB	EP		Z 20 53 51						
	CNZ	EP		Z 20 53 53						
	MNG	EP		Z 20 53 57						
AUG 29	14	26	22.9	5.4S 143.5E	86KM	5.8	NEW GUINEA			
	KRP	P		Z 14 34 11						
	MNG	P		Z 14 34 25						
AUG 29	KRP	EP		ZNE 23 48 44						
AUG 30	12	32	08.9	23.5S 179.6W	441KM	4.5	S. OF FIJI			
	KRP	P		ZNE 12 36 17						
	COB	EP		Z 12 36 49						
	MNG	EP		Z 12 37 42						
AUG 30	13	31	32.5	6.7S 155.0E	62KM	4.7	SOLOMON IS			
	MNG	EP		Z 13 38 48						
AUG 31	08	48	44.7	22.9S 172.9E	30KM	4.9	LOYALTY IS			
	KRP	EP		Z 08 52 23						
	MNG	EP		Z 08 52 49						
AUG 31	10	47	37.4	34.0N 59.0E	13KM	6.0	IRAN			
	COB	E		Z 11 06 42						
	E			Z 51						
	MNG	EPKP		Z 11 06 51						
	KRP	E		Z 11 06 52						
	PKP			ZNE 55						
AUG 31	17	09	15.0	26.1S 178.1E	634KM	4.4	S. OF FIJI			
	KRP	EP		ZNE 17 11 54						
	MNG	EP		Z 17 12 17						
	WEL	EP		ZNE 17 12 26						
	COB	EP		Z 17 12 28						
AUG 31	19	54	35.0	18.4S 177.7W	379KM	5.0	FIJI REGION			
	KRP	P		ZNE 19 53 46						
	TUA	ES		Z 20 02 33						
	TNZ	EP		Z 19 59 01						
	MNG	EP		Z 19 59 06						
	WEL	EP		Z 19 59 14						
	COB	EP		Z 19 59 18						
	MNG	EP		Z 20 00 10						



	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)
SEP 01	00	24	06.7	30.7S 179.3W	29KM	5.2	KERMADEC IS			WEL 12
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	ECZ	EP	Z	00 25 58						
			Z	27 27						
	ONE	EP	Z	00 25 13						
			Z	27 59						
	MNG	EP	Z	00 26 44						
			Z	23 43						
	COB	EP	Z	00 27 06						
			Z	29 25						
SEP 01	20	39	20.6	23.7S 179.7E	633KM	4.5	S. OF FIJI			WEL 18
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	KRP	EP	Z	20 42 20						
			Z	20 42 24						
			Z	45 32						
	TNZ	EP	Z	20 42 39						
			Z	20 42 52		-0.71				
	WEL	EP	Z	20 42 55						5.6
	COB	EP	Z	20 42 55						
	MNW	EP	Z	20 43 48		-1.24				5.3
SEP 02	07	57	44.6	17.5S 173.2W	33KM	3.9	TONGA			WEL 26
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	KRP	IP	Z	08 02 47.7		-1.35				5.1
SEP 02	15	20	43.9	31.1S 179.6W	117KM	4.8	KERMADEC IS			WEL 11
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	GNZ	EP	Z	15 22 40		-1.08				
			Z	24 08						
	KRP	EP	Z	15 22 44						
			Z	15 24 16						
	WEL	EP	Z	15 23 20						
			Z	25 22						
	COB	EP	Z	15 23 30						
			Z	25 36						
	CIZ	EP	Z	15 24 02						
			Z	25 01						
	HJZ	EP	Z	15 24 16						
			Z	25 52						
SEP 02	16	04	20.2	9.7N 125.3E	90KM	5.0	MINDANAO			WEL 88
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	HJZ	EP	Z	16 13 09						
SEP 02	17	06	08.5	29.3S 179.3E	605KM	4.4	S. OF FIJI			WEL 16
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	KRP	EP	Z	17 09 43		-1.29				
SEP 03	08	19	02.2	41.8N 32.3E	5KM	5.7	TURKEY			WEL 192
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG
	HJZ	IPKP	Z	08 39 43.0						
	COB	EPKP	Z	08 39 44						
	WEL	IPKP	Z	08 39 48.2						
		ESSS	Z	09 03 50						
		ESS?	Z	10 30						
		ELQ	Z	25						
		ELR	Z	31						
	KRP	IPKP	Z	08 39 49.2				15 21	4 21	10 21

	H	M	S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
SEP 03	23	30	13.6	17.7S 167.7E	11KM	4.9	NEW HEBRIDES			WEL 24	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	KRP	EP	Z	23 35 02							
	GNZ	EP	Z	23 35 22		-0.57				5.8	
	MNG	EP	Z	23 35 27							
SEP 04	08	37	11.8	1.4S 122.1E	441KM	5.6	SULAWESI			WEL 62	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	HJZ	P	Z	00 46 52							
	KRP	EP	Z	00 46 55		-1.15				5.4	
	WEL	P	Z	00 47 00		-0.71				5.9	
	GNZ	EP	Z	00 47 07		-0.91				5.7	
SEP 04	07	41	21.7	17.7S 167.6E	17KM	4.3	NEW HEBRIDES			WEL 24	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	KRP	EP	Z	07 46 10		-1.56				4.7	
	MNG	EP	Z	07 46 35							
SEP 04	07	57	09.4	22.7S 172.9E	34KM	4.4	LOYALTY IS			WEL 19	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	KRP	EP	Z	08 00 42							
	GNZ	EP	Z	08 01 01							
	WEL	EP	Z	08 01 25		-0.77		2 5		5.6	
		ES	NE	04 58							
		ELQ	Z	08 01 55					4 20	4 22	
	HJZ	EP	Z	08 01 55							
SEP 04	08	54	24.8	22.8S 172.9E	33KM	4.6	LOYALTY IS			WEL 18	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	KRP	EP	Z	08 57 59							
	GNZ	EP	Z	08 58 16		-0.93				5.2	
	WEL	EP	Z	08 58 39							
	HJZ	EP	Z	08 59 10							
		PP	Z	20							
SEP 04	12	07	07.9	17.9S 174.6W	126KM	4.3	TONGA			WEL 25	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	KRP	IP	Z	12 11 52.5		-1.21				5.1	
SEP 05	02	07	31.2	10.9S 165.0E	33KM	4.9	SANTA CRUZ IS			WEL 31	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	MNG	EP	Z	02 13 51							
SEP 05	02	43	02.6	45.1S 80.1W	33KM	5.0	S. CHILE			WEL 71	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	WEL	ES	Z	03 03 28							
		ELQ	Z	15					4 20	3 20	3 20
SEP 05	03	45	30.8	5.3S 153.8E	102KM		NEW IRELAND			WEL 40	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	MNG	IP	Z	03 52 56.5							
SEP 05	09	06	02.3	17.8S 167.9E	29KM	4.3	NEW HEBRIDES			WEL 24	
				H 1 S	DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN		AE TE MAG	
	MNG	EP	Z	09 12 01							



SEP 05	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	10 11 30.1	17.7S 167.8E	18KM	4.4 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 10 15 16			
	MNG EP	Z 10 15 39			
SEP 05	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	10 39 42.1	15.0S 174.6W	174KM	4.3 TONGA	WEL 28
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ P	Z 10 44 16		-1.01	5.3
	KRP P	ZNE 10 44 16.8		-0.97	5.6
	MNG EP	Z 10 44 35			
	COB EP	Z 10 44 48			
	MSZ EP	Z 10 45 30			
SEP 05	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 02 49.8	6.1S 142.8E	33KM	5.4 NEW GUINEA	WEL 45
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 17 10 53		-0.47	6.4
	COB EP	Z 17 10 56			
	MJZ EP	Z 17 11 09			
	MNG EP	Z 17 11 06			
SEP 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	03 21 46.1	17.8S 167.8E	24KM	5.1 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 03 26 44			
	GNZ EP	Z 03 26 58			
SEP 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	07 36 06.4	17.8S 167.8E	28KM	5.3 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP IP	ZNE 07 40 52.2 U		-0.98	5.3
	GNZ EP	Z 07 41 10			
	WEL EP	ZNE 07 41 22		-1.06	3 4 5.8
	ES	ZNE 45 22			3 13 5.3
	ELQ	ZNE 48			4 19 3 19 7 19
	MJZ EP	ZNE 07 41 43			
SEP 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	08 30 28.4	17.9S 167.6E	41KM	NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 08 35 26		-1.39	4.9
SEP 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	09 02 44.5	17.7S 167.9E	31KM	4.4 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 09 07 28			
SEP 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	19 22 47.8	31.0N 131.9E	39KM	5.7 KYUSHU	WEL 82
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP IP	ZNE 19 34 54.6 D		-0.85	6.3
	WEL P	Z 19 33 05		-0.76	6.4
	ES	ZNE 46 16			
	ELQ	ZNE 20 03			
	MJZ P	ZNE 19 39 08			
	MNW EP	Z 19 39 10			
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	02 01 46.2	19.0S 173.3W	649KM	4.6 FIJI REGION	WEL 23
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP IP	ZNE 02 03 45.0 D		-1.05	5.2
	GNZ EP	Z 02 03 46		-0.86	5.4
	MNG EP	Z 02 06 02			
	WEL IP	ZNE 02 06 13.3 D		-0.83	5.4
	COB EP	Z 02 06 16			

MJZ EP	ZNE 02 05 46				
MNW P	Z 02 07 08.6			-0.91	5.6
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	03 57 46.5	17.7S 167.8E	29KM	NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 04 02 33			
	MNG EP	Z 04 02 59			
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	04 00 10.8	18.0S 168.0E	19KM	3.9 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 04 03 24			
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	06 47 49.0	5.0S 145.6E	48KM	5.3 NEW GUINEA	WEL 45
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 06 55 53		-1.06	5.6
	MNG P	Z 06 55 07			
	GNZ EP	Z 06 55 08			
	MJZ P	ZNE 06 55 10			
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	15 52 43.6	58.4S 23.6W	48KM	5.5 S. SANDWICH IS	WEL 79
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNW EP	Z 16 03 59			
	COB EP	Z 16 04 16			
	MNG EP	Z 16 04 18			
	KRP P	ZNE 16 04 31.3		-1.24	5.9
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	23 14 00.7	17.7S 167.8E	20KM	NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 23 18 48		-1.45	4.8
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	23 15 42.7	17.9S 168.3E	33KM	4.6 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 23 20 27		-1.09	5.2
SEP 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	23 31 43.8	17.6S 167.8E	28KM	4.3 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 23 36 31		-1.35	4.9
	ESCP	ZNE 44 25			
SEP 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	00 16 38.0	17.6S 167.7E	20KM	5.0 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 00 21 26		-1.05	5.2
	GNZ EP	Z 00 21 41		-0.63	5.8
	COB EP	Z 00 21 54			
SEP 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	01 56 30.1	17.6S 167.8E	25KM	4.2 NEW HEBRIDES	WEL 24
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 02 01 19			
SEP 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	13 04 39.7	58.2S 26.6W	151KM	5.3 S. SANDWICH IS	WEL 79
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNW EP	Z 13 15 09			
	MSZ P	Z 13 15 14			
	COB EP	Z 13 15 31			
	KRP EP	ZNE 13 15 45		-1.31	5.5



	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 08	13	30	05.9	17.5S 167.8E	28KM	4.7	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	IP			ZNE 13 34 59.5	D	-0.72		5.6
GNZ	EP			Z 13 35 08		-0.87		5.5
COB	EP			Z 13 35 21				
SEP 08	14	27	33.8	17.6S 167.8E	26KM	4.3	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			Z 14 32 23				
SEP 08	14	55	19.0	17.5S 167.8E	33KM	4.3	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			Z 15 00 06				
SEP 08	15	12	23.8	3.7S 143.0E	29KM	6.0	BISMARCK SEA	WEL 47 AE TE MAG
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	IP			ZNE 15 20 41.2	D	-0.78		6.1
WEL	EP			ZNE 15 20 54		-0.39	4 6	6.5
EPP				ZNE 22 34				
ES				ZNE 27 42				
ELQ				NE 32				
ELR				ZNE 34				
MNW	EP			Z 15 21 01		-0.55		6.4
GNZ	EP			Z 15 21 09				
SEP 08	15	32	09.8	3.7S 143.0E	42KM	5.2	BISMARCK SEA	WEL 47 AE TE MAG
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			Z 15 40 29		-1.16		5.7
COB	EP			Z 15 40 40				
SEP 08	19	44	04.5	0.6N 121.9E	137KM	5.3	SULAWESI	WEL 63 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
MNW	EP			Z 19 54 06				
KRP	IP			Z 19 54 16.0	D	-1.09		6.0
				Z 54.5	U			
WEL	EP			Z 19 54 20		-0.81		6.2
GNZ	EP			Z 19 54 29				
SEP 08	23	01	20.6	17.6S 167.8E	32KM	4.2	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			Z 23 06 10				
SEP 09	02	13	02.1	17.6S 167.8E	31KM	4.6	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			ZNE 02 18 40		-1.51		4.8
SEP 09	02	34	33.0	17.5S 167.8E	28KM	4.6	NEW HEBRIDES	WEL 24 AE TE MAG
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			ZNE 02 39 21		-0.97		9.3
SEP 09	20	09	33.8	24.5S 179.7E	561KM	4.4	S. OF FIJI	WEL 17 AE TE MAG
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN	
KRP	EP			Z 20 09 33				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)	
SEP 10	02	23	37.2	5.3S 152.4E	49KM	5.1	NEW BRITAIN	WEL 41 AE TE MAG	
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
KRP	EP			Z 02 31 06					
MSZ	EP			Z 02 31 34					
MSZ	READING			MAY BE UP TO 2 SECS 1V ERROR - NO MINUTE MARKS					
SEP 10	05	25	01.6	3.7S 143.0E	47KM	5.3	BISMARCK SEA	WEL 47 AE TE MAG	
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
KRP	EP			Z 05 33 18					
SEP 10	05	40	00.0	3.6S 142.9E	41KM	5.2	BISMARCK SEA	WEL 47 AE TE MAG	
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
KRP	EP			Z 05 48 17					
COB	EP			Z 05 48 23					
SEP 10	21	23	48.0	18.6S 149.8E	126KM	5.3	MARIANA IS	WEL 34 AE TE MAG	
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
KRP	IP			ZNE 21 34 01.5	D	-0.81		5.9	
	PP			ZNE 32					
MNW	EP			Z 21 34 28					
	PP			Z 58					
GNZ	IP			Z 21 34 41.5	U				
WEL	EP			Z 21 34 47					
SEP 10	22	51	14.1	15.1S 177.4W	33KM	5.0	FIJI REGION	WEL 27 AE TE MAG	
				H 1 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
KRP	EP			ZNE 22 56 25		-0.66		5.7	
SEP 11	18	26	36.8	43.0S 75.2W	31KM	5.7	S. CHILE	WEL 75 AE TE MAG	
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
GNZ	EP			Z 18 38 17		-0.79		6.3	
WEL	EP			Z 18 38 19					
	ES			ZNE 47 53					
	ELQ			NE 58					
	ELR			NE 19 01					
HJZ	EP			ZNE 18 38 20					
KRP	EP			ZNE 18 38 28		-0.88		6.2	
SEP 12	22	44	06.5	21.6S 179.4W	639KM	5.9	FIJI REGION	WEL 20 AE TE MAG	
				H 4 S DIR			LOG <sub>A/T</sub> AZ TZ AN TN		
CRZ	IP			ZNE 22 47 12.8	U				
	ES			ZNE 49 48					
ONE	EP			B 22 47 19					
	ES			B 49 57					
	E			E 50 01					
AUC	EP			Z 22 47 26					
KRP	IP			ZNE 22 47 32.1	U	0.27		6.5	
	ES			ZNE 50 24					
	S			ZNE 27.7					
GNZ	EP			Z 22 47 32					
	IP			Z 34.0	U	0.59		6.8	
	E			Z 50 19					
	ES			Z 24					
TNZ	EP			Z 22 47 47					
	ES			Z 50 59					
CAZ	EP			Z 22 47 56.0					
WEL	EP			ZNE 22 48 00		0.47		6.8	
	PP			Z 50 33					
	ES			ZNE 51 05					
COB	EP			Z 22 48 03					



DATE	TIME	LOCATION	DEPTH (KM)	MAG	DIST (DEG)
		KAI	51 12		
		MSZ	16		
		EP	22 48 19		
		MSZ	51 41		
		EP	22 48 24		
		MSZ	52 50		
		EP	22 48 26		
		MSZ	51 51		
		EP	22 48 32.5		
		MSZ	22 48 50	-0.76	5.8
		EP	54 40		
		MSZ	22 48 57	0.02	6.3
SEP 13	05 01 30.3	EPICENTRE	30.8S 179.1W	30KM	5.0 KERMADEC IS
		DEPTH			DIST (DEG)
		MAG			WEL 12
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		CRZ EP	ZNE 05 03 45		
		EP	ZNE 05 16		
		MSZ	Z 05 03 50	-0.61	
		EP	Z 05 03 57	-0.03	
		MSZ	Z 05 03 06		
SEP 13	06 47 23.8	EPICENTRE	27.0S 175.5W	33KM	4.5 KERMADEC IS
		DEPTH			DIST (DEG)
		MAG			WEL 16
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		CRZ EP	ZNE 06 50 24		
		EP	ZNE 06 50 51		
SEP 13	12 49 54.8	EPICENTRE	11.1S 164.6E	59KM	5.4 SANTA CRUZ IS
		DEPTH			DIST (DEG)
		MAG			WEL 31
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	Z 13 53 47		
		EP	Z 13 53 57		
		MSZ	ZNE 13 55 35		
SEP 14	01 25 19.1	EPICENTRE	24.5S 80.4E	33KM	5.5 S. INDIAN OCEAN
		DEPTH			DIST (DEG)
		MAG			WEL 77
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	ZNE 01 37 23	-1.26	5.9
SEP 14	06 56 11.7	EPICENTRE	8.9S 124.0E	33KM	5.3 TIMOR
		DEPTH			DIST (DEG)
		MAG			WEL 95
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MJZ EP	ZNE 07 05 29		
		EP	ZNE 07 05 40		
		MSZ	ZNE 07 05 42	-0.98	6.1
		EP	Z 07 05 53		
SEP 14	13 48 31.2	EPICENTRE	28.4N 93.1E	33KM	5.8 S. IRAN
		DEPTH			DIST (DEG)
		MAG			WEL 131
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	Z 14 07 44		
		EP	Z 11 09		
SEP 15	03 09 29.6	EPICENTRE	6.4S 146.6E	111KM	5.2 NEW GUINEA
		DEPTH			DIST (DEG)
		MAG			WEL 43
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		COB EP	Z 03 17 11		
SEP 15	10 50 11.8	EPICENTRE	40.9N 143.2E	15KM	5.4 E. OF HONSHU
		DEPTH			DIST (DEG)
		MAG			WEL 87
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MSZ EP	Z 11 03 05		
SEP 15	11 58 36.0	EPICENTRE	1.3N 125.2E	33KM	5.2 MOLUCCAS
		DEPTH			DIST (DEG)
		MAG			WEL 61
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MSZ EP	Z 12 08 33.5 D		

DATE	TIME	LOCATION	DEPTH (KM)	MAG	DIST (DEG)
		COB EP	12 03 39		
SEP 15	17 27 21.8	EPICENTRE	1.8N 125.5E	33KM	5.1 MOLUCCAS
		DEPTH			DIST (DEG)
		MAG			WEL 61
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MSZ EP	Z 17 37 23		
SEP 15	18 00 09.9	EPICENTRE	22.7S 171.5E	36KM	LOYALTY IS
		DEPTH			DIST (DEG)
		MAG			WEL 19
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MSZ EP	Z 18 05 25		
SEP 16	13 55 36.1	EPICENTRE	6.1S 148.7E	59KM	5.8 NEW BRITAIN
		DEPTH			DIST (DEG)
		MAG			WEL 42
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	ZNE 14 03 08	-0.39	6.4
		EP	Z 14 03 23	-0.15	6.6
		MSZ	ZNE 14 03 25	USE -0.13	6.8
		EP	ZNE 09 20		
		MSZ	ZNE 09 34		
		EP	ZNE 12 54		
		MSZ	ZNE 15		87 20 60 20 129 20
		EP	Z 14 03 26		
		MSZ	ZNE 14 03 36		14 8 6.8
		EP	ZNE 09 58		
		MSZ	ZNE 13 20		
		EP	ZNE 16 20		81 21 121 21 67 20
		MSZ	ZNE 14 04 17		
		EP			APPARENT ARRIVAL AT 140312 ON LPEW AT WEL ASSUMED INSTRUMENTAL
SEP 16	14 11 29.4	EPICENTRE	17.4S 179.8W	59KM	5.1 FIJI REGION
		DEPTH			DIST (DEG)
		MAG			WEL 24
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	ZNE 14 15 33.0 D	-0.93	5.6
		EP	Z 14 15 33	-0.53	6.0
		MSZ	Z 18 53		
		EP	Z 59		
		MSZ	ZNE 14 15 01.2 D	-0.65	5.9
		EP	Z 14 15 03		
		MSZ	ZNE 14 15 23		
		EP	ZNE 14 15 31		
		MSZ	Z 14 15 46		
		EP	Z 14 15 48		
		MSZ	Z 14 15 55		
SEP 16	16 00 53.1	EPICENTRE	6.0S 148.8E	71KM	5.3 NEW BRITAIN
		DEPTH			DIST (DEG)
		MAG			WEL 42
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		KRP EP	ZNE 16 08 23		
		EP	Z 16 08 41		
		MSZ	ZNE 16 08 42		
		EP	ZNE 16 08 43		
SEP 17	14 23 57.7	EPICENTRE	16.1S 167.7E	39KM	4.6 NEW HEBRIDES
		DEPTH			DIST (DEG)
		MAG			WEL 26
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MNG EP	Z 14 29 23		
SEP 17	17 49 47.6	EPICENTRE	15.0S 175.7W	17KM	5.2 TONGA
		DEPTH			DIST (DEG)
		MAG			WEL 27
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		MNG EP	Z 17 53 28		
		MSZ	Z 17 54 08		
SEP 18	11 43 45.6	EPICENTRE	18.2S 167.1E	33KM	5.7 NEW HEBRIDES
		DEPTH			DIST (DEG)
		MAG			WEL 24
		LOG <sub>a</sub> A/T	AZ TZ AN TN		AE TE MAG
		GNZ EP	Z 11 43 49	-0.10	6.2







SEP 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
00 15 39.5	18.05 173.5W	592KM	4.7	FIJI REGION	WEL 24
KRP P	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
MJZ EP	ZNE 00 19 41		-1.35		5.2
	ZNE 00 20 42				
SEP 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
09 16 35.0	97.9S 23.5W	35KM	5.0	SOUTH SANDWICH IS	WEL 80
KRP P	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
	ZN 09 23 57		-1.21		6.0
	Z 10 52 23				
	Z 11 03 00				
	ZNE 03 58				
	ZNE 25				
SEP 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
10 38 38.4	15.6N 92.6W	138KM	5.7	CENTRAL AMERICA	WEL 102
WEL EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
EPP	Z 10 52 23			4 20	6.9
ESKS	Z 55 32				
ESP	Z 11 03 00				
ELR	ZNE 03 58				
	ZNE 25				
SEP 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
14 34 22.6	19.3S 173.9W	230KM	5.0	TONGA	WEL 23
GNZ EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
ES	Z 14 38 36		-0.34		6.1
KRP IP	ZNE 14 38 39.7 U		-1.13		5.3
ES	ZNE 42 12				
TNZ EP	Z 14 38 56				
MNG EP	Z 14 39 01				
WEL EP	Z 42 49				
ES	ZNE 14 39 09		-0.71		5.8
ES	ZNE 43 06				
COB EP	Z 14 39 14				
MJZ EP	Z 14 39 21				
MNH EP	Z 14 40 09				
SEP 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
20 52 15.9	39.2N 40.2E	47KM	5.1	TURKEY	WEL 146
KRP EPKP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
MNG EPKP	Z 21 11 50				
	Z 21 11 51				
SEP 26	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
02 39 56.5	19.3S 177.6W	560KM	5.2	FIJI REGION	WEL 23
ECZ EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
GNZ EP	Z 02 43 45		-0.43		6.1
KRP P	ZNE 02 43 50.5		-0.36		6.1
TUA EP	Z 02 43 52				
MNG P	Z 02 44 09.0				
WEL IP	ZNE 02 44 18.8 U		-0.46		6.0
COB P	Z 02 44 21.5				
MJZ EP	ZNE 02 44 50				
MNH EP	Z 02 45 15		-0.62		5.9
SEP 26	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
08 41 22.0	17.7S 173.5W	578KM	5.1	FIJI REGION	WEL 24
ONE EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
ECZ EP	Z 08 43 14				
KRP IP	ZNE 08 43 19		-0.51		6.1
GNZ EP	Z 08 43 26		-0.24		6.3
MNG P	Z 08 43 45.0				
WEL IP	ZNE 08 43 54.3 U		-0.51		6.0
COB EP	Z 08 43 57				
MJZ EP	ZNE 08 46 25				
MNH EP	Z 08 46 48				

SEP 26	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
14 37 46.2	20.9S 177.0W	251KM	5.8	FIJI REGION	WEL 21
ONE EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
ECZ EP	Z 14 41 27				
GNZ EP	Z 14 41 34				
KRP IP	Z 44 30				
ES	Z 14 41 41		-0.00		6.4
ES	Z 44 52				
KRP IP	ZNE 14 41 42.0 D		-0.25		6.1
ES	ZNE 45 00				
TUA EP	Z 14 41 45				
ES	Z 49 01				
MNG EP	Z 14 42 03				
ES	Z 45 33				
ES	Z 41				
CP	Z 49 21				
WEL EP	ZNE 14 42 14		-0.04		6.4
ES	ZNE 49 57				
COB EP	Z 14 42 18				
ES	Z 46 03				
CIZ EP	ZNE 14 42 32				
ES	Z 46 49				
MJZ EP	ZNE 14 42 49				
ES	Z 14 43 13		-0.37		6.1
SEP 26	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
16 25 47.1	4.7S 133.3E	14KM	5.5	WEST IRIAN	WEL 48
MNG EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
	Z 16 34 27				
SEP 26	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
18 02 50.1	30.5S 173.2W	33KM	5.8	KERMADEC REGION	WEL 12
ECZ EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
GNZ EP	Z 18 04 41				
ONE EP	Z 18 04 52		0.28		
ES	Z 06 29				
ES	Z 05 53				
TUA EP	Z 18 05 00				
ES	Z 05 36				
KRP EP	ZNE 18 05 01		-0.06		
ES	ZNE 06 47				
MNG EP	Z 18 05 26				
ES	Z 07 19				
ES	Z 28				
TNZ EP	Z 18 05 30				
WEL EP	ZNE 18 05 54		-0.36		
ES	ZNE 07 48				
COB EP	Z 18 05 55				
ES	Z 05 04				
CIZ EP	ZNE 18 05 57				
ES	ZNE 03 11				
KAI EP	N 18 06 23				
ES	N 03 46				
QPZ EP	N 18 06 24				
ES	N 08 52				
MJZ EP	ZNE 18 06 35				
ES	ZNE 09 25				
MNH EP	Z 18 07 06		-0.70		5.5
SEP 26	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
20 39 32.7	21.3S 173.4W	407KM	4.3	FIJI REGION	WEL 21
GNZ EP	H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	AE TE MAG
MNG EP	Z 20 46 06				
	Z 20 43 29				



SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	03 58 55.1	6.89 129.1E	127KM	6.1 BANDA SEA	WEL 33
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ IP	ZNE 04 07 50.6	D	-0.16	6.8
	KRP EP	ZNE 04 07 54.2		-0.20	6.6
	WEL EP	ZNE 04 05 00		-0.43	6.4
	GNZ EP	Z 04 05 06			
	CIZ EP	Z 04 05 49			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	16 41 07.6	30.75 173.2W	33KM	5.4 KERMADEC REGION	WEL 12
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	ECZ EP	Z 16 42 48		-0.11	
	KRP EP	ZNE 16 43 19		-0.82	
	WEL EP	ZNE 16 44 03			
	GNZ EP	ZNE 16 44 05			
	CIZ EP	ZNE 16 44 05			
	MJZ EP	ZNE 16 44 55			
	ES	ZNE 16 44 55			
	ELR	ZNE 16 44 55			
	EP	ZNE 16 44 55			
	EP	ZNE 16 44 55			
	EP	ZNE 16 44 55			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	16 58 06.7	3.75 143.3E	33KM	5.8 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 17 04 21			
	MNG EP	Z 17 04 34			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	19 06 42.2	3.75 143.3E	7KM	5.9 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 19 15 00		-0.52	6.4
	MJZ EP	ZNE 19 15 13		-0.79	6.2
	WEL EP	ZNE 19 15 14			
	ES	ZNE 22 05			
	EP	ZNE 29 52			
	ELR	ZNE 29			
	EP	Z 19 15 17		-0.41	6.6
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	20 58 06.6	3.85 143.2E	21KM	5.5 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 21 07 16			
	MNG EP	Z 21 07 28			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 17 09.6	3.75 143.3E	33KM	5.2 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 21 25 19			
	MNG EP	Z 21 25 28			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 55 36.2	3.85 143.5E	12KM	5.0 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 22 03 53			
	MNG EP	Z 22 04 04			
SEP 27	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	22 47 36.3	38.95 177.7W	33KM	4.6 KERMADEC REGION	WEL 12
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	ECZ EP	Z 22 49 28			
	ES	Z 22 49 49			
	KRP EP	ZNE 22 49 47		-1.12	
	MNG EP	Z 22 50 11			
	ES	Z 22 52 07			
	EP	ZNE 22 51 20			

SEP 28	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	07 38 25.5	3.65 143.2E	33KM	5.0 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 07 46 32			
	MNG EP	Z 07 46 52			
SEP 28	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	13 53 35.3	13.25 75.4W	70KM	6.0 PERU	WEL 95
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	WEL EP	Z 14 05 30			
	EPP	ZE 10 40			
	ESKS	NE 17 25			
	ELR	ZNE 37			
	EP	Z 14 05 56			6 20 3 20 4 20
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	00 28 54.8	15.55 173.8W	33KM	4.7 TONGA	WEL 28
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 00 31 14			
	EP	Z 00 31 24			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	12 43 39.9	15.55 167.3E	190KM	4.6 NEW HEBRIDES	WEL 26
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG P	Z 12 48 53.5			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	13 26 47.5	1.64 126.2E	33KM	5.4 MOLUCCAS	WEL 61
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ EP	ZNE 13 35 54			
	MNG EP	Z 13 37 00			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 18 23.8	3.75 143.4E	38KM	5.2 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG IP	Z 17 28 50.5			
	MJZ EP	ZNE 17 26 51			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 37 46.8	3.85 143.5E	46KM	5.2 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	COB EP	Z 17 46 05			
	MNG EP	Z 17 46 12			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	18 13 22.6	3.75 143.3E	39KM	4.9 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 18 21 31			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	19 41 40.9	7.35 128.4E	86KM	5.0 BANDA SEA	WEL 53
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ EP	ZNE 19 50 42			
	MNG EP	Z 19 50 56			
SEP 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 54 35.2	3.75 143.5E	44KM	5.4 BISMARCK SEA	WEL 47
		H 1 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	COB EP	Z 22 02 53			
	MNG EP	Z 22 03 01			
	MJZ EP	ZNE 22 03 02			
	GNZ EP	Z 22 03 04		-0.80	6.1



	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 29	22	42	06.0	3.7S 143.4E H 4 S	43KM DIR	5.2	BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 47 AE TE MAG
	COB	EP	Z	22 50 24				
	CNZ	EP	Z	22 50 27				
	MNG	EP	Z	22 50 32				
SEP 30	08	13	36.1	3.7S 143.4E H 4 S	33KM DIR	5.0	BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 47 AE TE MAG
	MNG	EP	Z	08 22 04				
SEP 30	10	43	24.0	15.1S 173.5W H 4 S	33KM DIR	4.9	TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 28 AE TE MAG 5.6
	GNZ	IP	Z	10 48 43.5				
	CNZ	EP	Z	10 48 53				
	MNG	EP	Z	10 49 04				
	COB	EP	Z	10 49 17				
SEP 30	11	37	24.2	29.5S 175.9W H 4 S	74KM DIR	4.8	KERMADEC IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 14 AE TE MAG
	GNZ	EP	Z	11 39 41				
	ES		Z	41 26				
	MNG	EP	Z	11 40 14				
	ES		Z	42 28				
	MJZ	EP	ZNE	11 41 00				
SEP 30	14	55	14.1	3.7S 143.6E H 4 S	33KM DIR	4.6	BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 47 AE TE MAG
	MNG	EP	Z	15 03 41				
SEP 30	18	43	15.6	30.7S 177.9W H 4 S	59KM DIR	4.4	KERMADEC REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 12 AE TE MAG
	GNZ	EP	Z	18 49 15				
	ES		Z	45 59				
	MNG	EP	Z	18 49 31				
	ES		Z	47 54				
OCT 01	00	59	02.1	18.7S 169.2E H 4 S	238KM DIR	4.4	NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 23 AE TE MAG
	MNG	P	Z	01 03 41				
OCT 01	12	27	21.2	3.6S 143.4E H 4 S	37KM DIR	5.2	BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 47 AE TE MAG
	CNZ	EP	Z	12 39 41				
	MNG	P	Z	12 39 48				
OCT 01	21	11	08.7	31.0S 177.5W H 4 S	19KM DIR	4.6	KERMADEC IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 12 AE TE MAG
	MNG	EP	Z	21 13 44				
	ES		Z	19 44				
	GNZ	ES	Z	21 14 45				
	MJZ	EP	Z	21 14 55				
OCT 02	13	21	56.5	17.6S 179.8W H 4 S	560KM DIR	4.4	FIJI REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 24 AE TE MAG
	GNZ	EP	Z	13 29 01				
	COB	EP	Z	13 25 30				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
OCT 02	14	40	42.5	25.2S 179.9E H 4 S	527KM DIR	4.3	S. OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 17 AE TE MAG
	GNZ	EP	Z	14 43 33				
	MNG	P	Z	14 43 59				
	ES		Z	46 37				
OCT 02	21	15	31.5	21.6S 175.8W H 4 S	300KM DIR	4.2	FIJI REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 21 AE TE MAG
	COB	EP	Z	21 19 54				
OCT 03	08	04	55.6	3.8S 129.5E H 4 S	97KM DIR	5.6	CERAM LOG <sub>a</sub> /T AZ TZ AN TN	WEL 56 AE TE MAG
	MNW	EP	Z	08 14 11				
	MNG	EP	Z	08 14 25				
OCT 03	23	23	29.0	3.8S 143.3E H 4 S	49KM DIR	5.0	BISMARCK SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 47 AE TE MAG
	COB	EP	Z	23 31 47				
	MNG	EP	Z	23 31 53				
OCT 04	04	57	58.8	20.0S 175.4W H 4 S	243KM DIR	4.0	TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 23 AE TE MAG
	MNG	EP	Z	05 02 28				
OCT 04	06	04	31.9	56.2S 27.0W H 4 S	63KM DIR	5.9	SOUTH SANDWICH IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 81 AE TE MAG
	MJZ	EP	Z	06 16 29				
	WEL	EP	Z	06 16 41				
	EPP		Z	19 26				
	ES		Z	43				
	COB	EP	Z	06 16 42				
	MNG	EP	Z	06 15 44				
	CNZ	EP	Z	06 15 51				
OCT 04	06	50	50.9	7.3S 129.7E H 4 S	52KM DIR	5.3	BANDA SEA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 92 AE TE MAG
	COB	EP	Z	06 59 49				
	MNG	EP	Z	06 59 59				
OCT 04	07	28	27.1	17.4S 172.8W H 4 S	33KM DIR	5.0	TONGA REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 26 AE TE MAG
	MNG	EP	Z	07 33 48				
	COB	EP	Z	07 33 55				
OCT 05	04	50	30.2	17.2S 174.2W H 4 S	160KM DIR	4.6	TONGA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 26 AE TE MAG
	GNZ	EP	Z	04 59 20				
	MNG	EP	Z	04 59 41				
	COB	EP	Z	04 59 52				
	I		Z	56				
OCT 05	06	05	41.5	33.5S 179.6W H 4 S	33KM DIR	4.1	S. OF KERMADEC IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 9 AE TE MAG
	ECZ	P	Z	06 05 51				
	GNZ	EP	Z	06 07 02				
	MNG	EP	Z	06 07 34				
	COB	EP	Z	06 07 57				



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)	
OCT 05	14	27	58.2	29.1S 179.6W	539KM	3.9 S. OF FIJI	WEL 17	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 14 31 21				
OCT 06	02	51	46.1	19.6S 173.2W	106KM	3.0 TONGA	WEL 28	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 02 57 19				
				Z 02 57 30				
				Z 02 59 21				
OCT 06	07	42	25.2	10.0N 93.7E	111KM	5.1 ANDAMAN IS	WEL 90	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 07 54 55		-0.86	6.1	
				Z 07 55 00				
				Z 07 55 06				
				Z 07 55 14				
OCT 06	08	47	02.0	14.7S 175.6W	35KM	5.4 SAMOA REGION	WEL 28	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 08 53 41				
OCT 06	19	40	26.2	31.7N 140.2E	109KM	5.2 S. OF HONSHU	WEL 79	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 19 52 19				
				Z 44				
OCT 07	00	24	13.0	3.2S 145.1E	19KM	5.0 BISHARCK SEA	WEL 46	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 00 32 34				
OCT 07	13	24	26.9	25.0S 179.4E	623KM	4.1 S. OF FIJI	WEL 17	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 13 27 37				
				Z 30 19				
OCT 07	19	20	20.3	26.3N 140.6E	516KM	6.1 BONIN IS	WEL 74	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				Z 19 31 01		-0.45	6.1	
				Z 32 49				
				Z 19 31 06		0.19	6.8	
				ZNE 32 46				
				ZNE 39 56				
				NE 48				
				ZNE 51				
				ZNE 19 31 09				
				ZNE 32 58				
				Z 19 31 15		-0.82	5.7	
				Z 33 04				
				ZNE 19 31 40				
				ZNE 33 29				
				ARRIVAL AT 193246 IS ON LPZ - SP ARRIVAL IS 8 SEC LATER				
OCT 07	20	49	01.3	42.0N 142.4E	32KM	5.7 HOKKAIDO	WEL 88	
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG	
				ZNE 21 01 39		-0.93	6.7	
				ZNE 21 01 50				
				ZNE 12 24				
				ZNE 30				
						17 20 13 20	7 20	

	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 07	23	47	49.6	15.5N 146.8E	33KM	5.0 MARIANA IS	WEL 62
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 23 58 04			
OCT 08	00	50	41.8	35.6N 139.9E	76KM	5.3 S. OF HONSHU	WEL 83
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 01 02 42		-1.05	5.9
				Z 01 02 57.0 D			
OCT 08	07	43	23.1	39.9S 87.7E	33KM	6.0 S. INDIAN OCEAN	WEL 63
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 07 53 05			
				ZNE 07 53 44			3 8 6.5
				ZNE 08 02 18			
				NE 10			
				ZNE 13			
				ZNE 07 54 04		-0.51	6.7
				Z 07 54 15		-0.41	6.8
OCT 08	14	53	38.5	23.3S 66.5W	221KM	5.6 ANDES	WEL 94
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 15 06 39			
OCT 09	03	38	39.9	14.7S 175.5W	11KM	5.2 SAMOA REGION	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				ZNE 03 44 02		-1.18	9.3
OCT 09	17	10	37.2	19.0S 175.5W	33KM	5.0 TONGA	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 17 15 59			
OCT 10	15	05	37.1	6.0S 143.6E	72KM	5.0 NEW BRITAIN	WEL 42
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				ZNE 15 13 09.5		-1.00	9.8
				Z 15 13 34.8		0.00	6.8
				ZNE 15 13 39.1		-0.15	6.6
				ZNE 15 13 39			
OCT 10	15	05	51.7	6.0S 148.6E	70KM	5.1 NEW BRITAIN	WEL 42
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				ZNE 15 13 09.5		-1.00	9.8
				ZNE 15 27.5			
				Z 15 13 23			
				ZNE 15 13 25			
				ZNE 15 13 28			
OCT 11	15	13	14.4	30.7S 177.5W	50KM	4.7 KERMADEC IS	WEL 12
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
				Z 15 15 11			
				Z 15 54			
				ZNE 15 15 29			
				Z 15 15 46			
				Z 17 48			



OCT 11	H M S	EPICENTRE			DEPTH	MAG	4.8 KERMADEC IS	DIST (DEG)				
		30.5S	173.0W	99KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	17 11 44.4	Z	17 13 39									
GNZ	EP	Z	13 20									
		Z	36									
KRP	EP	ZNE	17 13 54									
MNG	EP	Z	17 14 15									
		Z	15 19									
COB	EP	Z	17 14 46									
		Z	15 56									

OCT 12	H M S	EPICENTRE			DEPTH	MAG	3.7 FIJI REGION	DIST (DEG)				
		20.9S	173.8W	607KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	19 17 39.9	E	19 21 01									
ONE	P	E	23 46									
		Z	19 21 08									
ECZ	EP	Z	23 56									
		Z	27 58									
AUC	IP	Z	19 21 10	U								
KRP	IP	ZNE	19 21 15.0	U	0.34						6.7	
		Z	24 18									
		Z	27 57									
GNZ	EP	Z	19 21 15		0.26							6.6
		Z	24 08									
		Z	19									
		Z	27 59									
		Z	31 47									
TUA	P	Z	19 21 17									
		Z	24 09									
		Z	20									
		Z	27 59									
		Z	31 42									
TNZ	EP	Z	19 21 29									
MNG	EP	Z	19 21 34									
		Z	24 43									
		Z	29 03.5	U								
		Z	31 40									
CAZ	P	Z	19 21 36									
		Z	24 54									
WEL	EP	ZNE	19 21 43		0.25							4.7
		ZNE	24 59									
		ZNE	29 06									
		ZNE	31 45									
COB	P	Z	19 21 46									
		Z	29 02									
		Z	07									
KAI	P	X	19 22 03									
		X	25 31									
		X	37									
CIZ	P	ZNE	19 22 09									
GPZ	EP	N	19 22 09									
		N	25 42									
ROX	EP	Z	19 22 33									
		Z	29 22									
MNW	EP	Z	19 22 39									
		Z	24 18									

OCT 12	H M S	EPICENTRE			DEPTH	MAG	4.0 TONGA	DIST (DEG)				
		17.2S	173.0W	174KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	20 26 22.9	Z	20 31 08									
GNZ	EP	Z	20 31 09									
KRP	EP	Z	20 31 09									
MNG	EP	Z	20 31 31									

OCT 13	H M S	EPICENTRE			DEPTH	MAG	4.8 KERMADEC REGION	DIST (DEG)				
		30.6S	173.2W	60KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	08 05 09.3	H	08 06 54									
ECZ	EP	Z	08 03 19									
		Z	08 07 19									
KRP	EP	ZNE	08 07 19		-1.26							
MNG	EP	Z	08 07 41									
		Z	09 44									
COB	EP	Z	08 03 08									
		Z	10 20									
CIZ	EP	ZNE	08 03 25									
		ZNE	10 31									

OCT 13	H M S	EPICENTRE			DEPTH	MAG	4.2 FIJI REGION	DIST (DEG)				
		19.6S	177.7W	338KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	19 50 52.9	H	19 54 53.5									
KRP	IP	ZNE	19 54 53.5	D	-1.16							5.0
MNG	EP	Z	19 55 12									

OCT 15	H M S	EPICENTRE			DEPTH	MAG	5.3 S, SUMATRA	DIST (DEG)				
		0.5S	100.6E	98KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	02 10 34.4	H	02 21 59									
MNW	EP	Z	02 21 59									
COB	EP	Z	02 22 13									
MNG	P	Z	02 22 24									

OCT 15	H M S	EPICENTRE			DEPTH	MAG	NEW HEBRIDES	DIST (DEG)				
		11.36	168.4E	52KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	11 36 12.4	H	11 41 20									
MNG	EP	Z	11 41 20									
GNZ	EP	Z	11 41 57									

OCT 15	H M S	EPICENTRE			DEPTH	MAG	5.2 MINDANAO	DIST (DEG)				
		9.0N	126.3E	63KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	20 09 08.7	H	20 19 47									
KRP	EP	ZNE	20 19 47		-1.11							6.0
MNW	EP	Z	20 19 48									
MJZ	P	ZNE	20 19 51.0									
MNG	EP	Z	20 19 54									

OCT 16	H M S	EPICENTRE			DEPTH	MAG	5.6 RYUKYU IS	DIST (DEG)				
		29.3N	129.4E	13KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	07 45 46.8	H	07 57 56									
KRP	EP	Z	07 57 56									

OCT 17	H M S	EPICENTRE			DEPTH	MAG	5.3 NEW IRELAND	DIST (DEG)				
		3.8S	152.2E	22KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	05 09 06.2	H	05 16 43									
KRP	EP	ZNE	05 16 43		-0.73							6.0
		Z	49									
		ZNE	19 58									
WEL	EP	ZNE	05 17 07		-0.43							6.3
		ZNE	23 23									
MJZ	EP	ZNE	05 17 07									
MNW	EP	Z	05 17 23									

OCT 17	H M S	EPICENTRE			DEPTH	MAG	4.9 NEW GUINEA	DIST (DEG)				
		5.8S	146.6E	73KM				DIR	LOG <sub>a</sub> /T	AZ TZ	AN TN	AE TE
	15 40 16.0	H	15 47 58.5									
KRP	P	ZNE	15 47 58.5		-1.15							5.6
GNZ	EP	Z	15 48 13									
MNG	IP	Z	15 48 13.0	U								
MJZ	P	ZNE	15 48 14									
CIZ	EP	Z	15 48 31									



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 17	22	08	12.1	23.7S 179.8W	450KM	3.8 S. OF FIJI	WEL 18
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	IP	Z	22 11 25.6		-1.31	
	MNG	EP	Z	22 11 47			
	ES		Z	14 36			
OCT 17	23	13	40.4	28.4S 177.0W	151KM	4.5 KERMADEC IS	WEL 15
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	23 17 58			
	KRP	EP	ZNE	23 15 06			
	MNG	EP	Z	23 15 28			
OCT 18	03	26	20.3	63.3S 165.8W	33KM	4.7 PACIFIC-ANTARCTIC R.	WEL 25
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	03 31 16			
	MNG	EP	Z	03 31 45			
OCT 18	03	57	50.6	63.2S 165.6W	33KM	4.9 PACIFIC-ANTARCTIC R.	WEL 25
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ	EP	Z	04 03 02			
	MNG	EP	Z	04 03 17			
OCT 18	11	20	55.0	1.2N 125.7E	11KM	5.3 MOLUCCAS	WEL 61
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	11 30 53			
	KRP	EP	Z	11 31 00			
	MJZ	P	Z	11 31 00.5			
	MNG	EP	Z	11 31 03			
OCT 19	17	28	43.6	19.2S 173.3W	33KM	5.2 TONGA	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	ECZ	EP	Z	17 33 56			
	KRP	EP	ZNE	17 34 05		-0.57	
	MNG	EP	Z	17 34 25			5.9
	MJZ	EP	Z	17 33 06			
OCT 20	07	08	47.1	25.0N 122.5E	15KM	5.4 TAIWAN	WEL 82
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MJZ	EP	Z	07 20 35			
	MNG	P	Z	07 20 35			
	GNZ	EP	Z	07 20 36			
OCT 21	00	28	43.4	19.1S 177.7W	575KM	3.9 FIJI REGION	WEL 23
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	00 33 52			
OCT 22	13	59	39.7	17.6S 179.1W	621KM	4.3 FIJI REGION	WEL 24
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	14 03 40			
	MNG	EP	Z	14 03 59			
OCT 23	01	54	01.9	53.5S 140.3E	33KM	4.7 W. OF MACQUARIE I.	WEL 26
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNH	EP	Z	01 53 26			
	MSZ	P	Z	01 53 32			
	MJZ	P	ZNE	01 55 58			
	COB	EP	Z	01 59 21			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 23	02	34	48.2	4.2S 143.2E	33KM	5.5 NEW GUINEA	WEL 47
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	IP	Z	02 42 59		-1.00	5.8
	MNG	EP	Z	02 43 09			
OCT 23	13	25	58.9	9.1S 112.0E	46KM	5.4 S. OF JAVA	WEL 64
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	HJZ	P	ZNE	13 35 11			
		PP	ZNE	13 35 23			
	COB	EP	Z	13 35 18			
		PP	Z	13 35 30			
	KRP	EP	Z	13 35 27			
		PP	Z	13 35 40			
	MNG	EP	Z	13 35 29			
OCT 25	21	04	42.3	3.3S 143.3E	12KM	6.1 BISMARCK SEA	WEL 47
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ	EP	ZNE	21 12 29			
		PP	Z	21 12 39			
	KRP	P	ZNE	21 13 01		-0.33	6.6
		PP	Z	21 13 07			
	COB	EP	Z	21 13 07			
		PP	Z	21 13 13			
	WEL	IP	ZNE	21 13 14.7 U		-0.29	6.7
		PP	ZNE	20.3 D			
		E(PCS)	ZNE	13 15			
		ES	ZNE	20 06			
	HJZ	EP	ZNE	21 13 15			
		PP	ZNE	21 13 21			
OCT 23	CRZ	P	ZNE	21 15 27			
	TUA	EP	Z	21 15 26			
		ES	Z	17 09			
	KRP	EP	ZNE	21 15 52		-1.00	
	WEL	P	Z	21 15 21		-0.81	
		ES	ZNE	18 26			
	COB	EP	Z	21 15 25			
		ES	Z	18 34			
OCT 23	23	46	44.4	2.9S 143.5E	44KM	4.9 NEW GUINEA	WEL 47
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	23 55 18			
OCT 24	00	42	21.9	7.2N 126.6E	77KM	5.4 HINDANAO	WEL 65
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	HJZ	EP	ZNE	00 52 48			
	KRP	EP	ZNE	00 52 55		-1.30	5.8
OCT 24	02	02	26.9	3.5S 143.6E	40KM	5.3 BISMARCK SEA	WEL 47
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	02 10 43		-1.35	5.5
		PP	ZNE	48			
	COB	IP	Z	02 10 47		D	
	MNG	IP	Z	02 10 54.8 D			
	HJZ	EP	ZNE	02 10 55			
OCT 24	12	02	00.1	18.7S 177.2W	635KM	4.1 FIJI REGION	WEL 24
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	12 05 51			
	KRP	IP	ZNE	12 05 53.0 DN		-0.96	5.4







OCT 29	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
					WEL	AE	TE	MAG
	07 21 16.7	17.8S 179.8W	567KM	5.9 FIJI REGION				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
CRZ	EP	ZNE 07 24 59						
GBZ	P	Z 07 23 04						
ONE	EP	Z 07 25 06						
		E 23 14						
KRP	EP	ZNE 07 25 19.0		-0.63				
		ZNE 25 37						5.9
GNZ	EP	Z 07 25 20		-0.53				
		Z 28 22						6.0
		Z 39						
TUA	EP	Z 07 25 22						
CNZ	EP	Z 07 25 28						
MNG	EP	Z 07 25 39						
		Z 29 25						
WEL	EP	ZNE 07 25 47						
		ZNE 30 18						
KAI	EP	X 07 25 05						
HJZ	EP	ZNE 07 25 19						
		ZNE 28 09						
MSZ	EP	ZNE 07 25 32						
MNH	P	Z 07 25 41.5		-0.52				
								6.1
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	11 26 51.8	22.5S 173.2W	33KM	5.1 TONGA REGION				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
KRP	EP	Z 11 30 54						
MNG	EP	Z 11 31 17						
		Z 21						
MSZ	EP	Z 11 32 23						
		Z 27						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	11 39 20.2	22.6S 174.9W	33KM	5.2 TONGA REGION				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MNG	EP	Z 11 43 48						
MSZ	EP	Z 11 44 55						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	12 43 26.0	7.0S 129.4E	544KM	5.0 BANDA SEA				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
HJZ	P	Z 12 52 01.5						
KRP	EP	Z 12 52 09						
MNG	P	Z 12 52 13.3						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	17 00 40.4	1.8N 126.4E	33KM	5.9 MOLUCCAS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MSZ	EP	Z 17 10 40						
HJZ	EP	ZNE 17 10 47						
KRP	EP	Z 17 10 47						
MNG	EP	Z 17 10 54						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	00 07 16.2	1.8N 126.4E	33KM	5.2 MOLUCCAS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MSZ	EP	Z 00 17 18						
HJZ	EP	ZNE 00 17 24						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	09 42 10.8	31.0S 179.9W	328KM	4.9 KERMADEC IS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
ECZ	EP	Z 09 43 52						
		Z 43 05						
		Z 15						
GBZ	P	Z 09 43 53.0						

ONE	EP	E 09 43 58						
		E 43 19						
CRZ	P	ZNE 09 44 02						
		ZNE 43 30						
GNZ	EP	Z 09 44 02			0.24			
		Z 43 22						
		Z 34						
AUC	EP	Z 09 44 04						
KRP	EP	ZNE 09 44 07			0.21			
		ZNE 43 40						
TUA	EP	Z 09 44 08						
		Z 43 41						
WNZ	EP	Z 09 44 13						
CNZ	EP	Z 09 44 19						
		Z 46 02						
TNZ	EP	Z 09 44 26						
		Z 46 18						
CAZ	EP	Z 09 44 32						
		Z 45 25						
WEL	EP	ZNE 09 44 39						
		ZNE 46 33						
		ZNE 39						
COB	EP	Z 09 44 48						
		Z 46 53						
KAI	EP	X 09 47 27						
CIZ	EP	ZNE 09 48 11						
		ZNE 47 46						
QPZ	EP	N 09 45 14						
		N 47 37						
HJZ	EP	ZNE 09 45 29						
		ZNE 47 58						
MSZ	EP	Z 09 48 47						
		Z 48 39						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	17 11 20	22.6S 174.9W	33KM	5.2 TONGA REGION				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
KRP	EP	Z 17 11 20						
								-1.24
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	03 22 15.0	36.6N 27.1E	11KM	5.1 DODECANESE IS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MSZ	EPKP	Z 03 42 06						
KRP	EPKP2	Z 03 42 36						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	09 06 36.4	1.2N 126.3E	33KM	6.1 MOLUCCAS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MSZ	IP	Z 09 15 32.5 U						
KRP	IP	ZNE 09 15 39.5 U						
HJZ	IP	ZNE 09 15 39.8 U						6.8
WEL	IP	ZNE 09 15 49.6 U						6.8
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	09 15 46.9	16.3S 73.3W	57KM	5.7 PERU				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MNG	EP	Z 09 29 05						
KRP	P	Z 09 29 10						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	03 12 55.4	1.6N 126.2E	33KM	5.2 MOLUCCAS				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
MNG	EP	Z 03 23 07.5						
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)			
	13 18 47.1	5.5S 124.8E	53KM	5.6 BANDA SEA				
		H 4 S	DIR	LOG <sub>a</sub> /T	AZ	TZ	AN	TN
KRP	EP	Z 13 25 24.0						
MNG	EP	Z 13 25 26.4						



NOV 02	H M S	EPICENTRE	DEPTH	MAG	REGION	DIST (DEG)
		H 1 S	DIR	LOG <sub>a</sub> A/T	AZ TZ AN TN	WEL 25 AE TE MAG
	03 18 56.7	16.6S 173.9E	114KM	4.9	FIJI REGION	WEL 25 AE TE MAG 5.1
	KRP EP	ZNE 03 23 33.5		-1.22		
	MNG EP	Z 03 24 01.2				
NOV 02	H M S	EPICENTRE	DEPTH	MAG	NEW HEBRIDES	DIST (DEG)
	10 45 16.5	16.6S 167.6E	29KM			WEL 25 AE TE MAG 5.1
	KRP EP	Z 10 50 14.1		-1.23		
	MNG EP	Z 10 50 37.4				
NOV 02	MSZ EP	Z 11 25 06.4				
NOV 02	H M S	EPICENTRE	DEPTH	MAG	KERMADEC IS	DIST (DEG)
	12 33 04.1	30.6S 179.4W	255KM	4.6		WEL 12 AE TE MAG
	GNZ EP	Z 12 34 53.4		-1.30		
	KRP EP	NE 12 33 00.1				
	MNG EP	Z 12 35 22.8				
	WEL EP	Z 12 35 33.2				
	MSZ EP	Z 12 36 49.5				
	GNZ EP	Z 18 31 36.5		-0.69		
	KRP EP	ZNE 18 31 40.0				
	MNG EP	Z 18 32 03.5				
	WEL EP	ZNE 18 32 16.0				
NOV 02	H M S	EPICENTRE	DEPTH	MAG	NEW HEBRIDES	DIST (DEG)
	20 33 04.2	19.0S 169.1E	190KM	3.9		WEL 23 AE TE MAG
	MNG EP	Z 20 37 49.3				
NOV 02	H M S	EPICENTRE	DEPTH	MAG	MOLUCCAS	DIST (DEG)
	22 32 21.7	1.7N 129.2E	37KM	5.4		WEL 61 AE TE MAG 5.8
	KRP EP	ZNE 22 42 26.2		-1.39		
	MNG EP	Z 22 42 32.4				
NOV 02	H M S	EPICENTRE	DEPTH	MAG	BANDA SEA	DIST (DEG)
	23 05 10.6	5.4S 124.9E	36KM	3.2		WEL 97 AE TE MAG
	KRP EP	Z 23 14 46.2				
	MNG EP	Z 23 14 52.5				
NOV 03	H M S	EPICENTRE	DEPTH	MAG	SOLOMON IS	DIST (DEG)
	03 11 09.8	7.0S 155.6E	37KM	5.2		WEL 38 AE TE MAG 5.6
	KRP EP	ZNE 03 19 00.7		-1.27		
	MNG EP	Z 03 19 18.9 D				
NOV 03	MSZ EP	Z 08 20 01.8				
	KRP EP	ZNE 08 20 07.7				
	MNG EP	ZNE 08 20 08.1				
	HJZ EP	Z 08 20 14.5				
NOV 03	H M S	EPICENTRE	DEPTH	MAG	FIJI REGION	DIST (DEG)
	15 40 11.9	20.2S 177.7W	454KM	4.4		WEL 22 AE TE MAG 5.0
	KRP EP	ZNE 15 44 01.7		-1.43		
	MNG EP	Z 15 44 20.8				

NOV 04	H M S	EPICENTRE	DEPTH	MAG	NEW HEBRIDES	DIST (DEG)
	03 00 49.5	18.4S 169.8E	125KM	4.6		WEL 23 AE TE MAG 5.0
	KRP EP	Z 03 03 18.5		-1.30		
	MNG EP	Z 03 03 43.8 D				
NOV 04	KRP EP	Z 03 21 19.3		-1.33		
	MNG EP	Z 03 21 41.0				
	ES?	Z 24 43.2				
NOV 04	H M S	EPICENTRE	DEPTH	MAG	NEW HEBRIDES	DIST (DEG)
	09 07 38.5	14.2S 172.0E	589KM	5.8		WEL 27 AE TE MAG
	ORZ EP	ZNE 09 11 37.1				
	ONE EP	NE 09 11 52.4				
	QBZ EP	E 09 11 12.6				
	KRP EP	Z 09 11 54.0		-0.09		6.4
	GNZ EP	ZNE 09 12 08.2				
	CNZ EP	ZNE 09 12 15.8		-0.22		6.3
	MNG EP	Z 09 12 19.7 D				
	WEL EP	Z 09 12 29.1 D				
	COB EP	Z 09 12 34.7				
	MJZ EP	ZNE 09 12 34.8				
	ROX EP	ZNE 09 12 58.6				
	MSZ EP	ZNE 09 13 07.3				
	MSZ EP	Z 09 13 07.3				
	MSZ EP	Z 17 26.7				
NOV 04	MNH EP	Z 09 35 01.3				
	ROX EP	Z 09 35 15.6				
	MSZ EP	Z 09 35 37.0				
	MJZ EP	Z 09 36 16.3				
	COB EP	Z 09 36 44.1				
	MSZ EP	Z 09 37 22.7				
	MSZ EP	Z 39 08.0				
NOV 04	KRP EP	Z 12 37 56.2		-1.04		
	MNG EP	Z 12 38 12.7				
NOV 05	H M S	EPICENTRE	DEPTH	MAG	SOLOMON IS	DIST (DEG)
	00 10 05.1	10.2S 161.5E	80KM	5.0		WEL 33 AE TE MAG
	MNG EP	Z 00 15 29.9				
NOV 05	H M S	EPICENTRE	DEPTH	MAG	NEW IRELAND	DIST (DEG)
	03 11 42.5	5.2S 153.4E	39KM	4.9		WEL 41 AE TE MAG
	KRP EP	Z 03 19 41.0				
	MNG EP	Z 03 19 49.2				
NOV 05	MNG EP	Z 05 34 03.5				



NOV 06	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	00 43 12.2	4.0N 125.3E	38KM	5.1 S. OF MINDANAO	WEL 63
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 00 53 27.6			
NOV 06	MNG EP	Z 05 37 17.3			
NOV 06	MSZ IP	Z 14 00 36.1 D			
	MNG EP	Z 14 00 49.5			
	KRP IP	ZNE 14 00 50.8 D		-1.09	
NOV 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	03 32 00.8	16.69 172.7W	33KM	5.1 SAHOA REGION	WEL 27
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	CRZ EP	Z 03 37 43.0			
	GNZ EP	Z 03 38 00.7			
	KRP P	ZNE 03 38 02.0 U			
	MNG EP	Z 03 38 22.6		-0.68	5.7
	COB EP	Z 00 38 37.4			
NOV 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	10 02 05.3	73.4N 54.9E	0KM	6.0 NOVAYA ZEMLYA	WEL 138
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MNG E	Z 10 21 22.2			
	KRP EPKP	Z 10 21 23.8			
	MSZ E	Z 10 21 26.8			
	EPKP	Z 10 21 39.3			
NOV 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	10 13 39.8	16.4S 73.5W	50KM	5.0 PERU	WEL 99
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 10 27 03.9		-1.27	6.3
NOV 07	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 43 12.6	59.1S 24.9W	146KM	4.8 SOUTH SANDWICH IS	WEL 79
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MNG P	Z 17 59 03.0			
	KRP EP	Z 17 59 16.5			
NOV 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	07 42 57.3	13.3S 167.2E	192KM	5.1 NEW HEBRIDES	WEL 29
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 07 48 10.8		-1.15	5.5
	MNG IP	Z 07 48 31.7 U			
	MJZ EP	Z 07 48 56.1			
	MSZ EP	Z 07 49 01.2			
NOV 08	MJZ EP	ZNE 08 13 52.4			
	MSZ EP	Z 08 14 12.3			
NOV 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	11 57 13.3	20.0S 179.1W	599KM	4.4 FIJI REGION	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP IP	ZNE 12 00 56.2 D		-1.04	5.4
	MNG EP	Z 12 01 16.1			
NOV 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	18 27 26.7	19.9S 179.2W	679KM	5.2 FIJI REGION	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 18 31 10.0			
	MNG EP	Z 18 31 30.1			
	MSZ EP	Z 18 32 21.5			

NOV 08	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	18 45 34.0	20.0S 179.2W	596KM	4.5 FIJI REGION	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 18 49 16.7		-1.61	4.8
NOV 09	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	13 13 11.3	20.1S 179.6W	619KM	4.7 FIJI REGION	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	CRZ IP	ZNE 13 15 52.9 U			
	GNZ EP	Z 13 17 10.8			
	KRP EP	Z 13 17 13.3		-0.80	5.6
	MNG EP	ZNE 13 17 11.8		-0.88	5.5
	WEL EP	Z 13 17 31.5			
	COB EP	ZNE 13 17 40.1		-0.66	5.8
		Z 13 17 49.0			
NOV 09	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 01 41.1	38.0N 88.9W	19KM	5.3 CENTRAL U.S.A.	WEL 118
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EPKP	Z 17 20 15.5			
NOV 09	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	20 30 41.9	2.4N 126.8E	33KM	5.5 MOLUCCAS	WEL 62
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 20 40 43.6			
	MNG EP	Z 20 40 55.8			
NOV 10	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	17 01 59.2	20.0N 121.4E	33KM	5.2 PHILIPPINES	WEL 78
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 17 13 50.6			
	MNG EP	Z 17 13 58.5			
	GNZ EP	Z 17 14 00.3			
NOV 10	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 24 51.7	3.6S 102.0E	33KM	5.3 S. SUMATRA	WEL 75
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 21 36 06.7			
	MNG EP	Z 21 36 32.8			
	KRP EP	ZNE 21 36 43.9			
NOV 11	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	01 58 41.0	19.6S 179.1W	674KM	4.9 FIJI REGION	WEL 22
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	CRZ EP	ZNE 02 02 09.0			
	KRP EP	Z 02 02 24.3			
	E	ZNE 30.1			
	E	ZNE 35.9			
	GNZ EP	Z 02 02 31.0			
	E	Z 35.2			
	E	Z 09 29.0			
	MNG EP	Z 02 02 49.0			
	E	Z 58.8			
	MSZ EP	Z 02 03 37.4			
NOV 11	KRP EP	Z 02 59 10.1			
NOV 11	MNG EP	Z 06 14 46.7			
NOV 11	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	06 49 13.9	24.6N 142.7E	22KM	5.2 VOLCANO IS	WEL 72
		H 4 S	DIR	LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 07 00 21.4			
	MNG EP	Z 07 00 32.7			



	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 11	09	33	30.1	6.78 130.4E	75KM	5.2 BANDA SEA	WEL 92
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MSZ	EP	Z	09 42 18.4			
	MNG	EP	Z	09 42 35.5			
NOV 11	MSZ	EP	Z	14 13 32.3			
	I		Z	34.9			
NOV 11	14	41	15.9	40.1N 143.0E	35KM	5.5 E. OF HONSHU	WEL 86
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	MNG	E	Z	14 53 53.5			
	IP		Z	54 00.2 D			
	MSZ	EP	Z	14 54 13.2			
NOV 11	17	04	35.8	25.3N 140.9E	159KM	5.2 VOLCANO IS	WEL 73
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	17 13 35.9			
	MNG	EP	Z	17 15 48.2			
NOV 12	00	44	12.8	27.5N 128.4E	48KM	3.8 RYUKYU IS	WEL 81
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	00 55 11.5			
	E*PP		ZNE	24.5			
	MNG	EP	Z	00 55 20.4			
	GNZ	EP	Z	00 55 33.2		-0.59	6.3
	MSZ	EP	Z	00 55 35.0			
NOV 12	06	27	19.8	20.3S 173.2W	590KM	4.3 FIJI REGION	WEL 22
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	CRZ	EP	Z	06 30 43.0			
	KRP	P	ZNE	06 31 02.0			
	MNG	EP	Z	06 31 21.0			
	MSZ	EP	Z	06 32 20.0			
NOV 12	08	57	27.1	41.2N 143.9E	17KM	5.3 HOKKAIDO	WEL 87
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	09 09 59.1			
	MNG	IP	Z	09 10 09.5 U			
NOV 12	09	53	42.2	29.2N 129.4E	22KM	5.4 RYUKYU IS	WEL 82
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	10 03 49.0			
	MNG	EP	Z	10 03 56.6			
NOV 12	22	00	39.1	15.6S 172.8W	47KM	5.2 SAMOA REGION	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	22 03 55.2		-0.97	5.4
	MNG	EP	Z	22 05 17.0			
	MJZ	EP	ZNE	22 07 03.9			
NOV 13	01	56	45.1	15.7S 172.8W	35KM	5.1 SAMOA REGION	WEL 28
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	02 02 03.8			
	MNG	EP	Z	02 02 25.2			

	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 13	03	22	38.8	0.29 123.0E	91KM	5.1 SULAWESI	WEL 62
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	HJZ	EP	ZNE	03 32 42.9			
	KRP	EP	ZNE	03 32 47.9			
	MNG	IP	Z	03 32 52.7 U			
NOV 13	15	49	26.4	20.8S 173.8W	590KM	5.2 FIJI REGION	WEL 21
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	15 53 01.4			
	ES		Z	55 57.2			
	EPCS		Z	59 45.3			
	KRP	P	ZNE	15 53 02.3 USH			
	ES		Z	56 02.7			
	MNG	IP	Z	15 53 22.0 U			
	ES		Z	56 39.7			
	ISCP		Z	59 49.3 U			
	WEL	EP	Z	15 53 29.6			
	SCP		Z	59 52.2			
	HJZ	P	ZNE	16 00 01.7			
NOV 13	MNG	EP	Z	18 12 54.6			
NOV 13	18	41	47.9	40.2N 142.5E	49KM	5.5 HONSHU	WEL 86
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	18 54 13.1			
	MNG	EP	Z	18 54 24.1			
	WEL	EP	Z	18 54 34.0			
	ELR		ZNE	19 21 53			
						6 22 3 22 3 22	
NOV 13	21	35	47.9	18.4S 173.0W	549KM	4.9 FIJI REGION	WEL 24
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	21 39 47.6			
	MNG	EP	Z	21 40 09.3			
NOV 14	11	35	12.0	20.0S 175.0W	220KM	5.1 FIJI REGION	WEL 23
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	ONE	EP	E	11 39 07.8			
	ECZ	EP	Z	11 39 13.9			
	GNZ	EP	Z	11 39 21.7		-0.19	6.2
	KRP	P	ZNE	11 39 22.8			
	TJA	EP	Z	11 39 23.1			
	ONZ	EP	Z	11 39 31.7			
	ES		Z	43 16.5			
	MNG	EP	Z	11 39 42.9			
	ES		Z	43 29.6			
	WEL	EP	ZNE	11 39 54.4			
	ES		ZNE	43 48.0			
	OIZ	EP	Z	11 40 22.9			
	HJZ	EP	Z	11 40 42.1			
	IP		Z	44.1 D			
	MSZ	EP	Z	11 40 48.0			
NOV 14	12	11	30.1	31.6N 131.5E	6KM	5.0 KYUSHU	WEL 83
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	12 24 05.0			
NOV 14	23	08	54.4	21.5S 170.1E	103KM	5.4 LOYALTY IS	WEL 20
				H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
	KRP	EP	ZNE	23 12 47.2		-0.31	9.8
	GNZ	EP	Z	23 13 02.7			







NOV 21	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	23 31 52.7	19.6S 175.2W	270KM	4.5 FIJI REGION	WEL 23
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 23 35 05.9		-1.04	9.3
		Z 23 35 28.0			
NOV 22		ZNE 02 13 48.5			
		Z 02 13 49.0 D			
		Z 02 13 49.0			
		Z 02 19 10.5			
		Z 02 19 10.5			
		Z 21 41.3			
NOV 22	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	10 31 49.1	1.5N 123.6E	7KM	5.7 MOLUCCAS	WEL 02
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 10 41 57.1			
		ZNE 10 41 57.8			
		Z 10 42 10.2			
NOV 22	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	15 44 05.0	23.6S 180.0W	516KM	5.3 S. OF FIJI	WEL 18
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 15 46 58.6			
		Z 15 47 09.6			
		Z 15 47 09.6			
		Z 15 47 12.9 U		-0.10	
		ZNE 15 47 12.9			
		ZNE 15 47 12.9			
		Z 15 47 14.1			
		Z 15 47 14.1			
		Z 15 47 14.1			
		Z 15 47 29.3			
		Z 15 47 34.9			
		Z 49 52.1			
		Z 90 23.5			
		Z 29.3			
		Z 94 36.0			
		ZNE 15 47 45.2 U			
		Z 50 40.0			
		Z 15 47 47.9 U			
		Z 15 48 10.3			
		ZNE 15 48 17.3			
		Z 51 35.7			
		Z 15 48 41.3			
NOV 24		ZNE 02 21 33.8			
		Z 02 21 37.1			
NOV 24		Z 20 09 02.4			
NOV 24	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 09 47.9	15.6S 175.0W	33KM	5.3 FIJI REGION	WEL 27
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 21 14 58			
NOV 24	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	21 20 59.9	40.3N 142.3E	51KM	5.9 HONSHU	WEL 86
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 21 33 25.4		-0.74	6.4
		Z 21 33 32.8			
		Z 45.1			
		Z 21 33 37.3			
		Z 44.3			
		Z 49.8			
NOV 25	MNG E(P)	Z 05 05 10.6			
	E(P)	Z 25.4			
	WEL E(P)	Z 05 05 25.4			
	EL	Z 10			

NOV 25	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	18 36 53.0	5.0N 125.9E	31KM	5.4 MINDANAO	WEL 63
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 18 47 15.6			
		ZNE 18 47 24.5			
		Z 18 47 24			
		Z 59 49			
		Z 19 07			
		ZN 11			
NOV 26	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	01 10 12.9	5.3S 152.0E	68KM	5.3 NEW BRITAIN	WEL 41
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 01 17 33.8			
		Z 01 17 46.4			
		ZNE 01 17 56.1			
		Z 01 13 06			
		Z 27			
		Z 02 00			
NOV 26	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	10 54 00.3	23.0S 179.1E	559KM	4.0 S. OF FIJI	WEL 19
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 10 57 14.3			
		Z 10 57 15.8			
		Z 10 57 33.6			
NOV 27	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	00 14 28.2	18.3S 177.9W	542KM	4.2 FIJI REGION	WEL 24
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		Z 00 19 28.5			
		Z 00 19 48.7			
NOV 27		ZNE 10 13 52.0			
		Z 20 14 14.6			
NOV 27	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	21 59 46.2	39.7S 104.2W	33KM	4.7 S. PACIFIC OCEAN	WEL 61
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		Z 22 19 00			
		Z 27			
NOV 28	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	10 36 07.7	15.4N 94.6W	33KM	5.2 CENTRAL AMERICA	WEL 100
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		Z 10 49 53			
		Z 53 54			
		ZNE 11 00 34			
		ZNE 03 00			
		ZNE 05 50			
		ZNE 21			
		E 11 03 52			
		NE 04 34			
		E 00 56			
		NE 05 40			
		ZNE 24			
NOV 28	H M S	EPICENTRE	DEPTH	MAG <td>DIST (DEG)</td>	DIST (DEG)
	16 30 32.1	6.8S 156.2E	169KM	5.7 SOLOMON IS	WEL 38
		H 4 S	DIR	LOG <sub>a</sub> /T AZ TZ AN TN	AE TE MAG
		ZNE 16 37 16.0		-0.40	6.2
		Z 39 40.1			
		Z 43 11.2			
		Z 37 54.5			
		Z 16 37 26.2			
		Z 16 37 32.0			















DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
DEC 18	20	14	93.6	6.15 143.7E H 1 S DIR	74KM	4.9 NEW BRITAIN LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 42 AE TE MAG
	MNG	P	Z	20 22 39			
DEC 19	KRP	EP	ZNE	05 47 22.5			
DEC 19	KRP	EP	ZNE	06 03 06.5			
DEC 19	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 19	11	56	35.9	19.4S 169.4E H 1 S DIR	147KM	4.1 NEW HEBRIDES LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 22 AE TE MAG
	KRP	P	ZN	12 00 52.5			
		I	Z	56			
	MNG	P	Z	12 01 16			
DEC 19	KRP	EP	Z	15 19 59			
		I	Z	20 03			
	MNG	EP	Z	15 20 20			
		ES	Z	23 08			
DEC 19	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 19	16	30	00.0	37.2N 115.5W H 1 S DIR	0KM	6.3 NEVADA LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 100 AE TE MAG
	MNG	EP	Z	16 43 44.5			
		EPP	Z	47 47			
DEC 19	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 19	16	47	01.5	18.2S 169.2E H 1 S DIR	40KM	NEW HEBRIDES LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 24 AE TE MAG
	MNG	EP	Z	16 52 08			
DEC 19	KRP	EP	Z	20 29 24			
	MNG	EP	Z	20 29 47.5			
DEC 20	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 20	16	41	41.3	23.7S 175.2W H 1 S DIR	64KM	4.9 S.OF FIJI LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 19 AE TE MAG
	KRP	EP	Z	16 43 21			
	MNG	EP	Z	16 43 42			
		ES	Z	48 51			
DEC 20	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 20	21	41	59.5	9.2N 129.4E H 1 S DIR	93KM	3.2 MINDANAO LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 68 AE TE MAG
	KRP	EP	Z	21 52 40			
	MSZ	EP	Z	21 52 41			
	MNG	EP	Z	21 52 46			
DEC 20	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 20	23	47	48.5	6.1S 149.0E H 1 S DIR	64KM	4.8 NEW BRITAIN LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 42 AE TE MAG
	MNG	P	Z	23 55 32			
DEC 21	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 21	21	04	21.8	20.6S 173.7W H 1 S DIR	571KM	4.0 FIJI REGION LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 21 AE TE MAG
	MNG	EP	Z	21 03 18.5			
DEC 21	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 21	22	06	44.3	20.5S 174.7W H 1 S DIR	33KM	4.6 TONGA LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 23 AE TE MAG
	MNG	EP	Z	22 10 57.5			
		ES	Z	14 41			
		PCP	Z	52			
DEC 22	ECZ	EP	Z	01 43 02			

	EP	Z	49 07				
KRP	EP	ZNE	01 43 24				
	S	ZNE	49 50				
MNG	EP	Z	01 43 46				
	ES	Z	50 31				
MJZ	EP	ZNE	01 49 58				
	ES	ZNE	52 26				
DEC 22	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 22	06	11	42.2	18.7S 169.2E H 1 S DIR	239KM	4.6 NEW HEBRIDES LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 23 AE TE MAG
	KRP	P	Z	06 15 27			
	MNG	IP	Z	06 15 51.2 U			
DEC 22	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 22	12	41	42.2	20.3S 179.0W H 1 S DIR	527KM	4.3 FIJI REGION LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 22 AE TE MAG
	KRP	IP	ZNE	12 45 27.9 U		-0.60	5.7
	MNG	P	Z	12 43 46			
	ES	Z	43 57				
DEC 22	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 22	15	27	48.9	3.4S 148.8E H 1 S DIR	33KM	5.1 BISMARCK SEA LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 44 AE TE MAG
	KRP	P	Z	15 35 11.5			
	MNG	P	Z	15 35 25.5			
	(APP)	Z	45.5				
	WEL	EP	Z	15 35 27			
	(PCP)	ZN	37 49				
	S	ZNE	42 06				
	SGS	ZNE	49 37				
	MSZ	EP	Z	15 35 27.5			
DEC 22	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 22	17	39	48.2	1.8S 134.4E H 1 S DIR	25KM	3.2 WEST IRIAN LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 54 AE TE MAG
	MSZ	EP	Z	17 48 28.5			
	KRP	P	ZNE	17 48 30.0			
	MNG	P	Z	17 48 38.5			
DEC 23	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 23	05	52	51.1	1.7N 126.6E H 1 S DIR	36KM	5.6 MOLUCCAS LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 61 AE TE MAG
	MSZ	P	Z	06 02 47			
	KRP	P	Z	06 02 56.5			
	MNG	P	Z	06 03 04			
DEC 23	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 23	09	55	47.1	21.7S 174.9W H 1 S DIR	33KM	4.7 TONGA LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 21 AE TE MAG
	MNG	EP	Z	09 59 49			
DEC 23	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 23	15	46	07.0	11.3S 119.8E H 1 S DIR	50KM	5.1 TIMOR REGION LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 56 AE TE MAG
	MNG	EP	Z	15 59 46			
DEC 23	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 23	16	06	55.4	16.1S 167.4E H 1 S DIR	31KM	NEW HEBRIDES LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 26 AE TE MAG
	MNG	EP	Z	16 12 21			
DEC 24	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <th>DIST (DEG)</th>	DEPTH	MAG	DIST (DEG)
DEC 24	15	42	43.5	7.6S 123.0E H 1 S DIR	218KM	5.2 BANDA SEA LOG <sub>a</sub> A/T AZ TZ AN TN	WEL 57 AE TE MAG
	MSZ	EP	Z	15 51 44			
	MNG	P	Z	15 52 07			



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
DEC 24	18	45	18.5	30.6S 178.3W	130KM	4.5 KERMADEC REGION	WBL 12
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	18 47 20	48 50.5		
	MNG	EP	Z	18 47 51	49 49.5		
DEC 25	03	56	39.2	41.7N 142.8E	36KM	5.3 HOKKAIDO	WBL 08
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	06 09 25.5			
DEC 25	08	25	29.1	32.1S 175.3W	33KM	4.9 S.OF KERMADEC IS	WBL 11
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	GNZ	P	Z	08 27 14	28 30.5		
	MNG	EP	Z	08 27 49	29 26.5		
	MSZ	EP	Z	08 29 26	32 12.5		
DEC 25	18	56	49.4	30.2S 177.9W	50KM	4.9 KERMADEC REGION	WBL 13
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	18 58 55.5	19 00 21		
	MNG	EP	Z	18 59 26	19 01 26		
DEC 25	22	41	16.1	30.7S 178.1W	43KM	4.9 KERMADEC REGION	WBL 12
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	22 43 14.5	44 46.5		
	MNG	EP	Z	22 43 47	45 41		
DEC 26	01	23	22.4	10.7S 166.2E	150KM	4.9 SANTA CRUZ IS	WBL 31
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MNG	P	Z	01 29 22.5			
DEC 26							
	MNG	P	Z	02 46 39.8			
	WEL	EP	ZNE	02 50 09	30		
DEC 26							
	ECZ	EP	Z	13 52 48			
	GNZ	P	Z	13 53 00.5			
	TUA	P	Z	13 53 08.7			
	MNG	EP	Z	13 53 36	55 30		
DEC 26							
	KRP	P	Z	21 19 54			
	MNG	P	Z	21 16 00.5			
DEC 27	10	06	56.4	29.5S 177.8W	48KM	4.6 KERMADEC REGION	WBL 13
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	MNG	EP	Z	10 09 45.5	11 50.5		
DEC 27							
	ECZ	P	Z	15 11 59			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
	ES	P	Z	13 04			
	GNZ	P	Z	15 12 04			
	ES	P	Z	15 13 30			
	MNG	P	Z	15 12 33			
	ES	P	Z	14 22			
	COB	ES	Z	15 14 57			
DEC 27	22	31	25.8	3.5S 125.2E	33KM	5.4 CERAM	WBL 56
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP	IP	ZNE	22 40 47.4	D		
	MNG	IP	Z	22 40 54.4	U		
DEC 28	02	58	06.5	22.5S 179.5W	53KM	4.5 S.OF FIJI	WBL 19
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	ONE	EP	E	03 01 15			
	ES	P	E	03 47			
	KRP	P	ZNE	03 01 26.4			
	ES	P	NE	04 13			
	GNZ	EP	Z	03 01 27			
	MNG	EP	Z	03 01 47.3			
	ES	P	Z	04 38			
	SCP	P	Z	05 29.0			
	WBL	P	ZN	03 01 55.8			
	ES	P	ZNE	05 07			
	COB	P	Z	03 01 59.5			
	MNW	EP	Z	03 02 32			
DEC 28	04	48	57.4	10.3S 165.8E	33KM	4.3 SANTA CRUZ IS	WBL 32
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP	P	Z	04 54 53			
	E	P	Z	59.5			
	MNG	P	Z	04 53 14			
	E	P	Z	17			
DEC 28	06	27	23.1	3.7S 140.0E	41KM	5.5 WEST IRIAN	WBL 49
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP	P	Z	06 35 34			
	E	P	Z	06 35 05			
DEC 28	08	48	55.8	18.2S 168.0E	25KM	4.4 NEW HEBRIDES	WBL 24
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	KRP	EP	Z	08 53 27.5			
	MNG	EP	Z	08 54 03			
DEC 29	01	55	33.5	29.9S 173.2W	56KM	5.1 KERMADEC REGION	WBL 13
				H 1 S DIR		LOG <sub>a</sub> A/T AZ TZ AN TN	AE TE MAG
	GNZ	EP	Z	01 57 39.5			
	ES	P	Z	59 10			
	MNG	EP	Z	01 58 10			
	ES	P	Z	01 14.5			
DEC 29							
	ECZ	P	Z	04 09 38			
	ES	P	Z	10 47			
	GNZ	EP	Z	04 09 47			
	ES	P	Z	11 13			
	MNG	EP	Z	04 10 21			
	ES	P	Z	12 11.5			
	COB	EP	Z	04 10 50			
	ES	P	Z	12 53			



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
DEC 29	08	30	41.3	5.29 151.8E H 4 S DIR	59KM	5.2 NEW BRITAIN LOG <sub>a</sub> /T AZ TZ AN TN	WEL 41 AE TE MAG
				Z 08 46 19.5			
				Z 08 46 31.5			
				Z 08 46 20.5			
				Z 08 46 32.5			
DEC 29	16	01	49.4	19.6S 169.7E H 4 S DIR	40KM	4.5 NEW BRITAIN LOG <sub>a</sub> /T AZ TZ AN TN	WEL 22 AE TE MAG
				Z 16 05 34			
DEC 29	17	54	19.3	0.5S 99.2E H 4 S DIR	33KM	4.6 S, SUMATRA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 79 AE TE MAG
				Z 18 06 19.5			
				Z 18 06 33.0			
DEC 30	04	48	40.9	16.3S 172.6W H 4 S DIR	33KM	5.2 SAMOA REGION LOG <sub>a</sub> /T AZ TZ AN TN	WEL 27 AE TE MAG
				Z 04 53 54			
				Z 04 54 15			
				Z 04 55 50.5			
DEC 31	13	39	26.3	11.4S 162.8E H 4 S DIR	22KM	5.0 SOLOMON IS LOG <sub>a</sub> /T AZ TZ AN TN	WEL 32 AE TE MAG
				Z 13 43 51			

## OTHER STATIONS UNDER NEW ZEALAND CONTROL

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIST (DEG)
DEC 11	00	03	50				
DEC 14	18	02	57				
DEC 11	06	59	30				
DEC 11	21	49	42				
DEC 12	00	21	40.8	5.1S 153.4E H 4 S DIR	55KM	5.5 NEW IRELAND LOG <sub>a</sub> /T AZ TZ AN TN	WEL 35 AE TE MAG
				Z 00 29 10			
				Z 00 33 32			
				Z 00 35 12			
				Z 00 39 00			
				Z 00 28 08	36		
				Z 00 29 53	48		
				Z 00 36 38			
				Z 00 44			
				Z 00 32 37.8	73		
				Z 00 53			
				Z 00 42 09			
				Z 00 59 30			
DEC 12	02	08	43.2	19.3S 177.6W H 4 S DIR	570KM	4.2 FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 8 AE TE MAG
				Z 02 10 37	8		
				Z 02 12 07	17		
				Z 02 12 10			
DEC 12	11	44	51.6	15.0S 167.6E H 4 S DIR	127KM	4.7 NEW HEBRIDES LOG <sub>a</sub> /T AZ TZ AN TN	WEL 63 AE TE MAG
				Z 11 59 09			
DEC 12	13	35	58				
DEC 12	19	59	10				
DEC 12	22	45	08.5	22.6S 66.6W H 4 S DIR	237KM	5.3 ARGENTINA LOG <sub>a</sub> /T AZ TZ AN TN	WEL 79 AE TE MAG
				Z 23 09 48			
DEC 13	07	19	11				
DEC 13	15	07	18				
DEC 13	19	32	37.4	24.5S 179.3E H 4 S DIR	612KM	4.2 S OF FIJI LOG <sub>a</sub> /T AZ TZ AN TN	WEL 5 AE TE MAG
				Z 19 33 56.4J			
				Z 19 35 10			
				Z 19 34 58	6		
				Z 19 35 09	20		
DEC 14	00	11	24				







		ES	NE	22 00 50		
SBA	ES	ZNE	22 13 34	64		
	ELQ	ZNE	20 50			
	ELR	ZNE	24 00			
H M S		EPICENTRE		DEPTH	MAG	
JAN 10	09 31 40.3	29.2S	177.6W	64KM	5.0 KERMADEC IS	
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG
RAO	IP	Z	09 31 50.6D	0		
AFI	EP	ZNE	09 33 24	16		
	ES	ZNE	38 05			
	EL	ZN	39 18			
	ET	ZNE	49 02			
RAR	EP	ZNE	09 35 41	18		
	ES	ZNE	38 41			
SBA	EP	ZNE	09 40 27.5	49		
	ES	ZNE	47 36			
	EL	ZNE	54 28			
H M S		EPICENTRE		DEPTH	MAG	
JAN 10	13 42 06.2	53.7S	134.3W	33KM	4.8 S PACIFIC CORDILLERA	
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG
SBA	EP	ZNE	13 43 34.5	32		
	ES	ZNE	53 52			
	EL	ZNE	55 34			
AFI	E(S)	E	14 02 30	49		
	EL	ZN	04 00			
JAN 10	AFI	E(P)	ZNE	17 49 04		
H M S		EPICENTRE		DEPTH	MAG	
JAN 11	03 05 18.5	27.2S	177.2W	90KM	4.3 KERMADEC IS	
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG
RAR	EP	ZNE	03 09 05	17		
	ES	ZNE	11 52			
JAN 11	AFI	E(S)	NE	04 51 12		
JAN 11	AFI	EP	ZNE	15 27 07		
	E(S)	NE	28 48			
H M S		EPICENTRE		DEPTH	MAG	
JAN 11	18 24 52.2	59.2S	130.4W	33KM	4.6 S PACIFIC CORDILLERA	
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG
SBA	ES	ZNE	18 35 24	31		
	EL	ZNE	37 52			
JAN 11	AFI	E	ZN	18 41 24		
	EL	ZNE	46 18			
JAN 11	AFI	IP	ZNE	23 27 48.5J		
	S	ZNE	29 08			
	T	ZNE	29 42			
H M S		EPICENTRE		DEPTH	MAG	
JAN 12	03 05 18.5	27.2S	177.2W	90KM	5.3 KERMADEC IS	
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG
RAO	IP	Z	03 09 52.5D	2		
SUV	EP	Z	03 07 18	10		
AFI	EP	ZNE	03 09 25	14		
	ES	ZNE	10 48			
	ET	ZNE	21 19			
SBA	EP	ZNE	03 14 18	51		
	ES	N	21 38			
JAN 12	AFI	EP	ZNE	10 46 34		
	S	ZNE	54			

		AFI <th>EP <th>ZNE <th>15 53 00.3</th> <th colspan="2"></th> </th></th>	EP <th>ZNE <th>15 53 00.3</th> <th colspan="2"></th> </th>	ZNE <th>15 53 00.3</th> <th colspan="2"></th>	15 53 00.3		
			S	ZNE	50 23		
H M S		EPICENTRE		DEPTH	MAG		
JAN 13	07 03 39.2	24.1N	122.2E	8KM	5.7 TAIWAN		
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG	
AFI	EP	Z	07 13 34	75			
	ES	ZNE	25 00				
	EL	NE	33 24				
	EL	ZE	37 42				
SBA	EPP	ZNE	07 22 10	105			
	ESKS	ZNE	28 30				
	EPS	ZNE	31 14				
	ESS	ZNE	37 00				
	ESSS	ZNE	40 43				
	ESKKS	ZNE	44 30				
	ELR	ZNE	54 45				
H M S		EPICENTRE		DEPTH	MAG		
JAN 13	16 07 04.2	24.2S	66.9W	192KM	5.7 ARGENTINA		
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG	
SBA	EP	ZNE	16 18 16.2	74	0.04		
	EPPP	ZNE	22 46				
	ES	ZNE	27 32				
	ESS	ZNE	32 24				
	ELQ	ZNE	37 28				
	ELR	ZNE	41 08				
RAR	EP	ZNE	16 19 14	84			
AFI	EP	Z	16 20 24	97			
	ES	NE	31 54				
	E	B	33 54				
	ESS	ZNE	38 30				
	E	ZNE	43 30				
	EL	N	48 18				
	EL	ZE	53 18				
JAN 14	AFI	EP	Z	05 55 21			
	ES	ZNE	56 58				
RAR	EP	ZNE	05 56 22				
	ES	ZNE	58 46				
H M S		EPICENTRE		DEPTH	MAG		
JAN 14	05 55 53.0	23.6S	175.2W	33KM	4.5 TONGA		
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG	
RAO	EP	Z	05 57 23	6			
SUV	EP	Z	05 57 38	8			
AFI	EP	Z	05 58 09	10			
	ES	ZNE	59 45				
RAR	EP	ZNE	05 59 08	14			
	ES	ZNE	06 01 37				
H M S		EPICENTRE		DEPTH	MAG		
JAN 14	08 01 27.8	22.5S	179.6W	610KM	5.2 S OF FIJI		
H M S		DIR DIS		LG <sub>A/T</sub>	AZ	TZ AN TN AE TE MAG	
SUV	IP	Z	08 02 38.5J	5			
	ES	Z	03 54				
RAO	EP	Z	08 03 17	7			
	ES	Z	04 40				
AFI	EP	ZNE	08 03 55	11			
	ES	ZNE	09 54				
RAR	IP	ZNE	08 03 07	18			
SBA	EP	ZNE	08 10 10.5D	56	0.10		
	ES	ZNE	17 20		6.5		

H M S		EPICENTRE	DEPTH	MAG							
H M S		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE	MAG
JAN 14	12 25 09.7	7.5S 127.9E	115KM	5.9	BANDA SEA						
	SUV EP	Z 12 33 40		50							
	RAO EP	Z 12 34 34		55							
	CBZ EP	Z 12 34 42		56							
	AFI EP	ZNE 12 33 04		59							
	ES	ZNE 42 52									
	ESS	ZNE 47 24									
	ESSS	ZNE 49 36									
	EL	ZE 53 30									
	RAR EP	ZNE 12 36 17	71								
	ES	ZNE 45 20									
	ESS	N 50 00			19 16 22 13 6.8						
	ESSS	ZNE 53 09									
	E(LR)	ZNE 59 04									
	SBA EP	ZNE 12 36 30	73								
	EPCP	ZNE 52									
	ES	ZNE 43 48									
	ELQ	ZNE 54 50									
	ELR	ZNE 59 50									
JAN 14	14 33 59.7	21.0S 173.7W	33KM	4.5	TONGA						
	AFI EP	ZNE 14 33 39		7							
	ES	ZNE 35 52									
	ET	ZNE 42 06									
	SUV EP	Z 14 35 41	8								
	RAR EP	ZNE 16 36 57	13								
JAN 14	17 43 10.0	92.7N 171.2W	34KM	5.5	ALEUTIAN IS						
	AFI EP	Z 17 53 56		66							
JAN 15	02 02 17.9	12.6S 165.6E	41KM	5.0	SANTA CRUZ IS						
	SUV EP	Z 02 03 17	14								
	AFI ES	ZNE 02 11 00	22								
	EL	ZE 13 30									
JAN 15	05 43 09.4	19.7S 173.1W	33KM	4.6	TONGA						
	AFI EP	ZNE 05 44 47	7								
	EIS	ZNE 43 57									
JAN 15	07 02 47.6	12.5S 166.4E	73KM	4.3	SANTA CRUZ IS						
	SUV EP	Z 07 03 43	13								
JAN 16	SUV EP	Z 00 40 20									
	AFI IP	Z 00 40 50.50									
	EIS	ZNE 41 16									
JAN 16	AFI EP	Z 23 46 43									
	S	ZNE 47 22									
	ET	ZNE 50 14									
JAN 17	09 49 50.7	56.4S 147.0E	33KM		W OF MACQUARIE IS						
	SBA EP	ZNE 09 54 47	23								
	ES	ZNE 59 00									

H M S		EPICENTRE	DEPTH	MAG							
H M S		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE	MAG
	ELR	ZNE 10 00 42									
	AFI ES	ZE 10 05 30	53								
	EL	NE 12 24									
	EL	ZN 15 12									
JAN 17	AFI E	NE 13 57 00									
	E	Z 14 00 30									
JAN 18	H M S	EPICENTRE	DEPTH	MAG							
	01 57 32.0	22.3S 179.1W	472KM	4.6	S OF FIJI						
	SUV EP	Z 01 58 36	5								
JAN 18	AFI EP	Z 04 19 07									
	S	ZNE 25									
JAN 18	H M S	EPICENTRE	DEPTH	MAG							
	12 03 37.4	14.6S 173.4W	33KM	5.1	FIJI						
	SUV EP	Z 12 04 29	5								
	AFI EP	ZNE 12 05 05	6								
	ES	ZNE 06 12									
	RAR EP	ZNE 12 09 10	19								
	ES	NE 11 05									
JAN 19	AFI E(P)	Z 05 16 19									
JAN 19	AFI EP	ZN 05 20 22									
	S	ZNE 21 15									
	ET	ZNE 25 14									
JAN 19	H M S	EPICENTRE	DEPTH	MAG							
	06 04 38.2	9.4S 158.4E	33KM	6.0	SOLOMON IS						
	SUV EP	Z 06 09 14	21								
	AFI EP	ZNE 06 10 40	30								
	EPP	ZNE 11 32									
	S	ZNE 15 20									
	ISS	N 16 36									
	ISSS	ZNE 17 36									
	IL	ZN 19 28									
	IL	G 19 00									
	RAR ES	ZNE 06 19 12	42		16 16 6.6						
	SBA EP	ZNE 06 15 40	69	0.04	7.2						
	ES	ZNE 24 54									
	ELQ	ZNE 32 44									
	ELR	ZNE 36 22									
JAN 19	AFI EP	Z 10 42 14									
	ES	ZNE 43 05									
	ET	ZNE 47 05									
JAN 19	H M S	EPICENTRE	DEPTH	MAG							
	14 12 02.1	7.2S 103.6E	142KM	5.6	JAVA						
	SBA EP	ZNE 14 23 38.5	77								
JAN 19	H M S	EPICENTRE	DEPTH	MAG							
	14 39 37.8	42.6S 75.2W	22KM	5.5	OFF S CHILE						
	SBA EP	ZNE 14 49 00	54								
	ES	ZNE 56 45									
	ELR	ZNE 15 03 00									
	AFI ES	NE 15 02 54	85								
	E(SS)	Z 08 24									
	E	NE 15 18									
	EL	ZNE 15 30									





		EL	E	34 00							
		EL	N	35 06							
		EL	Z	39 06							
		H M S	EPICENTRE	DEPTH	MAG						
JAN 24	09 30 49.9		22.6S 149.5E	97KM	5.4	NEW BRITAIN					
	AFI EP	Z	09 33 08	39	-1.41						
JAN 25	06 40 37.5		22.6S 175.3W	34KM	4.4	TONGA					
	RAO EP	Z	06 42 16	7							
	SUV EP	Z	06 42 25	7							
	AFI EP	ZNE	06 42 44	9							
	RAR EP	ZNE	06 43 50	14							
JAN 26	04 45 41.4		8.8S 120.4E	29KM	5.9	FLORES IS					
	SUV EP	Z	04 53 12	57							
	AFI EP	ZE	04 56 32	67							
	EPCP	ZE	05 05 42								
	ES	ZNE	05 05 28								
	EL	E	14 32								
	EL	N	15 13								
	EL	ZE	19 00								
	SBA EP	ZNE	04 57 11	73							
	ES	ZNE	05 06 40								
	ESS	ZNE	11 22								
	ELQ	ZNE	15 41								
	ELR	ZNE	20 00								
	RAR EP	ZNE	04 57 38	77							
	ES	ZNE	05 07 30								
	EL	ZNE	22 28								
JAN 26	AFI IP	Z	05 51 10	J							
	IS	NE	30.5								
JAN 26	AFI IP	Z	09 59 38.1U								
	S	ZNE	10 00 09								
JAN 26	12 55 48.2		12.6S 167.0E	215KM	5.0	SANTA CRUZ IS					
	AFI P	ZNE	13 00 13	21							
	E(S)	N	03 16								
	SBA EP	ZNE	13 06 09	65							
JAN 27	AFI IP	Z	11 39 32.5J								
	S	ZNE	52								
JAN 27	12 51 23.8		12.9S 166.5E	57KM	4.5	SANTA CRUZ IS					
	SUV EP	Z	12 54 28	13							
	AFI EP	Z	12 56 08	21	-1.41	4.8					
JAN 27	13 56 23.8		23.2N 121.6E	53KM	5.2	TAIWAN					
	AFI EP	Z	14 08 04	75							
JAN 27	AFI EP	Z	22 13 17								
	E(S)	NE	15 13								

		H M S	EPICENTRE	DEPTH	MAG					
JAN 28	11 40 36.9		23 7S 179.9W	462KM	4.4	S OF FIJI				
	RAO EP	Z	11 42 11	6						
	ES	Z	43 22							
	AFI EP	ZN	11 43 21	12						
	ES	NE	45 30							
JAN 28	15 42 53.2		20 1S 177.7W	545KM	3.4	FIJI				
	AFI EP	ZNE	15 44 55	8						
	ES	ZNE	46 30							
JAN 29	09 16 30.5		24 0S 115.7W	33KM	5.0	EASTER IS CORDILLERA				
	AFI ES	ZNE	09 33 24	54						
	EL	N	39 42							
	EL	ZE	40 36							
JAN 29	10 13 16.5		5 6S 153.9E	70KM	5.3	NEW IRELAND				
	AFI EP	ZE	10 20 01	35	-1.41	5.5				
	RAO P	Z	10 20 07	36						
	SBA EP	ZNE	10 24 39	73						
JAN 29	10 19 05.6		43 6V 146.7E	40KM		KURILE IS				
	SUV EP	Z	10 30 00	68						
	E(PKPPKP)	Z	58 15							
	AFI EP	Z	10 30 06	69						
	EP	NE	14							
	PPP	N	32 44							
	SS	ZNE	39 00							
	SSS	ZE	43 16							
	SSSS	ZE	46 52							
	EL	ZNE	49 30							
	EMAX	NE	54							
	MAX	ZNE	57							
	MAX	ZN	11 09							
	ET	ZNE	44 11							
	RAO EP	Z	10 31 16	79						
	RAR EP	ZNE	10 31 24	81						
	ES	ZNE	41 28							
	IL	ZNE	55 30							
	SBA EPKP	ZNE	10 37 55	122						
	PPP	ZNE	39 37							
JAN 29	15 43 19.1		33 8S 179.3W	33KM	5.1	S OF KERMADEC IS.				
	RAO EP	Z	15 44 21	5						
	ES	Z	45 20							
	SUV EP	Z	15 47 48	16						
	AFI EP	Z	15 48 01	21	-1.11	5.1				
	ES	ZNE	51 37							
	EL	ZNE	52 06							
	EL	ZNE	53 12							
	ET	ZNE	16 08 46							
	SBA EP	ZNE	15 53 26	45						



	H	M	S	EPICENTRE	DEPTH	MAG									
JAN 29	16	42	50.4	43.5N 147.2E	36KM	5.7	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES		ZNE 17 03 12		68									
				NE 09 00											
				ZN 13 30											
JAN 29	20	52	21.3	56.4N 153.6W	6KM	5.2	KODIAK IS								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES		ZNE 21 13 18		72									
				E 22 00											
				ZN 23 24											
JAN 30	01	53	59.9	20.7S 173.6W	590KM	4.5	FIJI								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZNE 01 55 12		9									
				ZNE 57 56											
JAN 30	03	44	24.4	6.1S 113.3E	594KM	6.2	JAVA								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	CBZ	P		Z 03 54 07		65									
	RAO	EP		Z 03 54 28		69									
				Z 55 18											
				Z 57 13											
	AFI	IP		ZNE 03 55 03.40SW		74	0.15								
				ZNE 57 06											
	SBA	IP		ZNE 03 55 17.20		77	0.23								
				ZNE 57 27											
				ZNE 04 04 15											
				ZNE 03 56 00		85									
JAN 30	RAO	EP		Z 06 13 29											
				Z 19 45											
	AFI	EP		ZNE 06 19 22											
				ZNE 21 03											
				ZNE 29 10											
				ZNE 06 20 19											
				ZNE 22 46											
JAN 30	20	12	41.7	22.0S 69.5W	118KM	5.3	N CHILE								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP		ZNE 20 24 15		75									
JAN 31	01	20	44.4	17.9S 173.1W	632KM	4.4	FIJI								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	SUV	EP		Z 01 21 58		3									
JAN 31	02	58	29.8	6.9S 130.3E	22KM	5.5	BANDA SEA								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZE 03 03 43		57									
JAN 31	SBA	ES		ZNE 22 47 27											
				ZNE 55 00											
FEB 01	AFI	EP		ZNE 06 44 55											
				ZNE 43 41											
FEB 01	15	45	30.2	29.3S 173.5W	234KM	4.2	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
						17									

	ES	ZNE	51 28												
FEB 01	16	25	12.3	22.5S 170.7E	33KM		LOYALTY IS								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		Z 16 29 24		19									
FEB 01	23	13	47.2	18.5S 169.0E	228KM	5.1	NEW HEBRIDES								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		Z 23 17 51		19									
				Z 19 35											
FEB 02	00	44	02.1	19.9S 173.2W	366KM	4.4	FIJI								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZNE 00 47 55		9									
FEB 02	09	39	28.3	7.9S 127.0E	116KM	5.4	BANDA SEA								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZE 09 49 32		60	-1.36								
				NE 53 18											
FEB 02	09	50	41.2	22.2S 171.3E	95KM	5.1	LOYALTY IS								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		Z 09 54 42		18									
	SBA	EP		ZNE 10 00 00		56									
FEB 02	18	28	46.0	22.8S 175.0W	45KM	4.7	TONGA								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP		Z 18 30 24		7									
				Z 31 44											
	AFI	EP		ZNE 18 30 51		9									
				ZNE 32 29											
				ZNE 39 37											
				ZNE 18 31 56		14									
				E 34 20											
				Z 35 38											
FEB 02	18	46	14.1	16.0S 177.9W	417KM	4.7	FIJI								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	IP		ZNE 18 47 51.50		6	-0.08								
				ZNE 49 04											
				Z 51 33											
FEB 03	05	16	18.6	17.5S 175.3E	33KM	5.1	FIJI								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZNE 05 19 07		12									
				ZNE 21 32											
FEB 03	05	36	14.6	16.7N 99.4W	9KM	5.7	NEAR GUERRERO, MEXICO								
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		Z 05 48 13		78									
				NE 53 00											
				ZNE 06 03 00											
				N 05 42											
				NE 03 24											
				ZE 11 36											
FEB 03	AFI	EP		ZNE 19 51 17											
				ZNE 59											
				ZNE 54 50											

H	M	S	EPICENTRE	DEPTH	MAG									
			H 1 S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
FEB 04	11 00	50.1	43.0V 147.1E	33KM	5.5	KURILE IS								
	AFI	EP	Z 11 11 57		68									
		ES	ZN 20 26											
		ES	NE 21 00											
		ESSS	E 23 30											
		EL	N 30 36											
		EL	ZE 31 30											
FEB 04	16 26	18.2	23.3S 173.0W	40KM	4.9	TONGA								
	RAO	EP	Z 16 27 54		6									
		ES	Z 29 09.5											
	AFI	IP	ZNE 16 23 27.3J		10									
		S	ZNE 30 03											
		L	ZNE 31 06											
		ET	ZNE 37 06											
	RAR	P	ZNE 16 29 27.5		14									
		ES	ZNE 31 53											
		LQ	E 32 08											
FEB 04	AFI	EP	ZNE 19 13 37											
		S	ZNE 14 00											
		ET	ZNE 13 42											
FEB 04	19 17	36.5	20.8V 174.3W	34KM	4.7	TONGA								
	AFI	EP	ZNE 19 19 16		35									
		ES	ZNE 20 31											
		EL	ZNE 21 30											
		ET	ZNE 25 16											
FEB 04	19 32	13.8	20.5S 174.0W	33KM	4.5	TONGA								
	AFI	EP	ZNE 19 33 93		7									
		S	ZNE 35 10											
		EL	ZNE 36 00											
		ET	ZNE 41 03											
FEB 05	AFI	EP	Z 20 34.47											
		S	ZNE 35 15											
		ET	ZNE 37 19											
FEB 06	SUV	EP	Z 05 53 92.0											
	AFI	EP	ZNE 05 54 53											
		E(S)	NE 57 03											
FEB 06	AFI	EP	ZE 14 46 36											
		ES	ZNE 47 33											
FEB 07	AFI	EP	ZNE 07 19 39											
		S	ZNE 56											
FEB 07	13 10	52.3	29.3S 177.7E	491KM	4.5	S OF FIJI								
	RAO	EP	Z 13 12 14.5		4									
	AFI	EP	ZNE 13 13 50		14									
		ES	ZNE 15 14											
FEB 08	AFI	EP	ZNE 04 03 37											
		S	ZNE 56											

H	M	S	EPICENTRE	DEPTH	MAG									
			H 1 S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
FEB 08	AFI	EP	ZNE 10 45 22											
		S	ZNE 47											
		T	ZNE 47 44											
FEB 09	18 06	28.2	22.6S 173.1W	50KM	5.0	TONGA								
	RAO	ES	Z 18 09 23		7									
	AFI	EP	ZE 18 09 30		9									
		S	ZNE 10 09											
	RAR	EP	Z 18 09 34		14									
		LQ	N 12											
FEB 10	05 29	13.8	18.0S 177.9W	433KM	4.2	FIJI								
	AFI	EP	ZNE 05 31 07		7									
		S	ZNE 32 39											
FEB 10	AFI	EP	Z 14 04 50											
		S	ZNE 05 43											
FEB 12	SBA	EP	ZNE 02 59 34.5											
		ES	ZNE 03 03 22											
FEB 12	05 44	47.6	5.5S 153.2E	74KM		NEW IRELAND								
	RAR	EP	ZNE 05 53 21		48									
		ES	ZNE 06 00 10											
		ELQ	NE 03 12											
		LR	Z 07 06											
	CBZ	EP	Z 05 53 28		49									
	SBA	EP	ZNE 05 56 11.5		73									
		ES	ZNE 06 05 36											
		ESS	ZNE 10 00											
		ELQ	ZNE 14 00											
		ELR	ZNE 19 40											
FEB 13	02 12	31.5	5.5S 131.1E	67KM	5.8	BANDA SEA								
	AFI	EP	Z 02 22 11		57									
FEB 13	AFI	E	ZNE 12 09 54											
FEB 13	AFI	EP	Z 13 50 40											
		E(S)	ZNE 52 00											
FEB 13	14 06	20.3	5.5S 153.0E	34KM	5.0	NEW IRELAND								
	AFI	EP	Z 14 13 17		36									
		EL	ZNE 23 54											
FEB 14	AFI	EP	ZNE 02 04 28											
		S	ZNE 53											
		ET	ZNE 06 39											
FEB 14	AFI	EP	ZNE 09 46 49											
		S	ZNE 47 21											
FEB 14	AFI	E(P)	ZE 12 01 46											
		E(S)	ZNE 03 11											
FEB 14	AFI	EP	ZNE 15 29 48											
		S	ZNE 30 34											















MAR 09	AFI EP	ZNE 22 30 20							
MAR 09	AFI EP E	ZNE 22 33 04 ZNE 35 15							
MAR 09	H M S 22 36 20.2	EPICENTRE 21.7S 173.9W	DEPTH 4AG 544KM	MAG 4.5	FIJI				
	RAO ES AFI EP ES	H 4 S Z 22 40 00 ZNE 22 33 40 ZNE 40 37	DIR DIS LG <sub>A</sub> /T 8 10		AZ TZ AN TN AE TE MAG				
MAR 09	AFI EP IS	ZNE 23 53 46 ZNE 59 02							
MAR 10	AFI EP S	ZNE 02 34 42 ZNE 33 02							
MAR 10	AFI IP S	ZNE 06 39 58.3D NE 41 32							
MAR 10	H M S 07 11 22.1	EPICENTRE 36.3S 179.4E	DEPTH 4AG 76KM	MAG 5.7	E OF NORTH IS NZ				
	RAO EP ES CBZ EP SUV EP AFI IP I ES EL ET SBA EP	H 4 S Z 07 13 02 Z 14 16 Z 07 13 27 Z 07 13 42 ZNE 07 15 26.6J Z 46 ZNE 20 36 ZNE 22 06 ZNE 40 23 ZNE 07 19 11	DIR DIS LG <sub>A</sub> /T 7		AZ TZ AN TN AE TE MAG				
MAR 10	SUV EP	Z 08 16 23							
MAR 10	AFI IP IS	ZNE 11 54 32.3J ZNE 53							
MAR 10	AFI EP ES	ZNE 16 20 25 ZNE 21 18							
MAR 10	AFI EP ES	ZNE 23 56 01 ZNE 45							
MAR 11	H M S 08 26 32.8	EPICENTRE 16.2S 173.9W	DEPTH 4AG 112KM	MAG 6.0	TONGA				
	AFI IP SUV EP RAO EP ES RAR EP IS CBZ EP SBA EP ES ELQ ELR	H 4 S ZNE 08 27 15.9JNE Z 08 29 27 Z 08 29 37 Z 32 00 ZNE 08 29 50 E 32 20 Z 08 33 48 ZNE 08 35 48 ZNE 45 13 E 92 30 ZNE 59 03	DIR DIS LG <sub>A</sub> /T 3 9 14		AZ TZ AN TN AE TE MAG				
MAR 11	AFI EP ES	ZNE 10 07 04 ZNE 37							
MAR 11	AFI EP S	ZNE 13 33 18 ZNE 34 09							

	AFI EP S EIT)	ZNE 15 01 25 ZNE 03 25 ZNE 12 10 Z 15 02 29							
	AFI EP ES	ZNE 18 03 17 ZNE 47							
	AFI EP ES ET	ZNE 01 23 24 ZNE 29 06 ZNE 31 42							
	AFI EP S	ZNE 08 23 19 ZNE 41							
	AFI EP S EIT)	ZNE 09 34 22 ZNE 39 36 ZNE 41 29							
	AFI EP S I EP EP	ZNE 11 56 56 ZNE 57 27 ZNE 59 20 Z 11 53 00 ZNE 11 59 12							
	H M S 23 34.1	EPICENTRE 14.9S 175.9W	DEPTH 4AG 33KM	MAG 5.3	FIJI				
	AFI IP I T	H 4 S ZNE 18 24 38 ZNE 25 32 ZNE 23 45	DIR DIS LG <sub>A</sub> /T 9		AZ TZ AN TN AE TE MAG				
	H M S 24 39 28.0	EPICENTRE 24.3S 179.0E	DEPTH 4AG 472KM	MAG 4.5	S OF FIJI				
	AFI EP ES	H 4 S ZNE 19 02 13.5 ZNE 04 31	DIR DIS LG <sub>A</sub> /T 14		AZ TZ AN TN AE TE MAG				
	H M S 21 24 27.1	EPICENTRE 6.1S 150.3E	DEPTH 4AG 47KM	MAG 4.8	NEW BRITAIN				
	AFI EP ES	H 4 S NE 21 40 40 Z 43 30	DIR DIS LG <sub>A</sub> /T 38		AZ TZ AN TN AE TE MAG				
	H M S 23 21.2	EPICENTRE 32.7S 180.0W	DEPTH 4AG 39KM	MAG 4.7	S OF KERMADEC IS				
	AFI EP	H 4 S Z 03 39 37	DIR DIS LG <sub>A</sub> /T 4		AZ TZ AN TN AE TE MAG				
	H M S 23 23 32.1	EPICENTRE 20.5S 173.1W	DEPTH 4AG 520KM	MAG 5.0	FIJI				
	SUV EP AFI IP IS RAF EP ES RAF IP SBA IP	H 4 S Z 20 25 59 ZNE 20 27 34 ZNE 29 10 Z 20 27 35 Z 29 09 ZNE 20 29 02 ZNE 20 34 37.3	DIR DIS LG <sub>A</sub> /T 4 9 17 58		AZ TZ AN TN AE TE MAG				
	AFI EP IS T	ZNE 09 57 42 NE 59 21 ZNE 10 01 04							
	AFI EP S EIT)	ZNE 12 39 48 ZNE 40 27 ZNE 43 13							





RAR	EP	ZNE	19	21	38	17
L		N				
MAR 20	AFI IP	ZNE 00 24 29.00				
	S	ZNE 49				
MAR 20	AFI IP	ZNE 04 11 54.8J				
	IS	ZNE 12 21				
MAR 20	AFI IP	ZNE 08 57 57.40				
	S	ZNE 55 22				
MAR 20	H M S	EPICENTRE	DEPTH	MAG		
	12 53 09.8	15.1S 175.4W	33KM	4.8	TONGA	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	AFI IP	ZNE 12 54 23.70				
	S	ZNE 43				
MAR 21	AFI IP	ZNE 16 31 21.6J				
	IS	ZNE 42				
MAR 22	H M S	EPICENTRE	DEPTH	MAG		
	09 15 12.3	13.1N 145.5E	50KM	5.4	MARIANA IS	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	SUV EP	Z 09 14 53		45		
	AFI ES	ZNE 09 31 20		50		
	EL	ZN 37 44				
	EL	ZNE 39 54				
MAR 23	SUV EP	Z 02 50 27				
	AFI EIP	ZNE 02 50 55				
	ES	ZNE 52 25				
MAR 23	AFI IP	ZNE 11 53 31 0				
	(S)	ZNE 49				
MAR 23	SUV EP	Z 16 13 06				
	AFI EP	Z 16 15 50				
	ES	ZNE 13 15				
MAR 24	AFI IP	ZNE 03 04 17				
	EIS	ZNE 41				
MAR 25	H M S	EPICENTRE	DEPTH	MAG		
	02 56 37.1	20.0S 163.9E	21KM	5.0	LOYALTY IS	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	SUV EP	Z 02 53 56		9		
	AFI EP	ZNE 03 01 05		19		
	E	ZNE 05 24				
MAR 26	H M S	EPICENTRE	DEPTH	MAG		
	00 41 56.9	6.6S 115.1E	520KM	5.9	BALI SEA	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	SUV EP	Z 00 51 24		62		
	AFI IP	ZNE 00 52 25.50		71		
	SBA IP	ZNE 00 52 50.50		75		
	RAR IP	ZNE 00 53 24		82		
MAR 26	H M S	EPICENTRE	DEPTH	MAG		
	04 51 02.5	16.3S 167.8E	22KM	5.1	NEW HEBRIDES	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	AFI EP	Z 04 53 40.1		20		
MAR 26	H M S	EPICENTRE	DEPTH	MAG		
	07 09 15.2	16.1S 172.2W	33KM	4.3	SAMOA	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG
	AFI IP	ZNE 07 09 49.6J		2		

	Z	12 33 18				
	ZNE	14 15 28.6J				
	ZNE	43				
	EPICENTRE	DEPTH	MAG			
	20.5S 173.7W	603KM	4.5	FIJI		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	Z	14 35 50		4		
	ZNE	14 35 56		9		
	ZNE	33 35				
	EPICENTRE	DEPTH	MAG			
	8.1N 125.3E	33KM	5.4	MINDANAO, PHILIPPINE IS		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	ZNE	19 51 18		65		
	ZN	20 07 24				
	ZN	11 16				
	ZNE	19 53 28		89		
	EPICENTRE	DEPTH	MAG			
	30.3S 173.0W	50KM	4.9	KERMADEC IS		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	Z	21 25 17		1		
	ZNE	21 23 54		17		
	ZNE	31 55				
	Z	21 33 37		43		
	EPICENTRE	DEPTH	MAG			
	19.9S 195.1W	225KM	4.5	FIJI		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	ZNE	12 33 39		24		
	ZNE	34 50				
	EPICENTRE	DEPTH	MAG			
	25.5S 179.6E	525KM	5.0	S OF FIJI		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	Z	21 12 23		4		
	Z	21 12 48.80		7		
	ZNE	21 13 55.40		14	-0.81	
	ZNE	16 16				
	Z	21 14 52		19		
	EPICENTRE	DEPTH	MAG			
	4.3S 133.3E	33KM	5.5	W NEW GUINEA		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	ZNE	22 45 13		55		
	ZN	54 08				
	ZN	57 24				
	ZN	23 01 04				
	ZE	03 36				
	ZNE	22 48 30		76		
	ZNE	55 12				
	ZNE	23 11 05				
	EPICENTRE	DEPTH	MAG			
	15.1N 92.1W	111KM	5.2	CENTRAL AMERICA		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	Z	01 45 36		84		
	EPICENTRE	DEPTH	MAG			
	10.8S 166.0E	42KM	5.2	SANTA CRUZ IS		
	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN AE TE MAG	
	Z	05 43 35		14		

	AFI	EP	ZNE	05 49 59	22														
		I	Z	50 12															
		ES	ZN	54 08															
		EL	ZNE	55 40															
	SBA	EP	ZNE	05 55 57	67														
	H M S		EPICENTRE	DEPTH	MAG														
MAR 26	07 39 57.1		37.94 20.9E	50KM	5.4	IONIAN SEA													
	AFI	EPKP	Z	08 00 01	154														
MAR 28	SUV	EP	Z	17 13 44															
MAR 20	AFI	EP	ZNE	17 34 33															
		ES	ZNE	35 19															
MAR 29	AFI	E(P)	Z	08 37 50															
MAR 29	AFI	EP	Z	15 57 37															
		E(S)	NE	59 11															
	RAR	EP	ZN	15 59 43															
	H M S		EPICENTRE	DEPTH	MAG														
MAR 30	00 44 20.9		21.5S 179.4W	626KM	4.6	FIJI													
	RAO	EP	Z	00 45 16	8														
		E	Z	47 39															
		ES	Z	50															
	AFI	EP	ZNE	00 45 38	10	-0.92													
		EIS	ZNE	45 30															
	H M S		EPICENTRE	DEPTH	MAG														
MAR 30	02 57 44		18.0S 173.2W	620KM	4.2	FIJI													
	AFI	IP	Z	02 59 34.30	7	-0.21													
	RAR	EP	Z	03 01 13	18														
MAR 30	AFI	IP	ZNE	08 19 04															
		ES	ZNE	20 32															
	H M S		EPICENTRE	DEPTH	MAG														
MAR 30	19 18 47.5		21.2S 174.2W	70KM	4.6	TONGA													
	AFI	EP	ZNE	19 20 26	8														
		S	ZNE	21 44															
		ET	ZNE	27 07															
	SUV	EP	Z	19 20 39	8														
	RAO	ES	Z	19 22 26	9														
	RAR	EP	Z	19 21 46	13														
MAR 30	AFI	EIP	ZNE	22 15 25															
		EIS	ZNE	15 55															
	RAR	EP	Z	22 15 41															
MAR 31	AFI	EP	ZNE	00 41 59															
		S	ZNE	42 36															
MAR 31	AFI	EP	ZE	10 44 19															
		S	ZE	52															
		T	ZE	47 33															
MAR 31	AFI	EP	ZE	12 55 30															
		S	ZE	45 53															
	H M S		EPICENTRE	DEPTH	MAG														
MAR 31	13 50 37.8		16.3S 168.4E	243KM	4.9	NEW HEBRIDES													
	RAO	EP	Z	13 54 36	19														

	AFI	EP	ZNE	13 54 45	19	-1.35													
		EP	ZNE	14 00 32	62														
	SBA	EP	Z	14 21 30															
	H M S		EPICENTRE	DEPTH	MAG														
	07 08 40.2		16.1S 173.0W	280KM	4.2	TONGA													
			H 1 S	DIR DIS LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
			ZE	00 07 41	4														
			ZE	08 26															
	H M S		EPICENTRE	DEPTH	MAG														
	00 42 04.2		32.5N 132.2E	33KM	5.1	SHIKOKU, JAPAN													
			H 1 S	DIR DIS LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
			ZE	00 53 19	71														
			ZNE	00 55 50	112														
			ZNE	01 00 19															
			ZNE	01 04															
			ZNE	07 19															
			ZNE	09 00															
			ZNE	11 00															
			ZNE	15 44															
			ZNE	27 46															
			ZNE	33 10															
			ZNE	02 24 30															
			ZNE	58															
			ZNE	27 47															
	H M S		EPICENTRE	DEPTH	MAG														
	02 24 03.4		5.9S 145.6E	50KM	4.9	E NEW GUINEA													
			H 1 S	DIR DIS LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
			Z	02 31 50	42														
	H M S		EPICENTRE	DEPTH	MAG														
	04 35 48.0		2.9S 133.9E	33KM	5.5	W NEW GUINEA													
			H 1 S	DIR DIS LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
			ZE	06 45 17	55														
			ZNE	06 47 39.5	77														
	H M S		EPICENTRE	DEPTH	MAG														
	07 13 17.6		32.3N 132.1E	32KM	3.7	SHIKOKU, JAPAN													
			H 1 S	DIR DIS LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
			Z	07 24 32	71														
			ZNE	33 48															
			ZNE	41 48															
			ZN	45 44															
			ZNE	07 32 42	112														
			ZNE	39 35															
			ZNE	42 10															
			ZNE	48 11															
			ZNE	07 35 16															
			NE	46															
			ZNE	10 30 36															
			ZNE	31 06															
			Z	19 07 11.8J															
			ZNE	31					</										





H	M	S	EPICENTRE	DEPTH	MAG	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
APR 07	04	40	19.3	51.5N 175.5E	33KM	3.3										
				H 4 S												
	AFI	ES	ZNE	05 00 00												
		EL	ZN	10 00 00												
	RAR	ES?	NE	05 02 07												
		ELR	ZN	15 25 25												
	SBA	EPKP	ZNE	04 59 44												
		EPP	ZNE	05 01 28												
APR 07	SUV	EP	Z	19 44 11												
APR 08	AFI	EP	Z	03 59 30												
		E(S)	NE	04 00 39												
		E(T)	ZNE	03 44												
APR 08	10	34	56.8	17.5S 173.1W	33KM	4.2										
				H 4 S												
	AFI	EP	ZNE	10 35 48												
		S	ZNE	35 24												
		T	ZNE	39 28												
APR 08	AFI	IP	Z	13 02 21												
APR 08	AFI	IP	Z	18 12 13.60												
		S	ZNE	13 02												
APR 09	02	28	58.9	33.1N 115.1W	20KM	5.1										
				H 4 S												
	AFI	EP	ZNE	02 40 18												
		ES	ZNE	49 36												
		E	ZE	53 56												
		EL	NE	57 36												
		IL	ZNE	03 01 07												
	SBA	EPS	ZNE	02 59 12												
		ESS	ZNE	03 05 05												
		ESSS	ZNE	10 20												
		ELQ	ZNE	19 10												
		ELR	ZNE	24 30												
APR 09	SUV	EP	Z	11 01 39												
APR 09	11	27	39.0	17.8S 173.2W	650KM	5.2										
				H 4 S												
	SUV	EP	Z	11 29 02												
	AFI	IP	ZNE	11 29 34												
		IS	ZNE	31 07												
	RAO	EP	Z	11 30 09												
APR 09	AFI	IP	ZNE	18 19 10.1J												
		IS	ZNE	30												
APR 10	05	01	07.0	23.5S 179.6W	435KM	4.3										
				H 4 S												
	AFI	EIP	ZNE	05 03 53												
		S	NE	05 00												
APR 10	AFI	IP	ZNE	13 09 10												
		ES	ZNE	10 45												

OUTBREAK OF LOCAL ACTIVITY AT RAO BEGINS ON APR 10 AT 18H 37M

H	M	S	EPICENTRE	DEPTH	MAG	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
APR 10	22	65	171.5E	50KM	4.2											
				H 4 S												
	SUV	EP	Z	18 34 04												
	AFI	EIP	ZNE	18 36 17												
		IS	N	37 56												
		I	Z	41 09												
	SBA	ES	ZNE	18 41 38												
		EPP	ZNE	49 26												
		ELR	ZNE	53 30												
APR 10	16	11	26													
APR 10	20	05	02													
APR 10	20	17	29.0J													
			Z	20 50												
			ZNE	20 19 48												
			ZNE	20 09												
			ZN	20 39 18												
APR 10	18	19	179.1W	471KM	4.2											
				H 4 S												
	AFI	IP	Z	06 13 43.40												
		EIS	ZNE	20 07												
		IS	Z	14 05 56												
		IS	ZNE	05 26												
APR 10	20	35	38.3	20.3S 177.9W	459KM	4.6										
				H 4 S												
	AFI	IP	Z	16 37 42.2												
		EIS	ZNE	39 18												
	RAO	EP	Z	16 39 15												
		ES	Z	27												
	SBA	EP	ZNE	16 44 48.5												
APR 10	18	18	56.7	19.8S 175.0W	158KM	4.2										
				H 4 S												
	AFI	EP	Z	18 20 39												
		ES	ZNE	21 50												
	AFI	IP	ZNE	00 13 14												
		ES	ZNE	19 16												
	AFI	EP	Z	02 29 50												
		ES	ZNE	30 45												
APR 10	14	47	14.9	17.5S 173.8W	550KM	4.6										
				H 4 S												
	SUV	EP	Z	14 48 33												
	AFI	IP	ZNE	14 49 06												
		S	ZNE	50 35												
	AFI	IP	Z	15 10 43.20												
		S	ZNE	11 03												
	AFI	EP	Z	22 01 19												
		IS	ZNE	42												
	AFI	EP	ZNE	11 50 57												
		IS	ZNE	51 21												





	S	ZNE	23 13	
APR 24	AFI IP	ZE 02 12 07	JE	
	S	ZNE	27	
APR 24	AFI EP	ZNE 08 19 53		
	S	ZNE	20 11	
APR 24	H M S	EPICENTRE	DEPTH	MAG
	08 18 02.5	39.3N 124.9E	17KM	5.2
		H 1 S	DIR DIS	AEGEAN SEA
	AFI EPKP	ZNE 08 37 55	151	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
APR 24	H M S	EPICENTRE	DEPTH	MAG
	13 59 14.5	4.6S 147.4E	555KM	3.0
		H 1 S	DIR DIS	BISMARCK SEA
	AFI IP	Z 14 05 58	39	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
	SBA EP	ZNE 14 09 53	74	
APR 24	AFI IP	Z 16 24 16	J	
	ES	ZNE	25 52	
APR 24	AFI EP	ZNE 18 25 37		
	IS	ZNE	59	
APR 24	H M S	EPICENTRE	DEPTH	MAG
	19 31 49.5	5.0S 149.4E	33KM	5.2
		H 1 S	DIR DIS	CHAGOS ARCHIPELAGO
	SBA EP	ZNE 19 44 33	87	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
APR 24	H M S	EPICENTRE	DEPTH	MAG
	22 35 53.3	20.9S 177.2W	640KM	4.3
		H 1 S	DIR DIS	FIJI
	AFI IP	Z 22 39 10	10	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
	ES	ZNE	40 00	
APR 24	H M S	EPICENTRE	DEPTH	MAG
	23 44 46.2	6.9S 129.2E	32KM	5.1
		H 1 S	DIR DIS	BANDA SEA
	AFI EP	ZNE 23 54 38	58	-1.20 LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
	E	NE 24 03 00		
	EL	ZE	13 12	
APR 25	H M S	EPICENTRE	DEPTH	MAG
	17 14 27.7	7.1S 156.2E	419KM	5.0
		H 1 S	DIR DIS	SOLOMON IS
	AFI E(S)	NE 17 27 12	32	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
APR 25	H M S	EPICENTRE	DEPTH	MAG
	17 42 08.7	4.5S 155.1E	476KM	4.7
		H 1 S	DIR DIS	SOLOMON IS
	AFI EP	ZNE 17 48 15	34	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
APR 25	H M S	EPICENTRE	DEPTH	MAG
	21 25 36.1	15.2S 173.1W	33KM	5.2
		H 1 S	DIR DIS	TONGA
	AFI IP	ZNE 21 25 58.8DSW	2	LG <sub>a</sub> /T AZ TZ AN TN AE TE MAG
	SBA EP	ZNE 21 36 05	63	
APR 25	AFI IP	ZNE 23 24 08		
	S	ZNE	24	
APR 25	AFI IP	Z 23 52 03.2		
	S	ZNE	21	

	H M S	EPICENTRE	DEPTH	MAG	
	22 42 34.9	15.3S 173.1W	33KM	5.3	TONGA
		H 1 S	DIR DIS	LG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	AFI IP	ZNE 00 42 57.5DSW	2		
	SBA EP	ZNE 00 53 04	63		
	ES	ZNE 01 01 41			
	EL	ZNE 09 20			
	H M S	EPICENTRE	DEPTH	MAG	
	24 29.7	15.1S 172.6W	33KM	4.5	SAMOA
		H 1 S	DIR DIS	LG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	AFI IP	ZNE 04 24 51.2J	1		
	S	ZNE 25 10			
	AFI EP	ZNE 04 56 04			
	S	ZNE	21		
	AFI IP	Z 05 25 48.5J			
	S	ZNE	26 09		
	AFI EP	ZNE 07 22 30			
	E(S)	ZNE	23 59		
	AFI IP	ZNE 15 01 32	D		
	IS	ZNE	51		
	AFI EP	ZNE 16 19 31			
	S	ZNE	49		
	AFI IP	ZNE 17 00 55.8J			
	S	ZNE	01 14		
	H M S	EPICENTRE	DEPTH	MAG	
	17 48 02.3	18.7N 103.3W	65KM	5.5	NEAR MEXICO
		H 1 S	DIR DIS	LG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	AFI EP	Z 17 59 46	75		
	ES	ZNE 18 09 16			
	ESS	ZNE	14 00		
	ESSS	ZNE	17 32		
	EL	ZNE	22 00		
	AFI EP(P)	ZNE 21 19 02			
	AFI EP	ZNE 06 36 49			
	H M S	EPICENTRE	DEPTH	MAG	
	10 58 21.5	10.5S 165.1E	75KM	5.1	SANTA CRUZ IS
		H 1 S	DIR DIS	LG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	AFI EP	Z 11 03 19	23		
	ES	N 03 02			
	EL	ZE 09 08			
	SBA EP	ZNE 11 09 11.5	67		
	H M S	EPICENTRE	DEPTH	MAG	
	11 57 50.1	21.2S 179.2W	670KM	4.5	FIJI
		H 1 S	DIR DIS	LG <sub>a</sub> /T	AZ TZ AN TN AE TE MAG
	AFI EP	Z 13 59 11	8		
	ES	Z 14 01 13			
	AFI IP	ZNE 14 00 06.8	10	-1.13	
	S	ZNE	01 56		
	AFI EP	ZNE 15 04 42			
	S	ZNE	05 00		
	AFI IP	ZNE 16 30 55.20			
	ES	ZNE	32 25		



APR 27	AFI EP	ZNE 18 01 15							
	ES	ZNE 02 45							
APR 27	AFI EP	ZNE 19 47 07							
	IS	ZNE 25							
APR 28	AFI E(P)	Z 13 24 47							
	E(S)	ZNE 25 24							
APR 28	AFI EP	ZNE 16 40 29							
	S	ZNE 46							
APR 28	AFI EP	ZNE 18 20 44							
	S	ZNE 21 02							
APR 28	AFI EIP	ZNE 21 03 19							
	S	ZNE 40							
APR 29	H M S	EPICENTRE	DEPTH	MAG					
	09 32 56.8	21.3S 179.5W	640KM	4.5	FIJI				
	RAO IP	Z 09 34 52.5J							
	ES	Z 35 27							
	AFI EP	ZNE 09 35 15		10					
	ES	ZNE 37 06							
	SBA EP	ZNE 09 41 46		57					
APR 30	AFI IP	ZNE 05 45 05.6J							
	IS	ZNE 27							
APR 30	AFI EP	ZNE 14 03 51							
	IS	ZNE 04 11							
APR 30	H M S	EPICENTRE	DEPTH	MAG					
	18 45 24.0	21.4S 174.5W	197KM	4.5	TONGA				
	AFI (P)	ZNE 18 46 51							
	(P)	ZNE 47 17							
	ES	ZNE 43 11							
	ES	NE 32							
	E	Z 49 26							
	ET	ZNE 54 03							
APR 30	H M S	EPICENTRE	DEPTH	MAG					
	23 51 17.9	38.4S 71.1W	40KM	5.9	S. ANDES				
	SBA EP	ZNE 24 01 15.5		59					
MAY 01	AFI EIP	ZNE 01 30 13							
	S	ZNE 38							
MAY 01	H M S	EPICENTRE	DEPTH	MAG					
	01 40 59.4	31.0S 179.7W	320KM	4.7	KERMADEC IS				
	RAO EP	Z 01 42 05		2					
	ES	Z 41							
MAY 01	H M S	EPICENTRE	DEPTH	MAG					
	04 31 09.7	2.9S 123.0E	26KM	5.4	CERAH SEA				
	AFI EP	ZNE 04 41 20		60					
	ES	NE 49 44							
	E	N 56 48							
	EL	ZE 05 01 20							
	SBA EP	ZNE 04 43 05		78					

H M S	EPICENTRE	DEPTH	MAG						
19 55 10.0	1.6N 127.7E	191KM	5.2	HALMAHERA					
AFI EP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
	ZE 06 03 12	62							
H M S	EPICENTRE	DEPTH	MAG						
18 43 47.4	38.6N 143.1E	36KM	5.3	E OF HONSHU, JAPAN					
AFI EP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
	NE 09 04 00	67							
AFI ES	ZNE 14 00								
AFI EP	ZNE 18 11 03								
AFI ES	ZNE 12 38								
H M S	EPICENTRE	DEPTH	MAG						
12 23 14.7	17.6S 179.7W	504KM	4.1	FIJI					
AFI IP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
ES	ZNE 13 05 11.00	9							
	ZNE 06 36								
H M S	EPICENTRE	DEPTH	MAG						
23 25 23.6	6.4S 129.9E	128KM	5.5	BANDA SEA					
AFI EIP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
ES	ZNE 23 35 44	58	-0.71						6.4
ES	ZNE 43 32								
ES	NE 50 16								
E	Z 51 00								
EL	ZE 54 04								
SBA EP	ZNE 23 37 27	74							
ES	ZNE 46 48								
ES	ZNE 51 34								
H M S	EPICENTRE	DEPTH	MAG						
11 58 20.1	15.7S 173.2W	119KM	4.5	TONGA					
AFI EP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
S	ZNE 00 50 38	2							
	ZNE 51 00								
H M S	EPICENTRE	DEPTH	MAG						
13 32 45.7	25.1N 124.6E	98KM	5.8	NE OF TAIWAN					
AFI EIP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
ES	ZNE 05 44 09	73	-0.68						6.2
ES	NE 53 36								
ES	NE 57 56								
ES	NE 06 01 24								
EL	Z 05 20								
SBA EP	ZNE 05 51 10	106							
H M S	EPICENTRE	DEPTH	MAG						
13 55 37.0	20.7S 173.8W	632KM	4.2	FIJI					
RAO ES	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
AFI EP	Z 05 59 12	9							
ES	ZNE 05 57 38	10							
	ZNE 59 20								
AFI IP	ZNE 06 02 50.0J								
IS	ZNE 03 11								
H M S	EPICENTRE	DEPTH	MAG						
11 37 37.0	26.6S 173.5E	678KM	4.7	S OF FIJI					
RAO EP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ	TZ	AN	TN	AE	TE
ES	Z 11 39 17	4							
ES	Z 40 46								
AFI EP	Z 11 41 09	16							
ES	ZNE 43 42								

	H	M	S	EPICENTRE	DEPTH	MAG	
MAY 03	20	09	24.0	54.5S 133.8W	33KM	4.2	S OF PACIFIC CORDILLERA
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	ES		ZNE 20 23 24		49	
		ESSS		E 29 24			
		E		N 52			
		EL		ZN 31 28			
MAY 03	AFI	EIP		ZNE 21 24 45			
		S		ZNE 23 06			
MAY 04	AFI	EP		ZNE 05 43 42.6			
		S		ZNE 59			
MAY 04	AFI	E(P)		ZNE 06 45 24			
MAY 04	AFI	EP?		ZNE 08 56 06			
MAY 04	AFI	EP		ZNE 10 31 53			
		S		ZNE 32 10			
MAY 04	AFI	EIP		ZNE 12 33 16			
		S		ZNE 33			
MAY 04	RAO	EP		Z 17 00 32			
		ES		Z 01 48			
MAY 04	17	11	17.0	20.3S 177.8W	368KM	4.1	FIJI
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	EP		ZNE 17 13 15		9	
		S		ZNE 14 43			
	RAO	EP		Z 17 13 22		9	
		ES		Z 15 04			
MAY 05	AFI	EP		ZNE 01 12 47			
		IS		ZNE 13 33			
MAY 05	AFI	EP		ZNE 09 00 12			
		S		ZNE 28			
MAY 05	09	05	06.3	39.3S 174.7W	225KM	5.1	NORTH IS NZ
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	EP		ZNE 09 11 30		25	
	SBA	EP		ZNE 09 13 04		39	
MAY 05	10	47	15.5	16.6S 173.7W	37KM	5.0	FIJI
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	EP		ZE 10 50 11		5	
		ES		NE 52 36			
		ES		Z 53 08			
	SBA	EP		ZNE 10 57 30		62	
MAY 05	AFI	EP		ZNE 19 52 03			
		S		ZNE 20			
MAY 06	AFI	IP		Z 07 33 58		-1.07	
		EIS		ZNE 41 32			
MAY 06	AFI	EP		ZNE 16 33 14			
		S		ZNE 30			

	H	M	S	EPICENTRE	DEPTH	MAG	
	17	37	22.0	34.5S 179.3E	155KM	4.4	S OF KERMADEC IS
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	Z	17	38 39			6	
	Z	39	30				
	Z	44					
	ZNE	17	42 00		22		
	NE	45 00					
	NE	48 16					
	E						
	ZNE	02	52 34				
	AFI	E(P)		ZNE 04 24 14			
	AFI	IS		NE 23 07			
	Z	05	19 41.50				
	AFI	IP		ZNE 09 57 12			
	AFI	EP		ZNE 58 42			
	AFI	E(S)					
	AFI	EP		ZNE 10 42 44			
		S		ZNE 43 05			
	11	12	07.0	32.7S 173.6W	33KM	4.2	S OF KERMADEC IS
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	Z	11	11 49			3	
	Z	12	12				
	11	43	31.6	19.2S 177.6W	533KM	4.9	FIJI
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	ZNE	11	43 27.5			8 -0.22	
	ZNE	45	57				
	17	53	54.5	18.8S 178.1W	500KM	4.5	FIJI
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	ZNE	17	55 45.4J			9	
	ZNE	57	12				
	SBA	EP		ZNE 18 03 10.5		60	
	AFI	EP		ZNE 19 54 39		-1.11	
	18	10	08.7	17.8S 179.7W	589KM	4.7	FIJI
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	EP		ZNE 00 19 04		9 -0.61	
	AFI	IP		Z 04 11 47.1D			
		S		ZNE 12 04			
	17	15	37.0	21.9S 179.8E	554KM	3.8	S OF FIJI
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	AFI	IP		Z 07 13 09.1		11	
	18	11	07.4	58.0S 157.7W	33KM	5.7	MACQUARIE IS
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
	Z	11	02 15			20	
	Z	03	43				
	ZNE	11	04 42			23 -0.38	
	ZNE	03	11.5				6.0
	ZNE	03	38				
	ZNE	10	00				
	ZNE	11	00				





	EL	ZNE	29 10						
MAY 12	AFI IP S	Z	12 59 59						
		ZNE	13 00 20						
MAY 12	H M S	EPICENTRE	DEPTH	MAG					
	18 39 10.8	19.05 169.8E	16KM	5.1	NEW HEBRIDES				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI IP	Z	18 43 27.2	18					
	ES	ZNE	48 16						
	SBA EP	ZNE	18 49 11.5	59					
MAY 12	H M S	EPICENTRE	DEPTH	MAG					
	18 56 22.8	19.05 169.7E	5KM	4.6	NEW HEBRIDES				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	SBA EP	ZNE	19 05 25	59					
MAY 12	AFI E(P)	Z	20 15 44						
	(S)	NE	17 24						
MAY 13	H M S	EPICENTRE	DEPTH	MAG					
	02 53 37.2	29.75 175.7W	36KM	4.5	S OF FIJI				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	RAO EP	Z	02 54 38	4					
	ES	Z	55 25						
	AFI EP	ZNE	02 56 35	13					
	S	ZNE	59 40						
	ET	ZNE	03 03 03						
MAY 13	H M S	EPICENTRE	DEPTH	MAG					
	03 56 09.2	19.05 169.6E	13KM	5.1	NEW HEBRIDES				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EP	ZE	04 00 26	19					
	ES	ZNE	04 00						
	E	Z	05 20						
	SBA EP	ZNE	04 06 10	59					
	EL	ZNE	24 20						
MAY 13	AFI EP	Z	16 00 22						
	S	ZNE	41						
	I	ZNE	02 14						
MAY 13	H M S	EPICENTRE	DEPTH	MAG					
	21 04 13.0	13.05 14.7W	33KM	5.2	S ATLANTIC RIDGE				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	SBA EP	ZNE	21 15 56	89					
MAY 14	AFI EP	Z	01 15 09						
	S	ZNE	01 46						
MAY 14	H M S	EPICENTRE	DEPTH	MAG					
	01 15 24.9	18.6S 172.5W	39KM	5.0	TONGA				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EIP	ZNE	01 15 33	5					
	S	ZNE	17 21						
MAY 14	H M S	EPICENTRE	DEPTH	MAG					
	01 24 31.2	22.3S 171.7E	134KM	4.7	LOYALTY IS				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	SBA EP	ZNE	01 33 55	56 -1.23					
MAY 14	AFI EP	Z	04 13 13						
	ES	ZNE	19 30						
MAY 14	H M S	EPICENTRE	DEPTH	MAG					
	05 37 05.3	23.8S 175.9W	1.22KM	4.9	S OF FIJI				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EIP	ZNE	05 39 32	11					

	S	ZNE	41 27						
	SBA EP	Z	05 45 24.6	55					
	H M S	EPICENTRE	DEPTH	MAG					
	14 05 00.0	29.9N 129.4E	158KM	5.9	RYUKYU IS				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EIP	ZNE	14 15 11	71					
	IPCP	ZNE	50						
	IS	ZNE	25 20					13 19	6.5
	ES	Z	29 42						
	ESS	ZNE	33 42						
	EL	ZNE	35 18						
	SBA EPKP	ZNE	39 24						
	EP	ZNE	14 23 19	110					
	ESKS	ZNE	24 28						
	ES	ZNE	29 43						
	SBA EP	ZNE	14 37 52						
	H M S	EPICENTRE	DEPTH	MAG					
	23 25 34.0	14.8S 173.5W	339KM	4.2	FIJI				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EIP	ZE	23 27 10	6					
	H M S	EPICENTRE	DEPTH	MAG					
	22 39 12.0	18.0S 173.6W	650KM	4.3	FIJI				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EP	ZNE	02 41 04	8					
	ES	NE	42 35						
	H M S	EPICENTRE	DEPTH	MAG					
	21 51 17.4	15.9S 25.9E	33KM	6.1	ZAMBIA				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	SBA EP	ZNE	08 03 45.5	84 -1.11					6.1
	AFI IPKP	Z	08 10 56.00	146					
	H M S	EPICENTRE	DEPTH	MAG					
	15 10 29.9	29.8S 179.0W	33KM	5.1	KERMADEC IS				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	RAO EP	Z	15 00 40	1					
	AFI EP	ZNE	15 04 20	17					
	IS	Z	07 30						
	IS	ZN	03 08						
	ET	ZNE	21 30						
	SBA EP	ZNE	15 09 11	49 -0.86					6.1
	ES	ZNE	15 20						
	ESS	ZNE	20 14						
	EL	ZNE	23 00						
	AFI EP	Z	16 34 58						
	E(S)	NE	35 45						
	H M S	EPICENTRE	DEPTH	MAG					
	21 53 02.0	23.9S 179.8W	441KM	4.1	S OF FIJI				
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE	MAG			
	AFI EP	Z	21 57 49	12					
	ES	NE	22 00 00						
	AFI IP	Z	22 12 52.0J						
	IS	NE	13 28						
	AFI EP	ZNE	22 46 27						
	S	ZNE	56						
	T	ZNE	49 06						
	AFI EP	ZNE	23 01 34						
	S	ZNE	56						



	H	M	S	EPICENTRE	DEPTH	MAG	
MAY 16	00	48	55.4	40.8N 143.2E	7KM	7.9	E OF HONSHU, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	01 00 00		69	
		IPCP	Z			34	
		I	Z	01 04			
		I	Z	01 29			
		S	Z	02 00			
		IS	Z	02 08			
		ET	Z	02 15 18			
	RAO	E(P)	Z	01 01 32		79	
	SBA	EP	Z	01 03 01		119	
		EPKP	Z	03 17.5			
		EPP	Z	10 00			
		ESKS	Z	13 24			
		EPS	Z	17 00			
		ESS	Z	25 30			
MAY 16	06	36	51.0	41.1N 143.0E	35KM	5.7	HOKKAIDO, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	06 47 53		69	
		EL	Z	07 03 30			
MAY 16	08	14	42.3	10.5S 164.8E	31KM	4.9	SANTA CRUZ IS
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	08 19 47		23	
		ES	Z	24 00			
		ESS	Z	25 00			
		E(L)	Z	48			
	SBA	EP	Z	08 25 36		67	
MAY 16	08	58	11.1	41.4N 142.7E	15KM	5.4	HOKKAIDO, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	ES	Z	09 13 24		69	
		EL	Z	29 36			
MAY 16	10	39	01.6	41.5N 142.7E	33KM	6.3	HOKKAIDO, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	10 50 08		69	
		IS	Z	59 16			
		ISS	Z	11 03 52			
		I	Z	07 00			
		IL	Z	10 00			
		ET	Z	12 03 02			
	SBA	EP	Z	10 54 15		120	
		EPKP	Z	57 50.5			
		EPP	Z	59 18.5			
		ESKS	Z	11 04 39			
		EPS	Z	09 04			
		ESS	Z	15 00			
		ELQ	Z	29 40			
		ELR	Z	35 30			
MAY 16	AFI	EP	Z	11 13 16			
MAY 16	AFI	EP	Z	13 40 08			
MAY 16	AFI	EP	Z	13 44 18			
		S	Z	46			
		T	Z	47 01			

	H	M	S	EPICENTRE	DEPTH	MAG	
MAY 16	16	13	49.1	39.7N 143.6E	29KM	3.6	E OF HONSHU, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	16 24 40		68	
		ES	Z	33 40			
		ES	Z	34 00			
		ESS	Z	33 00			
		E	Z	41 18			
		EL	Z	44 00			
MAY 16	AFI	I'	Z	18 41 28.1J			
		S	Z	49			
MAY 16	18	43	21.0	40.7N 142.1E	59KM	3.7	E OF HONSHU, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	ES	Z	19 03 24		69	
		EL	Z	14 30			
	SBA	EPKP	Z	19 02 04.5		119	
MAY 16	19	16	47.2	41.3N 142.4E	42KM	3.6	HOKKAIDO, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	ES	Z	19 37 24		69	
		EL	Z	43 18			
	SBA	EPKP	Z	19 35 33		120	
MAY 16	19	45	23.5	12.6N 141.6E	170KM	3.2	S OF MARIANA IS
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EL	Z	20 03 30		53	
		EL	Z	09 36			
	SBA	EP	Z	19 53 12		91	
MAY 16	SBA	EP	Z	20 09 55			
MAY 16	20	22	14.9	41.4N 142.6E	39KM	5.6	HOKKAIDO, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	ES	Z	20 42 18		69	
		EL	Z	53 30			
	SBA	EPKP	Z	20 41 02.5		120	
MAY 16	22	45	19.2	22.8S 69.6W	104KM	5.0	N CHILE
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	Z	22 56 49		75	
MAY 16	23	04	54.7	39.8N 143.1E	37KM	5.8	E OF HONSHU, JAPAN
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	23 15 52		68	
		IS	Z	24 54			
		ESSS	Z	32 32			37 20 7.1
		E	Z	34 44			
		EL	Z	35 36			
	SBA	EPKP	Z	23 23 39		118	
		ESKS	Z	30 37			
		EPS	Z	34 30			
		ESS	Z	41 00			
MAY 17	07	39	00.0	22.7S 173.0E	98KM	4.3	LOYALTY IS
				H 1 S	DIR DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	Z	07 48 25.5		53	

	H	M	S	EPICENTRE	DEPTH	MAG									
MAY 17	07	57	18.0	22.75 173.1E	21KM	5.0	LOYALTY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP	Z	08 00 51	10										
	SBA	EP	ZNE	08 05 43	55										
		ES	ZNE	14 39											
		ELR	ZNE	23 32											
MAY 17	13	03	32.3	22.85 173.3E	35KM	5.7	LOYALTY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	13 13 03	55										
MAY 18	01	02	29.2	55.45 27.7W	33KM	5.4	S SANDWICH IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	01 10 57	47										
MAY 20	07	13	03.0	30.95 179.3W	22KM	5.0	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	IP	Z	07 13 31.6D	2										
	SBA	IP	ZNE	07 21 41.2J	48 -0.93										
		ES	ZNE	28 38						6.0					
		ELR	ZNE	35 30											
MAY 20	17	20	22.4	5.05 153.3E	45KM	5.3	NEW IRELAND								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	17 31 31	73										
MAY 20	20	05	49.1	30.75 173.4W	46KM		KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	IP	Z	20 05 13.9D	2										
	CBZ	EP	Z	20 10 55	24										
	SBA	EP	ZNE	20 14 24.5J	48 -0.33										
		ES	ZNE	21 20						6.6					
		ELQ	ZNE	23 00											
		ELR	ZNE	28 00											
MAY 20	20	20	23.0	31.05 173.1W	39KM	5.0	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	20 29 56.5	47										
MAY 20	21	09	44.8	44.84 150.3E	38KM	5.8	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EPKP	ZNE	21 29 32	123										
MAY 21	00	19	34.8	44.84 150.2E	45KM	5.2	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES	NE	00 39 24	68										
		EL	ZNE	50 30											
MAY 21		AFI	EP	Z	05 55 37.5										
			E(S)	E	53 10										
MAY 21	08	20	00.9	44.94 120.2E	33KM	5.7	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP	ZNE	08 31 09	85										
		ES	ZNE	40 00											
		ESSS	E	47 40											
		EL	ZN	50 40											

	H	M	S	EPICENTRE	DEPTH	MAG									
MAY 21	11	00	44.6	44.7N 150.2E	33KM	5.1	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	E(PP)	ZNE	11 14 08	68										
		E	ZNE	25 08											
		EL	ZN	31 12											
MAY 21	13	10	05.0	63.6S 172.0E	32KM		BALLENY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	13 13 22	14										
MAY 21	16	35	58.0	63.7S 171.0E	33KM	5.1	BALLENY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	16 39 19	14										
		EL	ZNE	42 36											
MAY 21	17	11	06.0	63.7S 171.7E	24KM	5.0	BALLENY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP	ZNE	17 14 26.5	14										
		EL	ZNE	17 40											
	AFI	EL	ZN	17 34 08	51										
MAY 21		SBA	EP	ZNE	22 57 16.5										
			EL	ZNE	23 00 40										
MAY 21	18	47	30.5	44.84 150.3E	31KM	5.2	KURILE IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES	N	19 07 32	68										
		EL	ZNE	13 08											
MAY 21	21	18	22.2	10.85 164.0E	15KM	4.9	SANTA CRUZ IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	E	N	21 23 40	24										
		EL	ZE	30 04											
	RAO	EP	Z	21 23 03	25										
MAY 22	00	18	05.9	30.45 177.8W	43KM	4.7	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP	Z	00 13 24	1										
	AFI	EP	ZNE	00 22 05	17										
		ES	ZNE	25 18											
		EL	ZNE	25 18											
		ET	ZNE	39 42											
MAY 22	10	51	23.3	41.54 142.6E	40KM	5.9	HOKKAIDO, JAPAN								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES	NE	11 12 12	69										
		ESSS	NE	17 44											
		EL	ZNE	23 12											
MAY 22	12	48	18	30.35 177.3W	33KM	4.3	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP	Z	12 48 35	1										
		ES	Z		53										
MAY 22	19	29	25.7	40.24 142.3E	40KM	5.3	E OF HONSHU, JAPAN								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES	ZN	19 49 28	69										





	H	M	S	EPICENTRE	DEPTH	MAG									
MAY 26	17	24	34.0	63.3S 170.9E	33KM	3.4	BALLENY IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SDA	EP		ZNE 17 27 59		15									
MAY 27	11	36	33.8	30.7S 177.9W	31KM	4.5	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP		Z 11 36 58		1									
MAY 27															
	AFI	IP		Z 11 50 56											
		S		ZNE 51 17											
MAY 27															
	AFI	IP		ZNE 15 29 23.5JSE											
		S		ZNE 30											
MAY 27	19	02	50.0	21.3S 174.5W	100KM	4.7	TONGA								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SUV	EP		Z 19 04 26		7									
	AFI	EP		ZNE 19 04 28		8									
		ES		N 05 44											
		ES		ZE 47											
		ET		ZNE 11 42											
MAY 28	01	28	22.1	30.9S 177.4W	33KM	4.8	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	P		Z 01 29 49		2									
		ES		Z 29 18											
	AFI	EP		Z 01 32 26		18									
		ES		ZNE 33 36											
MAY 28	02	09	42.0	31.3S 175.8W	33KM	4.8	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP		Z 02 10 16		2									
		ES		Z 26											
	AFI	EP		ZN 02 13 49		18									
		ES		NE 16 54											
		ET		ZNE 31 49											
MAY 28	03	33	49.0	31.1S 177.3W	33KM	4.7	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	P		Z 03 34 16		2									
		ES		Z 27											
	AFI	EP		ZN 03 39 05		18									
		ES		NE 40 51											
		E(S)		NE 41 00										3 12 5.5	
MAY 28	09	06	29.9	30.9S 177.8W	33KM	5.5	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	P		Z 09 05 56		2									
	SUV	EP		Z 09 09 33		13									
	AFI	EP		ZNE 09 10 30		18									
		ES		E 13 44											
		IS		ZN 14 04											
		E(L)		N 15 08											
		ET		ZNE 23 04											
	CBZ	EP		Z 09 11 44		24									
	SBA	EP		ZNE 09 13 05		48									
		ES		ZNE 22 05											

	H	M	S	EPICENTRE	DEPTH	MAG									
MAY 28	10	52	29.3	31.3S 175.8W	33KM	4.6	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP		Z 10 53 02		2									
	AFI	EP		Z 10 55 41		18									
		ES		NE 59 44											
		ET		ZNE 11 14 42											
MAY 28	13	27	18.7	2.9S 137.3E	55KM	6.1	N OF W NEW GUINEA								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SUV	EP		Z 13 34 49		41									
	AFI	IP		Z 13 35 04.4J		50 -0.30									6.8
		IS		ZNE 43 08											
		I		ZN 45 55											
		IL		ZE 51 40											
	CBZ	EP		Z 13 35 44		55									
	SBA	EP		ZNE 13 37 02.5		75 -0.13									6.9
		ES		ZNE 49 45											
		ESS		ZNE 54 08											
		ESSS		ZNE 57 38											
		ELQ		ZNE 14 00 00											
		ELR		ZNE 04 00											
MAY 28															
	AFI	E(P)		Z 14 05 36											
MAY 28	15	46	21.0	31.4S 175.8W	33KM	4.4	KERMADEC IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	RAO	EP		Z 15 45 54		2									
MAY 28															
	AFI	EIP		ZNE 22 04 38											
		S		ZNE 55											
MAY 28	22	29	56.8	52.2N 172.8E	15KM	5.6	ALEUTIAN IS								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZN 22 40 52		67									
		ES		ZNE 49 52											
		E		E 57 40											5 14 6.5
		EL		ZN 23 00 28											
MAY 29															
	AFI	IP		Z 11 43 46.4J											
		IS		ZNE 44 20											
		ET		ZNE 45 39											
MAY 29															
	AFI	IP		Z 13 55 52.5D											
		S		ZNE 55 13											
MAY 29															
	AFI	EP		ZNE 14 48 27											
		S		ZNE 46											
MAY 29	17	21	52.9	18.6S 169.0E	214KM	5.1	NEW HEBRIDES								
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
	SUV	P		Z 17 23 00		9									
	AFI	IP		Z 17 23 59.1J		19									
		ES		NE 30 04											
	SBA	EP		ZNE 17 31 34		59									
MAY 29															
	AFI	IP		Z 21 14 53.5J											
		IS		ZNE 13 26											
MAY 29															
	AFI	EP		ZNE 22 33 50											
		S		ZNE 34 12											



M S	EPICENTRE	DEPTH	MAG	LOCATION
MAY 29.0	30.85 177.34 H 4 S	33KM	4.6	KERHADEC IS
EP	Z 02 31 56		2	
MAY 30.9	44.74 150.3E H 1 S	49KM	5.3	KURILE IS
EP	Z 05 34 40		68	
ES	ZNE 43 44			
EL	E 51 42			
EL	ZN 54 00			
MAY 35.2	6.75 127.5E H 1 S	33KM	5.4	BANDA SEA
ES	NE 10 13 30		58	
ES	NE 20 00			
EL	ZE 23 30			
MAY 36.2	Z 18 00 23.2		-0.87	
MAY 42.5	31.09 177.6W H 1 S	42KM	5.5	KERHADEC IS
P	Z 19 42 50		2	
EP	Z 19 43 35		13	
EP	ZNE 19 45 27		15	
ES	ZNE 49 29			
L	ZNE 50 00			
ET	ZNE 20 01 31			
EP	Z 19 47 31		24	
EP	Z 19 50 58		47 -1.11	
ES	ZNE 58 00			5.8
ES	ZNE 20 01 00			
EL	ZNE 03 30			
MAY 59.0	20.75 170.0E H 1 S	97KM	4.8	NEW HEBRIDES
EP	ZNE 10 08 49		57	
MAY 57.0	17.45 175.1W H 4 S	300KM	4.4	TONGA
IP	ZNE 11 59 09		J	
IS	ZNE 59 03			
P	Z 11 59 37		5	
MAY 42.4	31.45 176.9W H 1 S	33KM	4.8	KERHADEC IS
EP	Z 12 42 46		2	
ES	Z 43 09			
EP	Z 12 45 16		13	
ES	E 49 48			
ET	ZNE 13 04 20			
EP	ZNE 12 50 43		47	
MAY 23.7	31.05 177.8W H 1 S	33KM	4.3	KERHADEC IS
EP	Z 15 23 55		2	
MAY 31.0	E 15 31 30			

ES	NE	47 24			
MAY 18.2	16 20 42.7	13.65 167.2E H 1 S	205KM	4.9	NEW HEBRIDES
AFI	EP	ZNE 18 25 06		20	
E(S)	E	27 48			
E	N	29 00			
E(SCS)	NE	35 48			
SBA	EP	ZNE 18 30 57		64	
MAY 22.0	AFI	EP	Z 22 45 55		
S	ZNE	45 49			
MAY 21.0	AFI	IP	Z 03 43 50	J	
S	ZNE	49 09			
MAY 21.0	RAR	EP	ZNE 08 11 26		
MAY 21.0	RAO	E	Z 08 43 48.5		
AFI	EP	Z 08 45 26			
E(T)	ZNE	09 04 22			
MAY 21.0	09 09 42.3	2.85 137.4E H 1 S	50KM	5.0	N OF W NEW GUINEA
AFI	EP	Z 09 13 30		49	
MAY 21.0	10 31 49.3	40.24 142.3E H 1 S	50KM	5.4	E OF HONSHU, JAPAN
AFI	ES	NE 10 52 00		69	
EL	ZNE	11 02 30			
MAY 21.0	11 22 35.1	31.05 177.7W H 1 S	33KM	4.5	KERHADEC IS
RAO	EP	Z 11 23 01		2	
AFI	EP	Z 11 25 41		18	
ES	NE	29 44			
ET	ZNE	43 48			
SBA	EP	ZNE 11 31 11		47	
ES	ZNE	38 12			
EL	ZNE	43 30			
MAY 21.0	01 11 19.4	18.55 177.7W H 1 S	539KM	4.3	FIJI
SUV	EP	Z 01 12 43		4	
AFI	EIP	ZNE 01 13 11		7	
IS	NE	14 40			
MAY 21.0	04 19 13	Z 04 19 13			
AFI	EP	Z 04 19 40			
S	ZNE	21 00			
MAY 21.0	08 18 36.2	8.15 153.6E H 1 S	35KM	5.6	SOLOMON IS
AFI	IP	Z 08 24 39		30	
I	ZE	49			
ES	ZNE	29 28			
E	N	30 48			
EL	ZE	32 24			
SBA	EP	ZNE 08 29 44.5		70	
ES	ZNE	39 30			
ELR	ZNE	51 30			





		ES	ZNE	34	11						
		H	M	S	EPICENTRE	DEPTH	MAG				
JUN 07		18	22	47.0	17.15 175.5W	72KM	4.6	FIJI			
	AFI	EP	ZNE	18 24 00	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		IS	ZE	23 02							
		IS	N	07							
	RAR	EL	ZNE	18 30 34			15				
JUN 07		21	30	50.3	2.15 120.5E	23KM	3.9	CELEBES			
	AFI	EP	ZE	21 41 51	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		ES	NE	51 08							
		EL	ZN	22 00 12							
	SBA	EP	ZNE	21 42 56.5			80				
		ES	ZNE	53 04							
		ELQ	ZNE	22 05 00							
JUN 08		00	16	39.5	8.85 157.6E	33KM	3.4	SOLOMON IS			
	AFI	EP	ZE	00 22 51	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		ES	ZNE	28 00			30				
		I	N	29 42							
		EL	E	30 48							
		EL	Z	31 02							
	SBA	EP	ZNE	00 27 46			69				
		ES	ZNE	37 00							
		ELR	ZNE	50 47							
JUN 08		05	29	46.5	43.4N 147.1E	43KM	3.3	KURILE IS			
	AFI	ES	ZNE	05 50 20	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		EL	ZN	06 00 20			69				
JUN 08	AFI	IP	ZNE	14 30 05			0				
JUN 08	SUV	EP	Z	21 05 07							
JUN 08		21	30	00.0	19.6S 173.6W	50KM	4.7	TONGA			
	AFI	EIP	ZNE	21 31 19	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		S	ZNE	32 22			6				
		(T)	ZNE	37 10							
	RAR	EP	ZNE	21 32 48			13				
JUN 08		23	24	05.2	48.8S 31.5E	33KM	3.6	S OF AFRICA			
	SBA	EP	ZNE	23 32 57	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		ES	ZNE	40 30			51 -0.71				
		ELR	ZNE	48 00							
	RAO	E	Z	23 47 35			98				
	AFI	EPP	ZN	23 53 16			114				
		ESS	ZN	59 47							
		ESSS	ZN	24 04 02							
		E	E	10 52							
		EL	ZN	17 20							
JUN 09	AFI	EP	ZNE	02 35 40			-1.26				
		ES	NE	37 52							
		E	Z	38 10							
JUN 09	AFI	EP	ZNE	04 33 40							

		E(S)	ZNE	40	14						
		H	M	S	EPICENTRE	DEPTH	MAG				
JUN 09		09	17	31.7	24.15 173.5E	590KM	3.1	S OF FIJI			
	RAO	EP	Z	09 19 04	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		ES	Z	20 25			5				
	SUV	P	Z	09 19 09			J	5 -0.27			
	AFI	EIP	ZNE	09 20 21			14				
		S	ZNE	22 38							
	SBA	EP	ZNE	09 25 04			54				
JUN 09		10	55	43.6	31.25 177.6W	16KM	4.7	KERMADEC IS			
	RAO	P	Z	10 55 13	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
	AFI	EP	Z	10 59 54			18				
		ES	ZNE	11 03 08							
		ET	ZNE	17 43							
	SBA	EP	ZNE	11 04 19.5			47				
JUN 09		13	01	47.5	0.7S 132.7E	33KM	5.5	N NEW GUINEA			
	SBA	EP	ZNE	13 13 51.5	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
							79				
JUN 09		22	01	58.0	31.3S 177.8W	33KM	5.0	KERMADEC IS			
	RAO	P	Z	22 02 25	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
	AFI	EP	ZNE	22 05 03			18				
		ES	ZNE	09 10							
		ET	ZNE	24 11							
	RAR	EP	ZNE	22 06 10			19				
		ES	ZNE	09 34							
		EL	ZNE	10 20							
	SBA	EP	ZNE	22 10 30			47				
JUN 10		01	06	49.0	19.7S 173.5W	50KM	4.9	TONGA			
	AFI	EP	ZNE	01 03 10	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		S	ZNE	09 12			6				
		ET	ZNE	14 00							
	RAR	EP	ZNE	01 09 38			13				
JUN 10	AFI	EP	ZNE	02 19 48							
		S	ZNE	20 17							
		ET	ZNE	22 20							
JUN 10		06	24	53.0	18.0S 173.1W	50KM	4.6	TONGA			
	AFI	EP	ZNE	06 25 06	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
		ES	ZNE	27 12			4				
		ET	ZNE	32 07							
JUN 10	AFI	EP	ZNE	08 45 09							
		ES	ZNE	46 16							
		ET	ZNE	51 05							
	RAR	EP	ZNE	08 45 40.5							
JUN 10		12	41	05.7	56.3N 161.5W	182KM	5.6	ALASKA PENINSULA			
	SBA	EPP	ZNE	13 03 17	H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG
							135				

H M S		EPICENTRE		DEPTH	MAG									
H M S		H M S		DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
JUN 10	14 22	43.0	16 35 173.6W	60KM	4.5	TONGA								
	AFI	EP	ZNE 14 23 20											
		S	ZNE 49											
	RAR	EP	Z 14 25 50	14										
		ET	ZNE 39 30											
JUN 11	10 24	12.3	5 8S 103.9E	80KM	5.4	S SUMATRA								
	AFI	EP	ZE 10 36 35											6.0
JUN 11	AFI	P	ZNE 11 20 02											
		ES	ZNE 46											
JUN 11	AFI	E(P)	ZE 17 46 04											
JUN 11	AFI	IP	ZNE 18 31 36	U										
		IS	ZNE 57											
JUN 12	13 41	50.7	39 54 142.7E	44KM	6.0	E OF HONSHU, JAPAN								
	SUV	EP	Z 13 52 42											
	AFI	EP	ZNE 13 52 47											
		ES	ZNE 14 01 56											
		ISS	N 06 07											117 16
		ISS	Z 24											
		ISSS	E 09 25											
		ISSS	ZN 44											
		IL	ZNE 12 13											
		MAX	ZNE 18 13											
	RAR	EP	ZNE 13 54 05.5	81										
		ES	ZNE 14 04 25											
		ELQ	ZNE 16 32											
		ELR	ZNE 18 20											
		ET	ZNE 15 22 19											
		ET(MAX)	ZNE 24 00											
	SBA	EP	ZNE 13 57 10	118										
		EPKP	ZNE 14 00 41.5											
		EPP	ZNE 02 02											
		ESKS	ZNE 07 50											
		EPS	ZNE 12 00											
		ESS	ZNE 18 18											
		ELQ	ZNE 32 00											
		ELR	ZNE 38 00											
JUN 12	14 11	00.5	59 9S 27.6W	95KM	5.5	S SANDWICH IS								
	SBA	EP	ZNE 14 18 46.5D	42										
JUN 12	20 15	47.3	0 6S 132.8E	33KM	5.6	W NEW GUINEA								
	AFI	EP	ZNE 20 25 29	56										
		ES	ZNE 33 32											
		ESS	Z 37 40											
		EL	NE 40 12											
		EL	ZE 42 44											
	SBA	EP	ZNE 20 27 51.5	79										
		ES	ZNE 37 53											
JUN 12	AFI	IP	ZE 21 09 56	U										

H M S		EPICENTRE		DEPTH	MAG									
H M S		H M S		DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
JUN 12	21 57	41.3	39.3N 142.8E	36KM	5.7	E OF HONSHU, JAPAN								
	AFI	ES	N 22 17 36	68										
		ES	ZE 19 00											
		ESS	Z 21 28											
		EL	ZNE 27 47											
		EL	ZE 23 04											
	SBA	EPKP	ZNE 22 15 24	113										
JUN 12	23 26	30.6	13.8N 120.7E	141KM	5.0	MINDORO, PHILIPPINE IS								
	AFI	ES	N 23 47 00	72										
		ESSS	N 55 28											
		EL	Z 57 48											
		EL	ZE 59 56											
JUN 13	07 33	50.5	0.3S 91.5W	33KM	5.3	GALAPAGOS IS								
	AFI	ES	E 07 55 36	80										
		EL	ZE 08 11 28											
JUN 13	11 56	23.4	39.2N 143.0E	33KM	5.3	E OF HONSHU, JAPAN								
	AFI	ES	N 12 15 30	68										
		EL	ZN 23 12											
JUN 13	AFI	EP	Z 16 29 25											
		ES	NE 31 02											
JUN 13	AFI	IP	Z 21 14 10.7											
		S	ZNE 37											
JUN 13	21 10	35.4	39.4N 142.9E	29KM	5.5	E OF HONSHU, JAPAN								
	AFI	ES	NE 21 31 00	68										
		EL	E 33 40											
		EL	ZN 41 00											
JUN 13	AFI	EP	Z 23 33 38											
		S	ZNE 39 13											
		ET	ZNE 41 50											
JUN 14	03 18	17.3	39.4N 142.8E	38KM	5.0	E OF HONSHU, JAPAN								
	AFI	ES	NE 03 33 48	68										
		EL	ZNE 43 52											
JUN 14	04 09	08.0	0.2N 91.6W	33KM	4.6	GALAPAGOS IS								
	AFI	EP	Z 04 21 20	81										
		ES	ZE 31 36											
		EL	ZE 45 12											
JUN 14	10 39	59.1	0.4S 91.8W	33KM	4.7	GALAPAGOS IS								
	AFI	EP	Z 10 52 16	80										
		ES	ZE 11 02 48											
		EL	ZE 17 00											



	H	M	S	EPICENTRE	DEPTH	MAG							
JUN 14	12	17	27.7	45.2N 153.5E	41KM	5.9	KURILE IS						
	AFI	ES		H 1 S	DIR DIS	67	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		EL		ZNE									
				ZNE									
JUN 14	12	48	50.0	15.7S 172.9W	33KM	4.8	SAMOA						
	AFI	EIP		H 1 S	DIR DIS	2	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		S		ZNE									
				ZNE									
JUN 14	AFI	IP											
		S		ZNE									
				ZNE									
JUN 14	16	23	44.7	0.2S 91.4W	33KM	4.9	GALAPAGOS IS						
	AFI	EP		H 1 S	DIR DIS	81	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ES		Z									
		ESS		NE									
		EL		ZN									
		EL		N									
				ZE									
JUN 14	SUV	P		Z									
				Z									
JUN 14	19	03	27.8	41.9S 171.9E	29KM	5.3	SOUTH IS, NEW ZEALAND						
	SUV	P		H 1 S	DIR DIS	24	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		EP		Z									
		EP		ZNE									
		EP		ZNE									
JUN 14	23	01	28.0	15.8S 172.7W	33KM	5.0	SAMOA						
	AFI	IP		H 1 S	DIR DIS	2	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		S		ZNE									
				ZNE									
JUN 15	AFI	E(P)		ZNE									
		S		ZNE									
		E(T)		ZNE									
JUN 15	AFI	P		ZNE									
		S		ZNE									
		(T)		ZNE									
JUN 15	RAO	P		Z									
		ES		Z									
	AFI	IP		ZNE									
		IS		ZNE									
JUN 15	04	20	02.6	0.4S 91.4W	33KM	5.4	GALAPAGOS IS						
	AFI	EP		H 1 S	DIR DIS	81	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ES		Z									
		EL		ZE									
				ZE									
JUN 15	07	08	48.1	5.6N 82.6W	16KM	5.0	S OF PANAMA						
	RAR	ES		H 1 S	DIR DIS	80	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ESS		ZNE									
		ELR		ZNE									
	AFI	EIP		Z									
		ES		E									

	ES	ZN	56										
	ESS	ZNE	39 00										
	N		45 40										
	E		47 16										
	ELQ	E	49 52										
	ELR	ZE	07 34 16										
	ES	NE	41 05										
	ESS	NE	44 51										
	ESSS	ZNE	50 30										
	EL	NE	08 17 29.20										
	AFI	IP	ZNE	13 01									
		S											
	H	M	S	EPICENTRE	DEPTH	MAG							
	11	29	32.9	91.7N 159.4E	39KM	5.4	E OF KAMCHATKA						
	AFI	ES		H 1 S	DIR DIS	70	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		EL		ZNE									
		EL		NE									
				NE									
				Z									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	34	14.4	18.3S 167.9E	11KM	5.5	NEW HEBRIDES						
	SUV	EP		H 1 S	DIR DIS	10	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
	AFI	IP		Z									
		IS		ZNE									
		IL		NE									
		IL		ZE									
		EP		N									
	RAR	EP		ZNE									
		ES		ZNE									
		EL		ZNE									
	SSA	EP		ZNE									
		ES		ZNE									
		EL		ZNE									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	17	40 17.4	0.2S 91.4W	33KM	5.0	GALAPAGOS IS						
	AFI	EP		H 1 S	DIR DIS	81	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ES		Z									
		EL		NE									
				N									
				ZE									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	19	32 07.6	21.5S 169.1E	36KM	4.7	LOYALTY IS						
	SSA	EP		H 1 S	DIR DIS	56	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
				ZNE									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	21	25 01.4	0.1S 91.4W	33KM	5.2	GALAPAGOS IS						
	AFI	EP		H 1 S	DIR DIS	81	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ES		Z									
		EL		E									
		EL		N									
				ZE									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	03	47 08.3	0.2S 91.3W	33KM	4.9	GALAPAGOS IS						
	AFI	EP		H 1 S	DIR DIS	81	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
		ES		Z									
		EL		E									
				ZE									
	H	M	S	EPICENTRE	DEPTH	MAG							
	13	04	58 57.0	36.2S 15.9W	33KM	5.1	TRISTAN DA CUNHA						
	SSA	EP		H 1 S	DIR DIS	66	LG <sub>A</sub> /T	AZ	TZ	AN	TN	AE	TE
				ZNE									
		EL		ZNE									

		AFI	ESSP	ZE	05	34	39				
		EL		ZE	53	12	125				
		H	M	S	EPICENTRE		DEPTH	MAG			
JUN 16	07 13 16.7				0.2S	91.2W	33KM	4.9	GALAPAGOS IS		
		AFI	EP	Z	07	25	32	81	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	ZNE	33	40					
			EL	ZE	50	08					
JUN 16	10 12 14.3				0.3S	91.3W	33KM	4.6	GALAPAGOS IS		
		AFI	EP	Z	10	24	32	81	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	ZE	34	40					
			EL	NE	35	16					
				ZE	49	12					
JUN 16	12 59 57.6				0.3S	91.7W	33KM	4.7	GALAPAGOS IS		
		AFI	EP	Z	13	12	28	80	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	ZE	22	36					
			EL	ZE	37	00					
JUN 16	SUV EP			Z	15	48	35				
JUN 16	16 20 14.9				0.4S	91.4W	33KM	4.7	GALAPAGOS IS		
		AFI	EP	Z	16	32	32	81	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	E	43	00					
			ESS	E	49	40					
			EL	ZE	59	16					
JUN 16	19 14 09.0				03.9S	93.7E	33KM	5.7	BOUVET IS		
		SBA	EP	ZNE	19	22	41	48	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			EPP	ZNE	24	39					
			ES	ZNE	29	34					
			EL	ZNE	35	00					
		AFI	EPKPKP	Z	19	43	00	112	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ESS	ZNE	49	28					
			E	E	59	00					
			EL	ZN	20	05	20				
JUN 16	AFI IP			ZNE	19	19	11	J			
			S	ZNE			36				
			T	ZNE	21	27					
JUN 17	02 14 49.0				0.7S	91.8W	33KM	4.7	GALAPAGOS IS		
		AFI	EP	Z	02	27	04	80	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	E	35	32					
			ES	E	37	24					
			EL	ZE	51	52					
JUN 17	04 28 22.0				0.2S	91.5W	33KM	4.5	GALAPAGOS IS		
		AFI	EP	Z	04	40	36	81	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	E	51	00					
			EL	ZE	05	04	40				

		H	M	S	EPICENTRE		DEPTH	MAG			
		18	17	39.0	56.0S	27.9W	143KM	5.8	S SANDWICH IS		
		SBA	EP	ZNE	10	25	47	46	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
									5.5		
					41.0N	143.0E	48KM	5.7	HOKKAIDO, JAPAN		
		AFI	EP	ZNE	12	04	00	69	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			IS	ZN	13	08					
			IS	E		32					
			ESS	ZE	17	08					
			ESS	ZNE	21	00					
			EL	ZNE	24	00					
			EL	ZNE	12	19	30	82			
			ELR	ZNE	26	20					
			ELR	ZNE	29	55					
			ET	ZNE	39	00					
		SBA	EPKP	ZNE	12	11	46	119	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			EPP	ZNE	13	17					
			EPS	ZNE	23	04					
			ESS	ZNE	29	20					
				Z	17	51	12				
				Z	17	53	39				
				Z		54	00				
					6.3S	145.6E	110KM	5.1	E NEW GUINEA		
		AFI	IP	ZNE	17	57	23.4	42	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
		SBA	EP	ZNE	18	00	59	72			
					12.39	165.7E	33KM	5.5	SANTA CRUZ IS		
		SUV	EP	Z	18	12	12	13	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			E	Z		52					
		AFI	IP	ZNE	18	14	22.3J	21	-0.24		
			IS	ZNE	19	20					
			EP	Z	18	14	30	22			
		RAR	EP	ZNE	18	14	14	33			
			ES	ZNE	21	40					
			EL	ZNE	24	00					
		SBA	IP	ZNE	18	20	16	J	66 -0.93		
			ES	ZNE	29	34					
			ESS	ZNE	33	10					
			ELQ	ZNE	37	30					
			ELR	ZNE	40	20					
					38.7N	143.6E	17KM	4.9	E OF HONSHU, JAPAN		
		AFI	ES	N	19	17	20	67	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	E		28					
			EL	E	25	12					
			EL	ZN	27	48					
					0.2S	91.5W	33KM	4.7	GALAPAGOS IS		
		AFI	EP	Z	02	39	02	81	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG		
			ES	E	43	20					
			EL	ZE	59	52					



H	M	S	EPICENTRE	DEPTH	MAG
JUN 18	03 53	00.3	0.55 91.4W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	33KM	4.6 GALAPAGOS IS
	AFI	EP	Z 04 03 14		
		ES	E 15 40		
		EL	ZE 30 00		
JUN 18	SBA	EP	ZNE 05 47 15		
JUN 18	AFI	EP	ZNE 06 24 30		
		S	ZNE 50		
		T	ZNE 25 15		
JUN 18	06 42	21.9	21.7S 179.6W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	600KM	5.0 FIJI
	SUV	IP	Z 06 43 52.7J		
	RAO	IP	Z 06 44 15.5		
		ES	Z 45 50		
	AFI	IP	ZNE 06 44 45		
		IS	ZNE 45 39		
	RAR	EP	ZNE 06 45 01		18 -0.50
	SBA	EP	Z 06 51 11		57
JUN 18	AFI	IP	ZNE 16 13 35.0J		
		IS	ZNE 52		
JUN 18	17 30	49.0	44.5S 167.8E H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	37KM	SOUTH IS, NEW ZEALAND
	SBA	EP	ZNE 17 37 25		33
JUN 19	08 13	35.0	5.6S 77.2W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	28KM	5.4 N PERU
	RAR	EP	ZNE 08 23 55		81
		EPP	ZNE 29 18		
		ES	ZNE 35 16		
		EPS	ZNE 37 14		
		ESS	ZNE 41 46		
		ESSS	ZNE 45 00		
		ELQ	ZNE 47 40		
		ELR	ZNE 51 28		
	SBA	EP	ZNE 08 25 32.5		90 -0.67
		EPP	ZNE 30 08		
		ES	ZNE 37 32		
		EPS	ZNE 33 35		
		ESS	ZNE 43 30		
		ESSS	ZNE 47 00		
		ELQ	ZNE 50 30		
		ELR	ZNE 55 00		
	AFI	EIP	ZNE 08 25 50.7		93
		EPP	ZE 30 36		
		ES	E 37 08		
		ES	ZNE 33 08		
		ESS	ZE 43 59		
		ESSS	Z 47 48		
		I	ZN 51 28		
		ILQ	E 52 00		
		ILR	ZE 57 00		
JUN 19	19 58	01.9	43.9S 75.1W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	24KM	5.7 OFF S CHILE
	SBA	EP	ZNE 20 07 17		53

H	M	S	EPICENTRE	DEPTH	MAG
	02 38	36.4	5.6S 77.3W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	33KM	5.8 N PERU
	SBA	EP	ZNE 02 51 36.5		90
	AFI	IP	ZNE 03 52 26		J
		IS	ZNE 46		
	06 21	07.9	12.3S 165.8E H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	212KM	4.6 SANTA CRUZ IS
	SBA	EP	ZNE 08 31 30.5		66
	SUV	EP	Z 10 01 42		
	AFI	IP	ZN 01 23 31.23		
		IS	ZN 29 19		
	AFI	EP	ZNE 14 32 55		
		S	ZNE 33 25		
		T	ZNE 35 15		
	AFI	EP	ZNE 14 55 19		
		S	ZNE 44		
		T	ZNE 57 25		
	AFI	IP	ZNE 17 42 21		D
	02 28	11.3	56.0S 27.6W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	174KM	5.1 S SANDWICH IS
	SBA	EP	ZNE 00 35 19		46 -1.23
	01 12	30.9	40.3N 143.7E H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	15KM	5.6 E OF HONSHU, JAPAN
	AFI	EP	Z 01 23 32		68
		ES	NE 33 40		
		ESS	ZN 37 00		
		ESSS	NE 40 24		
		EL	ZN 43 16		
	04 08	44.4	20.0S 177.8W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	415KM	4.5 FIJI
	SUV	EP	Z 08 09 59		4
	AFI	EP	ZNE 08 10 40		8
		ES	ZNE 12 07		
	10 03	45.0	15.1S 173.8W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	33KM	4.3 TONGA
	AFI	IP	ZNE 10 04 16.5DH		2
		S	ZNE 36		
		T	ZNE 05 25		
	21 01	02.5	17.9S 178.1W H 1 S DIR DIS LG <sub>W</sub> A/T AZ TZ AN TN AE TE MAG	650KM	4.6 FIJI
	SUV	EP	Z 21 02 25		3
	AFI	EIP	ZNE 21 02 51.6		7
		ES	ZNE 04 23		
	AFI	EP	ZNE 04 04 05		
		IS	ZNE 25		
	AFI	EP	ZNE 08 46 06		





	H	M	S	EPICENTRE	DEPTH	MAG	
JUN 30	09 35	29.4		13.0N 145.2E	38KM	5.2	MARIANA IS
	AFI	E(SS)		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		EL		ZN 09 51 44	50		
	SBA	EP		ZNE 09 48 34	92		
JUN 30				ZNE 13 36 07			
JUN 30	19 38	19.0		18.6S 177.9W	605KM	4.2	FIJI
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		ES		ZNE 19 40 07	8		
				ZNE 41 39			
JUN 30	AFI	EP		ZNE 21 13 15			
		S		ZNE 38			
		I		ZNE 20 15			
JUL 01	AFI	IP		ZNE 00 42 47	J		
		IS		ZNE 43 17			
JUL 01	10 49	11.9		36.0N 139.3E	67KM	5.9	HONSHU, JAPAN
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		ES		ZNE 10 56 06	68		
		ESS		ZN 11 03 00			
		ESSS		ZN 09 00			
		EL		ZN 12 24			
	SBA	EPKP		ZNE 11 03 46	115		
		EPP		ZNE 03 06			
		EPS		ZNE 14 16			
		ESS		ZNE 21 26			
JUL 02	AFI	IP		Z 00 31 12.6J			
		S		NE 32 12			
JUL 02	03 44	48.9		17.6N 100.3W	41KM	5.9	GUERRERO, MEXICO
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		ES		ZNE 03 55 40	77		
		ESS		ZNE 04 05 28			
		ESSS		Z 11 00			
		EL		NE 28			
		EL		ZNE 14 52			
		EL		ZNE 17 36			
	SBA	EPP		ZNE 19 36	108		
		EPS		ZNE 04 03 46			
		ESS		ZNE 12 52			
		ESSS		ZNE 19 08			
		ELR		ZNE 22 41			
				ZNE 36 16			
JUL 02	04 30	52.7		29.7S 177.9W	53KM	5.6	KERMADEC IS
	RAO	IP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		SUV		Z 04 31 04	0		
		EP		Z 04 33 47	12		
	AFI	EP		ZNE 04 34 41	17		
		S		ZNE 37 31			
		ET		ZNE 47 35			
	RAR	EP		ZNE 04 33 01	18	-0.68	
	SBA	IP		ZNE 04 33 39	J	49	-0.87
JUL 02	SUV	EP		Z 07 07 24			

	H	M	S	EPICENTRE	DEPTH	MAG	
	18 40	10.1		2.7S 133.9E	62KM	5.7	NEW GUINEA
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		SBA	IP	ZNE 18 43 59	50		
				ZNE 18 51 55.5J	77	-1.01	
							6.0
	19 49	17.0		45.0S 167.0E	27KM	5.0	SOUTH IS, NEW ZEALAND
	SBA	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
				ZNE 19 53 53	33		
	01 10	35.0		31.0S 175.8W	33KM	4.9	KERMADEC IS
	SBA	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
				ZNE 01 17 10	47		
	AFI	EP		ZNE 09 01 15			
		S		ZNE 41			
	09 34	22.0		16.0S 172.9W	60KM	4.2	SAMOA
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		S		ZNE 09 34 51	2		
				ZNE 16			
	AFI	IP		ZNE 21 13 47	J		
	SBA	EP		ZNE 12 42 38.5			
		ES		ZNE 47 40			
		EL		ZNE 49 30			
	AFI	E(S)		ZNE 12 53 20			
		E		NE 53 44			
		EL		Z 59 40			
		IL		E 13 00 26			
	AFI	EP		ZNE 19 13 15			
		S		NE 41			
		ET		ZNE 15 40			
	21 47	55.6		37.9N 23.2E	33KM	5.3	S GREECE
	SBA	EPKP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		EPP		ZNE 22 07 17	137		
				ZNE 10 07			
	SUV	EP		Z 05 39 37			
	SUV	EP		Z 07 23 56			
	11 26	12.6		38.5N 142.0E	43KM	5.3	E OF HONSHU, JAPAN
	AFI	EP		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
		ES		ZNE 11 39 10	68		
		ESS		ZNE 48 00			
		ESSS		E 52 00			
		EL		Z 30			
	SBA	EPKP		ZNE 59 30			
		EPP		ZNE 11 46 53.5	117		
		EPS		ZNE 48 07.4			
		ESS		ZNE 57 44			
		ELR		ZNE 12 04 00			
				ZNE 25 00			





JUL 09	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	03 39 56.8	12.8N 144.1E	8KM	4.7	S OF MARIANA IS	
AFI	ES	ZNE 03 55 36	51			
	ESSS	NE 04 01 36				
	EL	Z 03 12				
JUL 09	AFI	EP	ZE 12 12 11			
		S	ZE 40			
		ET	ZE 14 44			
JUL 09	AFI	IP	ZE 12 53 14	J		
		S	ZE 34			
JUL 09	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	23 17 21.0	18.2S 173.2W	639KM	4.1	FIJI	
AFI	EIP	Z 23 19 11	8			
	ES	ZN 20 43				
JUL 09	RAR	EP	ZNE 23 25 24	-0.76		
JUL 10	AFI	IP	ZE 00 00 33.5JE			
		S	ZE 52			
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	00 40 45.9	10.5N 133.6E	33KM	3.3	W CAROLINE IS	
AFI	ES	ZNE 00 53 00	55			
	ESS	Z 01 02 02				
	ESSS	NE 03 32				
	EL	ZNE 05 00				
SBA	EP	ZNE 00 53 43	90			
JUL 10	AFI	EP	ZE 01 53 25			
		S	ZE 43			
JUL 10	AFI	IP	ZE 05 25 55			
		S	ZE 27 27			
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	11 16 44.6	36.8S 73.5E	33KM	6.1	MID-INDIAN RISE	
SBA	EP	ZNE 11 25 07.5	54			
	ES	ZNE 34 00				
	ESS	ZNE 37 18				
	ELR	ZNE 42 10				
AFI	ES	ZNE 11 43 00	97			
	ESS	ZNE 43 12				
	EL	NE 55 24				
	EL	ZNE 12 02 36				
JUL 10	AFI	IP	ZE 11 29 34	J		
		S	ZE 54			
JUL 10	AFI	IP	ZE 11 35 49	J		
		S	ZE 36 27			
JUL 10	AFI	IP	ZE 13 14 14	D		
		IS	ZE 48			
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	20 40 31.2	40.2N 143.2E	33KM	5.3	E OF HONSHU, JAPAN	
AFI	ES	NE 21 00 36	68			
	EL	ZNE 11 12				

JUL 09	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	06 29 50.0	16.0S 173.0W	231KM	4.2	TONGA	
AFI	IP	H 1 S	DIR DIS LG#A/T			
	IS	ZE 06 30 53	J	4		
		ZE 31 59				
JUL 09	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	10 06 46.2	11.9S 167.0E	320KM	4.7	SANTA CRUZ IS	
SUV	EP	Z 10 09 36	13			
AFI	IP	ZE 10 10 59.4J	21			
SBA	EP	ZNE 10 17 01.5	66	-1.01		5.8
JUL 09	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	14 58 24	21.1S 173.8W	34KM	4.7	TONGA	
SUV	EP	Z 15 00 06	5			
AFI	IP	ZE 15 00 24	8			
	ES	ZE 01 55				
		Z 16 20 37				
		ZE 16 20 40				
		ZE 22 32				
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	01 44 36.5	39.5N 143.2E	28KM	3.8	E OF HONSHU, JAPAN	
AFI	IS	ZNE 01 04 36	68			
SBA	EPKP	Z 01 03 22	118			
	EPP	ZNE 04 41				
	EPS	ZNE 14 34				
	ESS	ZNE 21 05				
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	13 56 27.5	39.5N 143.2E	26KM	3.5	E OF HONSHU, JAPAN	
AFI	EP	ZN 04 07 28	68			
	ES	NE 15 32				
	ESS	ZE 20 16				
	EL	ZNE 24 32				
SBA	EPKP	Z 04 15 13	118			
	EP	ZE 08 55 38				
	E(S)	ZE 55 37				
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	19 12 07.9	5.5S 103.9E	26KM	5.5	S SUMATRA	
AFI	EP	Z 09 24 35	83			
	E	Z 49				
JUL 10	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG	
	11 28 25.2	30.8S 179.0E	545KM	4.8	KERMADEC IS	
RAD	IP	Z 11 29 36.5J	3			
	ES	Z 30 36				
AFI	IP	ZE 11 32 11.5J	19	-0.45		6.0
	ES	ZE 35 20				
SBA	IP	ZNE 11 35 12.5	47			
AFI	IP	ZE 12 35 47	J			
	S	ZE 37 08				
SBA	EP	ZNE 20 26 23.5				
AFI	IP	ZE 06 21 00.5J				
	IS	ZE 14				

H	M	S	EPICENTRE	DEPTH	MAG
JUL 13	06 38	26.2	6.4S 149.7E H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	36KM 5.1 39 -0.41	NEW BRITAIN
	AFI EP	ZE 06 43 47			
	ES	ZNE 54 48			
	SBA EP	ZNE 05 49 51		72	0.4
JUL 13	AFI EP	ZE 09 24 16			
	E(S)	ZE 25 29			
JUL 13	23 03	20.0	20.8S 173.9W H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	33KM 4.9 7	TONGA
	AFI EP	ZE 23 04 58			
	IS	ZE 05 13			
	ET	ZE 11 49			
	SBA EP	ZNE 23 13 12		58	
JUL 13	23 17	09.0	18.3S 175.0W H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	230KM 4.7 5	TONGA
	AFI IP	ZE 23 13 25			
	IS	ZE 19 22			
	SUV EP	Z 23 13 48		6	
	PAO EP	Z 23 19 40		11	
	ES	Z 21 42			
	RAR EP	ZNE 23 20 25		15 -0.92	
	SBA EP	ZNE 23 25 56		60	
JUL 14	03 11	34.7	16.0S 175.8W H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	379KM 4.6 5	FIJI
	SUV EP	Z 03 12 56		5	
	AFI EIP	ZE 03 12 58		5	
	S	ZE 14 05			
	RAO EP	Z 03 14 28		13	
	ES	Z 15 52			
	SBA EP	ZNE 03 21 22.5		62	
JUL 14	07 57	01.1	19.5S 173.6W H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	86KM 5.1 5	TONGA
	AFI EIP	ZE 07 53 15			
	S	ZE 59 14			
	T	ZE 08 03 12			
	SUV EP	Z 07 53 56		8	
	RAO EP	Z 07 59 25		10	
	ES	Z 08 01 14			
	RAR EP	ZNE 07 59 53		13	
	ES	ZNE 08 02 04			
	SBA EP	ZNE 08 05 57		59	
JUL 14	AFI IP	ZE 08 52 07		J	
	S	ZE 28			
JUL 14	SBA EP	ZNE 13 10 30.5			
JUL 15	00 21	03.0	12.7S 166.7E H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	51KM 4.4 65	SANTA CRUZ IS
	SBA EP	ZNE 00 31 41			
JUL 15	04 12	26	18.0S 173.6W H 4 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG	589KM 5.3 3	FIJI
	SUV EP	Z 04 13 45		3	

	RAO S	ZE 13 49			
	P	Z 04 14 56		11	
	S	Z 17 00			
	RAR EP	ZE 04 16 02.5		18 -0.96	
	SBA EP	ZNE 04 21 42		60	5.5
	AFI EP	ZE 08 32 01			
	IS	ZE 48			
	H M S	EPICENTRE	DEPTH	MAG	
	13 07	23.6S 179.2E	552KM 4.4	S OF FIJI	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	SUV EP	Z 10 03 59		5	
	RAO EP	Z 10 09 09		6	
	ES	Z 10 31			
	AFI EIP	ZE 10 10 10		13 -0.64	
	ES	ZE 12 28			
	SBA EP	ZNE 10 15 16.5		55 -1.01	5.4
	AFI EP	ZE 16 23 45			
	S	ZE 24 20			
	H M S	EPICENTRE	DEPTH	MAG	
	13 04	23.1S 173.4E	33KM	LOYALTY IS	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	SBA EP	ZNE 20 13 36		55	
	AFI EP	ZE 23 31 32			
	S	ZE 32 18			
	H M S	EPICENTRE	DEPTH	MAG	
	13 40	24.6S 179.8W	405KM 4.3	S OF FIJI	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	RAO EP	Z 05 41 51		5	
	ES	Z 42 52			
	AFI EP	ZNE 09 43 06		13	
	ES	ZNE 43 20			
	H M S	EPICENTRE	DEPTH	MAG	
	13 25	13.5S 167.1E	213KM 4.4	NEW HEBRIDES	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	AFI EP	ZNE 21 30 06		21	
	E	ZNE 33 44			
	E	ZE 34 40			
	H M S	EPICENTRE	DEPTH	MAG	
	13 26	13.6S 166.1E	215KM 4.8	NEW HEBRIDES	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	SBA EP	ZNE 21 39 56		64	
	EPCP	Z 36 41			
	H M S	EPICENTRE	DEPTH	MAG	
	13 24	8.8S 123.0E	25KM 5.6	TIMOR	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	AFI EP	ZNE 05 34 38		62	
	ES	ZNE 43 08			
	E	N 50 00			
	EL	ZE 53 36			
	SBA EP	ZNE 05 35 40		72	
	AFI IP	ZNE 08 29 08		J	
	S	ZNE 23			
	H M S	EPICENTRE	DEPTH	MAG	
	13 26	2.4N 123.3E	69KM 5.5	HALMAHERA	
		H 4 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG		
	SBA EP	ZNE 00 38 44		83	



JUL 16	AFI	IP	ZNE 04 52 03.4 J																	
		S	ZNE																	
			24																	
JUL 18		H M S		EPICENTRE	DEPTH	MAG														
		05 04 59.8		19.5S 173.9W	235KM	5.0	TONGA													
	SUV	EP	Z	05 05 27		6		DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
	AFI	IP	ZNE	05 05 31		7														
		IS	ZNE	07 39																
	RAO	EP	Z	05 07 17		10														
		ES	Z	09 03																
	RAR	EP	ZNE	05 03 21.5		15	-0.60													
	SBA	EP	ZNE	05 14 38.5		59														
JUL 19		H M S		EPICENTRE	DEPTH	MAG														
		04 56 27.2		8.7N 93.6E	33KM	5.5	NICOBAR IS													
	SBA	EP	ZNE	05 09 48				DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
	AFI	ES	ZE	05 22 40		97														
		ESS	ZE	23 12																
		ELQ	N	37 24																
		ELR	ZE	44 12																
JUL 19		H M S		EPICENTRE	DEPTH	MAG														
		09 21 04.8		13.0S 166.5E	29KM	3.3	NEW HEBRIDES													
	SUV	EP	Z	09 24 17		13		DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
	AFI	EIP	ZNE	09 25 51		21	-0.96													
		ES	ZNE	29 52																
		EL	ZE	31 20																
	SBA	IP	ZNE	09 31 42.5		65	-0.81													
JUL 19	AFI	IP	Z	12 53 34																
		S	ZNE	53																
		T	ZNE	53 25																
JUL 19	AFI	IP	Z	15 23 48.3 J																
		IS	ZNE	29 39																
JUL 20	AFI	EP	ZNE	02 45 20																
		IS	ZNE	47																
JUL 20		H M S		EPICENTRE	DEPTH	MAG														
		08 23 41		20.8S 174.2W	33KM	4.7	TONGA													
	AFI	EP	ZNE	08 25 21		7		DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
		S	ZNE	25 35																
		ET	ZNE	32 10																
	RAO	EP	Z	08 25 50		9														
		ES	Z	27 28																
	SBA	EP	ZNE	08 33 33		59														
JUL 20		H M S		EPICENTRE	DEPTH	MAG														
		21 22 03.0		57.9S 24.5W	33KM	4.9	S SANDWICH IS													
	SBA	EP	ZNE	21 30 32		44		DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
JUL 21		H M S		EPICENTRE	DEPTH	MAG														
		01 30 14.3		21.9S 179.4W	600KM	4.6	FIJI													
	SUV	P	Z	01 31 41		4		DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG												
	RAO	EP	Z	01 32 05		7														
		ES	Z	33 35																
	AFI	IP	ZNE	01 32 35.50		11														
		ES	ZNE	34 31																
	SBA	EP	ZNE	01 39 02		56														

	H M S	EPICENTRE	DEPTH	MAG																
	05 52 10.4	13.2S 150.7E	5KM	5.7	NEW IRELAND															
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
			ZNE	06 03 44		36														
	AFI	ES	ZNE	03 32																
		E	ZNE	10 16																
		ELR	Z	06 01 22		48														11 20
	RAR	EP	ZNE	06 03 56		65														
	SBA	EP	ZNE	13 40																
		ES	ZNE	13 44																
		ESS	ZNE	22 08																
		ESSS	ZNE	27 38																
		ELR																		
	H M S	EPICENTRE	DEPTH	MAG																
	06 09 41.8	3.2S 150.5E	33KM		NEW IRELAND															
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
			Z	06 13 52.5		52	-0.92													
	RAR	EP	ZNE	06 21 23.5		75														
	SBA	EP																		
	H M S	EPICENTRE	DEPTH	MAG																
	06 32 39.3	20.8S 174.0W	32KM	4.9	TONGA															
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
			ZNE	06 34 15		7														
	AFI	EP	ZNE	33 29																
		IS	ZNE	40 45																
		ET	Z	06 34 45		9														
	RAO	EP	Z	35 25																
		ES	ZNE	06 39 32		13	-0.65													
	RAR	EP	ZNE	06 42 29		59														
	SBA	EP																		
		E	E	08 29 20																
	AFI	L	ZNE	30 00																
	H M S	EPICENTRE	DEPTH	MAG																
	09 57 38.8	16.9S 172.2W	46KM	4.3	SAMOA															
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
			ZNE	09 53 24.9 J		3														
	AFI	IP	ZNE	58																
		S	ZNE	10 01 15																
		ET																		
	H M S	EPICENTRE	DEPTH	MAG																
	13 12 30.9	32.1S 173.8W	30KM	4.8	S OF KERMADEC IS															

H M S		EPICENTRE	DEPTH	MAG												
H M S		H 1 S	33KM	5.5	BOUVET IS	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
JUL 22	05 09 15.7	54.6S	1.7E													
SBA	IP	ZNE 05 17 49														
	EPP	ZNE 19 45														
	ES	ZNE 24 45														
	ESS	ZNE 29 20														
	ELR	ZNE 31 41														
AFI	ESSP	ZN 05 44 20		112												
	EL	E 53 48														
	EL	ZN 06 01 20														
JUL 22	AFI	EP	ZNE 06 23 32													
	ES	ZNE 23 39														
JUL 22	11 52 40.6	20.7S	174.1W	33KM	4.4	TONGA										
AFI	EP	ZNE 11 54 23		7												
	ES	ZNE 53 29														
	ET	ZNE 12 01 35														
JUL 22	17 58 30.3	20.1S	169.0E	34KM	5.5	NEW HEBRIDES										
SUV	EP	Z 18 00 46		9												
AFI	EP	ZNE 18 02 54		19												
	ES	ZNE 05 28														
	IL	ZE 03 21								11 20						
	IL	N 02 02														
SBA	IP	ZNE 18 08 20		J 58 -0.75						9 16						
	IPCP	ZNE 19 30														6.4
	ES	ZNE 19 22														
	ELQ	ZNE 23 12														
	ELR	ZNE 25 20														
JUL 22	AFI	IP	ZNE 19 02 01	0												
	IS	ZNE 10 01														
JUL 22	21 53 25.8	10.8S	166.3E	150KM	4.5	SANTA CRUZ IS										
SBA	EP	ZNE 22 04 03		67												
JUL 23	AFI	IP	ZNE 05 54 35	J												
	IS	ZNE 54														
JUL 23	AFI	IP	ZNE 06 12 48	J												
	IS	ZNE 13 10														
JUL 23	07 03 37.8	17.8S	174.7W	140KM	4.1	TONGA										
AFI	IP	ZNE 07 04 42.5		J 5												
	IS	ZNE 05 31														
	ET	ZNE 10 32														
JUL 23	18 28 01.2	18.7N	107.0W	33KM	5.9	OFF JALISCO, MEXICO										
AFI	ES	NE 18 49 16		72												
	EL	ZNE 19 00 24														
JUL 24	04 06 41.2	18.1N	105.0W	46KM	5.5	OFF JALISCO MEXICO										
AFI	ES	E 04 28 00		72												

H M S		EPICENTRE	DEPTH	MAG												
H M S		H 1 S	570KM <td>4.7</td> <td>S OF FIJI</td> <td>DIR</td> <td>DIS</td> <td>LG</td> <td>A/T</td> <td>AZ</td> <td>TZ</td> <td>AN</td> <td>TN</td> <td>AE</td> <td>TE</td> <td>MAG</td>	4.7	S OF FIJI	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 08 52 22		5												
	ES	Z 08 52 22														
	EP	Z 08 52 41		7												
	EP	ZNE 08 53 46		14												
	ES	ZNE 08 55 04														
	EP	ZNE 08 59 31		53												
SBA	EP	ZNE 18 37 02														
AFI	E(P)	ZNE 18 37 02														
JUL 22	20 20 55.3	15.4S	173.2W	84KM	5.3	TONGA										
AFI	IP	ZNE 20 21 22.6		J 2												
	EP	Z 20 23 00		8												
	EP	ZNE 20 31 07		63												
AFI	IP	ZNE 05 39 49		0												
	S	ZNE 40 32														
JUL 22	06 41 27.0	21.3S	174.0W	33KM	5.1	TONGA										
AFI	IP	ZNE 06 43 14.2		J 8												
	S	ZNE 44 39														
	ET	ZNE 50 50														
	EP	Z 06 43 20		8												
	EP	ZNE 06 44 29		13												
	EP	ZNE 06 51 14		57												
JUL 22	07 23 07.8	30.8S	173.4W	50KM	6.4	KERMADEC IS										
AFI	IP	Z 07 23 30.50		2												
	EP	Z 07 25 15		13												
	EP	ZNE 07 27 07		19												
	IS	ZNE 30 24														
	T	ZNE 39 04														
	EP	ZNE 07 27 25		19												
	IP	ZNE 07 31 41		J 48 0.08												
	EPP	ZNE 33 32														
	ES	ZNE 39 30														
	ESS	ZNE 42 05														
	ELR	ZNE 48 10														
JUL 22	19 50 31.5	45.7N	146.7E	16KM	5.5	KURILE IS										
AFI	EIP	ZNE 11 01 44		70												
JUL 22	07 13 19	17.7S	178.8W	539KM	3.8	FIJI										
AFI	EP	ZNE 07 15 15		8												
AFI	EP	ZNE 10 15 37														
	S	ZNE 17 31														
JUL 22	02 45 49.2	35.4N	27.8E	21KM	5.7	DODECANESE IS										
AFI	EKP	ZN 03 05 49		152												
AFI	EP	ZNE 03 44 32														









AUG 02		H M S	EPICENTRE		DEPTH	MAG							
AUG 02		14 06 43.9	16.6N	97.7W	40KM	5.3	S.W. CARIBBEAN SEA						
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
RAR	EP		ZNE 14	13 07									
	EPP		ZE	20 42									
	ES		ZNE	27 24									
	E		N	29 39									
	ESS		NE	31 52									
	ESSS		ZNE	33 19									
	EL		ZNE	37 15									
	EL		ZNE	33									
AFI	EP		ZNE 14	18 50		79							
	I		E	23 02									
	IS		ZNE	44									
	ISS		E	33 20									
	ISS		ZN	28									
	I		Z	35 52									
	ISSS		N	37 20									
	IL		N	39 28									
	IL		ZNE	42 24									
SBA	EP		ZNE 14	21 00		107							
	EPP		ZNE	23 23									
	EPPP		ZNE	27 34									
	ESKS		ZNE	31 42									
	ES		ZNE	33 07									
	EPS		ZNE	34 40									
	ESS		ZNE	40 45									
	ELQ		ZNE	51 34									
	ELR		ZNE	57 28									
AUG 02	AFI	P	Z	15 33 00									
AUG 02	AFI	EP	ZNE 16	24 44									
	S		ZNE	25 06									
	ET		ZNE	32 13									
	RAR	P	ZNE 16	25 54.5									
	ES		ZNE	29 12									
AUG 02	AFI	P	ZNE 18	12 02									
	S		ZNE	41									
	ET		ZNE	14 50									
	RAR	EP	ZNE 18	13 55									
	ES		E	15 03									
AUG 02	AFI	EP	ZNE 18	59 56									
	ES		ZNE	59 43									
AUG 02	SBA	EP	ZNE 23	45 07									
	ES		ZNE	49 10									
AUG 03	AFI	IP	ZNE 03	47 29.5J									
AUG 03	H M S	EPICENTRE		DEPTH	MAG								
AUG 03	04 54 32.7	25.6N	129.5E	19KM	5.7	RYUKYU IS							
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG					
AFI	EP		ZNE 05	05 48		70							
	IS		ZNE	19 02									
	ISS		NE	23 00									
	IL		ZNE	25 40									
RAR	P		ZNE 05	07 04.8		84							
	Z		Z	17									
	EPCS		ZNE	17 32			11 12	19 14					
	ESKS		NE	23 25									
	ESS		NE	29 46			28 23	24 23	27 22				
	ELQ		ZNE	33									
	ELR		ZNE	05 09 48		105							
SBA	EP		ZNE	05 09 48		105							
	EPP		ZNE	13 07									

	ESKS	ZNE	19 16									
	EPS	ZNE	22 00									
	ESS	ZNE	23 00									
	ESSS	ZNE	32 00									
	EL	ZNE	37 30									
	H M S	EPICENTRE		DEPTH	MAG							
	06 25 05.8	16.5N	122.3E	37KM	5.9	LUZON						
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
	AFI	EP	ZNE 06	36 31		72						
	IS		ZNE	45 52								
	EL		ZNE	53 16								
SBA	EP		ZNE 06	38 38		98						
	ESKS		ZNE	49 19								
	ES		NE	50 00								
	AFI	EIP	ZNE 12	30 51								
	EIS		ZNE	31 44								
	H M S	EPICENTRE		DEPTH	MAG							
	19 19 01.6	16.3N	122.4E	22KM	5.2	LUZON						
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
	AFI	ES	E	19 39 40		72						
	EL		ZNE	52 08								
	H M S	EPICENTRE		DEPTH	MAG							
	02 50 47.0	9.2S	159.8E	147KM	4.8	SOLOMON IS						
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
	SBA	EP	ZNE 03	01 37		69						
	RAD	IP	Z	05 20 10.10								
	H M S	EPICENTRE		DEPTH	MAG							
	10 40 37.3	22.5S	174.8W	33KM	4.9	TONGA						
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
	AFI	EP	ZNE 10	42 41		9						
	ES		ZNE	44 16								
	ET		ZNE	51 30								
RAR	P		ZNE 10	43 44.5		14						
	ES		ZNE	46 06								
	H M S	EPICENTRE		DEPTH	MAG							
	11 41 24.8	6.6N	125.8E	107KM	5.7	MINDANAO						
		H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG				
	AFI	EP	ZNE 11	51 52		64						
	IS		ZNE	12 00 26								
	ISS		ZNE	04 03								
	ISSS		ZNE	08 11								
	IL		ZNE	11 04								
RAR	EP		ZNE 11	53 11		77						
	ES		ZNE	12 02 56								
	ELQ		N	14 24								
	ELR		ZNE	17 08								
SBA	IP		ZNE 11	54 00		87						
	EPCP		ZNE	04.5								
	ES		ZNE	12 04 20								
	ESS		ZNE	09 50								
	ELQ		ZNE	15 40								
	ELR		ZNE	23 10								
	AFI	E(P)	Z	12 21 03		-1.23						
	AFI	EP	ZNE 14	05 17								
	IS		ZNE	07 08								
	AFI	IP	ZNE 19	39 40.6J								
	IS		ZNE	39 00								

DATE	H	M	S	EPICENTRE	DEPTH	MAG	LOCATION
AUG 04	23	57	39.6	93.0S 9.6E	33KM	4.9	S. ATLANTIC OCEAN
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	IP		ZNE 24 06 20.8	49	-1.11	
		ES		ZNE 13 27			
		ESS		ZNE 17 05			
		ELR		ZNE 20 40			
AUG 05	04	12	20.0	21.5S 174.6W	33KM	4.2	TONGA
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	EP		ZNE 04 14 10	8		
		S		ZNE 13 33			
		ET		ZNE 21 40			
	RAO	EP		Z 04 13 39	8		
	RAR	EP		ZNE 04 13 20	14		
		ES		E 17 40			
AUG 05	05	54	42.0	20.6S 173.7W	567KM	4.1	FIJI
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	EIP		ZNE 05 35 54	9		
		ES		ZNE 58 38			
AUG 05		SUV	EP	Z 08 43 56.5			
AUG 05		AFI	IP	ZNE 11 52 37.00			
		IS		ZNE 55			
AUG 05	16	17	04.8	33.3N 132.2E	41KM	6.3	SHIKOKU
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	IP		ZNE 16 28 21	71		
		ES		ZN 37 36			
		ES		E 52			
		ESS		Z 41 48			
		ESS		N 42 16			
		ESSS		ZNE 45 36			
		IL		ZNE 49 40			
	RAR	P		ZNE 16 29 37.5	85	-0.33	
		ESKS		N 40 07			6.9
		ES		E 21			
		EL		ZNE 55			21 23 24 22 27 22
AUG 05		AFI	IP	ZNE 16 35 54.4J			
		(S)		ZNE 35 10			
AUG 06	04	53	04.6	15.7N 121.9E	50KM	5.2	LUZON
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	ES		ZE 05 14 36	72		
		EL		ZE 25 36			
AUG 06		AFI	IP	ZNE 12 31 37		-0.74	
		ES		ZNE 33 12			
AUG 07		RAO	EP	Z 03 53 34			
		ES		Z 54 03			
AUG 07	08	00	13.4	43.1N 144.6E	54KM	5.6	HOKKAIDO
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	EL		Z 08 31 32	69		
	SBA	EPKP		ZNE 08 19 02	121		
AUG 07		AFI	EIP	ZNE 12 12 09			

DATE	H	M	S	EPICENTRE	DEPTH	MAG	LOCATION	
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG				
	AFI	IP		Z 12 54 48				
		H	M	S	EPICENTRE	DEPTH	MAG	
		04	55	10.0	36.4N 141.4E	41KM	3.4	HONSHU
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	ES		ZNE 05 13 16	67			
		EL		ZNE 29 24				
	AFI	EP		ZNE 05 02 05				
		IS		ZNE 24				
		H	M	S	EPICENTRE	DEPTH	MAG	
		13	38	58.8	23.7S 180.0W	527KM	4.4	S OF FIJI
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	RAO	EP		Z 13 40 32	6			
		ES		Z 41 46				
	AFI	IP		ZNE 13 41 37.5	12			
		S		ZNE 43 47				
	AFI	IP		ZNE 21 57 38.00				
		H	M	S	EPICENTRE	DEPTH	MAG	
		22	10	38.5	13.9S 166.6E	45KM	4.8	NEW HEBRIDES
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	EP		ZNE 22 21 09.5	64			
		Z		Z 00 14 08				
		Z		Z 16				
		Z		ZNE 15 19				
		H	M	S	EPICENTRE	DEPTH	MAG	
		01	55	04.4	22.6S 173.4W	130KM	4.2	TONGA REGION
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	RAR	P		ZNE 01 58 01.5	13			
		ET		ZNE 02 12 49				
		H	M	S	EPICENTRE	DEPTH	MAG	
		03	08	04.2	22.4S 113.0W	33KM	3.4	NEAR BASTER I.
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	RAR	ES		ZNE 03 22 44	43			
		EL		ZNE 25				
	AFI	EP		Z 03 17 44	56			
		IS		ZNE 29 40				
		ESS		ZNE 29 20				
		EL		NE 31 48				
		EL		ZE 33 32				
	SBA	EP		ZNE 03 18 50	66			
		ES		ZNE 27 35				
		ELQ		ZNE 35 32				
		ELR		ZNE 39 00				
		H	M	S	EPICENTRE	DEPTH	MAG	
		17	59	00.6	22.7S 173.2W	46KM	4.7	TONGA
					H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	RAO	EP		Z 17 59 45	7			
		ES		Z 18 00 59				
	AFI	EP		ZNE 18 01 06	9			
		S		NE 02 40				
		ET		ZNE 10 12				
	RAR	EP		ZNE 18 02 12.5	14			
		ES		ZNE 04 43				
		EL		ZE 05				
		ET		ZNE 17 04				
	SBA	EP		ZNE 18 03 38	56			











	H	M	S	EPICENTRE	DEPTH	MAG											
				H	M	S	DIR	DIS	LG <sub>a</sub> /T	AZ	TZ	AN	TN	AE	TE	MAG	
AUG 17	06	43	59.9	17.3S 173.0W	33KM	4.5	TONGA										
	AFI	IP		ZNE 06 44 47.5J		4											
		S		ZNE 06 44 47.5J		4											
		T		ZNE 43 32													
	RAR	EP		ZNE 43 21													
				Z 06 45 53		13											
AUG 17	AFI	EP		ZNE 07 43 51													
		ES		ZNE 44 34													
		ET		ZNE 47 21													
AUG 17	13	28	53.0	1.9N 125.1E	33KM	5.2	MOLUCCAS										
	SBA	EP		ZNE 13 41 14		83											
AUG 17	AFI	EIP		ZNE 16 22 27													
		ES		ZNE 23 30													
AUG 17	17	14	37.4	2.4N 123.2E	31KM	5.5	HALMAHERA										
	SBA	EP		ZNE 17 25 54		83											
AUG 17	21	46	59.3	1.5N 125.6E	33KM	5.1	MOLUCCAS										
	SBA	EP		ZNE 21 59 18		82											
AUG 18	05	31	39.4	7.1S 148.4E	56KM	5.0	NEW GUINEA										
	SBA	EP		ZNE 05 42 56		71											
AUG 18	05	43	57.7	1.4N 125.4E	33KM	5.4	MOLUCCAS										
	SBA	EP		ZNE 05 56 16		82											
AUG 18	15	19	27.6	11.0S 162.2E	57KM	4.8	SOLOMON IS										
	AFI	IP		ZNE 15 24 52.3D		26	-1.03									5.4	
AUG 18	17	35	37.4	1.5N 125.0E	33KM	5.2	MOLUCCAS										
	SBA	EP		ZNE 17 47 57		82											
AUG 18	18	08	35.3	12.7S 166.2E	34KM	5.2	SANTA CRUZ IS										
	SUV	EP		Z 18 11 46		13											
	AFI	IP		ZNE 18 13 24.3D		21											
		IS		ZNE 17 28													
		L		NE 19 00													
				Z 30													
	RAR	EP?		Z 18 15 07		34											
		E		ZE 19													
		ES		ME 20 26													
		EL		ZNE 23													
	SBA	EP		ZNE 18 19 15		65											
		ES		ZNE 29 08													

	H	M	S	EPICENTRE	DEPTH	MAG											
				H	M	S	DIR	DIS	LG <sub>a</sub> /T	AZ	TZ	AN	TN	AE	TE	MAG	
18 29	21.3			12 6S 166.3E	38KM	4.7	SANTA CRUZ IS										
				ZNE 18 40 02		65											
18 38	30.5			10 1S 159.9E	538KM	6.2	SOLOMON IS										
				Z 18 42 25.8U		27	0.95										7.4
				Z 49 05													
				Z 52 59													
				ZNE 18 43 39.0D		28											
				Z 44 56													
				ZNE 45 08													
				ZNE 46 56													
				ZNE 47 44													
				ZNE 50 28													
				Z 18 43 40.8D		28											
				Z 45 09													
				ZNE 18 45 21.5		40											
				ZNE 23.6													
				ZNE 50 52													
				ZNE 54													
				ZNE 18 48 35.5		68	0.14										6.8
				ZNE 47.5													
				ZNE 56 50													
				ZNE 19 00 20													
				ZNE 04 15													
18 56	48.2			1 2N 126.1E	33KM	5.7	MOLUCCAS										
				Z 19 06 19		55											
				ZNE 19 07 16		63											
				ZNE 19 08 34		76											
				Z 19 08 37													
				ZNE 19 09 28													
				ZNE 11 41													
				ZNE 19 10 35													
				ZNE 13 28													
				ZNE 25 45													
				Z 19 15 54													
				Z 17 43													
				Z 19 17 17													
				ZNE 09 34 30.2													
				ZNE 46													
15 42	29.7			15 9S 174.0W	151KM	5.3	TONGA										
				ZNE 15 43 13.8U		3											
				ZNE 44													
				Z 15 44 25.0		6											
				Z 15 45 35		14											
				Z 02													
				Z 15 45 48		14											
				ZNE 51.0													
				ZNE 48 24													
				ZNE 16 11													
				ZNE 15 23													
				ZNE 15 52 41.5		63	-0.93										
				ZNE 15 52 41.5		63	-0.93										





	H	M	S	EPICENTRE	DEPTH	MAG										
AUG 23	08	38	07.8	0.7N 119.9E	40KM	5.4	SULAWESI									
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SBA	EP		ZNE 08 50 28		82										
AUG 23	12	46	44.8	30.4S 178.9W	33KM	4.5	KERMADEC IS									
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SUV	EP		Z 12 49 43		12										
	RAR	EP		Z 12 51 12		19										
		ES		ZNE 54 14												
		EL		ZNE 53 20												
	SBA	EP		ZNE 12 55 22		48						16	16	15	10	
AUG 23		RAR	EP	Z 13 45 50												
			ES	ZE 49 12												
			ES	ZNE 14.5												
AUG 23		SUV	EP	Z 16 23 25												
		AFI	E(P)	Z 16 23 26												
			E(S)	ZNE 29 47												
		RAR	EP	Z 16 29 33												
AUG 23	16	47	57.0	17.9S 173.9W	72KM	4.0	TONGA									
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	AFI	EP		ZNE 16 49 03		4										
			S	ZNE 50												
			T	ZNE 53 48												
	SUV	EP		Z 16 49 44		7										
	RAR	P		ZNE 16 50 47.3		14										
			E	N 53 05												
			ES	ZNE 07												
AUG 23		SUV	EP	Z 18 03 22												
AUG 23	22	36	57.3	22.0S 63.6W	537KM	5.8	ANDES									
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SBA	IP		ZNE 22 47 46		0	76	-0.96								5.9
AUG 23		AFI	E(P)	Z 22 56 44												
			E	ZNE 23 02 20												
			E	ZNE 04 24												
			E	Z 05 40												
			E	ZN 09 20												
			E	ZNE 11 36												
			E	ZN 19 24												
AUG 23		AFI	IP	ZNE 23 53 49.40												
			S	ZNE 56 18												
			ET	ZNE 55 17												
		RAR	EP	ZNE 23 53 08.5												
AUG 24	12	21	26.7	56.2S 143.5W	33KM	5.5	PACIFIC-ANTARCTIC RIDGE									
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SBA	EP		ZNE 12 27 16		29										
		EL		ZNE 33 00												
	RAR	EPP		N 12 30 07		37										
		ELQ		E 37 25												
		ELR		ZN 39 00												
		ES		ZN 12 37 00		47										
		E(SSS)		ZNE 41 08												
		EL		ZN 42 44												

	H	M	S	EPICENTRE	DEPTH	MAG										
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	14	13	33.3	22 7S 178.2W	619KM	3.8	S. OF FIJI									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SUV	EP		Z 14 14 58		6										
		AFI	EIP	ZNE 14 15 49		11										
			S	ZNE 17 35												
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	15	06	58.9	32 9S 178.9W	37KM	5.3	S. OF KERMADEC IS									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	RAO	EP		Z 15 07 50		4										
			ES	Z 08 33												
			P	Z 15 10 27		15										
		AFI	EP	ZNE 15 11 26		2	-1.41									4.8
			ES	ZNE 15 09												
			ES	ZNE 16 24												
			EL	ZNE 31 38												
			ET	ZNE 15 11 33.5		21										
		RAR	EP	E 15 13												
			ES	ZNE 15 15 18.2		45										
			EP	ZNE 16 55												
			EPCP													
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	15	08	01.2	32 9S 179.0W	33KM	4.8	KERMADEC IS									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SUV	EP		Z 16 11 27		15										
		93A	EP	ZNE 16 16 20.5		45										
			EPCP	ZNE 17 57												
				ZNE 16 10 58.7U												
			IS	ZNE 11 18												
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	23	38	58.5	1 1V 126.4E	80KM	5.4	MOLUCCAS									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	93A	EP		ZNE 24 11 12		82										
				ZNE 03 09 07												
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	09	07	31.9	40 1V 143.2E	33KM	5.4	E. OF HONSHU									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
				ZNE 09 27 40		68										
				Z 31 56												
				ZNE 34 10												
				ZNE 38 12												
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	11	15	46.3	20 0S 175.3W	96KM	5.5	TONGA									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	SUV	IP		Z 11 17 30.0D		6	1.29									
		AFI	EIP	ZNE 11 17 20		7										
			IS	ZNE 18 27												
			T	ZNE 22 30												
		RAO	EP	Z 11 18 01		10										
			ES	Z 19 42												
			P	ZNE 11 19 03.0		15	-0.12									
			S	ZNE 21 27.8												
			ET(MAX)	ZNE 33												
		93A	EP	ZNE 11 25 37		59	-0.93									6.3
				4 H S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG						
	13	23	09.0	1 1V 126.2E	33KM	5.4	MOLUCCAS									
				H M S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE							









SEP 01	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	07 27 30.2	34.0N 53.2E	15KM	3.9	IRAN
SBA	EPKP	ZNE 07 45 34			127
	EPP	Z 43 32			
	ESS	ZNE 08 05 45			
	ESSS	ZNE 10 30			
	ELQ	ZNE 21 10			
	ELR	ZNE 23 00			
AFI	E(PKP)	Z 07 45 47	131		
	ESKS	ZE 08 01 00			
	ESS	NE 05 32			
	N	09 00			
	ESSS	ZNE 11 08			
	ZE	14 54			
	ZE	24 42			
	Z4	29 42			
RAR	PKP	ZNE 07 47 10	144		
SEP 01	AFI IP	ZNE 11 21 10			
	IS	ZNE 44			
SEP 01	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	20 39 20.6	23.7S 179.7E	633KM	4.5	S. OF FIJI
SUV	EP	Z 20 49 37	5		
RAO	ES	Z 20 42 05	5		
AFI	EP	ZNE 20 41 51	13		
	ES	ZNE 43 58			
SBA	EP	ZNE 20 47 54	55		
SEP 02	SUV IP	Z 01 02 47			
SEP 02	AFI IP	ZNE 03 24 45.1			
	IS	ZNE 25 07			
SEP 02	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	07 57 44.6	17.5S 173.2W	33KM	3.9	TONGA
AFI	EP	ZNE 07 53 35	4		
	EIS	ZNE 59 16			
	T	ZNE 08 02 05			
SEP 02	AFI IP	ZNE 10 59 21.4J			
	S	ZNE 11 00 15			
SEP 02	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	15 20 43.9	31.1S 173.6W	117KM	4.8	KERMADEC IS
RAR	P	ZNE 15 25 05	20		
	ES	ZNE 23 31			
SBA	EP	ZNE 15 29 09.5	47		
SEP 02	AFI EP	ZNE 16 15 02			
	IS	ZNE 35			
SEP 02	AFI EP	ZNE 21 55 24			
	IS	ZNE 55 20			
SEP 03	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	01 12 27.3	37.8S 37.9E	33KM	5.1	S. INDIAN OCEAN
SBA	EP	ZNE 01 22 35.5	61		
SEP 03	SBA EP	ZNE 06 43 24			
	ES	ZNE 45 35			

	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	08 19 52.2	41.8N 32.3E	5KM	5.7	TURKEY
SBA	EPKP	ZNE 08 39 12	139		
	EPP	ZNE 42 15			
	EL	ZNE 09 13 30			
AFI	EPKP	Z 08 39 41	145		
	E	09 01 56			
	NE	07 06			
	Z	09 00			
	N	10 42			
	B	13 18			
	Z	20 30			
	Z	25 24			
RAR	EPKP	Z 08 41 54	157		
	EL	ZNE 09 40			
AFI	E(P)	ZNE 19 11 35			
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	23 30 13.6	17.7S 167.7E	11KM	4.9	NEW HEBRIDES
AFI	EP	Z 23 34 47	20		
	ES	Z 39 56			
SBA	EP	ZNE 23 40 23	60		
SEP 04	SBA EP	ZNE 05 52 27			
	EL	ZNE 59 33			
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	07 57 09.4	22.7S 172.9E	34KM	4.4	LOYALTY IS
SUV	EP	Z 07 58 18	7		
SBA	EP	ZNE 08 05 41	55		
	ELR	ZNE 23 30			
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	08 54 24.8	22.8S 172.9E	33KM	4.6	LOYALTY IS
SUV	EP	Z 08 55 33	7		
SBA	EP	ZNE 09 03 56	55		
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	12 07 07.9	17.9S 174.6W	126KM	4.3	TONGA
AFI	EP	ZNE 12 09 16	5		
	IS	ZNE 09 03			
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	13 15 35.3	10.7S 163.9E	90KM	4.7	SANTA CRUZ IS
AFI	EP	Z 13 20 26	22		
	ES	NE 24 44			
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	02 07 31.2	10.9S 165.0E	33KM	4.9	SANTA CRUZ IS
SBA	EP	ZNE 02 19 25	67		
	H M S	EPICENTRE	DEPTH	MAG	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG
	02 43 02.6	45.1S 80.1W	33KM	5.0	S. CHILE
SBA	ES	ZNE 02 59 26	51		
	EL	ZNE 03 04 40			
AFI	ES	NE 03 05 20	81		
	EL	ZNE 10 42			

SEP 05	AFI	IP	ZNE	03 11 34.9															
		E(S)	ZNE	14 36															
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 05	10 39	12.1		15.05 174.6W	174KM	4.3	TONGA												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	AFI	IP		ZNE 10 40 00.50		3													
		IS		ZNE 36															
	SUV	EP		Z 10 40 42		7													
SEP 06	SUV	IP		Z 01 33 11															
SEP 06	SUV	EP		Z 02 30 24															
SEP 06	SUV	EP		Z 03 03 00															
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 06	03 21	56.1		17.8S 167.8E	24KM	5.1	NEW HEBRIDES												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZNE 03 32 04		60													
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 06	07 36	06.4		17.8S 167.8E	28KM	5.3	NEW HEBRIDES												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 07 33 58.		10													
	AFI	EP		ZNE 07 40 40		20													
		ES		ZNE 44 32															
		EL		ZE 43 48															
	SBA	EP		ZNE 07 45 13.5		60													
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 06	07 49	42.0		5.8S 80.3W	56KM	5.3	N. PERU												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZNE 08 02 32		89													
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 06	14 02	00.6		10.8S 165.0E	28KM	5.0	SANTA CRUZ IS												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZN 14 12 55		67													
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 06	19 22	47.8		31.0N 131.9E	39KM	5.7	KYUSHU												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	AFI	EP		ZNE 19 33 59		70													
		E		ZN 34 11															
		ES		NE 43 39															
		EL		ZNE 54 42															
	RAR	E		Z 19 33 16		84													
	SBA	EPP		Z 19 41 18		111													
SEP 06	SUV	IP		Z 19 55 50															
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 07	02 01	56.2		19.0S 173.3W	649KM	4.6	FIJI												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 02 03 41.5		3													
	AFI	IP		ZNE 02 03 52.10N		8													
		ES		ZNE 03 26															
	SBA	EP		ZNE 02 11 00.5		59													
	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 07	06 47	59.0		5.0S 143.6E	48KM	5.3	NEW GUINEA												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZNE 06 53 30		74													

	H	M	S	EPICENTRE	DEPTH	MAG													
SEP 07	15 52	13.6		58.4S 25.6W	45KM	5.5	SOUTH SANDWICH IS												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZNE 16 00 17		44													
				Z 03 44															
	H	M	S <th>EPICENTRE</th> <th>DEPTH</th> <th>MAG</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EPICENTRE	DEPTH	MAG													
SEP 07	23 15	42.7		17.9S 163.3E	33KM	4.6	NEW HEBRIDES												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 23 13 30		10													
	AFI	EP		ZNE 23 20 17		20				-1.41									
		ES		ZNE 24 28															
	SBA	EP		ZNE 23 25 48		60													
	H	M	S <th>EPICENTRE</th> <th>DEPTH</th> <th>MAG</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EPICENTRE	DEPTH	MAG													
SEP 06	00 16	38.0		17.6S 167.7E	20KM	5.0	NEW HEBRIDES												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 00 19 23		10													
	AFI	EP		ZNE 00 21 13		29													
		ES		NE 25 00															
		EL		ZE 26 16															
	RAR	EP?		Z 00 22 56		31													
	SBA	EP		ZNE 00 25 47		60													
	H	M	S <th>EPICENTRE</th> <th>DEPTH</th> <th>MAG</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EPICENTRE	DEPTH	MAG													
SEP 06	13 04	39.7		58.2S 25.6W	151KM	5.3	SOUTH SANDWICH IS												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SBA	EP		ZNE 13 12 33.5		44				-0.50									
	H	M	S <th>EPICENTRE</th> <th>DEPTH</th> <th>MAG</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EPICENTRE	DEPTH	MAG													
SEP 06	13 30	05.9		17.5S 167.8E	28KM	4.7	NEW HEBRIDES												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 13 32 17		10													
	AFI	EP		ZNE 13 34 40		25													
		ES		NE 33 44															
		EL		ZNE 39 50															
	SBA	EP		ZNE 13 40 14		60													
	H	M	S <th>EPICENTRE</th> <th>DEPTH</th> <th>MAG</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EPICENTRE	DEPTH	MAG													
SEP 06	15 12	23.8		3.7S 143.0E	29KM	5.0	BISMARCK SEA												
				H 4 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG									
	SUV	EP		Z 15 20 15		38													
	AFI	EP		ZE 15 20 44		46													
		E		ZE 25 12															
		ES		ZNE 27 48															
		EL		ZNE 30 48															
	SBA	EP		ZNE 15 24 04		75				-0.22									
		EPP		ZNE 27 00															
		ES		Z															



SEP 09	H M S	EPICENTRE	DEPTH	MAG						
	00 35 18.4	8.7S 74.5W	144KM	5.3	E. PERU					
SBA	EP	ZNE 00 47 51			DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
SEP 09	00 37 43.2	8.7S 74.5W	120KM	6.0	E PERU					
SBA	EP	ZNE 00 50 18			DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
SEP 09	02 34 33.0	17.9S 167.8E	28KM	4.5	NEW HEBRIDES					
SUV	EP	Z 02 37 24	10		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
AFI	EP	ZNE 02 39 07	20							
E(L)		ZE 44 16								
SBA	EP	ZNE 02 44 42	60							
SEP 09	SBA	EP	ZNE 02 40 29.5							
SEP 09	AFI	IP	ZNE 03 37 45							
		IS	ZNE 33 06							
		ET	ZNE 39 25							
SEP 10	05 25 02.6	3.7S 143.0E	47KM	5.3	BISHARCK SEA					
SBA	EP	ZNE 05 35 42	75		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
SEP 10	05 40 00.0	3.6S 142.9E	41KM	5.2	BISHARCK SEA					
SBA	EP	ZNE 05 51 41	75		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
SEP 10	AFI	EP	ZNE 06 23 28							
		IS	ZNE 24 02							
SEP 10	AFI	IP	ZNE 18 10 50							
		IS	ZNE 11 19							
SEP 10	22 51 14.1	15.1S 177.4W	33KM	5.0	FIJI					
SBA	EP	ZNE 23 01 42	63		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
SEP 11	18 26 36.8	43.0S 75.2W	31KM	5.7	S. CHILE					
SBA	EP	ZNE 18 33 57.5	54		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
		ES	ZNE 43 40							
		ELR	ZNE 51 52							
		AFI	Z 18 39 13	85						
		ES	ZNE 49 54							
		E	ZN 54 18							
		EL	NE 19 01 48							
		EL	ZNE 03 24							
SEP 12	SUV	EP	Z 15 40 34							
SEP 12	SUV	IP	Z 16 25 15							
SEP 12	22 44 06.5	21.6S 179.4W	635KM	5.9	FIJI					
SUV	IP	Z 22 43 48	4		DIR DIS LG#A/T AZ TZ AN TN AE TE MAG					
RAR	IP	Z 22 47 43.90	18	-0.11						6.2
		S	NE 50 39							

SBA	ET	ZNE 23 05 10								
	EP	ZNE 22 52 54.5	57	-0.26						6.1
	EPOP	ZNE 53 41								
	E*PP	ZNE 54 54								
	E*SP	ZNE 55 00								
	ES	ZNE 23 00 07								
	E*SS	ZNE 01 44								
	EL	ZNE 03 40								
		ZNE 07 20								
13	H M S	EPICENTRE	DEPTH	MAG						
	05 01 50.3	30.8S 179.1W	38KM	5.0	KERMADEC IS					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		Z	05 02 12	2						
		ZN	05 05 02	19						
		ZNE	09 12							
		Z	10 04							
		Z	05 05 25	20						
		ZNE	09 34							
		ZNE	05 10 26	48						
		ZNE	17 35							
		ZNE	24 00							
13	H M S	EPICENTRE	DEPTH	MAG						
	06 47 23.8	27.0S 175.5W	33KM	4.5	KERMADEC IS					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		Z	06 48 08	3						
		ZNE	06 50 28	14						
		Z	06 51 10	16						
		ZNE	06 55 33.5	52						
13	H M S	EPICENTRE	DEPTH	MAG						
	12 49 54.8	11.1S 164.6E	59KM	5.4	SANTA CRUZ IS					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		Z	12 53 46	15						
		ZN	12 55 01	23						
		ZNE	59 12							
		ZNE	13 00 48							
		N	02 00							
		ZE	03 00							
		Z	12 55 08	24						
		ZNE	13 00 42	67						
14	H M S	EPICENTRE	DEPTH	MAG						
	01 25 19.1	24.5S 80.4E	33KM	5.5	S. INDIAN OCEAN					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		ZNE	01 35 00	65						
14	SUV	EIP	Z 05 46 13							
14	H M S	EPICENTRE	DEPTH	MAG						
	06 56 11.7	8.9S 124.0E	33KM	5.3	TIMOR					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		ZNE	07 07 36	72						
14	H M S	EPICENTRE	DEPTH	MAG						
	13 48 31.2	28.4N 53.1E	33KM	5.8	S. IRAN					
		H 1 S	DIR DIS LG#A/T AZ TZ AN TN AE TE MAG							
		ZNE	14 07 23	122						
		ZNE	09 13							
		ZNE	49 30							
14	AFI	IP	ZNE 20 52 14	J						
		IS	ZNE 34							

	H	M	S	EPICENTRE	DEPTH	MAG							
SEP 15	01	29	33.8	56.0S 27.4W	139KM	5.1	SOUTH SANDWICH IS						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 01 37 46		46							
SEP 15	11	58	36.0	1.3N 125.2E	33KM	5.2	MOLUCCAS						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 12 10 54		82							
SEP 15	17	27	21.8	1.8N 125.9E	33KM	5.1	MOLUCCAS						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 17 37 42.5		82							
SEP 15	19	48	12.5	21.0S 63.3W	145KM	4.6	CHILE						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 19 59 48.5		76							
SEP 16	00	52	36.8	33.8S 102.0W	33KM	4.8	W. CHILE						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 01 02 25		57							
SEP 16	AFI	IP		ZNE 04 41 02									
		E(S)		ZNE 42 36									
SEP 16	13	55	36.1	6.1S 148.7E	59KM	5.8	NEW BRITAIN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SUV	EP		Z 14 02 08		31							
	RAO	EP		Z 14 03 08		39							
	AFI	EIP		ZNE 14 03 04		40							
		IS		ZNE 09 00									
		I		ZNE 12 12									
		IL		ZNE 14 44									
	RAR	P		ZNE 14 04 43		52							
		ES		ZNE 12 07									
	SBA	EP		ZNE 14 05 57		72	-0.07						
		EPP		ZNE 10 04									
		ES		ZNE 15 26.5									
		ESS		ZNE 21 00									
		ESSS		ZNE 25 00									
		ELQ		ZNE 27 00									
		ELR		ZNE 30 00									
SEP 16	14	11	29.4	17.4S 178.8W	583KM	5.1	FIJI						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SUV	IP		Z 14 12 56		3							
	AFI	EIP		ZNE 14 13 16		8							
	RAR	EP		ZNE 14 15 07.5		18	-0.90						
	SBA	EP		ZNE 14 20 48		61							
SEP 16	15	00	44.2	6.4S 148.8E	66KM	4.9	NEW BRITAIN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 15 12 05		72							
SEP 16	15	49	04.6	6.4S 149.1E	59KM	4.9	NEW BRITAIN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 15 55 27		72							

	H	M	S	EPICENTRE	DEPTH	MAG							
SEP 16	16	00	53.1	6.0S 143.8E	71KM	5.3	NEW BRITAIN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SUV	EP		Z 16 07 21		31							
	AFI	IP		ZNE 16 09 19		40							
		ES		ZNE 14 28									
		E		ZNE 17 30									
		EL		ZNE 19 36									
	RAR	EP		ZNE 16 09 57		52							
	SBA	IP		ZNE 16 12 14.5		72							
SEP 17	14	51	11.8	21.6S 112.6W	33KM	4.9	S. PACIFIC OCEAN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	AFI	ES		ZNE 15 09 48		57							
		EL		ZNE 15 24									
SEP 17	SUV	EIP		Z 16 12 37									
SEP 17	SUV	IP		Z 16 19 58									
SEP 17	SUV	EP		Z 17 30 52									
SEP 17	SUV	EP		Z 17 44 46									
SEP 17	SUV	EIP		Z 17 48 47									
		EL		Z 54									
SEP 17	17	49	47.6	15.0S 173.7W	17KM	5.2	TONGA						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	AFI	IP		ZNE 17 50 36									
		IS		ZNE 51 28									
		I		ZNE 54 00									
	RAR	EP		Z 17 53 24		15							
		ES		ZNE 56 22									
		ET		ZNE 18 07 40									
	SBA	EP		ZNE 18 00 18		63							
SEP 17	SUV	IP		Z 18 54 31									
SEP 17	SUV	EP		Z 20 16 43									
SEP 17	SUV	EP		Z 20 24 52									
SEP 17	SUV	EP		Z 20 49 39									
SEP 17	20	47	26.4	63.0S 60.8W	33KM	4.9	GRAHAM LAND						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SBA	EP		ZNE 20 54 30		36							
SEP 18	11	43	45.6	18.2S 167.1E	33KM	5.7	NEW HEBRIDES						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	SUV	EP		Z 11 45 40		11							
	RAO	EP		Z 11 49 01		18							
	AFI	EP		ZNE 11 48 24		21							
		ES		ZNE 52 36									
		E		ZNE 54 00									
	SBA	EP		ZNE 11 53 58		60							
SEP 18	14	10	57.8	6.3S 143.8E	58KM	5.0	NEW BRITAIN						
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG			
	AFI	EP		ZNE 14 13 23.5		39							
		EL		ZNE 30 00									



SBA EP		ZNE 14 22 12	72						
SEP 18	SUV IP	Z 23 50 35							
SEP 20	H M S	EPICENTRE	DEPTH	MAG					
	06 00 03.5	10.7N 62.7W	107KM	6.2	VENEZUELA				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	RAR ES	E 06 24 12	100						
	E(S)	NE 25 20							
	SBA EP	ZNE 06 14 19	108						
	EPKP	ZNE 15 39							
	EPP	ZNE 48.5							
	ESKS	ZNE 24 48							
	EPS	ZNE 29 02							
	ESS	ZNE 34 05							
	ESSS	ZNE 38 11							
	ELQ	ZNE 45 00							
	ELR	ZNE 52 00							
	AFI E(PCP)	Z 06 14 38	111						
	EPP	ZE 19 20							
	ESKS	NE 25 44							
	ES	ZE 29 24							
	ESS	ZNE 34 20							
	ESSS	NE 39 20							
	EL	NE 45 12							
	EL	ZE 50 48							
SEP 20	H M S	EPICENTRE	DEPTH	MAG					
	12 57 29.9	28.0S 175.7W	75KM	4.6	KERMADEC IS				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	RAR EP	ZNE 13 01 11	17						
	SBA EP	ZNE 13 05 30.5	51						
SEP 20	H M S	EPICENTRE	DEPTH	MAG					
	18 29 09.8	28.1S 175.7W	70KM	5.3	KERMADEC IS				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	RAO EP	Z 18 29 25	2						
	SUV EP	Z 18 31 55	11						
	AFI EP	ZNE 18 32 23	13						
	ES	ZNE 34 48							
	ET	ZNE 45 20							
	RAR EP	ZNE 18 32 49	17						
	ES	ZNE 35 36							
	SBA EP	ZNE 18 33 09	50						
	ES	ZNE 45 27							
SEP 21	SUV EP	Z 09 54 55							
SEP 21	SUV EP	Z 10 32 43							
SEP 21	H M S	EPICENTRE	DEPTH	MAG					
	13 05 58.2	42.2N 142.6E	33KM	5.9	HOKKAIDO				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	AFI EP	ZNE 13 17 07	70						
	ES	ZNE 25 08							
	E	Z 30 22							
	EL	ZNE 34 00							
	IL	ZNE 37 20							
	RAR EP	Z 13 18 29	83	27 16	17 11				
	ESKS	ZNE 29 38							
	EL	ZNE 43 15							
	SBA EPKP	ZNE 13 24 48	121	82 24	80 25	71 25			
	EPP	ZNE 25 35							
	ESKS	ZNE 31 44							
	EPS	ZNE 35 00							
	ESS	ZNE 42 22							
	ESSS	ZNE 47 05							
	ELQ	ZNE 57 32							

ELR		ZNE 14 03 00							
21	AFI IP	ZNE 15 42 11.8J							
	S	ZNE 30							
22	H M S	EPICENTRE	DEPTH	MAG					
	02 36 27.2	23.6S 179.8E	566KM	4.3	S. OF FIJI				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	AFI IP	ZNE 02 39 04.80	13						
	ES	ZNE 41 15							
22	H M S	EPICENTRE	DEPTH	MAG					
	08 00 32.8	18.1S 173.6W	630KM	4.8	FIJI				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	SUV EP	Z 08 02 10	3						
	AFI EP	ZNE 08 02 31	8						
	IS	ZNE 04 05							
	RAO EP	Z 08 03 01	11						
	RAR P	ZNE 08 04 10.5	18						
	SBA EP	ZNE 08 09 43.5	60	-0.20					
22	AFI IP	ZNE 11 52 02.6							
	S	ZNE 44							
	ET	ZNE 55 15							
22	AFI EP	ZNE 14 07 07							
	ES	ZNE 48							
	ET	ZNE 10 17							
22	AFI EP	ZNE 16 53 41							
	IS	ZNE 54 25							
	ET	ZNE 55 35							
22	H M S	EPICENTRE	DEPTH	MAG					
	17 05 36.8	15.3S 175.8W	139KM	4.3	TONGA				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	AFI EP	ZNE 17 05 16	4						
	S	ZNE 57							
	ET	ZNE 09 24							
22	H M S	EPICENTRE	DEPTH	MAG					
	20 22 00.7	15.4S 175.2W	33KM	4.6	TONGA				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	AFI EP	ZNE 20 22 49	4						
	S	ZNE 23 36							
	ET	ZNE 26 00							
	RAR EP	Z 20 24 43	16						
	E(S)	E 27 13							
	ELQ	NE 29 23							
	ELR	ZNE 29							
	ET	ZNE 41 20							
	SBA EP	ZNE 20 32 27	63						
22	H M S	EPICENTRE	DEPTH	MAG					
	20 30 34.3	15.1S 173.9W	33KM	5.0	TONGA				
		H 1 S	DIR DIS	LG#A/T	AZ TZ	AN TN	AE TE	MAG	
	AFI EP	ZNE 20 31 18	4						
	S	ZNE 56							
	ET	ZNE 33 56							
	SBA EP	ZNE 20 41 03	63						
22	AFI EP	ZNE 21 21 41							
	(S)	ZNE 22 33							
	ET	ZNE 24 50							

	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 22	21	52	59.2	24.1S 66.9W	194KM	5.5	ARGENTINA
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	IP		ZNE 22 04 12.8D	74	-0.15	
SEP 23	AFI	IP		ZNE 02 39 33.5			6.6
		ES		ZNE 39 12			
		ET		ZNE 41 30			
SEP 23	AFI	EP		ZNE 07 59 30			
		E(T)		ZNE 08 01 40			
SEP 23	AFI	EP		ZNE 08 45 24			
		IS		ZNE 45 05			
SEP 23	AFI	EP		ZNE 09 22 08			
		IS		ZNE 23 03			
SEP 23	SUV	EP		Z 11 32 55			
SEP 23	AFI	E(P)		ZNE 19 25 22			
	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 24	03	34	48.5	40.2N 143.7E	22KM	5.1	E. OF HONSHU
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	AFI	ES		NE 03 54 48	68		
		E		Z 59 30			
		EL		ZNE 04 05 24			
	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 24	08	46	02.1	11.0S 164.4E	40KM	5.1	SANTA CRUZ IS
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SUV	EP		Z 08 50 03	15		
	AFI	EP		ZNE 08 51 10	23		
		ES		ZN 55 20			
		ES		NE 56 00			
		EL		ZNE 57 12			
	SBA	EP		ZNE 08 56 52	67		
	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 24	12	52	41.7	30.4S 177.7W	33KM	4.5	KERMADEC IS
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	EP		ZNE 13 01 21.5	48		
SEP 24	AFI	EP		ZNE 20 11 58			
		ES		ZNE 13 30			
	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 25	00	15	39.5	18.0S 173.5W	582KM	4.7	FIJI
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SUV	EP		Z 00 17 01	3		
	AFI	IP		ZNE 00 17 35	8		
		ES		ZNE 19 10			
	H	M	S	EPICENTRE	DEPTH	MAG	
SEP 25	07	02	51.8	46.4S 166.8E	33KM	5.5	S. OF FIORDLAND
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	CBZ	EP		Z 07 04 16	5		
		ES		Z 05 43			
	SBA	IP		ZNE 07 09 12	J 32		
		ES		ZNE 14 34			
		ELQ		ZNE 17 00			
		ELR		ZNE 48			
	AFI	EP		ZNE 07 10 00	37		
		ES		ZNE 15 40			
		EL		NE 15 24			
		EL		ZNE 21 00			

	Z	H	M	S	EPICENTRE	DEPTH	MAG
	07	10	00				37
RAR	EP						
	ZNE	11	50				
	ZNE	15	48				
	ZNE	15	20				
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 25	09	16	35.0	57.9S 25.5W	35KM	5.0	SOUTH SANDWICH IS
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	EP		ZNE 09 24 44	44		
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 25	10	38	38.4	15.6N 92.6W	138KM	5.7	CENTRAL AMERICA
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	RAR	EP		ZNE 10 50 08.5	75		
		ES		ZNE 59 47			
		ESKS		ZNE 11 00 27			
		EL		ZNE 10 33			
		EL		ZNE 13 00			
	AFI	EP		ZNE 10 50 52	84		
		ES		ZNE 11 01 10			
		ESS		ZNE 06 12			
		E(SSS)		NE 10 48			
		EL		ZNE 13 00			
		EL		ZNE 15 24			
	SBA	EP		ZNE 10 52 46	107		
		EPP		ZNE 57 14			
		ESKS		ZNE 11 03 18			
		EPCP		ZNE 06 22			
		ESS		ZNE 12 50			
		ELQ		ZNE 23 00			
		ELR		ZNE 29 00			
	AFI	IP		ZNE 11 16 51			
		IS		ZNE 18 00			
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 25	14	34	22.6	19.3S 173.9W	230KM	5.0	TONGA
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SUV	IP		Z 14 35 49	D 5		
		BIS		Z 37 04			
	AFI	IP		Z 14 35 52	7		
		IS		ZNE 35 59			
	RAR	EP		ZNE 14 37 44	15		
		EL		ZNE 51 52			
	SBA	IP		ZNE 14 44 02	J 59	-0.50	6.2
	SUV	EP		Z 20 13 51			
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 25	02	39	56.5	19.3S 177.6W	560KM	5.2	FIJI
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SUV	EIP		Z 02 41 38	4		
	AFI	EIP		ZNE 02 41 51	8		
		IS		ZNE 43 21			
	RAO	IP		Z 02 42 12	10		
	RAR	P		ZNE 02 43 23.5	17		
	SBA	IP		ZNE 02 49 06	59	-0.63	5.7
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 26	08	06	57.4	5.7S 105.5E	33KM	5.1	W. JAVA
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SBA	EP		ZNE 08 19 57	79		
	H	M	S	EPICENTRE <th>DEPTH</th> <th>MAG</th> <td></td>	DEPTH	MAG	
SEP 26	08	41	22.0	17.7S 178.5W	578KM	5.1	FIJI
				H 1 S DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG			
	SUV	IP		Z 08 42 57	J 3		
	AFI	IP		ZNE 08 43 14.0D	7		





	ES	E	17 08																	
	ES	ZNE	13 00																	
	ESS	ZNE	24 28																	
	EL	ZN	31 30																	
	EL	ZNE	35 36																	
SEP 28	SUV	EIP	Z	14 47 39																
SEP 28	SUV	EP	Z	14 49 28																
SEP 28	AFI	EP	ZNE	15 43 20																
		S	ZNE	49																
		ET	ZNE	48 00																
SEP 28	H M S	EPICENTRE	DEPTH	MAG																
	23 27 28.7	22.6S 174.9W	33KM	4.8	TONGA															
	AFI	EP	ZNE	23 29 32																
	ES		ZNE	31 08																
	RAR	P	ZNE	23 30 37																
	ES		ZNE	32 59																
SEP 29	H M S	EPICENTRE	DEPTH	MAG																
	00 28 54.8	15.5S 173.8W	33KM	4.7	TONGA															
	AFI	IP	ZNE	00 29 25.1J																
	S		ZNE	42																
SEP 29	H M S	EPICENTRE	DEPTH	MAG																
	05 12 19.2	3.1N 129.1E	109KM	5.3	HALMAHERA															
	SBA	EP	ZNE	05 24 37																
SEP 29	H M S	EPICENTRE	DEPTH	MAG																
	12 43 39.9	15.5S 167.3E	190KM	4.6	NEW HEBRIDES															
	SBA	EP	ZNE	12 53 44																
SEP 29	H M S	EPICENTRE	DEPTH	MAG																
	13 26 47.5	1.6N 125.2E	33KM	5.4	MOLUCCAS															
	SBA	EP	ZNE	13 39 08																
SEP 29	H M S	EPICENTRE	DEPTH	MAG																
	21 54 35.2	3.7S 143.5E	44KM	5.4	BISMARCK SEA															
	SBA	EP	ZNE	22 05 15																
SEP 30	AFI	IP	ZNE	00 03 19.8J																
	IS		ZNE	50																
SEP 30	RAO	EP	Z	05 37 01																
	AFI	EP	ZNE	05 38 10																
	E(S)		ZNE	40 27																
SEP 30	H M S	EPICENTRE	DEPTH	MAG																
	10 43 24.0	15.1S 173.5W	33KM	4.9	TONGA															
	AFI	IP	ZNE	10 43 55.0J																
	RAR	EP	ZNE	10 46 43																
	ES		NE	49 11																
	ET		ZNE	59 27																
	SBA	IP	ZNE	10 53 54																
SEP 30	H M S	EPICENTRE	DEPTH	MAG																
	11 37 24.2	29.5S 175.9W	74KM	4.8	KERMADEC IS															
	RAO	EP	Z	11 37 39																

	AFI	EP	ZNE	11 40 57																
		ES	ZNE	43 00																
		ET	ZNE	59 00																
	RAR	EP	ZNE	11 41 17																
		ES	ZNE	44 08																
		ELQ	NE	34																
		ELR	Z	45 00																
	SBA	EP	ZNE	11 46 17																
		ES	ZNE	53 48																
	H M S	EPICENTRE	DEPTH	MAG																
	14 15 58.1	3.1N 129.2E	150KM	5.4	HALMAHERA															
	SBA	EP	ZNE	14 29 09																
	H M S	EPICENTRE	DEPTH	MAG																
	00 52 31.3	12.5S 165.1E	34KM	4.5	SANTA CRUZ IS															
	SBA	EP	ZNE	01 03 12																
	AFI	EP	ZNE	09 05 52																
		E(S)	ZNE	07 28																
		E(T)	ZNE	09 10																
	SUV	P	Z	09 42 39																
	RAO	EP	Z	11 15 31																
	AFI	EP	ZNE	11 15 43																
		IS	ZNE	15 27																
	AFI	E	ZNE	17 05 48																
	H M S	EPICENTRE	DEPTH	MAG																
	21 11 08.7	31.0S 177.5W	15KM	4.6	KERMADEC IS															
	RAO	IP	Z	21 11 36.5D																
		S	Z	12 08																
		S	Z	21 15 16																
	AFI	EP	ZNE	13 28																
	ES		ZNE	13 28																
	RAR	EP	ZNE	21 15 25																
		ES	NE	13 37																
	SBA	EP	ZNE	21 19 46																
	AFI	IP	ZNE	05 37 06.0J																
		IS	ZNE	26																
	H M S	EPICENTRE	DEPTH	MAG																
	07 19 12.2	60.7S 23.2W	33KM	5.1	SOUTH SANDWICH IS															
	SBA	EP	ZNE	07 25 58																
	H M S	EPICENTRE	DEPTH	MAG																
	13 21 56.5	17.6S 179.8W	560KM	4.4	FIJI															
	SUV	EP	Z	13 23 26																
	ES		Z	24 20																
	AFI	IP	ZNE	13 23 49.5D																
		ES	ZNE	25 19																
	H M S	EPICENTRE	DEPTH	MAG																
	14 40 42.5	25.2S 179.9E	527KM	4.3	S. OF FIJI															
	RAO	P	Z	14 41 58																
	ES		Z	43																











		E(S)	ZNE	50 14						
OCT 12	19 17 39.9	H M S	EPICENTRE	DEPTH	MAG					
			20.9S 173.8W	607KM	5.7	FIJI				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SUV	IP	Z	19 19 22.9J	4						
RAO	IP	Z	19 19 43	8						
	S	Z	21 23 0	4						
AFI	IP	ZNE	19 19 51.4	10	-1.06					
	IS	ZNE	21 36							
RAR	IP	ZNE	19 21 12.8J	18						
	ES	H	24 04							
	EPCP	ZNE	25 26							
SBA	IP	ZNE	19 25 36 J	57	0.29					
	E-PP	ZNE	28 32							
	ISCP	ZNE	30 23.5							
	ES	ZNE	33 54							
	ESCS	ZNE	33 25							
	ESS	ZNE	37 14							
	EL	ZNE	41 00							
OCT 12	RAO EP	Z	19 40 09							
	ES	Z	42 13							
OCT 12	20 26 22.9	H M S	EPICENTRE	DEPTH	MAG					
			17.2S 173.0W	174KM	4.0	TONGA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
AFI	IP	ZNE	20 27 31	0	5					
	IS	ZNE	29 19							
SUV	EP	Z	20 29 20	6						
OCT 13	AFI IP	ZNE	02 39 20.70							
	S	ZNE	39							
OCT 13	AFI EP	ZNE	03 01 34							
	IS	ZNE	02 22							
OCT 13	08 05 09.3	H M S	EPICENTRE	DEPTH	MAG					
			30.6S 173.2W	50KM	4.8	KERMADEC IS				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
RAO	IP	Z	08 05 29.00	1						
	S	Z	54							
AFI	EP	Z	08 03 57	18						
	ES	ZNE	12 07							
	ET	ZNE	27 02							
RAR	P	ZNE	08 09 24.5	19						
	ES	ZE	12 41							
SBA	EP	ZNE	08 13 44	48						
OCT 13	12 04 38.3	H M S	EPICENTRE	DEPTH	MAG					
			32.1S 69.2W	121KM	4.9	ARGENTINA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SBA	EP	ZNE	12 15 10	65						
OCT 13	19 50 52.9	H M S	EPICENTRE	DEPTH	MAG					
			19.6S 177.7W	338KM	4.2	FIJI				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SUV	P	Z	19 52 49	4						
AFI	IP	ZNE	19 53 06 J	9	-0.83					
	ES	ZNE	54 39							
OCT 14	00 37 06.2	H M S	EPICENTRE	DEPTH	MAG					
			19.9S 173.8W	44KM	4.5	TONGA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
AFI	EP	ZNE	00 33 33	5						
	S	ZNE	39 40							
RAR	EP	Z	00 40 13	13						

OCT 14	AFI IP	ZNE	01 09 05 J							
	IS	ZNE	25							
OCT 14	02 58 47.8	H M S	EPICENTRE	DEPTH	MAG					
			31.5S 117.0E	1KM	6.0	WESTERN AUSTRALIA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SBA	EP	ZNE	03 07 55	51	0.23					
	ES	ZNE	15 20							
	ESS	ZNE	13 53							
	ELR	ZNE	22 20							
SUV	EP	Z	03 03 56	57						
AFI	EP	ZNE	03 09 46	67						
	S	ZNE	13 44							
	ESS	Z	23 08							
	EL	ZN	27 38							
	EL	ZNE	31 00							
RAR	EP	ZNE	03 10 26	74	-0.46					
	ES	ZNE	19 48							
	ESS	NE	24 42							
	EL	ZNE	33 48							
OCT 14	AFI E(P)	ZNE	04 22 13							
OCT 14	05 51 42.3	H M S	EPICENTRE	DEPTH	MAG					
			11.1S 163.1E	33KM	5.2	SOLOMON IS				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
AFI	EP	ZNE	05 57 06	25						
	ES	NE	06 02 26							
	EL	ZNE	04 36							
SBA	EP	ZNE	06 02 34.5	67						
OCT 14	AFI IP	ZNE	06 33 53.80							
	IS	ZNE	36 12							
OCT 15	SBA EP	ZNE	00 21 02							
OCT 15	02 10 34.4	H M S	EPICENTRE	DEPTH	MAG					
			0.5S 100.6E	98KM	5.6	S. SUMATRA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SBA	EP	ZNE	02 22 58	85						
OCT 15	03 30 04.2	H M S	EPICENTRE	DEPTH	MAG					
			31.5S 117.0E	3KM	5.2	WESTERN AUSTRALIA				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SBA	EP	ZNE	03 39 12	51						
OCT 15	17 30 16.4	H M S	EPICENTRE	DEPTH	MAG					
			30.3S 173.0W	50KM	4.2	KERMADEC IS				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
SBA	EP	ZNE	17 33 54	48						
OCT 15	20 09 08.7	H M S	EPICENTRE	DEPTH	MAG					
			9.0N 125.3E	63KM	5.2	PHILIPPINE IS				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
AFI	EL	ZE	20 39 42	66						
SBA	EP	ZNE	20 20 00.5	90						
OCT 16	SUV EP	Z	07 14 34							
	EP	Z	07 14 46							
	ES	ZNE	15 17							
OCT 17	05 09 06.2	H M S	EPICENTRE	DEPTH	MAG					
			3.8S 192.2E	22KM	5.3	NEW IRELAND				
			H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ	AN TN	AE TE	MAG	
AFI	ES	ZN	05 22 08	37						
	E(SSS)	N	24 44							
	EL	ZNE	26 12							





	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 22	13	59	39.7	17.6S 179.1W	621KM	4.3	FIJI
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
AFI	IP			Z 14 01 28.1			
ES				ZNE 02 59			
OCT 22	19	13	31.7	18.3S 177.9W	612KM	5.3	FIJI
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
AFI	EIP			ZNE 19 15 26			
ES				ZNE 15 59			
RAR	EP			Z 19 17 03		17	
OCT 22	RAO	IP		Z 22 02 04		0	
ES				Z 49			
AFI	IP			Z 22 04 34.50			
OCT 23	01	54	01.9	53.5S 140.3E	33KM	4.7	W. OF MACQUARIE I.
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 01 59 26.0		26	
ES				ZNE 02 04 05			
OCT 23	02	34	48.2	4.2S 143.2E	33KM		NEW GUINEA
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 02 46 25		75	
OCT 23	13	25	58.9	9.1S 112.0E	46KM	5.4	S. OF JAVA
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 13 37 31.5		74	
OCT 23	21	04	41.3	3.3S 143.3E	12KM	6.1	BISHARCK SEA
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SUV	EP			Z 21 12 20		37	
RAO	IP			Z 21 13 30		45	
AFI	EP			ZNE 21 13 03		45	
IPP				ZNE 14 50			
EPCS				ZN 17 30			
IS				ZNE 19 50			
I(SSS)				ZNE 23 13			
RAR	EP			ZNE 21 14 37		53	
ES				ZNE 22 42			
ELQ				NE 27 40			
ELR				ZNE 29 12			
SBA	EP			ZNE 21 15 27		76	0.91
EPCP				ZNE 57			
EPPP				ZNE 21 25			
ES				ZNE 25 16			
ESS				ZNE 31 00			
ELQ				ZNE 35 00			
ELR				ZNE 39 00			
OCT 23	RAR	P		ZNE 21 17 27			
SBA	EP			ZNE 21 21 52			
OCT 23	SBA	EP		ZNE 23 40 42			
OCT 24	00	42	21.9	7.2N 125.6E	77KM	5.4	MINDANAO
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 00 55 03.4		88	

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 24	01	29	42.6	19.6S 63.9W	107KM	5.3	CHILE
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 01 41 29		79	
OCT 24	02	02	26.9	3.5S 143.6E	40KM	5.3	NEW GUINEA
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 02 14 08		75	
OCT 24	05	07	53.9	45.6S 134.1E	33KM	5.3	S. INDIAN OCEAN
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 05 17 12		53	
ES				ZNE 25 00			
OCT 24	12	02	00.1	18.7S 177.2W	639KM	4.1	FIJI
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
AFI	IP			ZNE 12 03 53		7	
ES				ZNE 05 53			
SBA	EP			ZNE 12 11 08		60	
OCT 24	SBA	EP		ZNE 13 09 57			
ES				ZNE 14 13			
OCT 24	13	58	35.1	1.5N 125.4E	47KM	5.4	MOLUCCAS
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 14 10 53.6		82	
OCT 24	15	51	18.5	5.9N 127.0E	70KM	5.4	PHILIPPINES
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
AFI	EP			ZNE 16 01 36		64	
ES				ZNE 10 22			
ESS				ZNE 14 12			
ESSS				ZNE 17 42			
EL				ZNE 22 00			
RAR	EP			Z 16 03 04		77	
ES				ZN 13 14			
ESKS				E 47			
E(SS)				ZN 19 06			
EL				ZNE 25			
SBA	EP			ZNE 16 03 56		86	
ES				ZNE 14 20			
OCT 24	17	34	31.3	30.3S 68.2W	35KM	5.0	ARGENTINA
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EP			ZNE 17 49 23		67	
OCT 24	22	35	50.9	49.7N 155.8E	35KM	5.5	KURIL IS
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SBA	EPKP			ZNE 22 54 52		127	
OCT 25	10	13	32.5	19.8S 179.6E	532KM	4.2	S. OF FIJI
				H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ AN TN AE TE MAG
SUV	IP			Z 10 14 55.50		2	
AFI	IP			Z 10 13 42		10	
ES				ZNE 17 29			



	H	M	S	EPICENTRE	DEPTH	MAG												
OCT 25	10	29	24.1	4.34 93.5E	33KM	5.5	N. SUMATRA											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SBA	EP		ZNE 10 42 23		90												
OCT 25	SUV	P		Z 14 14 18														
OCT 25	14	14	48.5	18.9S 172.9W	33KM	4.8	TONGA											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	AFI	EP		ZNE 14 15 03		5												
		IS		ZNE 58														
		ET		ZNE 20 45														
	RAR	P		ZNE 14 17 35.0		13												
OCT 25	15	55	11.9	3.54 125.0E	50KM	5.2	S. OF MINDANAO											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SBA	EP		ZNE 16 07 37		84												
OCT 25	AFI	EP		ZNE 23 09 08														
		IS		ZNE 51														
OCT 26	AFI	IP		ZNE 02 31 04			D											
OCT 26	AFI	IP		ZNE 02 57 42			J											
		IS		ZNE 59 03														
OCT 26	AFI	IP		Z 05 03 30														
OCT 26	AFI	IP		ZNE 07 33 54			D											
		IS		ZNE 34 37														
		ET		ZNE 37 27														
OCT 26	09	58	24.6	8.9S 110.9E	52KM	5.0	JAVA											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SBA	EP		ZNE 10 10 01		74												
OCT 26	14	09	30.1	29.2S 173.6W	172KM	4.4	KERMADEC IS											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SUV	P		Z 14 12 36		11												
	AFI	EP		ZNE 14 13 13		16												
		ES		ZNE 16 06														
OCT 27	AFI	EP		ZNE 00 11 57														
		S		ZNE 12 49														
		ET		ZNE 15 32														
	RAR	EP		ZNE 00 13 36														
		ES		ZNE 15 40														
OCT 27	AFI	IP		ZNE 07 04 42			J											
		IS		ZNE 05 00														
OCT 27	12	15	58.5	20.4S 173.1W	510KM	3.8	FIJI											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	AFI	EP		ZNE 12 19 00		9												
		IS		ZNE 19 38														
OCT 27	13	42	26.1	5.94 123.6E	193KM	5.5	MINDANAO											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SBA	EP		ZNE 13 54 50		87												

	H	M	S	EPICENTRE	DEPTH	MAG												
OCT 27	17	45	09.2	14.7S 173.1W	458KM	3.9	FIJI											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	AFI	IP		Z 17 45 28.60		5												
OCT 28	02	53	26.8	24.4S 65.9W	153KM	5.1	ANDES											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SBA	EP		ZNE 03 04 43		73												
OCT 28	19	38	28.0	24.2S 179.8W	441KM	4.4	S. OF FIJI											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	AFI	EP		ZNE 19 41 17		13												
		ES		ZNE 43 35														
	SBA	EP		ZNE 19 47 11		54												
OCT 28	23	32	28.7	12.5S 165.5E	50KM	5.9	SANTA CRUZ IS											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SUV	P		Z 23 35 57		13												
	AFI	IP		ZNE 23 37 18		21												
		IS		ZNE 41 30														
		IL		ZNE 42 50														
	RAO	EP		Z 23 37 26		22												
	SBA	EP		ZNE 23 43 06.5J		65	0.41											
		ES		ZNE 51 50														
		ESS		ZNE 55 06														
		ELQ		ZNE 59 20														
		ELR		ZNE 24 03 23														
OCT 29	03	03	15.1	20.2S 179.0W	520KM	4.5	FIJI											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SUV	P		Z 03 04 56		4												
	AFI	EP		ZNE 03 05 12		9												
		ES		ZNE 06 46														
OCT 29	07	21	16.7	17.8S 173.8W	567KM	5.5	FIJI											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	SUV	P		Z 07 22 54		3												
	SBA	EP		NE 07 30 34.5		61												
OCT 29	11	26	51.8	22.5S 175.2W	33KM	5.1	TONGA											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	RAO	EP		Z 11 29 30		7												
		ES		Z 29 58														
	AFI	EP		ZNE 11 29 57		9												
		ES		ZNE 30 31														
	SBA	EP		NE 11 35 31.6		56												
OCT 29	11	39	20.2	22.6S 174.9W	33KM	5.2	TONGA											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	RAO	ES		Z 11 42 30		7												
	SUV	EP		Z 11 41 42		8												
	AFI	EIP		Z 11 41 26		9												
		S		ZNE 43 04														
	SBA	EP		NE 11 49 00		56												
OCT 29	17	00	40.4	1.84 125.4E	33KM	5.5	MOLUCCAS											
				H 1 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG								
	AFI	EL		Z 17 30 42		63												
	SBA	EP		ZNE 17 13 03		82												

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 29	22	16	15.6	65.4N 150.1W	7KM	5.1	ALASKA
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	EP	Z	22 25 34		81		
	ES	NE	33 40				
	E(SSS)	E	47 12				
	EL	ZNE	50 00				
RAR	P	ZE	22 29 04		87		
	ESKS	NE	39 46				
	ESS	NE	44 40				
	ELQ	E	52				
	ELR	NE	53 20				
SBA	EPKP	ZNE	22 33 54.5		145		
	EP	ZNE	39 05				
	ESS	ZNE	58 12				
	ESSS	ZNE	23 03 45				
	EL	ZNE	14 00				
OCT 30	00	07	16.2	1.8N 125.4E	33KM	5.2	MOLUCCAS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	00 19 38		82		
OCT 30	05	26	11.5	99.0S 25.6W	39KM	4.7	SOUTH SANDWICH IS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	05 34 11		43		
OCT 30	09	42	10.8	31.0S 179.9W	328KM	4.9	KERMADEC IS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
RAO	IP	Z	09 43 11		2		
SUV	IP	Z	09 45 30.5J		13		
AFI	EIP	ZNE	09 46 07		19		
	IS	ZNE	49 20				
RAR	P	Z	09 45 26.5		21		
	ES	N	49 53				
	EP	Z	50 42				
SBA	EP	ZNE	09 50 14		47		
OCT 30	SBA	EP	ZNE	16 48 12			
OCT 31	AFI	EP	ZNE	08 40 41			
	IS	ZNE	41 24				
OCT 31	09	06	36.4	1.2N 125.3E	33KM	5.1	MOLUCCAS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SUV	P	Z	09 15 26		55		
AFI	IP	Z	09 17 03		63		
	ES	ZNE	23 30				
	ESS	ZE	30 00				
	ESSS	ZNE	33 04				
	EL	Z	35 08				
RAR	P	ZNE	09 19 19.5		75		
SBA	IP	ZNE	09 19 54.5J		82	0.20	7.4
OCT 31	09	13	46.9	16.3S 73.3W	67KM	5.7	PERU
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	09 27 53		80		
NOV 01	01	32	23.3	41.6S 173.0E	29KM	5.5	NORTH ISLAND, N. Z.
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	01 39 31		37		
	EP	ZNE	41 53				

	H	M	S	EPICENTRE	DEPTH	MAG	
NOV 01	03	55	50.3	18.2N 105.7W	33KM	4.7	W. OF MEXICO
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	ES	NE	04 17 12		73		
	EL	ZNE	23 36				
NOV 01	13	18	47.1	5.5S 124.8E	33KM	5.6	BANDA SEA
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	13 30 28.5		76		
NOV 01	AFI	IP	ZNE	18 44 43.3D			
	ES	NE	46 59				
NOV 02	03	18	56.7	16.6S 175.9E	114KM	4.9	FIJI REGION
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SUV	P	Z	03 19 26		3		
AFI	ES	ZNE	03 24 00		12		
SBA	EP	ZNE	03 29 02		61		
NOV 02	10	45	16.5	16.6S 167.6E	29KM		NEW HEBRIDES
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SBA	EP	ZNE	10 53 32		61		
NOV 02	12	33	04.1	30.6S 179.4W	259KM	4.6	KERMADEC IS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	EP	Z	12 37 15		18		
	ES	ZNE	40 05				
NOV 02	AFI	IP	ZNE	17 57 46.1JNE			
	IS	ZNE	53 11				
NOV 02	AFI	E(P)	ZNE	18 33 46			
NOV 02	22	32	21.7	1.5N 125.2E	37KM	5.4	MOLUCCAS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	E(S)	NE	22 51 36		63		
	EL	Z	23 01 06				
	EL	ZNE	03 36				
SBA	EP	ZNE	22 44 42		82		
NOV 03	03	11	09.8	7.0S 155.6E	87KM	5.2	SOLOMON IS
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	EP	Z	03 17 35		33		
NOV 03	AFI	E(P)	Z	05 09 28			
NOV 03	05	15	53.0	59.2N 151.2W	36KM		ALASKA
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
AFI	E	E	05 56 32		75		
	EL	ZN	06 00 00				
NOV 03	AFI	IP	Z	05 50 49 J			
	ES	ZNE	52 20				
NOV 03	15	40	11.9	20.2S 177.7W	454KM	4.0	FIJI REGION
				H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE MAG
SUV	IP	Z	15 41 37.0D		4	-0.22	
AFI	IP	Z	15 42 14 J		8		
	ES	ZNE	43 47				



DATE	TIME	STATION	EPICENTRE	DEPTH	MAG	LOCATION
NOV 03	AFI 1P	ZNE 20 45 46	J			
	IS	ZNE 47 21				
NOV 04	H M S	EPICENTRE	DEPTH	MAG		
03 00 49.5	SBA EP	18.4S 163.8E	125KM	4.6	NEW HEBRIDES	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		ZNE 03 10 41	59			
NOV 04	SBA EP	ZNE 03 33 56				
NOV 04	H M S	EPICENTRE	DEPTH	MAG		
09 07 38.5	SUV IP	14.2S 172.0E	585KM	5.8	NEW HEBRIDES	
	AFI IP	H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
	IS	ZNE 09 09 32.1	J	7		
	I	ZNE 13 04				
	I (SCP)	ZNE 32			12 12 32 20	5.9
	IP	Z 09 11 12.60	18			
	ES	Z 14 09.5				
	RAR EP	Z 09 12 43	28	-0.60		
	EPP	NE 14 13				5.9
	E	NE 15 26				6.2
	ES	ZNE 15 49			9 11 7 8	22 13
	ELQ	NE 13 23			11 11	32 10
	ELR	NE 19 03				
	SBA IP	ZNE 09 17 15	0	64	0.49	11 12
	ES	ZNE 25 09				7.0
NOV 04	SBA EP	ZNE 09 45 27				
NOV 05	AFI EP	ZNE 10 32 43				
	S	ZNE 33 29				
	ET	ZNE 37 06				
	RAR P	ZNE 10 34 29.6				
NOV 04	H M S	EPICENTRE	DEPTH	MAG		
10 36 21.3	SUV EP	14.1S 172.2E	591KM	4.8	NEW HEBRIDES	
	AFI IP	H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
	SBA EP	Z 10 38 15	7			
		ZNE 10 39 36.5J	16	-0.73		5.6
		ZNE 10 43 58	64			
NOV 04	H M S	EPICENTRE	DEPTH	MAG		
10 47 12.2	AFI IP	14.2S 172.1E	615KM	4.2	NEW HEBRIDES	
		H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		Z 10 50 25.6	16	-1.26		4.9
NOV 04	H M S	EPICENTRE	DEPTH	MAG		
12 30 39.7	SBA EP	5.0S 153.3E	79KM	4.9	NEW IRELAND	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		ZNE 12 42 05	73			
NOV 05	AFI EP	Z 14 51 06				
	S	ZNE 39				
	ET	ZNE 53 12				
NOV 06	AFI EP	ZNE 11 00 22				
NOV 06	AFI IP	Z 14 00 50.60				
NOV 06	AFI IP	Z 19 33 26.40				
	IS	ZNE 40				

DATE	TIME	STATION	EPICENTRE	DEPTH	MAG	LOCATION
NOV 06	H M S	EPICENTRE	DEPTH	MAG		
19 49 32.1	AFI EP	15.0S 179.9W	442KM	3.8	FIJI REGION	
		H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		Z 19 51 10	7			
NOV 06	H M S	EPICENTRE	DEPTH	MAG		
20 16 06.1	AFI ES	6.1S 107.1W	33KM	4.9	E. PACIFIC OCEAN	
	EL	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		E 20 35 30	64			
		ZE 43 00				
NOV 07	SBA EP	ZNE 01 11 12				
NOV 07	H M S	EPICENTRE	DEPTH	MAG		
03 32 50.8	AFI IP	16.6S 172.7W	33KM	5.1	SAMOA REGION	
	IS	H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		ZNE 03 33 27	J	3		
	SUV EP	Z 03 34 59	9			
	RAR P	ZNE 03 35 48.8	13	-0.53		
	ES	ZNE 38 09			46 9 25 12	
	EL	ZNE 39 45				
	SBA EP	ZNE 03 43 11	62			
	ES	ZNE 51 44				
	ESCS	ZNE 53 13				
	ELQ	ZNE 59 00				
	ELR	ZNE 04 02 00				
NOV 07	AFI IP	ZNE 04 53 10	J			
NOV 07	H M S	EPICENTRE	DEPTH	MAG		
06 13 40.5	AFI EP	17.8S 173.6W	531KM	4.5	FIJI REGION	
	ES	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		ZNE 06 15 35	8			
		ZNE 17 07				
NOV 07	H M S	EPICENTRE	DEPTH	MAG		
10 02 05.3	AFI EPKP	73.4N 54.9E	0KM	6.0	NOVAYA ZEMLYA	
	RAR EPKP	H 1 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
	SBA EPKP	Z 10 20 50	115			
	EPKS	Z 10 21 07	124			
		ZNE 10 22 08	163			
		ZNE 23 02				
		ZNE 25 48				
NOV 07	H M S	EPICENTRE	DEPTH	MAG		
14 15 21.3	SBA EP	3.2S 127.8E	39KM	5.2	CERAH	
		H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
		ZNE 14 27 14	77			
NOV 08	H M S	EPICENTRE	DEPTH	MAG		
07 42 57.3	AFI IP	13.3S 167.2E	192KM	5.1	NEW HEBRIDES	
	E=PP	H 4 S	DIR DIS	LG <sub>A/T</sub>	AZ TZ AN TN AE TE	MAG
	ES	ZNE 07 47 34	0	20		
	SBA IP	ZNE 48 24				
		ZN 51 00				
		ZNE 07 53 16.2	65	-0.63		6.2
NOV 08	AFI EP	ZNE 09 30 16				
	ES	ZNE 31 49				
NOV 08	AFI EP	ZNE 11 58 02				
	S	ZNE 40				
	(T)	ZNE 12 00 33				
	SUV P	Z 11 58 33				

	H	M	S	EPICENTRE	DEPTH	MAG									
NOV 08	18	27	26.7	19.5S 179.2W	670KM	5.2	FIJI REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SUV	EIP		Z 18 28 51.6J		3									
		ES		Z 30 00											
	AFI	IP		ZNE 18 29 37.2D		9									
		S		ZNE 31 20											
	RAR	P		ZE 18 31 03.5		18	-0.71								
	SBA	IP		ZNE 18 35 25.6		59								5.4	
NOV 08	SUV	P		Z 18 41 59											
NOV 08	18	45	34.0	20.0S 173.2W	596KM	4.5	FIJI REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SUV	EP		Z 18 46 53		4									
	AFI	EP		Z 18 47 31		9									
		ES		NE 49 04											
NOV 08	SUV	EP		Z 22 53 29											
NOV 09	13	13	31.3	20.1S 173.6W	615KM	4.7	FIJI REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SUV	P		Z 13 14 54		3									
	AFI	IP		ZNE 13 15 37.7J		9									
		IS		ZNE 17 18											
	SBA	IP		ZNE 13 22 30.5J		58									
NOV 09	17	01	41.1	38.0N 89.5W	19KM	5.3	CENTRAL U.S.A.								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EPKP		ZNE 17 20 47		130									
NOV 09	17	17	43.0J												
		ES		Z 13 49											
	AFI	E(P)		Z 17 18 23											
		E(S)		ZNE 19 53											
NOV 09	20	30	41.9	2.4N 125.8E	33KM	5.5	MOLUCCAS								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZNE 20 41 05		63									
		ES		ZN 49 36											
		ES		NE 50 20											
		E		N 52 18											
		ELQ		N 57 30											
	SBA	EP		ZE 21 00 36											
		ES		ZNE 20 43 06		83									
		ES		ZNE 53 26											
		ELR		ZNE 21 03 10											
NOV 09	23	26	25.6	56.4S 25.3W	33KM	5.3	S SANDWICH IS								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EP		ZNE 23 34 46.5		46									
NOV 10	13	43	49												
NOV 10	17	01	59.2	20.0N 121.4E	33KM	5.2	PHILIPPINES								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SBA	EPP		ZNE 17 19 55		101									
NOV 10	18	43	58												
NOV 11	21	07	48.8												

NOV 10	AFI	IP		ZNE 22 53 17.5J											
		S		ZNE 56											
NOV 11	01	58	41.0	19.6S 179.1W	674KM	4.9	FIJI REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	SUV	IP		Z 02 00 06.0J		3									
	AFI	IP		Z 02 00 51 J		9									
		ES		ZNE 02 35											
	SBA	IP		ZNE 02 07 39.5J		59	-0.63							5.7	
NOV 11	14	41	15.9	40.1N 143.0E	35KM	5.5	E. OF HONSHU								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	ES		NE 15 01 24		68									
		ELQ		NE 09 36											
		ELR		ZN 12 00											
NOV 11	15	37	06.9	46.4S 165.1E	33KM	5.4	W. OF FIORDLAND								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	CBZ	EP		Z 15 38 36		6									
		ES		Z 40 02											
	SBA	EP		ZNE 15 43 27.5		32									
NOV 12	00	44	12.8	27.5N 128.4E	48KM	5.8	RYUKYU IS								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	EP		ZNE 00 55 42		71	-0.74							6.3	
		EL		ZNE 01 17 00											
NOV 12	AFI	EP		Z 00 53 53											
		EIS		ZNE 59 53											
NOV 12	06	27	19.8	20.3S 173.2W	550KM	4.3	FIJI REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	IP		ZN 06 29 21 J		9									
		ES		ZNE 31 00											
NOV 12	22	00	39.1	15.6S 172.8W	47KM	5.2	SAMOA REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	EIP		ZNE 22 00 58		2									
		IS		ZNE 01 24											
	SUV	EP		Z 22 02 49		9									
	RAR	EP		NE 22 03 42		14									
		E		Z 05 31											
		ES		NE 41											
	SBA	EP		ZNE 22 11 02		63									
		ES		ZNE 19 40											
NOV 12	AFI	EP		ZNE 23 53 18											
		S		ZNE 37											
NOV 13	AFI	IP		Z 00 44 05.4											
		S		ZNE 29											
NOV 13	01	56	45.1	15.7S 172.8W	35KM	5.0	SAMOA REGION								
				H 4 S	DIR DIS	LG=A/T	AZ TZ	AN TN	AE TE	MAG					
	AFI	IP		ZNE 01 57 09.10		2									
		S		ZNE 28											
	RAR	EP		ZNE 01 59 47		14									
		ES		ZNE 02 02 13											
		ET		ZNE 13 53											
	SBA	EP		ZNE 02 07 11		63									





DATE	STATION	EPICENTRE	DEPTH	MAG	REGION
NOV 16	AFI EP S ET	Z 20 25 29 ZNE 25 21 ZNE 30 20			
NOV 17	H M S 04 25 42.5 AFI IP S	EPICENTRE 19.6S 177.8W H 1 S Z 04 27 32 ZNE 28 58	DEPTH 438KM 5.2 8	MAG 4.2	FIJI REGION
NOV 17	H M S 05 16 59.4 SBA EP	EPICENTRE 3.3S 129.7E H 1 S ZNE 05 30 48	DEPTH 59KM 5.2 77	MAG 5.2	CERAM
NOV 17	H M S 07 41 16.1 RAR ESS AFI EPKP EPP ESSP E ESSS EL EL	EPICENTRE 1.3S 13.6W H 1 S NE 08 22 54 Z 08 01 24 Z 04 56 NE 24 48 Z 25 04 ZE 30 44 NE 42 04 ZN 52 40	DEPTH 33KM 5.3 140 154	MAG 5.3	S. ATLANTIC RIDGE
NOV 17	SUV EP	Z 09 50 44			
NOV 17	H M S 11 04 09.7 SBA EP	EPICENTRE 14.9S 167.4E H 1 S ZNE 11 14 25.5	DEPTH 122KM 4.0 63	MAG 4.0	NEW HEBRIDES
NOV 17	H M S 13 06 16.5 SBA EP	EPICENTRE 1.2N 129.3E H 1 S ZNE 13 13 35	DEPTH 33KM 3.4 82	MAG 3.4	MOLUCCA
NOV 17	AFI E(S)	ZNE 21 40 32			
NOV 17	H M S 23 00 20.7 SBA EP	EPICENTRE 1.8N 126.6E H 1 S ZNE 23 12 45	DEPTH 30KM 5.1 82	MAG 5.1	MOLUCCAS
NOV 18	H M S 01 39 22.4 SBA EP	EPICENTRE 8.1S 128.9E H 1 S ZNE 01 50 48	DEPTH 28KM 5.2 72	MAG 5.2	TIMOR SEA
NOV 18	H M S 02 42 02.1 AFI IP ES SBA EP	EPICENTRE 7.0S 155.8E H 1 S ZNE 02 48 26.6J ZNE 49 44 ZNE 02 53 13	DEPTH 98KM 5.1 33 71	MAG 5.1	SOLOMON IS
NOV 18	AFI IP S	ZNE 09 51 08.9J ZNE 28			
NOV 18	AFI IP S	ZNE 13 44 36.5 ZNE 56			

DATE	STATION	EPICENTRE	DEPTH	MAG	REGION
NOV 18	H M S 21 42 00.1 AFI IP	EPICENTRE 7.7S 155.2E H 1 S Z 21 48 20.80	DEPTH 94KM 4.9 32	MAG 4.9	SOLOMON IS
NOV 18	AFI EP S ET RAR EP	Z 23 13 29 ZNE 14 20 ZNE 13 20 ZNE 23 15 07			
NOV 18	AFI IP	Z 23 19 23.90			
NOV 19	AFI EP ES ET	ZNE 08 02 32 ZNE 03 23 ZNE 07 29			
NOV 19	RAO P S	Z 10 15 47.8 Z 16 28.8			
NOV 19	AFI EP S	ZNE 23 34 26 ZNE 35 33			
NOV 20	AFI EP ES	ZNE 02 09 08 ZNE 10 52			
NOV 20	H M S 07 04 40.3 SBA EP	EPICENTRE 41.2S 90.1W H 1 S ZNE 07 13 52.0	DEPTH 33KM 4.5 53	MAG 4.5	S PACIFIC OCEAN
NOV 20	AFI E(P) E(S)	ZNE 12 34 35 NE 35 33			
NOV 20	SUV EP	Z 19 09 45			
NOV 20	AFI IP IS T	ZNE 19 19 12.70 ZNE 46 ZNE 17 59			
NOV 21	H M S 02 36 21.8 AFI P S ET SUV EP RAR EP ES ET SBA EP	EPICENTRE 20.9S 174.1W H 1 S ZNE 02 39 11 ZNE 39 10 ZNE 44 47 Z 02 35 18 ZNE 02 39 22 ZNE 41 40 ZNE 53 21 ZNE 02 46 17	DEPTH 33KM 5.0 7 9 13 58	MAG 5.0	TONGA
NOV 21	H M S 11 04 16.0 SBA EP	EPICENTRE 0.9N 125.8E H 1 S ZNE 11 15 34	DEPTH 33KM 4.9 82	MAG 4.9	MOLUCCAS
NOV 21	H M S 23 31 52.7 SUV IP ES EP ES RAR P ES SBA EP	EPICENTRE 19.6S 175.2W H 1 S Z 23 33 16.0J Z 34 24 ZNE 23 33 21 ZNE 34 33 ZNE 23 35 16.5 NE 38 16 ZNE 23 41 29	DEPTH 270KM 4.5 5 7 7 15 59	MAG 4.5	FIJI REGION





NOV 26	H M S	EPICENTRE	DEPTH	MAG															
	00 03 14.3	97.5S 5.8W	33KM	5.6	S ATLANTIC RIDGE														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SBA EP	ZNE 00 11 27		45															
NOV 26	01 10 12.9	5.3S 152.0E	58KM	5.5	NEW BRITAIN														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI EIP	ZNE 01 17 14		37															
	ES	ZE 22 42																	
	ESS	N 24 18																	
	EL	ZE 27 30																	
	RAR P	ZNE 01 13 57.0		49															
	SBA IP	ZNE 01 21 37.5		73															
NOV 26	01 49 26.3	21.3S 179.5W	672KM	5.0	FIJI REGION														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SUV P	Z 01 51 21		4															
	AFI EP	ZNE 01 52 12		10															
	S	ZNE 54 03																	
	RAR P	ZNE 01 53 29.2		18															
	SBA EP	ZNE 01 58 44		57															
NOV 26	AFI EP	Z 07 39 19																	
	S	ZNE 40 02																	
	ET	ZNE 43 52																	
	RAR EP	ZNE 07 42 04																	
NOV 26	01 54 00.3	23.0S 179.1W	558KM	4.0	S. OF FIJI														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SUV IP	Z 10 53 30.00		5															
	AFI EP	ZNE 10 55 40		11															
	ES	NE 58 50																	
	SBA EP	ZNE 11 02 43		55															
NOV 27	00 14 28.2	18.3S 177.9W	542KM	4.2	FIJI REGION														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI IP	Z 00 16 20.50		7															
	ES	ZNE 17 48																	
NOV 27	AFI IP	ZNE 18 09 16		D															
	S	ZNE 33																	
NOV 27	AFI EP	ZNE 20 09 24																	
	S	ZNE 58																	
	T	ZNE 12 30																	
NOV 27	AFI EP	ZNE 20 56 23																	
	S	ZNE 57																	
	T	ZNE 59 27																	
NOV 28	AFI P	ZNE 03 13 00																	
	ES	ZNE 19 47																	
NOV 28	10 36 07.7	19.4N 94.6W	33KM	5.2	CENTRAL AMERICA														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	RAR EP	ZE 10 47 22		74															
	ES	ZNE 57 14																	
	EPS	NE 56																	
	ELQ	NE 11 07 09																	
	ELR	ZNE 09 30																	
	AFI EP	Z 10 48 20		82	0.03			7.2											
	IS	NE 58 39																	

		ESS	ZNE 11 03 08																
		ELQ	NE 10 04																
		ELR	ZE 13 00																
		EP	ZNE 10 50 24					107											
		EPP	ZNE 54 42																
		ESKS	ZNE 11 01 00																
		EPS	ZNE 04 00																
		ESS	ZNE 10 10																
		ELR	ZNE 25 00																
NOV 28	SUV EP	Z 11 59 57																	
NOV 28	16 30 32.1	6.8S 156.2E	159KM	5.7	SOLOMON IS														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SUV EP	Z 16 35 32		24															
	AFI IP	ZNE 16 35 46		0	32														
		I+PP	Z 37 22																
		I+PP	ZNE 28																
		ES	ZNE 41 48																
		ESS	ZNE 44 16																
	RAR P	ZNE 16 38 31.5		45															
		E+PP	Z 39 09																
		ES	ZNE 43 03																
		EL	ZNE 43 40																
	SBA EP	ZNE 16 50 44		71															
		EPP	ZNE 51 53																
NOV 29	03 49 44.7	36.2S 157.7W	33KM	4.8	S ATLANTIC RIDGE														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SBA EP	ZNE 03 57 00		66															
NOV 29	07 00 42.9	17.7S 174.6W	79KM	4.5	TONGA														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI EP	ZNE 07 01 51		5															
		S	ZNE 02 40																
		T	ZNE 05 05																
	SUV P	Z 07 02 31		7	-0.25														
	RAR EP	ZNE 07 03 47		14															
		ES	ZNE 05 05																
		ET	ZNE 17 35																
NOV 29	AFI EP	Z 08 15 51																	
		S	ZNE 17 23																
		T	ZNE 19 52																
NOV 29	SUV P	Z 11 23 56																	
NOV 29	SUV P	Z 15 31 12																	
NOV 29	21 52 12.8	20.0S 173.5W	582KM	4.5	FIJI REGION														
		H 1 S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG											
	SUV IP	Z 21 53 36		3															
	AFI EP	Z 21 54 23		9															
		ES	ZNE 56 09					</											



DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
NOV 30	04	13	32.9	61.63 160.8E	33KM	5.1	BALLENY IS										
	SBA	EP		H 1 S													
		EL		ZNE 04 17 22													
				ZNE 04 21 30													
NOV 30	04	25	13.1	61.55 160.7E	13KM	5.3	BALLENY IS										
	SBA	EP		H 1 S													
		EL		ZNE 04 23 07													
				ZNE 04 33 22													
NOV 30	AFI	IP		Z 04 25 55.70													
		S		ZNE 28 39													
NOV 30	06	07	33.9	61.73 160.7E	33KM	5.1	BALLENY IS										
	SBA	EP		H 1 S													
		ES		ZNE 06 11 21													
		EL		ZNE 06 14 40													
	AFI	EP		ZNE 06 19 30													
		ES		ZNE 06 23 30													
		EL		Z 25 00													
				Z 31 00													
DEC 01	01	51	47.7	18.35 177.9W	573KM	4.3	FIJI										
	AFI	EIP		H 1 S													
				ZNE 01 53 41													
DEC 01	05	27	09.3	65.45 177.7E	33KM	5.2	BALLENY IS										
	SBA	EP		H 1 S													
		EL		ZNE 05 30 14													
				ZNE 05 33													
	AFI	EL		ZN 05 50 02													
DEC 01	RAO	E(P)		Z 05 37 42													
		E(S)		Z 33 32													
	AFI	E(P)		ZNE 05 40 34													
DEC 01	13	14	50.6	10.65 174.9W	5KM	5.4	PERU										
	SBA	EP		H 1 S													
		ELR		ZNE 13 27 41													
		EL		ZNE 13 54													
	AFI	ES		NE 13 39 44													
		EL		N 53 56													
		EL		ZE 58 20													
DEC 01	20	35	47.6	17.85 175.6W	551KM	4.9	FIJI										
	SUV	P		H 1 S													
				Z 20 37 07													
	AFI	IP		ZNE 20 37 42.1													
		ES		NE 39 14													
DEC 01	22	55	48.2	24.85 179.6E	525KM	4.7	S OF FIJI										
	SUV	IP		H 1 S													
				Z 22 57 33.60													
	AFI	EP		ZNE 22 58 38.6													
		ES		ZNE 23 00 57													
DEC 01	AFI	EP		ZNE 23 47 34													
		S		ZNE 48 16													

DATE	H	M	S	EPICENTRE	DEPTH	MAG	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
DEC 02	AFI	IP		ZNE 01 05 24													
		S		ZNE 44													
DEC 02	02	33	42.6	13.95 23.8E	7KM	6.0	ZAMBIA										
	SBA	EP		H 1 S													
		IPKP		ZNE 02 45 24.8													
				ZNE 02 53 21.7													
	AFI	EIPKP		Z 02 53 31													
DEC 02	AFI	EP		ZNE 06 05 31													
		S		ZNE 07 00													
DEC 02	AFI	EIP		ZNE 10 09 52													
		S		ZNE 10 08													
DEC 02	AFI	E(P)		Z 11 20 45													
DEC 02	AFI	EP		ZNE 13 30 06													
		S		ZNE 40													
		ET		ZNE 33 35													
DEC 02	AFI	EP		Z 14 07 02													
DEC 03	AFI	IP		Z 06 05 54													
		S		ZNE 05 14													
DEC 03	12	05	33.2	18.15 169.1E	46KM	4.4	NEW HEBRIDES										
	AFI	EP		H 1 S													
		EP		Z 12 10 03													
	SBA	EP		Z 12 13 35.6													
DEC 03	19	26	39.1	8.45 103.7E	25KM	5.2	S OF JAVA										
	SBA	EP		H 1 S													
		EP		Z 19 39 24													
	AFI	EP		Z 19 39 01													
DEC 03	AFI	EP		ZNE 21 32 34													
		S		ZNE 52													
DEC 03	SBA	EP		ZNE 22 53 03													
		ES		ZNE 33													
DEC 03	AFI	EP		ZNE 23 05 08													
		S		ZNE 40													
		T		ZNE 03 33													
DEC 04	02	34	18.9	16.55 178.7W	442KM	4.0	FIJI										
	AFI	IP		H 1 S													
		(P)		ZE 02 35 06.3													
		IS		ZNE 46													
		IS		E 37 31													
		IS		N 34													
DEC 04	AFI	E(P)		Z 06 22 58													
		ES		ZNE 24 30													
DEC 05	AFI	EIP		ZNE 05 55 19													
		E(S)		ZNE 57 31													
DEC 05	07	52	11.0	36.64 27.0E	35KM	5.5	DODECANESE IS										
	AFI	EPKP		H 1 S													
				Z 08 12 05													

DEC 05 AFI EIP ZNE 20 03 18.4  
ES ZNE 05 56

DEC 05 RAO EP Z 22 30 17  
ES Z 31 49  
AFI E(P) Z 22 31 03  
ES ZNE 33 06

H M S EPICENTRE DEPTH MAG  
DEC 06 00 12 10.3 14.9S 167.3E 145KM 4.6 NEW HEBRIDES  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
RAO EP Z 00 15 39 20  
AFI EIP ZNE 00 15 46 20 -0.96  
RAR EP ZE 00 19 31 32 5.3  
SBA IP ZNE 00 22 31.4J 63 -0.24 6.6

DEC 06 AFI IP Z 03 30 30.5J  
EIS NE 31 01

DEC 06 AFI EP ZNE 08 14 11  
ES ZNE 15 19  
RAO EP Z 08 14 31

H M S EPICENTRE DEPTH MAG  
DEC 06 08 24 53.2 15.1S 177.9W 500KM 4.2 FIJI  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
AFI IP ZNE 08 25 11.1D 5  
S ZNE 27 19  
SBA EP ZNE 08 34 33.5 63

DEC 06 AFI EP ZNE 15 32 16  
S ZNE 33 08

DEC 06 AFI P ZNE 15 52 25  
I ZNE 40  
S ZNE 52

DEC 06 SBA EP ZNE 18 25 57.5  
ES ZNE 25 37.5

H M S EPICENTRE DEPTH MAG  
DEC 06 21 59 07.9 16.9S 172.5W 33KM 4.5 SAMOA  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
AFI IP ZNE 21 59 49 J 3  
S ZNE 22 00 20  
T ZNE 02 53  
RAR EP ZE 22 02 02 13  
ES NE 04 30

H M S EPICENTRE DEPTH MAG  
DEC 07 04 57 49.0 3.4S 143.9E 15KM 3.3 NEAR NEW GUINEA  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
AFI EP Z 05 05 48 43  
IPP Z 07 48  
ES ZNE 12 02 16 15 6.6  
I N ZNE 15 32  
ISSS ZE 15 05  
IL ZE 13 00  
RAR EP ZNE 05 07 36 56  
IS ZNE 15 44  
ISS ZNE 19 50  
ELQ ZNE 24 48  
ELR ZNE 29 08  
SBA EP ZNE 05 09 40 75  
ES NE 19 18  
ELQ NE 30  
ELR ZNE 34

DEC 07 AFI E(P) Z 05 10 13

DEC 07 RAO EP Z 06 12 30  
ES Z 13 24  
AFI EIP ZNE 06 14 12  
ES ZNE 15 32

H M S EPICENTRE DEPTH MAG  
DEC 07 15 40 57.9 51.6N 175.7E 33KM 5.3 ALEUTIAN IS  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
AFI ES ZN 16 00 24 66  
E ZN 05 30  
ESSS E 07 18  
EL ZN 10 28

DEC 07 AFI EP Z 17 01 03  
S ZNE 38  
ET ZNE 04 02

H M S EPICENTRE DEPTH MAG  
DEC 07 17 09 52.5 14.0S 166.8E 56KM 5.1 NEW HEBRIDES  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
AFI EP ZNE 17 14 36 21  
ES ZNE 18 24  
N 40  
IL ZE 19 56 7 20 8 17  
SBA IP ZNE 17 20 22.0D 64

H M S EPICENTRE DEPTH MAG  
DEC 07 20 35 21.2 45.0S 80.3W 33KM 5.6 OFF S CHILE  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
SBA EP ZNE 20 44 22.5 51  
ES ZNE 51 47  
AFI ES ZNE 20 58 00 81  
ESSS ZE 21 03 00  
E 05 00  
N 03 00  
EL ZN 12 18

H M S EPICENTRE DEPTH MAG  
DEC 07 21 35 44.8 20.7S 169.4E 51KM 5.6 NEW HEBRIDES  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
RAO EP Z 21 39 13 14  
AFI EP ZNE 21 40 03 19  
IPP ZNE 19  
ES ZNE 43 44  
IS NE 44 00  
IL ZNE 45 04 25 22  
RAR EP E 21 43 07 29  
IL ZNE 49 10  
SBA IP ZNE 21 45 28.2J 57  
ES ZNE 53 24  
ELQ E 22 00  
ELR ZN 03

DEC 07 RAO EP Z 23 30 06  
AFI EP ZNE 23 33 12  
S ZNE 48  
T ZNE 36 20

H M S EPICENTRE DEPTH MAG  
DEC 08 07 27 10.0 53.7S 140.2E 33KM W OF MACQUARIE IS  
H 1 S DIR DIS LG<sub>A</sub>/T AZ TZ AN TN AE TE MAG  
SBA EP ZNE 07 32 42.7 26  
ES ZNE 37 24  
AFI EL ZNE 07 52 56 55



DEC 08	SBA	EP	ZNE 10 21 42																	
		ES	ZNE 23 04																	
DEC 08	SBA	EP	ZNE 10 45 10.0																	
		ES	ZNE 49 30.0																	
DEC 08		H M S	EPICENTRE	DEPTH	MAG															
		12 22 30.1	19.2S 173.8W	33KM	4.6	TONGA														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI EP	ZNE 12 23 47																	
		S	ZNE 24 40																	
		ET	ZNE 29 46																	
DEC 08		H M S	EPICENTRE	DEPTH	MAG															
		13 11 51.3	5.4S 129.0E	253KM	5.5	BANDA SEA														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI IP	Z 13 21 26.2J		5.9															
		SBA EP	ZNE 13 23 07.0		7.5															
DEC 08		H M S	EPICENTRE	DEPTH	MAG															
		19 58 32.2	16.5S 172.8W	33KM	4.9	SAMOA														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI IP	ZNE 19 59 08		3															
		S	ZNE 19 59 08		3															
		SBA EP	ZNE 20 08 55		6.2															
DEC 08	AFI	EP	ZNE 21 24 46																	
		S	ZNE 23 19																	
		T	ZNE 27 26																	
DEC 09	AFI	EP	ZNE 04 49 59																	
		S	ZNE 50 32																	
DEC 09	AFI	E(P)	Z 11 35 13																	
DEC 10		H M S	EPICENTRE	DEPTH	MAG															
		04 25 29.5	6.3S 130.4E	107KM	5.5	BANDA SEA														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI IP	Z 04 33 04		5.7															
DEC 10		H M S	EPICENTRE	DEPTH	MAG															
		06 33 04.9	17.9S 172.8W	33KM	4.4	TONGA														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI EP	ZNE 06 34 06		4															
		S	ZNE 52																	
		T	ZNE 39 20																	
DEC 11		H M S	EPICENTRE	DEPTH	MAG															
		02 51 42.9	23.8S 175.4W	244KM	4.5	S OF FIJI														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		RAO EP	Z 02 52 42		6															
		ES	Z 53 48																	
		AFI EP	ZNE 02 53 44		11															
		S	ZNE 55 32																	
		ET	ZNE 03 04 02																	
		RAR EP	ZNE 02 54 40		16															
		ES	ZNE 57 13																	
		EL	ZNE 59																	
		SBA EP	ZNE 03 00 50		5.5															
DEC 11	AFI	EIP	ZNE 04 19 16																	
		EIS	ZNE 20 07																	
DEC 11	AFI	EP	ZNE 11 45 38																	
		S	ZNE 58																	
DEC 11	AFI	EP	ZNE 15 26 49																	

			IS	NE	27 25															
DEC 11	AFI	IP	ZNE 16 31 11.9J																	
DEC 11	AFI	EP	ZNE 17 10 14																	
		S	ZNE 34																	
		ET	ZNE 12 25																	
DEC 11		H M S	EPICENTRE	DEPTH	MAG															
		21 34 07.5	23.9S 175.1W	95KM	5.4	S OF FIJI														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		RAO EP	Z 21 33 19		6															
		ES	Z 35 27																	
		AFI IP	ZNE 21 35 26.3J		11															
		S	ZNE 33 15																	
		ET	ZNE 45 17																	
		RAR EP	ZNE 21 37 24		15															
		EL	Z 38 44																	
		I	ZNE 41 00																	
		EL	Z 43																	
		SBA EP	ZNE 21 43 30		5.5															
DEC 11		H M S	EPICENTRE	DEPTH	MAG															
		22 30 53.2	23.7S 175.2W	33KM	4.9	S OF FIJI														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		RAO EP	Z 22 32 16		6															
		ES	Z 33 20																	
		AFI EP	ZNE 22 33 18		11															
		S	ZNE 35 08																	
		ET	ZNE 44 00																	
		RAR EP	ZNE 22 34 17		15															
		EL	Z 37 16																	
DEC 12		H M S	EPICENTRE	DEPTH	MAG															
		00 24 39.0	15.8S 177.8W	20KM	5.1	FIJI														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE	MAG											
		AFI EP	ZNE 00 25 07		5															
		IS	NE 27 06																	
		RAR EP	Z 00 23 46		1.8															
		ES	ZNE 31 52																	
		IL	ZNE 33 00																	
		SBA EP	Z 00 33 05		6.3															
DEC 12		H M S	EPICENTRE	DEPTH	MAG															
		05 25 37.2	9.7N 125.7E	113KM	5.6	MINDANAO														
			H 1 S	DIR DIS	LG <sub>A</sub> /T	AZ TZ	AN TN	AE TE												





	ESS	ZNE	42 55																	
	ESSS	ZNE	43 04																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 17	16 49 12.4	25.25	180.0E	509KM	4.4	S OF FIJI														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	RAO IP	Z	16 50 38	0	4															
	ES	Z	51 44																	
	AFI EP	E	16 52 07	14																
	ES	F	34 25																	
DEC 17	AFI EP	F	17 24 06																	
	S	F	27																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 16	04 37 30.7	21.85	169.9E	24KM	4.8	LOYALTY IS														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	ZNE	04 42 14	19																
	I	N	32																	
	SBA EP	ZNE	04 47 31	56																
DEC 16	AFI EP	Z	10 32 06																	
DEC 16	AFI IP	Z	11 22 10	J																
	S	ZNE	31																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 18	17 28 10.2	19.55	173.4W	33KM	4.9	TONGA														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	ZNE	17 29 26	6																
	S	ZNE	30 27																	
	ET	ZNE	34 11																	
	EP	ZNE	17 31 02	13																
	ES	ZNE	34 17																	
	EL	E	33																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 18	20 03 43.9	19.95	177.6W	367KM	5.5	FIJI														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI IP	ZNE	20 03 36.1J	8																
	IS	ZNE	07 04																	
	RAO P	Z	20 05 52	9																
	S	Z	07 24																	
	RAR P	ZNE	20 07 20	17																
	S	ZNE	10 27																	
	SBA IP	ZNE	20 13 06.8J	58																
	ES	ZNE	20 48																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 19	15 15 55.7	93.34	160.1E	33KM	5.4	NEAR B KAMCHATKA														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI ES	ZNE	15 35 36	71																
	ESSS	E	45 00																	
	EL	ZN	43 00																	
DEC 19	RAO EP	Z	15 19 27																	
	ES	Z	19 42																	
	AFI EIP	ZNE	15 19 30																	
	ES	ZNE	21 39																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 19	16 30 00.0	37.24	115.5W	0KM	6.3	S NEVADA														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	RAR P	Z	16 41 21	71																
	AFI EIP	ZNE	16 41 30	73	-0.52	6.7														
	EL	ZNE	17 03 08																	
DEC 19	AFI EP	Z	21 40 14																	

	E(S)	NE	42 27																	
DEC 20	AFI EP	ZNE	03 51 18																	
	ES	ZNE	53 03																	
DEC 20	AFI EP	ZNE	14 47 59																	
	ES	ZNE	49 42																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 20	16 41 41.3	23.75	175.2W	64KM	4.9	S OF FIJI														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	RAO EP	Z	16 42 55	6																
	S	Z	44 02																	
	AFI EP	ZNE	16 44 03.5	11																
	ES	ZNE	43 55																	
	RAR P	ZNE	16 44 59	15																
	ES	E	47 30																	
DEC 21	AFI EP	Z	17 31 18																	
	S	ZNE	32 35																	
	E(T)	ZNE	33 37																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 21	21 04 21.8	20.65	173.7W	571KM	4.0	FIJI														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	Z	21 05 35	9																
	S	ZNE	03 20																	
DEC 21	AFI EP	Z	21 33 24																	
	S	ZNE	34 25																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 21	22 06 14.3	20.95	174.7W	33KM	4.6	TONGA														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	ZNE	22 07 58	7																
	S	ZNE	09 15																	
	ET	ZNE	14 40																	
	EP	ZNE	22 09 21	14																
	ES	ZNE	11 36																	
DEC 21	AFI EP	Z	22 30 20																	
	E(S)	ZNE	32 03																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 22	01 46 33.7	33.55	177.0W	39KM	4.9	S OF KERMADEC IS														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	ZNE	01 51 03	20																
	ES	ZNE	54 26																	
	ET	ZNE	02 09 10																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 22	12 41 42.2	20.35	179.0W	527KM	4.3	FIJI														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	RAO E	Z	12 44 50	9																
	ES	Z	45 19																	
	AFI IP	Z	12 43 47.2J	9																
	EIS	ZNE	45 24.4																	
DEC 22	AFI IP	Z	15 24 08	0																
	S	ZNE	45																	
	H M S	EPICENTRE			DEPTH	MAG														
DEC 22	15 27 18.9	3.45	143.8E	33KM	5.1	BISHARCK SEA														
		H 1 S	DIR DIS LG <sub>A</sub> /T AZ TZ AN TN AE TE MAG																	
	AFI EP	Z	15 34 59	40																
	ES	N	41 00																	
	E(L)	ZNE	44 16																	
	RAR EP	Z	15 36 35	53																





DEC 26	SBA	EP	ZNE 17 03 35																	
		ES	ZNE 04 10																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 26	21 05 48.3		1.7N 125.3E	33KM	5.2	MOLUCCAS														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	SBA	EP	ZNE 21 13 09.7		82															
	H M S		EPICENTRE	DEPTH	MAG															
DEC 25	22 41 16.1		30.7S 173.1W	43KM	4.9	KERMADEC REGION														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	RAO	EP	ZNE 22 41 39		1															
	RAR	EP	ZNE 22 43 34		19															
	SBA	EP	ZNE 22 49 52		48															
DEC 26	AFI	EP	ZNE 23 33 49																	
		EIS	ZNE 37 24																	
DEC 27	AFI	EP	Z 05 42 51																	
		E(S)	NE 44 51																	
DEC 27	SUV	IP	Z 09 10 29	0																
DEC 27	AFI	EP	Z 11 12 19																	
		EIS	ZNE 13 02																	
		T	ZNE 15 02																	
DEC 27	AFI	EP	Z 12 07 18																	
		S	ZNE 48																	
		T	ZNE 11 00																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 27	22 31 15.8		3.5S 123.2E	33KM	5.4	CERAH														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI	EIP	ZNE 22 41 23		60															
	SBA	IP	ZNE 22 43 06.9		77	-0.40			6.7											
DEC 27	AFI	IP	Z 23 50 03.20																	
		S	ZNE 21																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 28	02 58 06.5		22.5S 179.5W	533KM	4.5	S OF FIJI														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	SUV	ES	Z 03 00 59		5															
	RAO	P	Z 02 59 55		7															
		ES	Z 03 01 18																	
	AFI	EIP	ZNE 03 00 34.5		11															
		EIS	ZNE 02 31																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 28	06 27 23.1		3.7S 140.0E	41KM	5.5	W NEW GUINEA														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI	EP	Z 06 35 18		49															
	SBA	IP	ZNE 06 39 06.1U		75															
DEC 28	AFI	IP	ZNE 11 56 15.6U																	
		S	ZNE 48																	
DEC 28	AFI	EP	ZE 19 49 39																	
		E(S)	NE 51 06																	
DEC 28	AFI	IP	ZNE 20 55 08.1UNE																	
		S	ZNE 26																	
DEC 28	AFI	S	ZNE 23 42 04																	
		IP	Z 41 38 D																	

DEC 29	H M S		EPICENTRE	DEPTH	MAG															
	01 55 33.5		29.9S 173.2W	56KM	5.1	KERMADEC IS														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	RAO	IP	Z 01 55 48		1															
	AFI	EP	Z 01 59 28		17															
		ES	ZNE 02 02 25																	
		EL	ZNE 03 30																	
		ET	ZNE 13 33																	
	RAR	EP	ZNE 01 59 45		19															
		ES	ZNE 02 02 51																	
		EL	ZNE 03 19																	
	SBA	EP	ZNE 02 04 10.5		49															
DEC 29	RAO	EP	Z 04 13 42																	
		S	Z 09 19																	
	AFI	EP	ZNE 04 12 19																	
		ES	NE 15 32																	
		ET	ZNE 31 20																	
	SBA	EP	ZNE 04 15 30																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 29	05 13 29.0		15.6S 173.4W	125KM	4.9	TONGA														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI	IP	ZNE 05 13 47.3JNE		2															
		S	ZNE 14 08																	
	RAR	EP	ZNE 05 15 31		14															
		EL	Z 19 30																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 29	07 15 50.5		13.6N 120.5E	33KM	5.4	PHILIPPINE IS														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	AFI	EP	Z 07 27 22		72															
		ES	N 35 52																	
		EL	NE 45 18																	
		EL	Z 49 00																	
	H M S		EPICENTRE	DEPTH	MAG															
DEC 29	07 49 21.2		32.0S 173.3W	170KM	4.7	S OF KERMADEC IS														
			H 4 S	DIR DIS	LG/A/T	AZ TZ	AN TN	AE TE	MAG											
	RAO	P	Z 07 49 45		3															
		S	Z 50 13																	
	AFI	EP	ZNE 07 53 24		19															
		ES	ZNE 55 35																	
		ET	ZNE 08 11 25																	
	RAR	ES	N 07 57 09		20															
		EL	N 59 07																	
	H M S		EPICENTRE	DEPTH	MAG															





- S-152 EIBY, G.A.: An Annotated List of New Zealand Earthquakes, 1460-1965.  
N.Z. Jl. Geol. Geophys. 11: 630-47.  
New Zealand earthquakes known to have had a large felt area or to have caused damage are listed chronologically. Brief descriptive notes, including epicentres and magnitudes when known, and maximum reported intensities are given for each earthquake. Over 170 shocks are listed.
- S-153 ADAMS, R.D., SUGGATE, R.P., and SKINNER, R.I.: A Note on the Inangahua Earthquake.  
N.Z. Jl. Geol. Geophys. 11: 787-8.  
Preliminary results obtained jointly by the Geophysics Division, Geological Survey, and Physics and Engineering Laboratory of the Department of Scientific and Industrial Research
- S-154 ADAMS, R.D., EIBY, G.A., and LOWRY, M.A.: Inangahua Earthquake -- Preliminary Seismological Report.  
Bull. N.Z. Dept. Sci. and Indust. Research 193: 7-16.  
A shallow earthquake of magnitude 7 occurred on 1968 May 23 (U.T.) near 41.72°S, 174.94°E, about 15 km north of the town of Inangahua in the South Island of New Zealand. The earthquake was felt over most of New Zealand, with intensities reaching MM X around Inangahua, where there were large landslides, and serious damage to wooden houses, bridges, railway lines, and underground pipes. Significant damage was also caused in the nearby centres of Reefton, Westport, and Greymouth. There were numerous aftershocks, and in the first month following the main earthquake, 15 attained a magnitude of 5 or greater. The aftershocks already located cover an area about 40 by 25 km extending to the south-south-west of the main shock, and many have focal depths close to 12 km, established with the aid of two temporary seismograph stations in the epicentral area.
- S-155 HAMILTON, R.M., and EVISON, F.F.: Reply to R.P. Suggate's Letter.  
N.Z. Jl. Geol. Geophys. 11: 1277.  
A reply to criticisms of the author's paper on earthquakes at intermediate depth in Fiordland (Bulletin S-146). The critic considered that the role of the Alpine Fault, which finds its main expression beyond the region considered, had been insufficiently discussed. Earthquake data presented by the critic are not a good statistical sample.
- S-156 RANDALL, M.J.: Relative Sizes of Multipolar Components in Deep Earthquakes.  
J. Geophys. Research 73: 6140-2.  
The multipolar content of the radiation pattern for body-waves from deep earthquakes may be calculated from observations of the amplitude of the pulses recorded on long-period seismographs. An example is presented in which there appears to be significant volume change, although the major constituent of the radiation pattern is quadrantal, corresponding to plane shear.
- S-157 ADAMS, R.D.: Early Reflections of P'P' as an indication of Upper Mantle Structure.  
Bull. Seismol. Soc. America 58: 1933-47.  
Improved instrumentation and revised travel-time tables for the phase P' have made feasible a more detailed study of the phase P'P'. In many instances energy is observed preceding P'P', sometimes by nearly 70 sec, that can be interpreted only as reflections from discontinuities or inhomogeneities in the upper mantle. For each of the regions studied, the early reflections show a

degree of consistency for a number of earthquakes, but there is less consistency from region to region. In most areas there is evidence for reflections from a depth of 65 to 70 km, that could correspond to the top of the low-velocity channel. There is also fair evidence for reflecting surfaces at depths of between 110 and 140 km under Siberia, and between 150 and 190 km under western Europe. Of the regions studied, Antarctica alone showed no reflections from depths greater than the Mohorovičić discontinuity. This may indicate a more uniform mantle structure under Antarctica than under other regions. The relative amplitudes of the early reflections and the main phase are consistent with what would be expected from inhomogeneities postulated in recent mantle models.

- ADAMS, R.D., 1968: Properties of Aftershock sequences.  
Bull. N.Z. Soc. Earthq. Engng. 1: 113-5.  
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### EXCHANGE AGREEMENTS

The Seismological Observatory issues the following series of publications:

1. E-bulletins. These consist of the annual "New Zealand Seismological Reports", containing a detailed summary of all standard measurements made at stations of the N.Z. network, lists of epicentres, felt intensity data, and a brief account of the principal earthquakes of the year.
2. S-bulletins. These are mostly reprints of papers by members of the Observatory staff, but occasionally they have included material not published elsewhere, such as the Eiby-Muir near-earthquake tables, and a descriptive account of the Observatory and its work issued to conference delegates.
3. A-bulletins. These are cyclostyled sheets giving preliminary readings from Wellington and a small selection of well-distributed outstations. They are issued fortnightly to observatories and data centres needing rapid access to New Zealand readings, and are not intended to have a wide circulation.

The Observatory will be pleased to consider exchange agreements for any of this material. Stations requesting the A-series normally receive S- and E-series as well, and those requesting the E-series also receive the S-series. This arrangement facilitates mailing procedures.



### EDWARD ARTHUR

## LIST OF MAPS

(in pocket inside back cover)

1. Epicentres of Earthquakes in 1968 having focal depths of less than 40 km.
2. Epicentres of Earthquakes in 1968 having focal depths of 40 km or more.
3. Isoseismals of the Earthquakes of 1968 Sep 25 and Nov 7 (Epicentres 68/671 and 68/743).

**Note:**

Isoseismals for the Inangahua earthquake of 1968 May 23 (Epicentre 68/269) appear in Bulletin E-147 of this series.

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MAP I

A. R. Shearer, Government Printer, Wellington, New Zealand

175° W 176° 177° 178°

