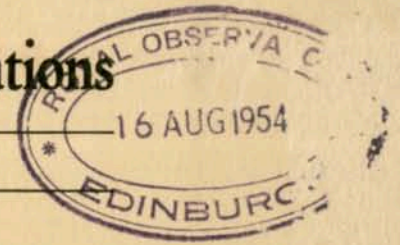


Bulletin of the Seismographic Stations

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BERKELEY—MOUNT HAMILTON—PALO ALTO
SAN FRANCISCO—FERNDALE—FRESNO
MINERAL—ARCATA—RENO

Earthquakes and the Registration of Earthquakes

From January 1, 1952, to March 31, 1952

BY

CHARLES HERRICK

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
1954

SEISMOGRAPHIC STATIONS OF THE UNIVERSITY OF CALIFORNIA

Perry Byerly, Director

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

and

REGISTRATION OF EARTHQUAKES AT: BERKELEY, MOUNT HAMILTON,
PALO ALTO, SAN FRANCISCO, FERNDALE, FRESNO, MINERAL, ARCATA,
AND RENO FROM JANUARY 1, 1952 TO MARCH 31, 1952

VOLUME 22 NUMBER 1

By Charles Herrick

SEISMOGRAMS READ BY:

Carolyn H. Pendery

John E. Meeker

Charles Herrick

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EARTHQUAKE INTENSITY SCALE

Intensities are given by Roman numerals in the list of California, Nevada, and Oregon earthquakes on the following page, when sufficient information on the effects of the shock is available. Criteria of the Modified Mercalli Scale which are used to rate the intensity are:

Intensity

- II Felt by a few people only. Duration or direction not appreciable.
- III Duration or direction appreciable.
- IV Rattling of doors and windows; swinging of suspended objects.
- V Disturbance of movable objects; plaster cracked.
- VI Overthrow of movable objects; cracking of chimneys and other brickwork.
- VII Fall of some chimneys; some damage to buildings.

EARTHQUAKE MAGNITUDE SCALE

Richter magnitudes given in the list of epicenters on the next page are found from the Wood Anderson amplitudes, using the nomogram given by Nordquist, "Bulletin of the Seismological Society of America", 32:164.

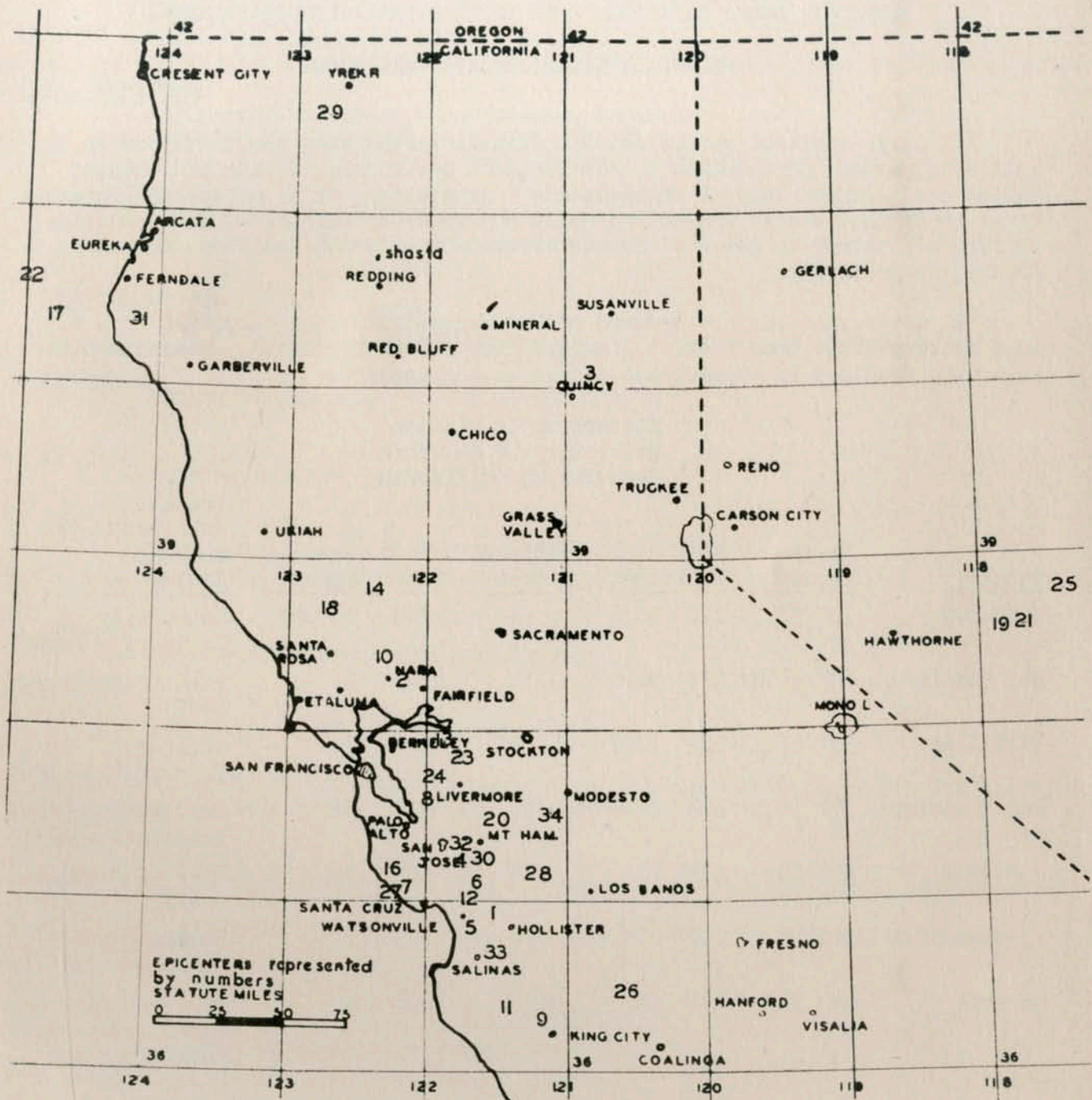
Latitude and Longitude are given for most epicenters in the following list. Only those earthquakes are given for which epicenters were located. The letter represents the excellence with which the epicenter has been located, a indicating excellent, b good, c fair, d poor.

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Times are given in Greenwich Civil Time. Subtract 8 hours to get local (Pacific Standard) time.

Map No.	Date 1952	Origin Time	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
1	Jan. 1	21-45-02	3.3	36° 57'	121° 29'	c	Near Gilroy.
2	3	00-00-02	2.0	38° 18'	122° 13'	c	Between Vacaville and Napa.
3	10	11-30-19	3.3	40° 05'	120° 47'	c	Near Genesee.
4	11	01-58-45	1.2	37° 15'	121° 45'	c	Southeast of San Jose.
5	11	11-12-28	3.4	36° 52'	121° 40'	b	Near Watsonville.
6	19	23-10-30	3.0	37° 05'	121° 39'	b	Near Gilroy.
7	21	16-40-36	2.5	37° 02'	122° 07'	b	Near Santa Cruz.
8	26	23-10-54	2.5	37° 37'	121° 59'	a	Near Niles.
9	30	11-05-33	2.7	36° 18'	121° 08'	c	Near King City.
10	31	14-24-12	2.0	38° 27'	122° 20'	c	North of Napa.
11	31	21-33-12	3.6	36.4°	121.4°	c	Southeast of Soledad.
12	Feb. 3	03-02-36	2.3	37° 02'	121° 40'	b	West of Gilroy.
13	5	00-12-51	1.9	37° 57'	121° 53'	b	Between Concord and Brentwood.
14	7	12-25-40	2.7	38° 50'	122° 23'	b	Between Middletown and Rumsey.
15	8	04-07-37	4.0	40.0°	125.0°	d	Under ocean off Petrolia.
16	8	20-11-01	2.2	37° 12'	122° 14'	b	West of Los Gatos.
17	9	11-24-17	3	40.4°	123.8°	c	Near Bridgeville.
18	9	18-48-12	2.4	38.7°	122.7°	d	Near Geyserville.
19	10	16-53-19	3	38.6°	117.8°	d	East of Luning, Nevada.
20	10	21-35-11	2.1	37° 29'	121° 32'	b	Northeast of Mt. Hamilton.
21	13	11-52-58	3.9	38.6°	117.6°	d	East of Luning, Nevada.

Map No.	Date 1952	Origin Time	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
16	Feb. 15	22-15-03	2.5	37° 12'	122° 14'	b	Northwest of Port Ano Nuevo.
22	19	06-41-25	3.8	40.6°	125.0°	d	Under ocean off Ferndale.
23	22	12-38-55	2.8	37° 53'	121° 45'	a	Near Brentwood.
24	26	23-25-08	2.0	37° 45'	121° 59'	c	East of Hayward.
25	Mar. 7	01-00-42	4	38.8°	117.4°	d	Shoshon Mountains, Nevada.
26	8	21-11-30	2.9	36° 39'	120° 36'	c	West of Tranquility.
27	14	00-53-55	-	37° 07'	122° 12'	b	North of Davenport.
28	15	14-39-30	1.9	37° 12'	121° 12'	b	Southeast of Mt. Hamilton.
28	15	15-27-34	2.0	37° 09'	121° 16'	b	Northwest of Gilroy.
29	16	10-05-15	4.3	41° 35'	123° 45'	c	Between Klamath and Clear Creek.
30	17	18-37-03	2.4	37° 15'	121° 38'	c	10 km. south of Mt. Hamilton. Aftershocks at 18-42-52 and 19-05-30.
16	18	18-45-24	2.2	37° 13'	122° 15'	b	Northeast of Point Ano Nuevo.
31	23	10-46-03	3.2	40° 25'	124° 08'	c	South of Scotia.
32	25	02-53-53	2	37° 22'	121° 45'	c	Southeast of Mt. Hamilton.
33	29	23-14-52	2.5	36° 42'	121° 35'	c	10 miles south of Hollister.
34	31	01-27-45	2.4	37° 29'	121° 51'	b	20 miles northeast of Mt. Hamilton. Fore-shock magnitude 2 at 01-28-15.



MAP SHOWING EPICENTERS, JANUARY 1 TO MARCH 31, 1952

THE REGISTRATION OF EARTHQUAKES

at

BERKELEY, MOUNT HAMILTON, PALO ALTO, SAN FRANCISCO, FERNDALE,

FRESNO, MINERAL, ARCATA, AND RENO

All large regional shocks and all distant earthquakes are tabulated on the following pages. Earthquakes in the Northern California, Nevada and Oregon region are included only if of magnitude 5 or greater, or if of special interest. Times of distant shocks are not normally included for Palo Alto, San Francisco, or Ferndale except in cases of defective records at Mount Hamilton, Berkeley, or Arcata, respectively.

All determinations are reduced to Greenwich Civil Time (G.C.T.). G.C.T. is 8 hours greater than Pacific Standard Time (120th Meridian). Communications regarding readings of seismograms should be addressed to:

Seismographic Station
University of California
Berkeley 4, California.

Station	North Latitude	West Longitude	Altitude Meters	Feet	Station Symbol	Present Auspices and Date Established
Berkeley	37° 52.3'	122° 15.6'	81	266	B, BG*	University of California - 1887
Mt. Hamilton	37° 20.4'	121° 38.6'	1281.7	4205	MH	Lick Observatory - 1887
Palo Alto	37° 25.1'	122° 10.8'	83	272	PA	Stanford University - 1927
San Francisco	37° 46.4'	122° 27.2'	100	328	SF	University of San Francisco - 1931
Ferndale	40° 34'	124° 16'	17	55	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 21'	121° 35'	1495	4906	M	National Park Service, Lassen Volcanic National Park - 1938
Arcata	40° 52.6'	124° 04.5'	60	195	A	Humboldt State College - 1948
Reno	39° 32.3'	119° 48.8'	1386	4546	R	University of Nevada - 1948

*B denotes readings of short period instruments, BG of long period instruments (12 sec. Galitzin-Wilip).

STATION EQUIPMENT

Berkeley:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff,
- 3 - Long-period Galitzin-Wilip.
- 2 - Horizontal-component 100 kg. Bosch-Omori.

Mt. Hamilton:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Palo Alto:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

San Francisco:

- 2 - Horizontal-component Wood-Anderson torsion.

Ferndale:

- 2 - Horizontal-component 25 kg. Bosch-Omori.

Fresno:

- 3 - Components short-period Sprengnether.

Mineral:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Arcata:

- 3 - Components short-period Sprengnether.

Reno:

- 3 - Components short-period Sprengnether.

Readings from the Oregon State Seismographic Station are sent to the University of California by the courtesy of Dr. H. R. Vinyard.

Station	North Latitude	West Longitude	Station Symbol	Present auspices and date established:
Corvallis	44° 35'	123° 18'	C	Oregon State College and University of California - 1950

Station Equipment

- 2 - short-period horizontal-component Slichter.
- 1 - short-period vertical-component Slichter.

For all stations, the three components are indicated by N, E, Z. When no letter appears, the phase is read from the vertical component only.

"c" or "d" following a recorded phase indicates compression or dilatation of the ground as indicated by the vertical component instrument. N, S, E or W following a recorded phase indicates that the ground motion was in that direction, e.g., W ground motion was west.

Station Equipment - continued

"i" (impetus) preceding a phase designates sudden beginning of the motion;
 "e" (emersio) designates gradual beginning.

Maximum amplitude of earth displacement in microns and period in seconds of the indicated phases are given for the Berkeley station in the columns headed A and T. Combined horizontal amplitude of N and E components are designated by H.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
Jan. 1	MH	iP	05 08 04.8	d	USCGS: 13°S, 172°W, 0 = 04 56 58.	
		e	15.5			
		e	28.0			
		e	44.0			
	F	eP	11.0	d		
	M	iP	18.5	d		
		e	28.2	c		
		i	33.4	c		
	1	R	ePEZ	21.7		
		B	eP	07 12 44.0		c
BG		eSN	19 27.5			
		eRN	25.3			
MH	eP	12 35.0				
	e	54.5				
1	F	eP	13 04.0			
		e	12 27.9	c		
	M	e	13 10.5			
		ePEZ	12 51.2			
B	eP	15 27 23.0	c	USCGS: Bonin Islands Region, 0 = 15 15 20.		
	MH	iP	23.6		c	
i		30.8	d			
	i	45.2	c			
F	eP	33.0	d			
M	iP	19.7	c			
	eP	28.3	d			
1	B	iP	21 41 10.7		d	USCGS: Central Chile, h = 100 km, 0 = 21 28 38.
		ipP	35.5			
MH	iP	05.4				
	epP	30.0	c			
	e	47.0	c			
R	iP	11.1	d			
	epP	35.8				
2	M	eP	05 52 02.5	d	USCGS: 58°N, 157°W, 0 = 05 46 00.	
3	MH	iP	02 39 34.3	d	USCGS: About 200 miles southwest of Costa Rica, 0 = 02 31 30.	
		i	40.1	c		
3	M	iP	46.7	d		
		i	40 07.0			
3	MH	iP	39 34.9	d		
		eP	04 04 57.0			
3	F	eP	05 02.0			
		eP	07.5			
3	B	eP	12			
		e(S)	06 27 20			
3	BG	eLE	59.3			
		e(PP)	21 25			
3	B	eP	10 11 20	c	USCGS: 16°N, 99°W, 0 = 10 05 05, Berkeley Magnitude 5-1/2 to 5-3/4 Pasadena Magnitude 6-1/2	
		e(pP)	29.0			
		e(PP)	12 18.0			
		i(PcP)	14 26.5			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Jan. 4	BG	eSNE eQNE eRZ	10 16 32 19.5 21.9		
		A T			
		PZ	1 5		
		MaxH	20 20		
	MH	eP	11 13.7	c	
		i(PP)	12 22.2		
		i(PcP)	14 25.0		
	F	eP	11 02.5		
		e(PP)	12 11.5		
	M	iP	11 31.7		
		i	12 08.6		
	A	e(P)	11 48.0		
	R	iP	19.6		
		e(PP)N	12 10.2		
		eSNZ	20 48.4		
4	B	iP	06 00 24.0	d	USCGS: 22°S, 169½°E, 0 = 05 47 31.
		i	36.4	d	
		e	01 45.5		
		e	03 27.8		
		A T			
		PZ	1 2½		
		MaxH	7 17		
	MH	eP	06 00 23.6	c	
		i	36.7	d	
	F	eP	28.0	d	
	M	iP	30.3	d	
		i	43.0		
		i	01 29.3		
	A	eP	24.0		
4	B	iP	21 56 04.9	c	USCGS: Tonga Island Region, 0 = 21 44 15.
	MH	iP	05.5	c	
	F	eP	09.0	d	
	M	i(P)	15.4	c	
6	M	eP	04 08 09		USCGS: Near Kenai Peninsula, Alaska, 0 = 04 02 35
6	M	eP	22 57 58.5		
	R	eP	58 03.0		
7	M	eP	03 24 27.6		
	R	eP	31.1		
7	M	eP	13 00 14.0		
	R	eP	59 56.5		
9	B	e(P)	23 00 58.2		USCGS: Near Coast of Sonora, Mexico, 0 = 22 56 20.
	R	e	22 59 21.5		
10	M	iP	21 35 14.1	d	USCGS: 18½°S, 180°, 0 = 21 24 03.
		i	21.5	d	
		i	26.8	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Jan. 10	B	iP	23 23 07.3	c	USCGS: 20°S, 169½°E, 0 = 23 10 22.
		e	58.8	d	
	F	eP	12.3	d	
	M	eP	14.5	d	
	R	eP	19.2	c	
11	BG	eLEZ	00 41.8		USCGS: About 400 miles East of New Hebrides, 0 = 00 05 45.
	F	eP	17 55.0	d	
	M	i	18 00.4	d	
	R	e	06.0		
11	B	iP	04 14 00.7	d	USCGS: 7°S, 145½°E, 0 = 04 00 35.
		e	41.7		
		eP	17 52.5		
	MH	eP	14 04.0		
	F	iP	08.9	d	
		eP	18 04.9	c	
		e(PKS)	20 46.0		
	M	iP	14 03.3	d	
		iP	17 56.6	d	
	R	eP	14 10.0	d	
		ePPE	18 07.5		
		eSEZ	24 31.5		
11	F	e(P)	07 13 59.0		USCGS: 45°N, 149°E, h = 100 km, 0 = 07 03 00.
	R	e(P)			
12	B	iP	20 18 27.9	c	USCGS: 53°N, 167°W, 0 = 20 11 28, Pasadena Magnitude 6½.
		e	35.7		
	BG	iSNEZ	23 59		
		iSSNE	26 27		
	F	eP	18 46.5	d	
	M	iP	17.5		
		e	19 52.5		
	A	eP	18 04.5	c	
	C	eP	17 45		
13	B	iP	04 17 02.0	d	USCGS: 22°N, 124½°E, 0 = 04 03 37.
		i	07.3		
		e	18 03.5		
	BG	eSNE	28 01		
		eNE	34.2		
		eQNE	41.2		
		eRNEZ	46		
	F	eP	17 13.5	c	
	M	iP	16 54.3	d	
		i	17 04.3	c	
		i	40.3	c	
		e	20 01		
		i	41.2	c	
	R	eP	17 01.5	c	
	C	eP	16 41		
13	R	e(P)	07 16 44.5	c	USCGS: New Britain Island Region, 0 = 07 06 57.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Jan. 14	R	eP	00 08 36.5	c	USCGS: Near East Coast of Kamchatka, O = 00 00 20.
		e	47.5		
15	R	eP	07 10 51.5	c	USCGS: 4°S, 81°W, O = 07 00 53.
		e	12 41.0		
18	B	eP	10 23 42		USCGS: Pacific Ocean about 1300 miles North of Easter Island,
	BG	eLN	37.1		O = 10 14 58.
	M	eP	23 49.8	c	
	R	eP	41.0		
18	M	iP	11 49 19.4	d	USCGS: Near Coast of Guatamala, O = 11 42 05.
	R	eP	07.0		
18	B	iP	12 52 58.4	d	USCGS: 1/3°S, 92°W, O = 12 44 18.
		i	53 06.3	d	
	F	eP	40.0	d	
	M	eP	53 08.2	c	
		i	24.0		
	A	e(P)	21.0	c	
	R	eP	52 57.5	c	
19	B	iP	07 22 21.0	c	USCGS: 52 1/2°N, 166°W, O = 07 15 38.
	BG	eSE	27 50.0		
		eQN	30 17.0		
	F	eP	22 39.5	c	
	M	eP	11.4	d	
		e	24		
	R	eP	25.5	d	
		e	28 23		
		e	32 47		
19	F	eP	21 19 06.0		USCGS: About 800 miles Southwest of Azores, North Atlantic Ocean, O = 21 08 37.
	M	iP	09.6	c	
	R	eP	56.1	c	
19	F	eP	23 22 43.5	c	USCGS: 31 1/2°N, 41°W, O = 23 12 12.
	R	eP	43.3	c	
21	B	eP	03 49 46.2		USCGS: 53°N, 166 1/2°W, h = 60 km, O = 03 43 04. Berkeley Magnitude 6.3, Pasadena Magnitude 6-3/4.
	BG	iSE	55 14.5		
		eQNE	57.6		
		A T	7.9 11		
		SH			
	F	eP	50 04.5	c	
	M	iP	49 44.6	c	
22	B	iP	15 54 05.1	d	USCGS: Kermadec Islands, O = 15 41 27.
	F	eP	08.4	c	
	M	iP	14.6	d	
	R	eP	17.2	c	
23	B	iP	03 42 50.5	c	USCGS: Northern Kansu Province, O = 03 29 30.
	F	eP	59.0	c	
		e	46 04.0	c	
		e(PP)	55.5	c	
	M	iP	42 41.3	c	
		i	56.8	c	
		i	43 38.5	d	
		i(PP)	46 25.2	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Jan. 23	R	eP	42 48.5	c	
		e	43 45.5	c	
		e(PP)E	46 29.5		
		eN	46.0		
	C	e(P)	42 27		
23	M	iP	11 10 33.2	d	
		i	41.6	d	
24	BG	eSE	09 26 41		USCGS: 53°N, 166 1/2°W, O = 09 14 08.
		eN	29.0		
		eRNZ	32		
	F	eP	21 21.5	d	
	M	iP	20 42.3	c	
		i	59.6	c	
		i	21 06.3	c	
		i	28.4	d	
	R	eP	13.5		
26	B	eP	04 58 39.7	c	USCGS: Near Adak, Aleutian Islands, O = 04 50 50.
		i	49.5	d	
		i	57.8	c	
	MH	iP	46.4	d	
		i	58.2	d	
	F	eP	58.0	c	
	M	iP	30.9	c	
		i	36.3	d	
	R	eP	44.0	d	
26	B	eP	13 59 34.3		
	F	eP	23.0		
	M	eP	28.7		
	R	e(P)	46.5		
27	M	eP	09 29 05.6	d	USCGS: North Central China, O = 09 15 48.
28	MH	iP	06 36 36.0	c	USCGS: About 700 miles North of Azores, Atlantic Ocean, O = 06 25 51.
		i	42.2	d	
	M	eP	20.8	d	
		l	25.9	c	
	R	eP	19.5	c	
29	F	eP	11 26 47.1	d	
		e	27 41.5	c	
29	MH	i(P)	22 13 53.2	d	USCGS: Off Coast of Guerrero, Mexico, O = 22 08 10.
		i	14 06.7		
	F	e(P)	12 37.5		
		eEZ	13 38.5		
29	B	eP	23 47 23.0		USCGS: 43 1/2°N, 127°W, O = 23 45 45.
	MH	iP	34		
	F	e(P)	56		
	M	i(P)	05.2		
	C	eP	46 32		
30	B	eP	07 12 58.5	c	USCGS: 44 1/2°N, 149°E, O = 07 02 20.
	F	eP	13 12.1	d	
	PA	eP	00.0	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Jan. 30	M	eP	07 12 51.7	d	USCGS: New Hebrides Island Region, 0 = 10 13 40.
30	PA	eP	10 26 48.2	c	
31	B	iP	08 32 45.3	c	USCGS: 22°S, 179°E, 0 = 08 20 26.
	MH	iP	44.8	c	
	F	iP	48.8	c	
	M	iP	53.7	c	
	R	eP	57.7	c	
31	B	iP	20 23 26.5	c	USCGS: 15½°N, 93½°W, h = 60 km, 0 = 20 16 43.
		ePP	43.0		
		i	55.3	c	
		iPcP	26 05.6		
		eSN	28 45		
	BG	iScSN	33 33.0		
		eN	34 20		
		e	38.0		
	PA	eP	23 23.5	d	
		epP	52.5	d	
		ePcP	26 24.0	d	
	F	eP	23 05.3		
		epPNZ	25		
		eNE	30 44		
		eSE	33 33		
M	iP	23 34.0	d		
	ipP	59.7	d		
	i	25 09.1	c		
	iPcP	26 29.6			
A	eP	24 01.0			
	ipP	19.5			
R	eP	23 21.0			
	epP	41.0			
	eSN	33 43.5			
31	PA	eP	21 14 51.5	c	USCGS: 4°S, 30½°E, 0 = 20 55 12.
	F	eP	40.4	d	
	M	eP	34.6	d	
	R	eP	36.0		
Feb. 2	B	iP	10 27 49.3	d	USCGS: 51½°N, 179°W, h = 100 km, 0 = 10 20 06.
		i(pP)	58.7	d	
		i	28 06.1	c	
		eN	38.1		
	PA	iP	27 52.8	d	
		i	57.9	d	
	F	eP	28 07.3		
		e(PP)NZ	29 22.8		
	M	iP	27 41.0	d	
		i	48.3	d	
	R	eP	54.7	d	
		e	26 06.5	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 2	F	eP	23 12 27.3	d	USCGS: 11°S, 165°E, h = 100 km, 0 = 22 59 45.
	M	eP	27.2	d	
	R	e	13 16.5		
3	MH	eP	19 45 19.6	d	USCGS: Southern Gulf of California, 0 = 19 09 30.
		i	40.0	c	
4	B	e(P)	19 13 28		
	BG	eLNE	17.0		
	MH	iP	13 18.9	c	
		e	25.2	c	
		i	41.2	c	
	F	eP	00.7	d	
		e	16 02.0		
		eSNE	30		
		eN	17 11.5		
	M	eP	13 48.0	c	
		e	51.3	d	
		i	14 05.1	c	
	R	ePN	13 20.0		
5	MH	e(P)	00 38 06.4	c	USCGS: Kermadec Islands, 0 = 00 25 27.
	F	e(P)	09.1	c	
	M	eP	09.6	d	
		i	16.0	c	
	R	e(P)	23.5	c	
5	MH	eP	05 14 34.4	d	USCGS: Near North Coast of Mindanao, Philippine Islands, 0 = 16 50 44.
	M	eP	44.9	c	
5	MH	eP	17 04 52.3	d	
	M	eP	48.0		
	R	eP	55.5		
5	M	iP	17 33 09.9	d	USCGS: Kansu Province, China, 0 = 05 27 10.
		i	15.2		
6	MH	iP	05 40 40.0	d	
	M	eP	28.4		
6	MH	iP	07 07 16.3	c	USCGS: Kermadec Islands, 0 = 06 54 45.
	F	ePEZ	20.5	c	
		e(PP)	10 08.5	c	
	R	eP	07 24.5	c	
		e(PP)E	10 47.5		
6	MH	iP	09 40 46.6	c	USCGS: 13°N, 88°W, h = 100 km, 0 = 16 38 49.
	M	iP	40.5	c	
6	MH	eP	16 45 58.5	c	
		e	46 12.5		
	M	e(P)	14.3	d	
8	MH	eP	10 46 46.7	c	USCGS: Kermadec Islands Region, 0 = 07 35 01.
	M	iP	55.4	d	
9	MH	iP	07 47 52.4	d	
		i	48 05.6	c	
	M	eP	47 51.8	c	
		e	48 14.3		
	R	eP	02.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 10	MH	iP	05 22 18.7	c	USCGS: Tonga Islands, 0 = 05 10 40.
	M	eP	40.5	d	
	R	e	48		
10	B	e(P)	06 20 37.5	d	USCGS: 72½°N, 2°E, 0 = 06 10 05.
	MH	iP	16.2	c	
	F	e(P)	41.6		
	M	eP	20.7	d	
	R	eP	24.5	c	
10	MH	eP	16 21 01.9	d	USCGS: Kermadec Islands, 0 = 16 08 30.
	F	e	22 06.5		
	M	iP	21 11.5	c	
11	MH	iP	03 49 31.8		
	F	e(P)	50 33.0		
11	B	iP'	07 18 52.3	d	USCGS: 6°S, 110°E, h = 700 km, 0 = 07 01 04, Pasadena Magnitude 7.
		i	19 09.5		
		e	20 16.5		
		i(sP' 2)	29.0		
		ipP' 2)	21 24.0		
		e	22 04.5		
		ipPP	23 16.8		
	BG	iE	24 54.5		
	B	i	28 48.7		
	BG	eE	29 23		
		eE	32 31		
		eE	36 51		
	MH	iP'	18 53.6	d	
		i	19 48.5		
		e	20 19		
		isP' 2	42.9		
		e	22 46.4		
		i	28 45.0		
		i	32 14.1		
	F	eP'	18 56.4	d	
		e	19 37.0		
		esP' 2	20 51.0		
		e	23 07.5		
		eN	26 19.5		
		e	28 38.5		
		eE	32 29.0		
	M	iP'	18 50.5	d	
		i	20 35.0		
		ippP'	21 18.3		
		e	22 48.5		
		i	28 47.0		
		e	32 38.0		
	R	eP'EZ	18 54.5	d	
		i	19 20.5	c	
		eN	20 23.5		
		epP'EZ	21 23.0		
		eNE	23 14.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 11	R	eN	26 25.0		
		eN	28 50.5		
		e	31 55.0		
		eN	32 45.0		
	MH	iP	02 08 38.9	c	USCGS: 9°S, 74°W, 0 = 01 58 02.
	R	eP	40.5		
12	MH	iP	05 51 37.0	c	USCGS: 8°S, 156½°E, 0 = 05 38 41.
	F	eP	42.2	c	
	M	iP	38.7	d	
	R	eP	46.0	c	
		eNE	52 02.0		
12	F	eP	10 23 46.5	c	USCGS: Solomon Islands, 0 = 10 10 50.
	M	eP	43.7	d	
	R	eP	50.5	d	
12	MH	iP	20 28 34.0	c	USCGS: Bismark Sea, h = 100 km, 0 = 20 15 30.
		i	43.5	c	
	F	eP	39.2	d	
	M	iP	34.2	d	
	R	eP	40.5	d	
12	MH	iP	20 30 05.1	c	USCGS: Eastern New Guinea, 0 = 20 16 30.
	F	eP	08.0	c	
	M	iP	03.4	d	
	R	e(P)	10.5	d	
13	M	iP	22 26 04.9	d	USCGS: Southern Alaska, 0 = 22 20 10.
		e	19.3		
14	B	eP	03 52 56.0	c	USCGS: 8°S, 125°E, 0 = 03 38 06, Pasadena Magnitude 7¼.
		e	55 31		
		eP'NE	56 21		
		e	56		
		ePPNEZ	56 27.5		
		eEZ	58 13.5		
		e	04 02 11		
	BG	e(SKS)	03 31		
		iSN	05 16		
	MH	iP	03 53 02.1		
		eP'	56 23.5		
		ePP	57 34.5		
	F	eP	53 10.5	d	
		eP'	56 36.0	c	
		ePP	57 45.0		
	M	eP	53 00.7	d	
		eP'	56 22.2		
		ePP	57 34.2		
	A	e	55 40.5		
		ePP	57 19.5		
	R	eP	53 16.5		
		eP'	56 12		
		e(P)	57 42.5		
14	B	iP	21 11 45.6	d	USCGS: 7½°N, 76½°W, 0 = 21 02 35, Pasadena Magnitude 6-3/4.
		ippP'	13 33.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 14	BG	eSN	21 19.3		
		eN	28.1		
		eLNE	30.5		
	MH	eP	11 40.2	d	
		iPP	32.4	c	
	F	eP	26.5	d	
		e(PP)	14 01.5		
	M	eP	11 48.5	d	
		iPP	13 48.6		
	A	e(P)	12 02.5		
	R	eP	11 37.3	c	
		eSN	19 49.5		
16	MH	eP	07 31 36.2	c	USCGS: Near Coast of Oaxaca, Mexico, O = 07 25 15.
	F	eP	14.0	c	
		eSE	35 58.5		
	M	eP	31 59.6	c	
	R	e(P)	41.5		
16	MH	iP	17 41 54.6	c	USCGS: Kermadec Islands Region, O = 17 29 11.
	F	eP	58.0	c	
	M	e(P)	42 03.5		
17	B	e	17 33 14.5	c	USCGS: Southern Gulf of California, O = 17 28 40.
	MH	eP	32 39.6	c	
		i	33 08.5		
	F	e(P)	32 47.5		
	R	e(P)	33 18.0		
17	B	iP	17 40 21.2	c	USCGS: Southern Gulf of California, O = 17 35 45.
		eSE	44 04.0		
	MH	iP	40 13.0	d	
	F	eP	39 55.0	c	
	M	eP	40 37.4	c	
	R	eP	22.5	c	
18	MH	iP	00 44 36.3	c	USCGS: Samoa Island Region, O = 00 33 25.
	F	eP	40.9	c	
	M	iP	45.7	c	
18	MH	iP	07 35 00.9	c	
	M	eP	34 55.0	c	
20	B	eP	09 21 07.4	d	USCGS: 16°S, 74°W, h = 150 km, O = 19 10 06.
		e	19.5		
		epP	36.5		
	MH	iP	03.2	d	
		e	15.5		
		ipP	33.1	d	
	F	eP	20 51.5	d	
	M	iP	21 13.1	d	
		e	24.5		
		i	43.5	c	
		i	22 10.8		
	R	eP	21 06.1	d	
21	B	eP	23 49 05.2	c	USCGS: 23½°N, 109°W, O = 23 44 49, Berkeley Magnitude 5½.
		e	18.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 21					
	BG	e	23 49 34.0		
		iSNE	52 42.5		
		eLNE	53.5		
		eNE	53 57.5		
	MH	eP	48 57.4	d	
		i	49 13.6		
	F	eP	48 38.0	c	
	M	eNE	49 29.3		
	R	eP	08.5	d	
22	MH	iP	11 45 33.8	c	USCGS: 61½°N, 151°W, O = 11 39 20.
	R	eP	05.5		
22	B	iP	11 54 55.9	c	USCGS: 11½°S, 166°E, O = 11 42 28.
	BG	eLNE	12 22.1		
	MH	eP	11 54 58.4	c	
	F	eP	55 03.5	c	
	R	eP	08.0	c	
23	BG	eE	01 01.5		
	MH	eP	00 39 26.2		
	F	eP	30.5		
	M	eP	38.1		
	R	eP	42.3		
23	R	e(P)	21 46 42.0		USCGS: 29°N, 43°W, O = 21 35 15.
24	M	eP	06 49 08.3		USCGS: 56°N, 154°W, O = 06 43 30.
	R	e(P)	23.0		
24	F	e	12 44 41.0		USCGS: Near Coast of Northern Sinaloa, Mexico, O = 12 39 55.
	M	e(P)	44 09.5		
	R	eP	43 58.0		
24	B	eP	23 07 53.3	d	USCGS: 17½°N, 144½°E, h = 200 km, O = 22 55 52.
		e	08 10.5		
		ePP	28.0	c	
	MH	iP	07 57.4	c	
		i	10.2	d	
		epP	32.0	c	
		i	52.3	c	
	F	e(P)	08 06.0		
	M	iP	07 52.1	d	
		ipP	08 28.3		
	R	eP	08 01.1	d	
		epP	31.5		
		eSE	17 09.0		
25	B	iP	01 28 32.3	c	USCGS: 17°S, 173½°W, O = 01 17 00.
		e	50		
	BG	eNZ	33 46.0		
		iSNEZ	38 00.0		
		e(ScS)E	38 44.5		
		eSSNE	42 37		
		eLN	47 22		
		eRNEZ	49 41		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 25	MH	eP	01 28 32.9	c	
		i	34.9		
		i	46.1		
		i	30 14.5		
	F	eP	28 38.0	c	
		eSN	38 07.0		
	M	eP	28 43.1		
		i	45.2	d	
		i	29 16.2		
	R	eP	28 47.0		
		eSN	38 25		
	C	iP	28 54		
		iS	38 40		
		eL	52 08		
25	B	eP	02 07 03.0	d	USCGS: 17°S, 173½°W, 0 = 01 55 33.
	MH	eP	04.9	c	
	F	eP	09.5	c	
	M	iP	15.4	d	
	R	eP	19.0	c	
25	B	iP	02 14 43.3	d	USCGS: 11°S, 165½°E, 0 = 02 02 16.
	MH	iP	45.0	d	
	F	eP	50.0	c	
	M	iP	49.2	d	
	R	eP	55.0	d	
25	MH	eP	04 22 47.2	d	
	F	eP	51.5	d	
	M	iP	57.6	c	
	R	eP	23 01.0	d	
25	M	eP	14 17 18.7	c	
25	M	eP	17 12 55.9	d	
25	B	eP	18 52 52.5		USCGS: Near Coast of Honshu, Japan, 0 = 18 41 08.
	MH	iP	54.7	c	
	F	e(P)	53 05		
	M	iP	52 46.4	d	
26	B	eP	11 23 44.0	d	
	MH	eP	45.6	d	
	M	iP	38.7	c	
	R	eP	34.0	d	
26	B	iP	11 41 58.9	c	USCGS: 14½°S, 70°W, h = 300 km, 0 = 11 31 04, Berkeley Magnitude 7¼, Pasadena Magnitude 7½.
		ipP	42 57.9	c	
		i	43 01.6	c	
		eSNE	50 57.5		
		eP'P'	12 09 33		
		e	12 55.5		
		e	13 04.6		
	BG	eP	11 41 59.5	c	
		ipPNEZ	42 56.9	c	
		ePPE	44 34		
		ePPPEZ	46 08		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 26	BG	iSNEZ	11 50 59.0		
		A T			
		SH	36 10		
	MH	iP	41 55.4	c	
		i	26.1	c	
		i	57.7	c	
		e	47 08		
		eSNEZ	50 51.0		
		i	59.1		
		eP'P'	12 09 49.6		
		e	13 02		
	F	iP	11 41 44.3	c	
		i	42 07.0	d	
		ipPN	52.8		
		e	50 26.5		
		iSE	30.2		
		eNE	51 39.5		
		eP'P'	12 09 50.5		
		e	12 59.5		
	M	iP	11 42 04.2	c	
		e	12 09 19.2		
		e	52.5		
		e	12 54.4		
		i	58.9		
	R	eP	11 41 56.3	c	
		e	42 12.0		
		eEZ	50 49		
		eSNZ	54.0		
		eP'P'	12 09 45.0		
		e	12 54.0		
		e	13 05.5		
	C	iP	11 42 26		
		i(S)	51 50		
26	B	iP	15 47 08.3	d	USCGS: 11½°N, 86½°W, h = 100 km, 0 = 15 39 23. Pasadena Magnitude 6.
		i	14.9	d	
		i	19.3	c	
		e	51		
		ePcP	49 04.2		
	BG	eSNE	53 34		
		eScSNE	57 16		
		eE	59.2		
		e	16 02.4		
	MH	eP	15 46 55.0		
		i	47 03.5		
		e	49 11		
	F	eP	46 48.0	d	
		e	52 41.5		
		eE	48.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Feb. 26	F	eScSNEZ	15 56 58.5		
		e	16 04.1		
	M	iP	15 47 13.4	d	
		ePcP	48 59.0	d	
		i	49 49.7	d	
	R	eP	47 01.4	c	
26	F	eP	16 27 09.5	d	
	BG	eLE	21 45.9		USCGS: 12 $\frac{1}{2}$ °S, 166°E, 0 = 21 06 49.
	MH	eP	19 28.2	c	
	F	eP	47.0		
	M	e	46.4		
	R	eP	35.9	c	
27	MH	eP	06 15 00.9		San Salvador iP 06 07 42
	M	e	28.5		iS 50
	R	e	34.0		
27	B	iP	17 04 58.2	c	USCGS: 60°N, 155°W, 0 = 16 58 29.
	MH	iP	05 01.7	c	
	F	eP	14.5	c	
	M	iP	04 39.7	d	
	R	eP	48.0	c	
27	M	eP	00 39 15.2		USCGS: About 200 miles North of
	R	eP	26.5		Hokkaido, Japan, 0 = 00 28 38.
28	MH	eP	00 54 00.7	c	
	F	eP	13.0	d	
		e	58 01.0	c	
	M	eP	54 00.4	c	
	R	eP	53 56.5	c	
28	F	e(P)	18 56 50.8	c	USCGS: Near Southeast Coast of
	M	eP	55 23.2	d	Kamchatka, 0 = 18 46 10.
	R	eP	38.0		
Mar. 1	B	eP	15 42 11		USCGS: Near East Coast of Hokkaido,
	MH	eP	06.7	c	Japan, 0 = 15 31 02.
	F	e	42.5		
	M	i	16.7		
	R	eP	10.0	c	
1	M	iP	21 08 12.5	c	
1	M	eP	04 22 39.7	c	USCGS: Azores Islands, 0 = 04 16 22.
2	B	eP	19 00 43.2	d	USCGS: 11°N, 86 $\frac{1}{2}$ °W, h = 100 km,
		i	44.9		0 = 18 52 56.
		e	01 01.1		
		ePP	02 38.5		
		i	48.8		
	BG	eN	11 04		
		eN	13.2		
	MH	iP	00 37.6	d	
		i	39.5	d	
		i	50.3	d	
		iPP	02 36.5	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 2	MH	i	19 03 27.1	d	
	F	eP	00 25.0	c	
		e(pP)N	48.0		
		e	11 00.0		
	M	iP	00 50.1	c	
		i	51.9	c	
		i	59.6		
		iPP	02 42.6		
	R	eP	00 36.5	c	
		e	40.5	c	
3	B	eP	07 24 36.6	d	USCGS: 21 $\frac{1}{2}$ °S, 174 $\frac{1}{2}$ °W, 0 = 07 12 39.
		i	49.2		
	BG	eN	26 53		
		eSNE	34 23		
		eSSNE	39 18		
		eLNE	44.2		
		eNE	45 23		
	MH	eP	24 34.5	d	
		i	43.4	c	
	F	eP	38.5	d	
		e	49.0		
	M	eP	43.1	c	
		e	56.9	c	
	R	eP	49.0	d	
3	B	iP	17 49 53.3	d	USCGS: 11°N, 86 $\frac{1}{2}$ °W, h = 100 km,
		iPcP	51 49.8	d	0 = 17 42 07.
	MH	iP	49 47.6	d	
		i	56.5		
		iPcP	51 47.2		
	M	eP	49 59		
		e	50 09.0		
		e	21.0		
		e	51 53.0	c	
	R	eP	49 50.0	c	
		e	57.5		
4	B	iP	01 33 55.3	d	USCGS: 42 $\frac{1}{2}$ °N, 143 $\frac{1}{2}$ °E. 0 = 01 22 41,
		i(pP)	34 16.0		Berkeley Magnitude 8, Pasadena
		eSNZ	43 06		Magnitude 8 $\frac{1}{4}$.
		eGN	50.9		
	MH	eP	33 58.0	d	
		i	34 05.0	c	
		i	13.3	d	
		i(pP)	21.0		
		eS	43.2		
	F	e(P)	34 02.4	c	
		e	11.0	d	
		i	30.1	c	
		i	35 40.6	c	
		eSNE	43 32.5		
		eEZ	37.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 4	M	eP	01 33 39.1		
		i	45.4		
		i	52.9		
	R	eP	49.5	d	
		e	57.5		
		e	34 03.3		
		iEZ	17.5		
		iNE	22.2		
		iN	41.7		
		eSEZ	43 02.0		
		iE	14.5		
		iEZ	19.5		
		iN	52.5		
	C	iP	33 25		
		eS	42 21		
		eL	50 44		
4	B	eP	01 51 08.0		
	MH	eP	10.6		
	M	iP	50 47.8		
	R	eP	51 00		
4	F	e(P)	02 51 07.5		USCGS: Hokkaido, Japan, Aftershock, O = 02 39 42.
	M	eP	50 40.6		
	R	eP	50.5		
4	M	iP	03 19 14.5	d	USCGS: 42°N, 145°E, O = 03 08 20.
	A	eP	24.5		
4	B	eP	04 04 29.6	d	USCGS: 43°N, 146°E, O = 03 53 36.
		i	39.6	c	
	MH	iP	34.8	c	
		i	45.1	c	
	M	iP	23.2	c	
		i	34.0	c	
	R	eP	34.0	d	
4	B	eP	04 22 15.0		USCGS: Hokkaido, Japan Aftershock, O = 04 11 09.
	MH	iP	18.9	d	
	F	eP	26.5		
	M	eP	07.0	d	
	R	eP	17.5		
4	MH	eP	07 22 24.7	c	
	F	eP	26.5	d	
	M	iP	20.9	c	
	R	eP	24.5	d	
4	M	iP	09 55 18.5	d	
4	M	iP	14 01 00.4	d	
4	M	iP	14 15 33.2	c	
		i	41.7	c	
		i	44.0	c	
4	R	eP	16 41 48.5		USCGS: 43°N, 146°E, O = 16 31 00.
	B	eP	50 55		
	BG	eSNE	59.1		
		eNZ			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 4	MH	iP	57.8	c	
	F	eP	42 06.5	c	
	M	iP	46.3	c	
	R	eP	57.0	c	
4	M	eP	17 28 48.7	d	USCGS: 42½°N, 144°E, O = 17 17 57.
	R	e(P)	58.0	d	
4	MH	iP	18 37 16.2	c	USCGS: 42°N, 144°E, O = 18 26 27.
	F	e(P)	44.5		
	M	eP	18.4	d	
	R	e(P)	39.5		
4	B	iP	19 43 08.4	c	USCGS: 10°S, 161½°E, O = 19 30 28, Pasadena Magnitude 6-3/4.
		i	15.8	c	
	BG	eSKSNE	53 37.0		
	MH	iP	43 10.4	c	
		i	17.7	c	
	F	iP	16.2	c	
		i	26.0		
		e	44 09.0		
		e	55.5		
	M	iP	43 14.2	c	
		i	21.2	c	
	R	iP	10.3	c	
		i	28.2	c	
	C	e(P)	19		
4	B	iP	20 07 12.8	d	USCGS: 42°N, 146°E, O = 19 56 10.
	BG	eSNEZ	16 08		
		eLNE	24 53		
	MH	iP	07 17.6	d	
		i	10 08.5		
	F	iP	07 27.5		
	M	iP	05.3	d	
	R	eP	16.0	c	
		eS	16 15.5		
	C	eP	06 49		
4	F	eP	20 55 12.5	d	USCGS: off East Coast of Hokkaido, Japan, O = 20 43 51
	M	eP	54 46.8	d	
	R	eP	56.5	c	
4	B	eP	21 00 13.6	c	USCGS: Hokkaido Japan Aftershock, O = 20 49 20.
		i	23.0	c	
	MH	eP	18.5	d	
		e	26.1	d	
	F	eP	30.0	c	
	M	iP	07.3	d	
		i	15.6	c	
	R	eP	17.5	c	
4	MH	iP	20 03 10.7	c	USCGS: 43°N, 145½°E, O = 22 51 57.
	M	eP	02 47.4	d	
		e	54.9	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 5	MH	iP	01 31 23.5	c	USCGS: 43°N, 145½°E, 0 = 01 20 21.
	M	iP	06.1	d	
	R	eP	17.0	c	
5	B	i(P)	04 00 03.2	d	USCGS: 42°N, 146°E, 0 = 03 49 03.
	BG	eSNE	08 58		
		eLN	17.4		
	MH	i(P)	00 08.4	c	
	F	e(P)	17.5	d	
	M	eP	03 59 54.5	c	
		i	04 00 00.1	d	
	R	e(P)	05.0	c	
5	MH	iP	05 48 39.5	d	USCGS: 42°N, 145½°E, 0 = 05 37 33.
	M	eP	24.7	c	
	R	eP	35.5	c	
5	B	eP	09 28 03.7		USCGS: 43°N, 145½°E, 0 = 09 17 08.
	BG	eSNE	36 08		
	MH	eP	28 09.1		
	M	eP	27 56.6	d	
	R	eP	28 07.5	d	
5	MH	e(P)	09 33 16.2		USCGS: 42½°N, 145½°E, 0 = 09 22 15.
	F	e(P)	25.0		
	M	eP	04.4		
	R	e(P)	14.5		
5	B	i(P)	11 01 34.7	d	USCGS: 43°N, 145½°E, 0 = 10 50 52.
	MH	eP	24.0	d	
	M	eP	41.5		
		i	49.8		
	R	eP	25.0	c	
5	MH	i(P)	11 30 13.6	c	
	M	iP	29 52.1	d	
		i	30 02.3	c	
	R	e(P)	03.0	d	
5	B	iP	15 50 23.0	d	USCGS: 24½°N, 108½°W, 0 = 15 46 08, Pasadena Magnitude 5-3/4 to 6.
	BG	iSNZ	53 57.5		
		eRZ	55.7		
	MH	ePNZ	50 14.2	d	
		eS	53 38		
	F	iP	49 56.9	d	
	R	eP	50 25.0	d	
5	B	iP	16 05 14.8	d	USCGS: 43°N, 145½°E, 0 = 15 54 18.
	MH	eP	18.7	d	
	F	eP	28.5	d	
	R	eP	18.0		
5	MH	eP	18 08 43.5		
	M	eP	30.4		
	R	eP	42.5		
5	B	iP	22 57 21.5		USCGS: 43°N, 145°E, 0 = 22 46 09.
	MH	eP	25.6		
	F	iP	34.9		
	R	eP	10.5		
6	M	iP	18 07 48.8	d	USCGS: 42½°N, 145½°E, 0 = 17 56 59.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 6	R	eP	18 07 58.0	d	
7	MH	iP	04 03 37.7	c	USCGS: 42½°N, 145°E, 0 = 03 52 29.
	M	iP	18.3	c	
		i	27.1		
	R	e(P)	30.0	c	
7	B	iP	07 44 31.0	c	USCGS: 36°N, 136½°E, 0 = 07 32 38, Pasadena Magnitude 6½.
	BG	e(SKS)N	54 32		
		eGNE	08 04.9		
	MH	iP	07 44 35.0	c	
	F	eP	44.0	d	
	M	iP	25.1	c	
	R	eP	34.5	c	
7	MH	iP	11 55 33.5	c	USCGS: 43°N, 145°E, 0 = 11 44 32.
	M	iP	24.1	d	
	R	eP	33.0	d	
7	B	eP	18 27 03.5	c	USCGS: 43°N, 146°E, 0 = 18 16 02.
	MH	eP	26 59.4	d	
	M	eP	47.1	d	
	R	eP	59.5	c	
7	MH	eP	18 30 00.7	d	
	M	iP	13.2	c	
7	B	eP	19 54 50.3		USCGS: 43°N, 146°E, 0 = 19 43 58.
	MH	eP	55.2		
	M	eP	43.4		
	R	eP	54.3		
8	MH	iP	07 39 16.2		USCGS: About 300 Miles N. E. of Guam, 0 = 07 27 03.
	F	eP	24.0		
9	MH	iP	16 47 20.9	d	USCGS: Near South Coast of Kamchatka, 0 = 16 37 30.
	F	eP	31.0		
	M	iP	06.8	d	
	R	eP	18.0	c	
9	B	iP	17 14 51.4	c	USCGS: 42°N, 143½°E, 0 = 17 03 43, Pasadena Magnitude 7.
		i(pP)	15 03.4	d	
		i	12.9		
	BG	iSEZ	23 54		
		iSSSN	31 44		
		eIZ	35.4		
	M	eP	14 44.0	c	
	R	eP	54.8	c	
		e(pP)EZ	15 07.0		
		eSEZ	23 55		
		eNEZ	24 01.5		
	F	eE	15 22		
	C	eP	14 24		
		epP	35		
		iS	23 02		
		eL	30 15		
9	MH	eP	22 06 16.4	c	USCGS: Northern Chile - Argentine Border Region, h = 200 km, 0 = 21 54 30.
	M	eP	26.7	c	
	R	eP	19.5	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 10	B	iP	18 12 11.3	c	USCGS: 42 $\frac{1}{2}$ °N, 144 $\frac{1}{2}$ °E, 0 = 18 00 55.
	MH	eP	04.0	d	
	M	eP	11 50.8	c	
	R		12 01.5	c	
11	F	e(P)	20 48 45.5	c	USCGS: 42°N, 145°E, 0 = 20 37 20.
	M	iP	17.5	d	
	R	eP	22.0	c	
12	M	iP	12 23 09.9	c	USCGS: 64°N, 22°W, 0 = 12 13 10.
	R	eP	06.5	c	
13	B	iP	14 09 55.7	c	USCGS: 28 $\frac{1}{2}$ °N, 127°E, h = 200 km, 0 = 13 57 26.
		i	10 32.8		
		epP	11 02.3		
	F	eP	10 04		
		epP	11 13.5		
	M	iP	09 49.9	d	
		epP	10 57.0		
	R	eP	09 57.5	c	
		epP	11 06.3		
13	M	iP	19 02 31.1		
	R	e(P)	39.5		
13	B	eP	21 44 36.0	d	Hawaiian Islands.
		iT	22 20 09.6		
	MH	iP	21 44 38.7	c	
		eT	22 20 09.6		
	F	eP	21 44 49.5		
	M	eP	47.9	d	
		iT	22 20 36.3		
	R	eP	21 44 57.5	c	
14	C	eP	15 00.7		USCGS: 48.7°N, 123.1°W, 0 = 14 59 37.
16	MH	iP	09 54 17.0	c	
	R	eP	20.2	d	
16	F	e(P)	22 20 48.5	d	USCGS: 42 $\frac{1}{2}$ °N, 144°E, 0 = 22 09 23.
	M	eP	19.3		
	R	e(P)	37		
18	MH	iP	01 14 11.2	c	Near South Coast of Hawaii.
		iT	48 58.4		
18	MH	eP	04 04 29.9	d	USCGS: 19°N, 155 $\frac{1}{2}$ °W, 0 = 03 57 35.
		eT	39 55		
	F	eP	04 40.5		
	M	iP	31.3	d	
		iT	40 08.5		
	R	eP	04 51.0	c	
18	B	ip	11 08 51.5	c	USCGS: 12°S, 168°E, 0 = 10 56 27.
		i(pP)	09 59.4		
	MH	iP	08 52.8	c	
		i(pP)	09 59.1	d	
	F	iP	08 58.3		
	M	iP	57.6	c	

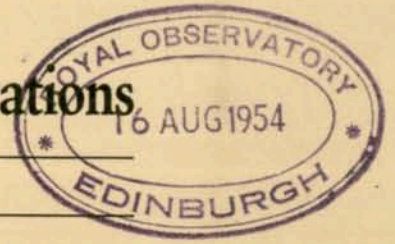
Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 18	M	i(pP)	11 10 05.7	d	
	A	eP	08 51.5	c	
	R	iP	09 03.0	c	
18	MH	eP	23 08 45.3	d	South Coast of Hawaii.
		iT	42 46.5		
	M	iP	09 05.4	c	
	R	eP	06.0	c	
19	MH	eP	00 24 40.0	d	South Coast of Hawaii.
		iT	01 00 09.8		
	R	e(P)	24 59.5	c	
19	MH	eP	01 39 40.9	c	USCGS: 40°N, 29°E, 0 = 01 27 23.
	M	i(P)	40 12.1	d	
		i	51.3	c	
	R	eP	39 33.5	d	
19	MH	eP	05 52 01.5	c	USCGS: About 500 miles West of Easter Island, 0 = 05 42 42.
	M	i(P)	29.0		
19	MH	iP	29 16 34.6	c	USCGS: 41°N, 125°E, 0 = 09 04 18.
	M	eP	22.8	c	
	R	e	17 17.0	c	
19	B	eP	11 10 58.0	d	USCGS: 9 $\frac{1}{2}$ °N, 127°E, 0 = 10 57 09, Pasadena Magnitude 7 $\frac{1}{2}$ - 7-3/4.
		ePP	14 12		
	MH	iP	11 01.4		
		i	08.0		
		ePP	14 04		
		eSKS	20 24		
		eSE	21 32		
	F	eP	11 08.0	c	
		ePP	14 04		
		e	15 23.0		
		e	17 02.0		
	M	eP	10 49.5		
		ePP	14 03		
	R	eP	11 02.5	c	
		ePP	14 05.5		
		e	15 06.5		
		eS	21 45		
	Fe	ePE	11 00		
		ePPE	14 12		
	C	eP	10 52		
		ePP	14 00		
19	MH	eP	13 01 29.7		USCGS: Near South Coast of Hawaii, 0 = 12 54 35.
		iT	36 55.0		
19	MH	i(P)	23 17 43.3		USCGS: Near Coast of Oaxaca, Mexico, 0 = 23 11 20.
	M	i(P)	18 21.1		
	R	eP	17 37.3		
20	BG	e(S)N	01 56 56		USCGS: Near South Coast of Hawaii, 0 = 01 41 14.
	MH	iP	48 09.7		
		iT	02 23 41.0		
	F	eP	01 48 21.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 20	M	eP	01 48 14.9		
		iT	02 24 12.7		
	R	e(P)	01 48 52.5		
20	MH	eP	10 47 31.0		Near South Coast of Hawaii.
		iT	11 23 29.4		
20	MH	iP	11 28 51.0		USCGS: Near South Coast of Hawaii, O = 11 21 57.
		eT	12 04 21.5		
	M	eP	11 29 02.1		
	R	eP	10.5		
20	BG	eSN	20 06.9		USCGS: Near South Coast of Hawaii, O = 19 51 08.
	MH	iP	19 58 05.0		
		eT	20 33 38.2		
	F	eP	19 58 12		
	R	e(P)	23		
20	B	iP	23 51 35.3	c	USCGS: 11°S, 165°E, h = 60 km, O = 23 39 08.
		ipP	42.2	c	
	BG	eSE	00 01 42		
		eSSN	06 57		
		eLN	13 17		
	MH	iP	23 51 34.9	c	
	F	eP	30.5	c	
	M	eP	38	c	
		epP	48.0		
	R	eP	44.0		
21	M	eP	02 32 50.1		
21	MH	iP	06 18 06.8		Near South Coast of Hawaii.
		eT	53 19		
21	MH	eP	06 22 57.0		Near South Coast of Hawaii.
		eT	58 15.5		
21	MH	iP	07 02 13.6		Near South Coast of Hawaii.
		eT	36 42.0		
21	MH	eP	09 56 06.5		Near South Coast of Hawaii.
		eT	10 30 52.0		
21	MH	iP	10 30 35.6		Near South Coast of Hawaii.
		eT	11 05 35.0		
21	M	eP	11 53 38.2		
21	MH	eP	13 23 03.3	c	
	M	e(P)	21.2		
	R	e(P)	11.5		
21	MH	iP	14 41 20.0		Near South Coast of Hawaii.
		iT	15 17 13.7		
21	MH	iP	15 20 09.5	d	USCGS: 11°S, 165°E, h = 60 km, O = 15 07 44.
	F	eP	15.5	d	
	M	eP	15.1		
	R	e(P)	20.0	d	
21	MH	eP	15 27 43.5		
	M	iP	56.8		
21	B	eP	16 23 02.0	d	USCGS: 11°S, 165°E, h = 60 km, O = 16 10 38.
		ipP	10.0	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 21	BG	ePPPE	16 28 35		
		eSN	33 16		
		eScSE	56		
		eSSNE	38.8		
		eQN	44 26		
		eRNEZ	48.3		
	MH	eP	23 03.9	d	
	F	eP	09.0	d	
		epP	16.5	d	
	M	eP	08.0	c	
		ipP	16.4	c	
	R	eP	14.1	d	
22	MH	eP	00 31 56.8	d	Near South Coast of Hawaii.
		iT	01 07 55.0		
22	MH	eP	12 11 44.7		Near South Coast of Hawaii.
		eT	47 19		
	M	iP	11 54.2		
	R	e(P)	12 14.5		
22	B	i(P)	18 23 05.1	d	USCGS: 52°N, 173°W, O = 18 15 43, Pasadena Magnitude $6\frac{1}{4}$ - $6\frac{1}{2}$.
		ipP	16.1		
	BG	ePcPN	24 54		
		eSNE	28 57		
		eLNE	31 56		
	MH	eP	23 08		
		i	11.5	d	
		ipP	23.3		
	F	e(P)	22.0		
		epP	34.0		
	M	eP	22 53.6	c	
		i	56.5		
		ipP	23 08.2		
	A	eP	22 40.0		
		epP	53.0		
		eS	28 36.5		
	R	e(P)	23 09.0		
		epP	21.5		
		eS	28 50		
23	MH	eP	07 31 23.9		
	M	e(P)	28.6		
23	B	eP	07 34 49.0		
	MH	iP	49.8		
	M	iP	53.8		
	R	e(P)EZ	59.5		
23	MH	e(P)	09 09 05.3	c	USCGS: Andreanof Islands, Aleutian Islands, O = 09 01 26.
	M	iP	08 35.9	c	
	R	e(P)	50.0	c	
23	MH	eP	10 00 36.4		Near South Coast of Hawaii.
		iT	35 48.7		
	M	eT	36 14.9		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Mar. 23	MH	eP	13 24 37.7	d	USCGS: Santa Cruz Islands,
	M	eP	43.2	d	0 = 13 12 10.
23	B	eP	13 25 48.9	d	USCGS: 11°S, 165°E, h = 60 km,
	BG	eLNEZ	54.3		0 = 13 13 25.
	MH	iP	25 50.8	d	
		i	26 18.7		
	F	eP	25 56.0	d	
	M	iP	54.6	d	
		e	26 28.1		
	R	e(P)	01.5	d	
23	M	eP	15 35 41.6		USCGS: Near Samar, Philippine Islands,
	R	e	39 47.0		0 = 15 21 50.
23	MH	eP	16 58 14.8		Near South Coast of Hawaii.
		iT	17 33 55.5		
	M	iP	16 58 25.8		
24	MH	eP	10 07 13.2		USCGS: Central Ecuador, 0 = 09 57 24.
25	B	i(P)	04 19 27.6	c	USCGS: 16½°S, 176°W, h = 250 km,
		ipP	20 27.1		0 = 04 08 26.
	BG	eSE	28 44		
	MH	iP	19 28.9	d	
		ipP	20 28.7		
	F	eP	19 33.7	d	
		epP	20 32.0		
		eS	28 46.5		
	M	eP	19 38.2	d	
		epP	20 37.0		
	R	eP	19 43.1	d	
		epP	20 40.8		
25	B	eP	09 42 51.0	c	USCGS: 5½°S, 150°E, 0 = 09 29 42.
	BG	eGN	10 11.9		
	MH	eP	09 42 54.2	c	
	F	eP	43 00.5	c	
	M	eP	42 53.8	c	
	R	eP	43 02.1	c	
25	MH	iP	17 10 39.6		Near South Coast of Hawaii.
		eT	45 58.5		
25	B	eP	19 23 35.0	d	USCGS: Near South Coast of Hawaii,
		iT	59 12.3		0 = 19 16 42.
	MH	eP	23 37.9	d	
		eT	59 07.7		
	M	iP	23 39.4	d	
	R	e(P)	59.5	c	
26	M	eP	03 51 07.8	d	USCGS: 5½°N, 83°W, 0 = 03 42 45.
28	MH	iP	06 03 42.2	c	
	M	iP	38.4	c	
		e(PP)	06 53.4		
28	MH	eP	08 50 16.2		Near South Coast of Hawaii.
		eT	09 25 49.0		
	M	eP	08 50 27.5		
28	M	eP	10 22 35.7	d	
31	M	eP	06 36 00.1		

Bulletin of the Seismographic Stations



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BERKELEY—MOUNT HAMILTON—PALO ALTO
SAN FRANCISCO—FERNDALE—FRESNO
MINERAL—ARCATA—RENO

Earthquakes and the Registration of Earthquakes

From April 1, 1952, to June 30, 1952

BY
CHARLES HERRICK

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
1954

SEISMOGRAPHIC STATIONS OF THE UNIVERSITY OF CALIFORNIA

Perry Byerly, Director

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

and

REGISTRATION OF EARTHQUAKES AT: BERKELEY, MOUNT HAMILTON,
PALO ALTO, SAN FRANCISCO, FERNDALE, FRESNO, MINERAL, ARCATA
AND RENO FROM APRIL 1, 1952 TO JUNE 30, 1952

VOLUME 22 NUMBER 2

By Charles Herrick

SEISMOGRAMS READ BY:

Carolyn H. Pendery

John E. Meeker

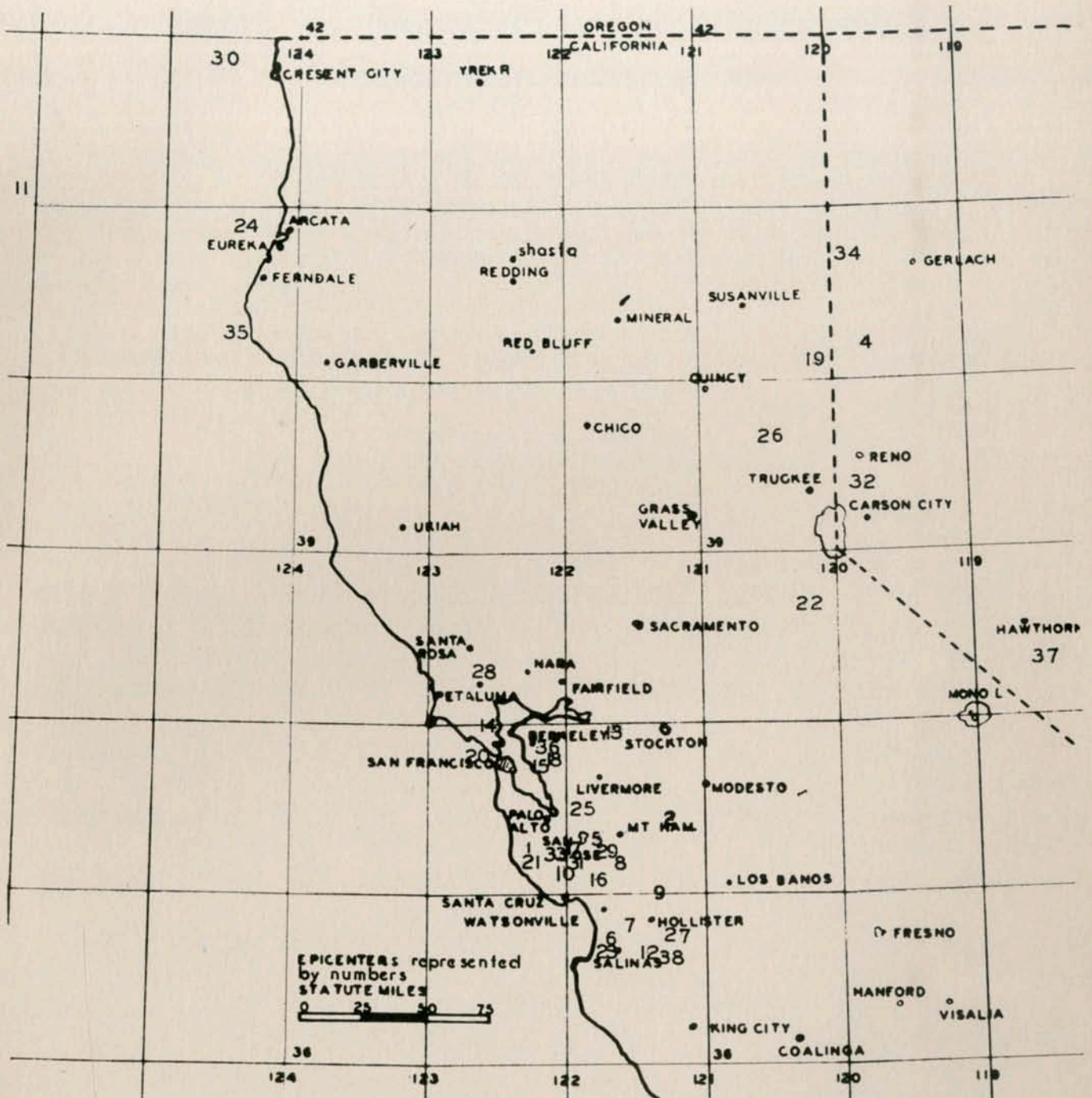
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BERKELEY AND LOS ANGELES

1954

<u>Map No.</u>	<u>Date 1952</u>	<u>Origin Time</u>	<u>Richter Magnitude</u>	<u>Latitude North</u>	<u>Longitude West</u>	<u>Quality</u>	<u>Remarks</u>
22	Apr. 25	06-25-40-	3.2	38.7°	120.2°	d	20 miles southeast of Pacific, Eldorado County
5	25	11-22-14	2.1	37° 21'	121° 44'	a	14 miles west of Mt. Hamilton.
10	25	11-47-26	1.5	37° 12'	122° 03'	c	5 miles southwest of Los Gatos.
23	27	01-30-04	2.7	36° 42'	121° 42'	c	Near Salinas.
24	28	00-48-43	3	40° 55'	124° 25'	c	20 miles west of Arcata.
10	28	02-15-31	2.2	37° 12'	122° 00'	b	Near Los Gatos.
25	28	03-01-30	3.1	37° 30'	121° 55'	b	7 miles south of Niles. Aftershock magnitude 2.0 @ 03-03-01.
26	30	04-58-15	3.5	39.7°	120.5°	d	Near Calpine
27	May 5	10-43-23	2.8	36° 48'	121° 12'	c	6 miles east of Tres Pinos.
28	5	13-01-49	3.1	38.3°	122.9°	d	12 miles east of Potter Valley.
29	5	23-07-36	1.7	37° 17'	121° 46'	b	10 miles southeast of Mt. Hamilton.
30	6	17-21-10	4.7	41.9°	124.6°	d	25 miles west of Klamath.
31	8	08-21-07	1.5	37° 12'	121° 56'	b	5 miles southeast of Los Gatos.
10	8	09-16-37	1.5	37° 11'	122° 04'	b	5 miles southwest of Los Gatos.
32	9	15-31-32	5.1	39° 25'	119° 47'	c	12 miles south of Reno.
33	11	17-57-50	2.6	37° 16'	122° 02'	b	5 miles northwest of Los Gatos. Aftershock magnitude 2.3 at 18-13-50.
34	13	19-17-26	3.4	39° 45'	119° 51'	c	12 miles north of Reno.
35	17	14-02-39	3.7	40.3°	124.4°	d	6 miles west of Petrolia.
36	18	10-52-58	2.2	37° 53'	122° 12'	a	5 miles northeast of Berkeley.
22	22	18-07-39	3.5	38° 40'	120° 16'	c	14 miles southeast of Pacific, Eldorado County.
14	23	17-40-46	1.4	38° 01'	122° 29'	c	4 miles northeast of San Rafael
8	28	07-00-50	2.0	37° 12'	121° 35'	b	Depth about 10 km., 10 miles south of Mt. Hamilton.



MAP SHOWING EPICENTERS, APRIL 1 TO JUNE 30, 1952

THE REGISTRATION OF EARTHQUAKES

at

 BERKELEY, MOUNT HAMILTON, PALO ALTO, SAN FRANCISCO, FERNDALE,
 FRESNO, MINERAL, ARCATA, AND RENO

All large regional shocks and all distant earthquakes are tabulated on the following pages. Earthquakes in the Northern California, Nevada and Oregon region are included only if of magnitude 5 or greater, or if of special interest. Times of distant shocks are not normally included for Palo Alto, San Francisco, or Ferndale except in cases of defective records at Mount Hamilton, Berkeley, or Arcata, respectively.

All determinations are reduced to Greenwich Civil Time (G.C.T.). G.C.T. is 8 hours greater than Pacific Standard Time (120th Meridian). Communications regarding readings of seismograms should be addressed to:

Seismographic Station
 University of California
 Berkeley 4, California.

<u>Station</u>	<u>North Latitude</u>	<u>West Longitude</u>	<u>Altitude Meters</u>	<u>Feet</u>	<u>Station Symbol</u>	<u>Present Auspices and Date Established</u>
Berkeley	37° 52.3'	122° 15.6'	81	266	B, BG*	University of California - 1887
Mt. Hamilton	37° 20.4'	121° 38.6'	1281.7	4205	MH	Lick Observatory - 1887
Palo Alto	37° 25.1'	122° 10.8'	83	272	PA	Stanford University - 1927
San Francisco	37° 46.4'	122° 27.2'	100	328	SF	University of San Francisco - 1931
Ferndale	40° 34'	124° 16'	17	55	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 21'	121° 35'	1495	4906	M	National Park Service, Lassen Volcanic National Park - 1938
Arcata	40° 52.6'	124° 04.5'	60	195	A	Humboldt State College - 1948
Reno	39° 32.3'	119° 48.8'	1386	4546	R	University of Nevada - 1948

*B denotes readings of short period instruments, BG of long period instruments (12 sec. Galitzin-Wilip).

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Station Equipment - continued

"i" (impetus) preceding a phase designates sudden beginning of the motion;
"e" (emersio) designates gradual beginning.

Maximum amplitude of earth displacement in microns and period in seconds of the indicated phases are given for the Berkeley station in the columns headed A and T. Combined horizontal amplitude of N and E components are designated by H.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	BG	iSE	10 10.0		
		iN	16 17.0		
		eNE	18.2		
	MH	iP	02 32.1	c	
		epP	41.5	c	
		iPcP	03 44.1	c	
	F	iPE	02 38.5		
	M	iP	17.9	c	
		ipP	29.6	c	
		i	03 16.3		
	R	eP	02 29.6	c	
		epP	41.1		
		ePcPE	03 11.0		
		iSNEZ	10 14.5		
		eScSN	12 12.5		
4	M	eP	08 02 44.6	c	USCGS: 23 1/2°N, 121°E O = 07-49-25
		e	03 38.3	d	
	R	epP	02 52.5	c	
		e	03 26.5	d	
4	MH	iP	16 19 35.9	c	
		i	41.4		
4	MH	iP	17 32 11.7	c	
	F	eP	14.0		
	R	eP	19.5	c	
5	MH	eP	03 17 29.6	c	USCGS: 38°S, 180° O = 03-04-33
	F	eP	32.2	c	
	M	eP	38.5	c	
	R	eP	41.0	c	
5	MH	eP	05 10 09.9	c	
	F	eP	12.2		
	M	e(P)	18.4	c	
	R	e(P)	19.5		
5	B	eP	08 45 09.6	d	USCGS: 15 1/2°S, 177 1/2°E O = 08-33-12
		i	11.6	c	
	BG	eNE	09 10.2		
	MH	iP	08 45 11.9	d	
	F	eP	17.1	d	
		e	46 24.6		
		e	47 47.4		
	M	iP	45 19.8	d	
	A	eP	14.0	d	
	R	eP	23.5	d	
5	MH	eP	12 31 18.1		
	M	eP	28.9		
	R	eP	18.5		
6	MH	eP	07 10 26.7	c	USCGS: Near South Coast of Hawaii O = 07-03-35
		eT	45 58.0		
	F	eP	10 36.8		
	M	eP	37.7		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	34 04.5		
		e	39 33		
	F	iP	33 36.0	c	
		eNZ	38 46.0		
	M	eP	33 53.5		
		e	39 57.0		
	R	eP	33 39.0		
		eNZ	49.5		
		eE	35 51.0		
		eN	37 54.0		
		eE	38 52.0		
		eNZ	59		
10	B	eP	06 10 25.1	d	USCGS: 25°N, 126°E
		e	39.5		0 = 05-57-20
		ePP	14 00.0		
	BG	eSNE	21 25.0		
	MH	eP	10 28.9	d	
		e	36.0		
		ePP	14 16.5		
	F	eP	10 34.5		
	M	eP	21.0		
		e	28.0		
		ePP	13 50		
	R	eP	10 29.0		
10	B	eP	07 10 57.0	c	USCGS: About 200 miles South of
	MH	eP	57.4	c	Fiji Islands
	F	eP	11 00.5	c	0 = 06-58-43
	M	iP	11 07.0	c	
12	B	eP	02 59 06.1	c	USCGS: Andreanof Islands
		epP	22.5		Aleutian Islands, h = 60 km.
	MH	iP	11.7		0 = 02-51-13
		ipP	27.8	d	
	F	eP	24.0		
		epP	40.5		
	M	iP	58 56.9	c	
		ePP	59 13.0		
	R	eP	59 10.2	c	
		epP	26.2		
	B	eP	23 30 50.0	c	
	MH	iP	50.4	c	
	F	eP	54.0	c	
	M	iP	59.2	c	
	R	eP	31 03.3	c	
13	MH	eP	16 00 25.7	c	USCGS: About 250 miles West of
		i	31.2		Easter Island
	F	eP	18.5		0 = 15-49-50
		e	25.5		
	M	e	52.2		
	R	eP	39.6		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
April 16	M	eP	11 37 12.9		
	R	eP	25.5		
16	B	eP	14 35 49.5		
		e	36 07.5		
	MH	eP	35 47.9		
		i	36 07.1		
	M	eP	35 50.2		
16	R	e	36 05.8		
		eP	35 48.0		
		e	36 04.0		
16	B	iP	17 04 45.2		
	MH	iP	44.1	d	
16	R	eP	44.6	d	
	MH	iP	21 21 18.6		
17	M	iP	22.0		
	MH	eP	04 08 38.7		
17	F	eP	41.8		
	M	eP	30.5		
	R	eP	38.5		
	MH	eP	15 34 39.9		South Coast of Hawaii
		eT	16 10 21.5		
17	F	eP	15 34 54.0		
	M	eP	51.5		
		eT	16 10 53		
	MH	eP	21 57 21.0		
	F	e(P)	50.6		
18	M	eP	23.8		
	R	e	58 08.5		
	MH	eP	03 47 17.7		USCGS: Tonga Islands Region 0 = 03-35-20
	F	ep	26.5		
	M	eP	27.5		
18	R	eP	31.0		
	MH	iP	11 51 56.3		USCGS: Kermadec Islands 0 = 11-39-15
	F	eP	52 03.3		
	M	eP	04.1		
18	R	eP	06.0		
	B	iP	16 12 15.6		USCGS: 12°N, 140°E 0 = 15-59-10
	BG	eSN	22.9		
		eEZ	47.9		
	MH	eP	12 11.4		
18	F	eP	19.5		
	M	eP	07.5		
	R	eP	16.0		
		ePP	15 39.0		
	MH	e(P)	17 09 50.1		USCGS: Kurile Islands 0 = 16-59-28
19	F	e(P)	48.0		
	M	iP	30.4		
	R	e	55.0		
	B	eP	10 08 19.0	c	USCGS: 7°N, 71 1/2°W h = 60 km., 0 = 09-58-53 Pasadena Magnitude 6 3/4 to 7
	i	23.3	d		
	ipP	30.9	d		
	i	48.9	d		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
April 22	MH	eP	08 44 45.9		USCGS: 46°N, 11 1/2°W 0 = 16-54-42 1/2
	M	iP	57.1		
22	MH	iP	16 57 38.0		
		eS	17 01 04.5		
	F	eP	16 57 38.0		
		eS	17 00 43.5		
	M	eP	16 57 02.4		
		e	49.0		
	R	eS	59 53.5		
		eP	57 27.0		
		eNE	48.5		
		eE	59 16.5		
		eSEZ	28.0		
24	C	eP	56 51		
	B	iP	12 23 42.9		
	MH	iP	42.0		
	F	eP	46.6		
24	M	eP	52.6		
	R	eP	56.8		
	MH	eP	16 27 33.3		
	M	e	53.8		
25	R	e	03.5		
	MH	iP	05 16 13.8		
	F	eP	15 59.0		
	M	e	16 40.4		
25	R	e	26.5		
	B	eP	06 10 31.4	c	
		i	40.5		
	MH	iP	25.4	c	
		i	35.0	c	
	F	eP	11.0	c	
	M	eP	36.4	c	
		i	46.2	c	
	R	eP	24.7	c	
		e	35.0	c	
25	MH	e(P)	07 18 10.0		
	F	e(P)	14.5		
	M	eP	17 48.5		
25		i	59.1		
	R	e(P)	18 08.0		
	MH	eP	08 11 43.9		
	F	eP	48.5		
25	M	eP	54.4		
	R	eP	59.0		
	MH	eP	15 10 45.8		
25	F	eP	51		
	M	eP	09 50.1		
	R	eP	10 21		
26	MH	eP	02 05 45.0		
	i	51.8			
					USCGS: 8°N, 83°W 0 = 06-02-00, Pasadena Magnitude 6 1/4 - 6 1/2
					USCGS: Near East Coast of Hokkaido, Japan 0 = 07-06-50
					USCGS: Tonga Islands Region 0 = 08-00-10
					USCGS: Near Coast of Southern Kamchatka 0 = 01-56-05

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1952			h. m. s.				
April 29	B	iP	02 48 10.9	c	USCGS: 25 1/2°N, 122 1/2°E h = 250 km., 0 = 02-35-25		
	BG	eSKSEZ	58.56				
		i(SS)N	03 00 50.5				
	MH	eP	02 48 14.2	c			
	M	eP	04.8	c			
	R	eP	15.0	c			
		e	49 20.5				
	29	B	i	03 27 24.5		d	USCGS: 15°S, 144 1/2°E h = 200 km., 0 = 03-07-35
		i	35.9				
	MH	iP'	16.6	c			
	i	23.8	d				
	i	32.1					
F	eP'	16.5					
	e	22.0					
M	eP'	12.8	d				
	i	18.4	d				
	e(PP)	30 56					
29	R	eP'	27 03.8	d	USCGS: Central Chile 0 = 19-42-25		
		i	19.5	d			
		eEZ	28.5				
	MH	iP	19 55 11.3	c			
		i	23.7	c			
	F	eP	02.5	c			
		e	19.5	c			
	M	iP	21.5	d			
	R	eP	15.5	c			
	30	MH	iP	19 00 53.7		c	
May 1	B	iP	15 12 35.5	c	USCGS: Near Islands Aleutian Islands 0 = 15-04-07		
		i	13 07.8				
	MH	iP	12 41.8	c			
		i	51.1				
	F	eP	53.0	c			
		e	13 03.8				
	R	eP	12 39.8	c			
	1	B	iP	16 21 26.2		c	USCGS: 28°N, 143 1/2°W 0 = 16-10-41
		MH	iP	24.8		c	
	F	e	22 53.5				
M	iP	21 17.5	c				
R	eP	10.0					
1	MH	eP	16 44 44.1				
	M	eP	36.9	c			
	R	eP	31.5	c			
2	MH	eP	11 25 28.3		USCGS: 36°N, 140°E h = 200 km., 0 = 11-14-04		
	M	eP	18.3				
	R	e	41.0				
3	B	eP	12 25 13.0	c		USCGS: 15°S, 76 1/2°W 0 = 12-14-09	
	i	28.8					
	MH	eP	09.7	c			
	i	24.9					

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
May 7	BG	e	16 20.9		USCGS: 51°N, 131°W 0 = 16-14-36
	MH	e(P)	18 10.7		
	F	eP	24.8		
8	M	e	34.9		USCGS: 35 1/2°N, 140°E h = 60 km., 0 = 00-58-40 Pasadena Magnitude 6 1/4- 6 1/2
	R	eP	17 52.0		
	B	iP	01 10 17.8	d	
8	BG	ipP	34.5		USCGS: 2 1/2°N, 127°E 0 = 21-10-40 Pasadena Magnitude 6 1/2 - 6 3/4
		eSN	20 05.5		
		eQN	30.1		
8	MH	eREZ	33.1		USCGS: Southern Peru, 0 = 09-38-55 USCGS: 2 1/2°N, 127°E 0 = 21-10-40 Pasadena Magnitude 6 1/2 - 6 3/4
		iP	10 21.0	c	
		i	22.9		
8	F	epP	39.0		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		eP	30.5		
		epP	48.0		
8	M	iP	11.7	d	USCGS: Kermadec Islands h = 400 km., 0 = 03-29-00
		ipP	28.7		
		eP	19.0		
8	R	epPE	36.0		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
	MH	eP	08 20 40.8		
	M	eP	43.0		
8	R	eP	31.0		USCGS: Kermadec Islands h = 400 km., 0 = 03-29-00
	MH	iP	09 50 14.3		
	BG	eP	21 24 54		
8		iPP	29 10.5		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		iSKSE	35 29		
		e(SKKS)N	36 34		
8		e	38 14		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		e(SS)NE	43 49		
		e(R)E	59		
8	MH	eP	24 54.8		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		e	25 14.5		
		ePP	29 13.5		
8	M	eP	24 55.0		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		ePP	29 04.0		
		e	25 18.5		
8	R	ePP	29 16.8		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
	MH	eP	22 02 42.3		
	M	eP	35.3		
9	R	eP	52.0		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
	BG	eP	03 40 59		
		eScSN	50 39		
9		iSPN	51 59.5		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
		eN	04 01 54		
	MH	eP	03 40 44.2	c	
9		epP	42 13.0		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
	F	eP	40 47.5		
	M	eP	53.9	c	
9		epP	42 25.2		USCGS: 5 1/2°S, 145°E h = 200 km., 0 = 21-49-36
	R	eP	40 56.0		
		epP	42 40.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
May 13	BG	e(S)N	04 16 27			
		eN	18.6			
	MH	eP	03 48 39.4			
	F	eP	38.5			
	M	eP	49 01.8			
	R	eP	01.4			
	13	MH	eP	05 35 53.4		
		F	eP	36 01.0		
		M	e	08.5		
	13	B	iP	19 39 41.7	c	USCGS: 10 1/2°N, 85°W h = 100 km., 0 = 19-31-45
			ipP	50.9		
			i	40 00.6		
	BG	ePP	41 21.0			
B	iPcP	34.0				
BG	e(PcS)	45 26				
	e(S)N	46 12				
	e(sS)NEZ	25	NE & up			
	e(SS)N	49 44				
	MH	eP	39 33.8	c		
		i	36.2	c		
		ipP	45.8	c		
		i	54.6			
		eS	46 14.5			
	F	eP	39 21.2	c		
		epP	31.0			
		e(S)	45 34.0			
	M	eP	39 46.7			
	A	eP	40 03.0	c		
		e(S)	46 44.0			
	R	eP	39 35.5			
		epPNZ	44.5			
		e(S)N	45 52.0			
	C	eP	40 12			
14	B	eP	00 47 54.3		USCGS: 43°N, 145 1/2°E 0 = 00-36-59	
		i	45.4			
	BG	eSE	56.7			
		eN	01 05.6			
		eNE	08 01			
	MH	iP	00 48 00.6	c		
		i	35.1			
	F	eP	07.0			
	M	eP	47 47.2	d		
		ePP	51 21.4			
	A	eP	47 38.5			
	R	eP	58.0			
		eS	56 59.0			
14	B	iP	21 18 59.2	c	USCGS: 16 1/2°N, 86 1/2°W 0 = 21-11-36, Berkeley Magnitude 6	
		i	19 11.0	c		
	BG	iPcPEZ	20 54.0			
		iSNE	24 53.0	SE		
		eQE	26.9			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
May 16	B	eP	20 54 39.5	c	USCGS: 61 1/2°N, 79°W O = 20-45-40. Berkeley Magnitude 6 1/2, Pasadena Magnitude 5.9
		i	47.0		
	BG	iPP	56 38.0		
		ePPP	57 46		
		iSE	21 01 52		
		eScSN	04 21		
		iLN	05 42.0		
		eNE	09.8		
	MH	eP	20 54 33.5	c	
		i	34.5	c	
		i	39.1		
		i	55 00.5		
		e	33.0		
		iPcP	55.8		
	F	eP	54 21.0	c	
		eSN	21 01 17.0		
	M	iP	20 54 44.4	c	
		i	51.3	d	
		i	55 04.6		
		i	47.5		
A	eP	54 59.0	c		
R	eP	33.7	c		
	eSE	21 01 43.5			
C	iP	20 55 04			
	eS	21 02 45			
16	MH	iP	22 31 46.7		USCGS: Tonga Islands Region O = 22-19-35
	F	eP	51.5		
	M	e	56.6		
	R	e(P)	50.5		
17	MH	eP	06 09 29.6		USCGS: 4 1/2°S, 155°E O = 05-56-38
	F	eP	35.5		
	M	eP	30.3		
	R	eP	36.5		
17	MH	iP	06 32 11.7		USCGS: Sea of Okhotsk h = 500 km., O = 06-22-54
	M	eP	31 57.0		
	R	eP	32 09.5		
	B	eP	09 59 19.0	c	USCGS: 42 1/2°N, 144 1/2°E O = 09-48-16. Pasadena Magnitude 6 1/2 - 6 3/4
		i	25.0	c	
		i	41.2		
		i	10 00 08.5	c	
BG	eSNE	08 16	SW		
	eE	15.3			
	eN	16.1			
MH	eP	09 59 22.0	c		
	e	30.0			
F	eP	32.5			
M	iP	10.0	c		
A	eP	08.4	c		
R	eP	19.0			
	eSNEZ	10 08 23.5			

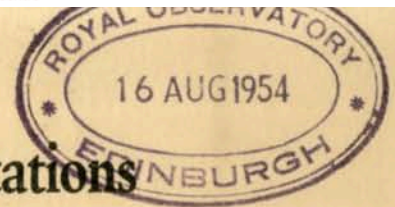
Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
May 23	B	eP	04 32 52.0	d	USCGS: 33°N, 136°E h = 60 km., O = 04-20-52	
		ipP	33 08.2	c		
	MH	iP	32 55.6	d		
		ipP	33 12.4	c		
	F	eP	03.5	d		
		epP	19.5	c		
	M	iP	32 46.5	d		
		ipP	33 00.2	d		
		i	14.8			
	R	eP	32 56.0	d		
		epP	33 12.2	c		
		e(S)N	42 58.0			
		C	eP	32 28		
	23	B	eP	15 31 27.2		c
		e	38.8	c		
MH		eP	25.9	c		
		i	37.9	c		
F		eP	23.0			
M		eP	29.4			
		e	42.5			
23	R	eP	27.5		USCGS: 18 1/2°S, 176°W h = 250 km., O = 20-24-08	
	B	eP	20 35 27.5	d		
		e(pP)	36 27.5			
	MH	eP	35 26.5	d		
		i	28.9	c		
		i	33.6			
		e(pP)	36 26.5			
		e	37 06			
		e	38 17			
	F	eP	35 32.0	d		
		i(pP)	36 31.9	c		
		e(S)N	45 01.0			
	M	eP	35 37.6			
	e(pP)	36 37.2				
23	R	eP	35 41.4		USCGS: 20°N, 156°W O = 22-12-26, Pasadena Magnitude 6	
	B	iP	22 19 19.6	c		
		i	56.0			
		i	20 07.6			
		e(PP)	50.8			
		ePcP	21 53.8			
		eT	54 29.5			
	BG	eSNE	24 51			
		eQNE	26 51			
		eN	29.9			
	MH	iP	19 21.9	c		
		i	45.4	c		
		iPP	20 36.0			
		iT	54 24.1			
	F	eP	19 31.6	c		
	ePP	20 59.0				

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
May 27	MH	iP	19 08 59.2		
	B	iP	08 10 25.9	d	USCGS: 35 1/2°N, 136°E h = 400 km, O = 07-59-09 Pasadena Magnitude 6 3/4 - 7
		ipP	11 49.8		
		iPP	13 23.6	c	
	BG	eNE	12 27		
		iSNE	19 48.0	SE	
	MH	iP	10 29.3	d	
		i	32.6	d	
		i	11 29.0		
		ipP	51.2	c	
		iPP	13 31.2	c	
		eS	19 38.7		
		e	20 02.7		
	F	eP	10 37.0	d	
		ePP	13 45.2		
		eSEZ	20 09.5		
	M	eP	10 19.5	d	
		i	20.0	d	
		i	11 28.0	d	
		iPP	13 15.9	d	
		eS	19 37		
	A	iP	10 11.6	d	
		ePP	13 22.7		
		eSNE	19 19.5		
	R	iP	10 29.6	d	
		eSNE	19 55.5		
	C	iP	10 01		
		iS	19 01		
31	MH	iP	12 03 31.0		USCGS: Loyalty Islands Region
	M	eP	37.8		O = 11-50-50
	R	e(P)	53.5		
June 1	MH	eP	10 55 45.6		USCGS: About 500 miles South of
	F	eP	49.0		Fiji Islands
	M	iP	54.6		h = 550 km., O = 10-43-59
1	MH	iP	17 04 59.8		USCGS: 16°S, 173 1/2°W
		ipP	05 25.2		h = 100 km., O = 16-53-40
	F	eP	03.4		
		epP	27.7		
	M	eP	08.4		
		ipP	33.0		
	R	eP	12.0		
		epP	36.6		
2	F	eP	05 10 58.5		USCGS: Solomon Islands
	R	eP	11 01.0		O = 04-58-02
2	MH	eP	10 26 23.9		
	M	iP	02.7		
2	MH	eP	18 24 27.4		USCGS: Off East Coast of Mindanao,
					Philippine Islands, O = 18-06-43
3	MH	eP	12 32 58.0		USCGS: 8 1/2°N, 77°W
		ipP	33 09.7		h = 60 km., O = 12-24-12
	F	eP	32 44.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
			A T		
			6 8		
	MH	SH	10 11.2	c	
	F	eP	17.0	c	
	M	eP	20.6	c	
	R	eP	25.7	c	
10	MH	eP	14 53 29.3		USCGS: 14°S, 167°E
	R	eP	35.0		0 = 14-40-58
11	B	iP	00 44 17.3	e	USCGS: 32°S, 67 1/2°W
		i	21.8	d	0 = 00-31-32
		epP	58.2		Pasadena Magnitude 7
		e	46 03.9		
	BG	ePP	47 37.0		
		eSKSE	54 37.0		
		ePS	55 56.0		
		e(sSS)	01 01 13		
		eE	09.2		
	MH	iP	00 44 13.9	c	
		ipP	57.5		
	F	iP	05.0	c	
		eNE	15.5		
		eSKSE	54 45.0		
	M	iP	44 22.7	c	
		ipP	56.3		
	A	eP	32.5	c	
	R	eP	17.4	c	
		eSKSE	54 43.5		
	C	iP	44 32		
11	B	iP	03 13 13.4		USCGS: 32°S, 67 1/2°W
	MH	eP	09.2		0 = 03-00-28
	F	eP	00.5		
	M	iP	18.8		
	A	e(P)	28.5		
	R	eP	12.5		
11	BG	eLE	10 57 57		
	MH	e	53 42.1		
	F	e	30.5		
	M	eP	52 06.7		
	R	e	53 51.5		
11	B	eP	21 47 42.0	c	
	MH	eP	38.2	c	
	F	eP	31.0	c	
	R	eP	47.5	c	
12	BG	eLNE	01 26.2		
	F	eP	20 55.0		
		eE	25 01.0		
	R	e	41.0		
13	MH	eP	07 25 08.6		
	M	iP	22.3		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	BG	eSN	29 37.0		USCGS: 21 1/2°S, 176°W
		eQNE	40.0		0 = 04-07-42
		eRE	45.0		
			A T		
		PZ	1/2 4		
		SH	2 1/3 8		
		MaxH	11 1/3 16		
	MH	eP	04 19 42.8	d	
	F	eP	46.0	d	
	M	eP	52.0	d	
	R	eP	55.5	d	
17	MH	eP	12 22 24.7	d	
	M	eP	24.3	d	
17	MH	eP	21 02 08.7		
	F	eP	12.0		
	R	e(P)	25.0		
17	MH	i(P)	22 49 47.0		USCGS: 36 1/2°N, 11°W
	F	eP	44.0		0 = 22-37-25
	M	iP	37.4		
	R	eP	35.0		
18	MH	eP	01 09 10.3		USCGS: 16 1/2°N, 61 1/2°W
	M	iP	14.5		h = 100 km., 0 = 00-59-34
19	B	iP	01 48 06.9	c	
	MH	eP	12.3	c	
	F	eP	22.0	c	
	M	iP	47 57.7	c	
	R	eP	48 09.5	c	
19	MH	iP	12 14 37.7		USCGS: Fiji Islands Region
	F	eP	42.5		0 = 12-02-53
	M	eP	46.4		
19	BG	e(P')	12 31 57.0		USCGS: 23°N, 100°E
	M	eP'	37.4		0 = 12-12-56
	R	e(P')	54.0		Pasadena Magnitude 6 1/2
19	M	iP	13 57 22.4		USCGS: Bismark Sea
					0 = 13-44-04
19	MH	eP	19 22 45.9		USCGS: 42 1/2°N, 145°E
	M	eP	41.6		0 = 19-11-42
	R	e(P)	55.0		
19	F	eP	21 08 34.0		USCGS: Tonga Islands Region
	M	eP	44.0		0 = 20-57-01
	R	eP	43.0		
20	B	eP	05 59 36.6	c	USCGS: 25 1/2°N, 122°E
		epP	58.1		0 = 05-46-20
	BG	ePP	06 03 24.5		Berkeley Magnitude 6 1/2
		eSE	10 15		Pasadena Magnitude 6 1/2
		e	25.1		
			A T		
		PZ	1.7 5		
		PP	0.8 6		
		SH	1.2 10		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1952			h. m. s.				
22	B	eP	10 32 00.6	c	USCGS: 10°S, 161°E O = 10-19-14		
	MH	eP	31 57.6	c			
	M	eP	32 02.1	c			
	R	eP	07.5	c			
		eSN	42 51.0				
	C	eP	32 02				
	22	B	eP	21 52 05.0		d	USCGS: 46°N, 153 1/2°E O = 21-41-53 Berkeley Magnitude 6 1/2 - 6 3/4 Pasadena Magnitude 7
			e	13.5			
			e	16.8			
		BG	e	56 47.0			
		eSN	22 00 14.0				
		eQNE	07.1				
		eR	09 48.0				
		A	T				
		PZ	6.2 10				
		PH	4.0 10				
22	MH	SH	4.8 12		USCGS: 46 1/2°N, 154°E O = 22-00-04		
		eP	21 52 09.8	d			
		ipP	21.5	c			
		e	41.7				
		e	53 23				
	F	eP	52 20.0	d			
		epP	32.0	c			
		eSE	22 00 45.0				
	M	eP	21 51 56.2	d			
		epP	52 09.5				
22	A	eP	51 45.0		USCGS: Tonga Islands Region O = 10-56-59		
		eSE	59 39.5				
	R	e(P)	52 07.0	d			
		eSNE	22 00 24.5				
	MH	eP	22 10 22.2	c			
		epP	30.6	d			
	F	eP	30.0	c			
		epP	41.0	d			
	M	eP	07.3	c			
	R	eP	19.0	c			
23		epP	29.2		USCGS: 24 1/2°N, 122°E O = 12-03-09 Pasadena Magnitude 5 3/4 - 6		
	B	eP	11 08 56.9	c			
	MH	eP	57.4	c			
	M	eP	09 08.1	d			
	R	eP	11.5	d			
	23	B	e(P)	12 16 28.0		c	USCGS: 14 1/2°S, 168 1/2°E O = 03-15-49
		BG	eSE	26 59			
		MH	e(P)	16 31.5			
		F	e(P)	38.0		c	
		M	eP	22.2		d	
		i	24.2	c			
R		eP	29.0	d			
		eSE	26 55.0				
24		B	ipP	03 28 17.7	c		
		BG	eSKSE	38 42			
		eQE	54.0				



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BERKELEY—MOUNT HAMILTON—PALO ALTO
SAN FRANCISCO—FERNDALE—FRESNO
MINERAL—ARCATA—RENO—SHASTA

Earthquakes and the Registration of Earthquakes

From July 1, 1952, to September 30, 1952

BY
CHARLES HERRICK

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
1954

SEISMOGRAPHIC STATIONS OF THE UNIVERSITY OF CALIFORNIA

Perry Byerly, Director

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

and

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PALO ALTO, SAN FRANCISCO, FERNDALE, FRESNO, MINERAL, ARCATA,
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SEISMOGRAMS READ BY:

Charles Herrick

Carolyn H. Pendery

John E. Meeker

Nancy Vaaler

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EARTHQUAKE INTENSITY SCALE

Intensities are given by Roman numerals in the list of California, Nevada, and Oregon earthquakes on the following page, when sufficient information on the effects of the shock is available. Criteria of the Modified Mercalli Scale which are used to rate the intensity are:

Intensity

- II Felt by a few people only. Duration or direction not appreciable.
 - III Duration or direction appreciable.
 - IV Rattling of doors and windows; swinging of suspended objects.
 - V Disturbance of movable objects; plaster cracked.
 - VI Overthrow of movable objects; cracking of chimneys and other brickwork.
 - VII Fall of some chimneys; some damage to buildings.
-

EARTHQUAKE MAGNITUDE SCALE

Richter magnitudes given in the list of epicenters on the next page are found from the Wood Anderson amplitudes, using the nomogram given by Nordquist, "Bulletin of the Seismological Society of America", 32:164.

Latitude and Longitude are given for most epicenters in the following list. Only those earthquakes are given for which epicenters were located. The letter represents the excellence with which the epicenter has been located, a indicating excellent, b good, c fair, d poor.

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Times are given in Greenwich Civil Time. Subtract 8 hours to get local (Pacific Standard) time, or 7 hours to get Pacific Daylight Time (P.D.T. in effect in California until 0200, Sept. 28, 1952)

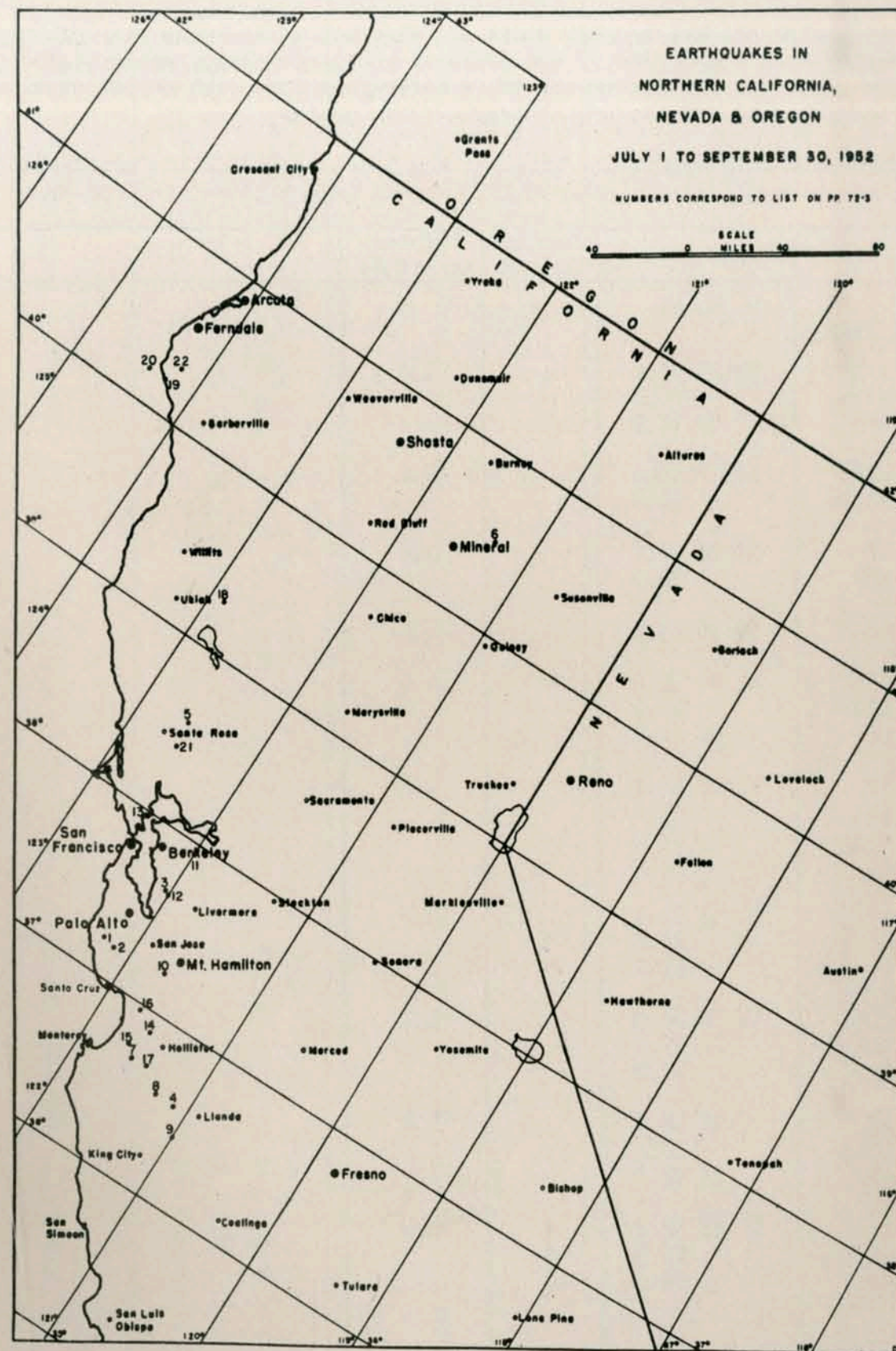
Map No.	Date 1952	Origin Time	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
1	July 1	17 46 29	2.2	37° 13'	122° 15'	b	13 miles west of Los Gatos.
2	4	09 33 44	1.5	37° 11'	122° 02'	b	4 miles SE of Los Gatos.
3	6	04 06 57	2.4	37° 40'	122° 02'	b	Near Hayward.
4	6	12 09 52	2.9	36° 35'	121° 07'	c	12 miles west of Llanada. Aftershock magnitude 2.5 at 12 16 03.
5	9	22 04 48	2 $\frac{1}{2}$	38° 32'	122° 37'	c	4 miles SE of Calistoga.
6	10	09 52 52	2.8	40.5°	121.3°	d	22 miles NE of Mineral.
7	12	00 20 36	2.5	36° 42'	121° 35'	c	5 miles NE of Salinas.
8	14	01 04 56	3.2	36° 35'	121° 17'	b	Gabilan Range 10 miles NE of Gonzales.
9	15	06 07 55	2.5	36° 25'	121° 00'	c	About 15 miles NE of King City.
10	30	23 55 33	2.5	37° 14'	121° 43'	a	7 miles SW of Mt. Hamilton.
11	31	11 28 50	1.8	37° 57'	122° 00'	b	Near Concord.
1	Aug. 1	00 11 23	2.2	37° 13'	122° 14'	c	12 miles west of Los Gatos.
12	2	16 28 45	2.9	37° 39'	122° 00'	b	4 miles east of Hayward.
13	5	00 03 19	2.4	37° 58'	122° 28'	b	6 miles east of San Rafael.
14	5	13 41 28	2.5	36° 53'	121° 34'	c	2 miles north of San Juan.
15	8	18 55 11	3.2	36° 45'	121° 39'	c	6 miles east of Castroville.

(continued on following page)

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

(continued)

Map No.	Date 1952	Origin Time	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
16	Aug. 9	09 36 09	2.5	36° 58'	121° 43'	c	Near Watsonville.
17	11	16 01 35	3.2	36° 42'	121° 27'	c	Gabilan Range, 12 miles north of Gonzales.
18	14	06 47 07	4.0	39° 18'	122° 53'	c	12 miles east of Potter Valley.
19	20	05 42 10	3.4	40° 11'	124° 15'	c	3 miles SE of Petrolia.
4	24	10 16 51	3.0	36° 35'	121° 10'	c	15 miles NE of Gonzales.
10	27	15 17 37	2.9	37° 14'	121° 38'	b	6 miles south of Mt. Hamilton.
11	29	11 59 52	2.2	37° 55'	121° 55'	c	11 miles east of Orinda.
1	29	19 03 41	2.2	37° 13'	122° 13'	c	12 miles west of Los Gatos.
17	Sept. 13	09 06 47	3.8	36° 37'	121° 25'	b	6 miles north of Gonzales.
20	22	11 41 25	5.2	40° 12'	124° 25'	c	12 miles southwest of Petrolia. Felt widely in Humboldt County.
21	26	04 35 43	3.2	38° 25'	122° 35'	c	7 miles SE of Santa Rosa. Felt in Santa Rosa, St. Helena and Kenwood.
22	28	18 26.6	3	40.3°	124.2°	d	Near Petrolia, Humboldt County.



TEHACHAPI AFTERSHOCKS

Listed below are the arrival times of Tehachapi Aftershocks with Richter Magnitudes greater than 4 recorded by the Berkeley group of seismographic stations. Magnitudes given are the average of those determined from each of the stations employing short-period Wood-Anderson torsion seismographs.

Aftershocks with magnitudes greater than 5 are listed in the usual place.

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
		h. m. s.		
July 21, 1952				
B	iPEZ	13 08 57.6	c	4.6
MH	ePNE	50.3		
M	ePN	09 27.2		
B	e(P)	13 17 58.3		4.2
MH	eE	52.0		
B	iP	13 26 08.5		4.6
M	ePN	38.0		
B	iP	13 30 33.3		4.0
B	iPNZ	14 00 55.2	d	4.6
MH	iPNEZ	46.2		
M	eP	01 24.8		
B	iP	14 16 10.7		4.8
MH	iP	03.0		
R	e	30.0		
M	eP	39.2		
B	iP	14 43 37.7	d	4.3
MH	iP	28.6		
R	e	57.5		
B	iPNZ	14 52 36.6		4.2
MH	iP	27.1		
R	e	55.0		
B	iP	15 14 54.8		4.9
MH	iP	48.0		
R	eP	15 08.5		
B	i	15 43 52.3	d	4.4
MH	iP	25.5	d	
R	eP	54.4	d	

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
		h. m. s.		
July 21, 1952				
B	i	15 52 43.5		4.4
MH	i	32.8		
F	iP	10.6		
R	eP	52.1		
B	eP	16 17 11.9		4.2
MH	iP	01.4		
B	i	16 39 39.4		4.4
	eSNE	40 23.0		
MH	iP	39 27.4	d	
F	iP	09.1	d	
R	e	52.8		
B	eP	18 01 26.3		4.9
	eSNE	02 12.3		
MH	iP	01 17		
R	eP	37.2		
B	iP	18 24 39.4		4.6
MH	eP	29.0		
F	eP	08.3		
R	e	57.9		
B	iP	18 27 26.7		4.0
MH	iP	16.7		
B	iP	19 17 19.3		4.3
MH	eP	09.0		
R	e	38.5		
B	eP	20 22 04.7		4.0
MH	eP	21 54.5		
F	iP	35.4		
R	eP	22 19.5		
B	eP	21 54 06.5		4.3
MH	iP	53 57.3		
F	eP	39.6		
M	iP	54 35.4		
B	eP	23 54 25.8		4.8
MH	iP	14.9	c	
F	eP	53 57.3	d	
M	iP	54 52.9		
R	eP	57.3		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 22, 1952		h. m. s.		
B	iP	01 52 52.0		4.6
MH	iP	41.5	c	
F	eP	21.5	c	
M	iP	53 19.0	d	
R	eP	06.5	d	
B	eP	03 22 04.8		4.6
MH	e(P)	21 53.5		
F	eP	36.1	d	
M	iP	22 32.7		
R	eP	12.5		
B	eP	08 17 23.0		4.5
MH	eP	13.0	d	
F	iP	16 55.6	d	
M	e(P)	17 52.0		
R	eP	34.5		
SH	e(P)	52.5		
B	e	08 22 18.5		4.3
MH	e(P)	02.3		
F	eP	21 50.8		
M	eP	22 45.5		
B	eP	08 48 33.0		4.9
MH	iP	23.8		
F	iP	05.4		
M	eP	49 00.6		
R	e	48 46.8		
B	eP	09 11 23.8		4.6
MH	iP	11.4	c	
F	iP	10 55.7	d	
M	eP	11 51.2		
B	eP	10 20 36.4		4.2
MH	eP	26.2		
F	iP	09.9	d	
M	iP	21 04.7		
B	eP	11 06 07.5		4.2
MH	eP	05 56.3	c	
F	iP	39.7	d	
R	eP	06 19.6		
SH	eP	42.8		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 22, 1952		h. m. s.		
B	eP	14 31 15.7		4.3
MH	eP	05.7	d	
F	eP	30 48.7	d	
SH	e	31 53.0		
B	iP	15 04 13.1		4.4
MH	iP	04.3	d	
F	eP	03 43.5	d	
R	eP	04 25.1		
SH	eP	48.0		
B	iP	19 09 58.2		4.3
MH	eP	47.4	c	
F	eP	28.1	d	
R	e	10 13.5		
SH	eP	32.5		
B	iP	21 03 10.0		4.5
MH	iP	02 58.9	d	
F	ip	40.6	c	
R	eP	03 21.5		
July 23, 1952				
B	eP	03 50 25.8		4.9
MH	eP	14.8		
F	eP	49 55.2		
M	eP	50 50.5		
R	eP	34.8		
B	eP	04 02 38.5		4.7
MH	iP	27.8	c	
F	eP	07.6	d	
M	eP	03 03.1		
R	eP	02 49.3		
B	i(P)	05 47 02.6		4.9
MH	iP	46 51.3	c	
F	eP	30.8	c	
M	eP	47 27.1	c	
R	e(P)	11.2		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 23, 1952				
		h. m. s.		
B	iP	06 11 45.9		4.3
MH	iP	35.3	c	
F	eP	15.3	d	
M	eP	12 11.1		
R	e	05.7		
B	i(P)	06 27 28.1		4.3
MH	iP	17.2	c	
F	eP	26 56.7	c	
M	eP	27 53.0		
R	e(P)	41.2		
B	i(P)	06 54 42.5		4.3
MH	eP	30.5		
F	eP	10.8		
R	e	57.0		
B	iP	07 38 00.2		4.8
MH	iP	37 50.1	d	
F	eP	29.2	d	
M	eP	38 24.5	d	
R	eP	09.8		
B	eP	09 39 42.7		4.4
MH	iP	32.5	c	
M	iP	40 08.0	c	
R	e(P)	39 57.0		
B	e(P)	10 55 14.2		4.2
MH	iP	02.9	c	
F	eP	54 42.9		
M	e(P)	55 39.0		
R	e	32.5		
B	iP	13 31 04.4		4.7
MH	iP	30 53.7	c	
F	eP	33.5	d	
M	iP	31 29.8	c	
R	eP	17.0		
B	iP	15 26 26.1		4.1
MH	eP	15.4	c	
F	iP	25 56.5	c	
R	e	26 43.0		
SH	eP	27 00.5		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 23, 1952				
		h. m. s.		
B	iP	16 19 37.5	c	4.5
MH	eP	26.7	c	
F	eP	06.5	d	
M	eP	20 02.6		
R	e	19 54.5	c	
B	eP	16 49 51.0		4.9
MH	eP	41.1	c	
F	eP	21.5	d	
M	iP	50 18.6		
B	iP	17 23 24.9		4.7
MH	eP	14.3	d	
F	eP	22 53.7		
R	e	43.4		
B	iP	17 54 27.2		4.4
MH	iP	17.3	c	
F	iP	53 59.0	c	
R	e	54 43		
B	iP	19 52 34.0		4.5
MH	iP	23.0	c	
F	eP	02.1	c	
M	iP	53 04.2		
R	e	52 49.5		
B	eP	22 33 17.5		4.3
MH	eP	06.7	d	
F	ePEZ	32 49.2	d	
M	eP	33 44.5		
R	e	30.5		
SH	e	34 02.0		
July 24, 1952				
B	eP	05 03 50.5		4.6
MH	iP	40.5	c	
F	eP	20.3	c	
M	eP	15.5		
R	e	04 09.0		
B	iP	09 51 30.8		4.2
MH	eP	20.0	d	
F	iPNZ	02.7	d	
M	iP	58.0	d	
R	eP	43		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 24, 1952				
		h. m. s.		
B	iP	11 48 54.0		4.7
MH	eP	43.4	d	
F	iP	22.5	d	
M	eP	49 17.4		
R	eP	03	d	
B	iP	14 06 26.6		4.6
MH	iP	16.8	c	
F	iP	05 56.5	c	
M	eP	06 52.0	c	
R	eP	38		
B	iP	17 36 06.8	c	4.3
MH	eP	35 56.5	c	
F	eP	36.6	c	
M	iP	36 32.6		
R	eP	16.5		
July 25, 1952				
B	i	00 04 45.1	c	4.3
MH	eP	30.3		
F	eP	15.5		
M	eP	05 11.0		
R	e	04 53.0		
SH	e	05 19.0		
B	iP	01 47 56.1		4.3
MH	iP	44.6		
F	e(P)	25.5		
M	eP	48 20.5		
R	eP	07.0		
SH	e	34.0		
B	eP	07 04 49.6		
MH	iP	39.2	d	
F	eP	18.0		
M	eP	05 13.5		
R	eP	04 58.0		
SH	eP	05 24.0		
B	i	14 35 43.3		4.5
MH	eP	32.2	c	
F	eP	12.5		
M	eP	36 07.8	c	
R	e	35 58.5		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
July 26, 1952				
		h. m. s.		
B	iP	09 23 08.0	d	4.4
MH	iP	22 58.0	d	
F	eP	36.9	d	
M	eP	23 32.0		
R	eP	15.5		
SH	eP	43.5	d	
B	iP	22 42 03.6		4.7
MH	iP	41 53.8	d	
F	iP	34.0	d	
M	eP	42 30		
R	eP	13.9	d	
B	iP	22 59 56.1		4.8
MH	eP	47.0	c	
F	eP	26.3	d	
M	eP	23 00 22.0	c	
R	e	11.7		
SH	eP	31.0	c	
July 27, 1952				
B	i	02 50 11.6		4.3
MH	iP	00.3	c	
F	eP	49 38.9	d	
M	eP	50 34.0		
R	eP	16.5		
B	iP	07 36 37.6		4.4
MH	iP	27.4	c	
F	e(P)	07.7	c	
M	eP	37 03.5		
B	eP	11 35 35.5		4.1
MH	eP	25.5	c	
F	eP	07.5	d	
R	eP	47.5		
SH	e	36 15.0		
July 28, 1952				
B	eP	05 46 57.5	c	4.1
MH	iP	47.6	c	
F	iP	27.5	c	
M	eP	47 22.5	c	
R	e	09.0		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
		August 19, 1952		
		h. m. s.		
B	iP	19 13 23.9	c	4.9
MH	iP	15.1	c	
F	iP	12 55.9	c	
R	eP	13 36.5	c	
SH	eP	14 04.7		
C	eP	58		
		August 23, 1952		
B	iP	06 04 03.4		4.3
MH	eP	03 52.5		
M	eP	04 31.0		
F	eP	03 33.7		
R	eP	04 14.5		
		August 25, 1952		
B	eP	06 21 14.2		4.7
MH	eP	13.5		
M	eP	51.5		
F	iP	20 55.8		
R	e	21 35.0		
		August 26, 1952		
B	iP	20 57 42.9		4.7
MH	eP	32.8	c	
M	eP	58 09.8		
F	iP	57 13.6	c	
		September 1, 1952		
B	eP	10 39 56.0		4.2
MH	iP	45.7		
F	eP	26.5		
R	e	40 21.4		
SH	iPNZ	19.1		
		September 2, 1952		
B	eP	12 42 32.2		4.5
MH	eP	21.7		
F	iP	03.4		
M	eP	58.7		
SH	ePNZ	43 08.9		

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
		September 2, 1952		
		h. m. s.		
B	eP	20 46 53.9		4.7
MH	eP	44.2		
F	iP	27.0		
M	eP	47 22.3		
R	eP	06.5		
SH	eP	28.3		
		September 4		
B	iP	18 07 50.1		4.5
MH	iP	40.0		
F	eP	19.5		
M	i	08 17.7		
R	e(P)	05.0		
SH	eP	25.0		
		September 12		
B	iP	10 36 21.6		4.5
MH	eP	11.8		
F	iP	35 54.9		
M	eP	36 50.4		
R	eP	34.2		
SH	eP	37 28.0		
B	eP	20 44 24.4		4.4
MH	eP	13.8		
F	iP	43 54.8		
R	eP	44 34.5		
		September 16		
B	iP	15 22 07.1		4.7
MH	iP	21 56.5	c	
F	iP	36.0	c	
R	e(P)	22 19.0		
SH	eP	43		
		September 18		
B	eP	07 11 51.6		4
MH	eP	41.6	c	
F	eP	19.4	d	

Sta.	Phase	Time (GCT)	Ground Motion	Richter Magnitude
September 25, 1952				
		h. m. s.		
B	i(P)	16 22 38.5		4.0
MH	eP	24.5		
M	iP	23 02.7		
F	eP	22 05.7		
R	e(P)	47.5		

STATION EQUIPMENT

Berkeley:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.
- 3 - Long-period Galitzin-Wilip.
- 2 - Horizontal-component 100 kg. Bosch-Omori.

Mt. Hamilton:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Palo Alto:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

San Francisco:

- 1 - EW Horizontal-component Wood-Anderson torsion.

Ferndale:

- 2 - Horizontal-component 25 kg. Bosch-Omori.

Fresno:

- 3 - Components short-period Sprengnether.

Mineral:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Arcata:

- 2 - Horizontal-component Wood-Anderson torsion.

Reno:

- 3 - Components short-period Sprengnether.

Shasta:

- 3 - Components short-period Benioff.

Readings from the Oregon State Seismographic Station are sent to the University of California by the courtesy of Dr. H. R. Vinyard.

Station	North Latitude	West Longitude	Station Symbol	Present auspices and date established:
Corvallis	44° 35'	123° 18'	C	Oregon State Collage and University of California - 1950.

(continued on following page)

Station Equipment (continued)

- 2 - short-period horizontal-component Slichter
- 1 - short-period vertical-component Slichter.

For all stations, the three components are indicated by N, E, Z. When no letter appears, the phase is read from the vertical component only.

"c" or "d" following a recorded phase indicates compression or dilation of the ground as indicated by the vertical component instrument. N, S, E or W following a recorded phase indicates that the ground motion was in that direction, e.g., W ground motion was west.

"i" (impetus) preceding a phase designates sudden beginning of the motion; "e" (emersio) designates gradual beginning.

Maximum amplitude of earth displacement in microns and period in seconds of the indicated phases are given for the Berkeley station in the columns headed A and T. Combined horizontal amplitude of N and E components are designated by H.

THE REGISTRATION OF EARTHQUAKES

at

BERKELEY, MOUNT HAMILTON, PALO ALTO, SAN FRANCISCO, FERNDALE,
FRESNO, MINERAL, ARCATA, RENO AND SHASTA

All large regional shocks and all distant earthquakes are tabulated on the following pages. Earthquakes in the Northern California, Nevada and Oregon region are included only if of magnitude 5 or greater, or if of special interest. Times of distant shocks are not normally included for Palo Alto, San Francisco, or Ferndale except in cases of defective records at Mount Hamilton, Berkeley, or Arcata, respectively.

All determinations are reduced to Greenwich Civil Time (G.C.T.). G.C.T. is 8 hours greater than Pacific Standard Time (120th Meridian). Communications regarding readings or seismograms should be addressed to:

Seismographic Station
University of California
Berkeley 4, California.

<u>Station</u>	<u>North Latitude</u>	<u>West Longitude</u>	<u>Altitude Meters</u>	<u>Feet</u>	<u>Station Symbol</u>	<u>Present Auspices and Date Established</u>
Berkeley	37° 52.3'	122° 15.6'	81	266	B, BG*	University of California - 1887
Mt. Hamilton	37° 20.4'	121° 38.6'	1281.7	4205	MH	Lick Observatory - 1887
Palo Alto	37° 25.1'	122° 10.8'	83	272	PA	Stanford University - 1927
San Francisco	37° 46.4'	122° 27.2'	100	328	SF	University of San Francisco - 1931
Ferndale	40° 34'	124° 16'	17	55	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 21'	121° 35'	1495	4906	M	National Park Service, Lassen Volcanic National Park - 1938
Arcata	40° 52.6'	124° 04.5'	60	195	A	Humboldt State College - 1948
Reno	39° 32.3'	119° 48.8'	1386	4546	R	University of Nevada - 1948
Shasta	40° 41.7'	122° 23.3'	312	1024	SH	Bureau of Reclamation and University of California - 1942

*B denotes readings of short period instruments, BG of long period instruments (12 sec, Galitzin-Wilip).

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks				
1952			h. m. s.						
July 3	B	i	01 01 35.8	d	USCGS: $5\frac{1}{2}^{\circ}$ N, 78° W, $0 = 00 52 23$.				
	BG	eSE	09.0						
		eQE	23.4						
	MH	i	01 30.7	d					
	F	eP	18.0						
	M	e	38.5						
	R	eP	29.0	d					
		eNE	42.5						
		eE	02 18.2						
		e	01 44.0						
4	SH	e	01 44.0		USCGS: $20\frac{1}{2}^{\circ}$ S, $178\frac{1}{2}^{\circ}$ W, $h = 600$ km, $0 = 04 46 01$, Pasadena Magnitude 5.9.				
	B	eP	04 57 06.3	d					
		i	18.2						
	EG	eSNE	05 06 20	SE					
	MH	iP	04 57 06.5	d					
		epP	59 17.5						
		e(sP)	05 00 16.7						
	F	eP	04 57 10.5	d					
		epP	59 25						
		e(sP)	05 00 25.5						
M		eSE	06 32.0		USCGS: $36\frac{1}{2}^{\circ}$ N, 71° E, $h = 200$ km, $0 = 17 19 47$.				
		iP	04 57 15.5	d					
		ipP	59 26.5						
		i	32.2						
	R	eP	57 19.5	d					
		epP	59 35.0						
		eSN	05 06 47.0						
	4	MH	iP	05 02 05.7			USCGS: New Hebrides Islands, $0 = 02 56 55$.		
		F	eP	09.5					
		M	eP	14.2					
R		e(P)	18.0						
5		MH	eP	03 09 31.3	c	USCGS: Fiji Islands Region, $h = 600$ km, $0 = 12 41 42$.			
		F	eP	36.5	c				
		M	eP	36.7	d				
		R	eP	42.0	c				
		5	MH	eP	12 52 17.7			d	USCGS: $7\frac{1}{2}^{\circ}$ N, 82° W, $0 = 18 15 18$. Berkeley Magnitude $6\frac{1}{4}$ - $6-3/4$, Pasadena Magnitude $6\frac{1}{2}$.
			F	eP	21.5			d	
	M		eP	25.8	d				
	R		eP	30.0	d				
	SH			iP	25.3			USCGS: 54° N, 164° W, $0 = 02 53 01$, Pasadena Magnitude $6\frac{1}{4}$.	
				e	53 25.0				
5			MH	eP'	17 37 43.8		USCGS: Bismark Sea, $0 = 12 49 07$.		
				e	38 12.3				
			F	eP'	37 58.0				
			M	eP'	36.3				
		R	eP'	38.5					
			e	52.4					
		SH	eP'	35.1					

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1952			h. m. s.				
July 7	B	iP	02 59 36.8		USCGS: 54° N, 164° W, $0 = 02 53 01$, Pasadena Magnitude $6\frac{1}{4}$.		
	BG	eSE	03 05 00				
		eQNE	07.0				
	MH	iP	02 59 42.6	d			
		i	52.1	c			
		i	03 00 10.9	c			
		e	01 14.0				
		i	02 20.8				
	F	eP	02 59 55.0	d			
	M	iP	25.2				
7		i	33.7		USCGS: Mariana Islands about 150 miles North of Guam, $0 = 14 43 50$.		
		i	03 02 13.7				
	R	eP	02 59 39.5	d			
	SH	iP	20.0				
		i	34.9				
		e	03 00 32.5				
	MH	iP	13 02 26.9				
	M	eP	26.2				
	SH	eP	24.4				
	7	MH	iP	14 56 21.3		d	USCGS: 42° N, 131° E, $h = 600$ km, $0 = 00 59 23$.
F		eP	24.0	d			
M		iP	16.7				
R		eP	26.0	d			
SH		eP	14.3	d			
8		B	iP	01 10 14.2	c	USCGS: Tonga Islands Region, $0 = 15 40 10$.	
		MH	iP	18.0	c		
		F	eP	25.4	c		
		M	iP	06.3	c		
		R	eP	15.5	c		
	SH	iP	02.7	c			
		epP	12 02.5				
	B	eP	15 51 45.5				
	MH	eP	52.6				
	F	eP	50.0				
8	M	eP	56.4		USCGS: $7\frac{1}{2}^{\circ}$ N, 82° W, $0 = 18 15 18$. Berkeley Magnitude $6\frac{1}{4}$ - $6-3/4$, Pasadena Magnitude $6\frac{1}{2}$.		
	R	eP	52 00.0				
	SH	eP	51 55.0				
	9	B	eP	18 23 53.0		c	USCGS: $36\frac{1}{2}^{\circ}$ N, 71° E, $h = 200$ km, $0 = 17 19 47$.
			i	24 12.9		c	
			ePP	25 31.5			
		BG	eSN	30 47			
			i(SS)	34 23			
			eQNE	36.9			
			eRNEZ	40.6			
		A T					
		PZ	1.7 6				
		SH	$18\frac{1}{2}$ 19				
	MaxH	20 20					

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
July 9	MH	iP	18 23 48.4	c	USCGS: 7 $\frac{1}{2}$ °N, 82°W, 0 = 20 36 48, Pasadena Magnitude 6 $\frac{1}{4}$.	
		ePP	25 40.5			
	F	eP	23 35.0	c		
		eSNE	30 25.0			
	R	iP	23 48.3	c		
		eSN	30 45.5			
	SH	eP	24 02.5	c		
		eP	27			
	9	B	eP	20 45 24.5		c
			i	29.0		
		iSN	52 27.0			
		e(Q)N	21 00.9			
		eNE	03.2			
	MH	eP	20 45 17.5	c		
		i	20.4	d		
	F	e(P)	05.5	d		
		eSE	51 53.5			
	R	e(P)	45 18.5	d		
		eSN	52 15.0			
10	SH	e(P)	45 33.5	d		
		iP	06 12 51.3	d		
	B	iP	51.9	d		
		e	15 44.7	d		
	F	eP	12 56.3	d		
		eP	13 05.5	d		
	SH	iP	00.5	d		
		iP	07 32 26.8	d		
	F	eP	35.0	d		
		eP	47.0	d		
SH	eP	35.0	c			
	iP	15 56 23.8	c			
10	B	epP	58 43.8			
		iPP	59 33.2			
	BG	iSNE	16 05 30.5	SE		
		iSPNE	53.0	NW		
	MH	iP	15 56 24.3	c		
		ipP	58 45.1	c		
	F	iPP	59 24.9	c		
		iP	56 27.7	c		
	R	e(P)	59 41.4			
		eSNEZ	16 06 40.0			
SH	iP	15 56 36.8	c			
	i	51.6	c			
	i	58.5	d			
	e	57 39.5	c			
	eSNE	16 05 57.0				
	e(P'P')	23 13.5				
	e(SKPP')	25 41.0				
	iP	15 56 31.3	c			
	e	58 23.4				
	epP	53.5	c			

USCGS: 18 $\frac{1}{2}$ °S, 180°
h = 700 km, 0 = 15 45 28,
Pasadena Magnitude 6 $\frac{1}{2}$.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1952			n. m. s.				
July 10	SH	eSE	16 05 45.0				
		iP	15 56 41				
11	B	eP	04 45 18.6	d	USCGS: Salta Province, Northern Argentina, 0 = 04 33 00.		
		MH	iP	25.7			
		e	47 12.8	d			
		e	48 26.6				
		eP	45 05.8	d			
		M	iP	23.4		d	
		R	eP	16.5		d	
		SH	eP	30.9		d	
	12	MH	iP	02 56 27.1			
		SH	e	57 23			
12	MH	eP	15 25 59.8		USCGS: Southern Ecuador, 0 = 02 46 32.		
		F	eP	52.5			
	M	eP	26 10.8				
	R	eP	02.1				
	SH	eP	12.5				
		iP	02 29 43.0				
	13	M	eP	50.7			
			SH	eP		50.5	
	13	MH	eP	07 36 52.4			USCGS: Samoa Islands, h = 100 km, 0 = 10 49 27.
			F	eP		55.5	
M		e	37 01.1				
SH		e	36 56.5				
		MH	iP	11 00 26.3	d		
F		eP	30.3	d			
		M	eP	36.1	d		
		i	48.4				
		i	01 00.0				
		R	eP	00 40.7	d		
13	SH	iP	35.1		USCGS: 18 $\frac{1}{2}$ °S, 169 $\frac{1}{2}$ °E, h = 300 km, 0 = 11 58 34.		
		e	40.5				
	B	iP	20 10 44.0	c			
		e	11 32.5				
		e	12 24.5				
		iPP	14 02.9				
	MH	iP	10 45.0	c			
		i	11 05.9				
		ipP	55.4				
		iPP	14 05.8				
	eSNE	20 43.8					
F	iP	10 49.7	c				
	ePP	14 15.5					
	eSE	20 48.0					
M	esSN	23 35.5					
	iP	10 51.0	c				
	ipP	12 00.5					
	iPP	14 16.0					
R	eSNEZ	20 50.0					
	iP	10 56.1	c				

Date	Sta.	Phase	Time (CGT)	Ground Motion	Remarks	
1952			h. m. s.			
July 13	R	epPN	20 12 00.0	c	USCGS: 3°S, 128°E, 0 = 17 34 26.	
		iPP	14 25.1			
		eS	20 53.5			
	SH	eP'P'	36 50.5			
		eSKPP'	39 44.5			
		iP	10 49.6			
		e	11 47.7			
	C	e	12 01.7			
		iPPEZ	14 14.1			
		eSNE	20 47.5			
		iP	10 56			
		ePP	14 27			
		eS	20 57			
13	B	e(PP)	17 53 28.0			
	MH	eP	48 56.7			
13	MH	eP'	52 27.6			
		iPP	53 07.4			
	F	eP	49 09.0			
		eP'	52 33.0			
	M	ePP	53 04.0			
		eP	48 54.4			
	R	ePP	53 09.3			
		eP	49 06.5			
	SH	eP'	52 38.0			
		eP	48 54.2			
15	SH	eP'	52 20.0			
		ePP	53 21.7			
	15	B	eP	06 13 17.5	d	USCGS: 14 1/4°N, 92 1/2°W, 0 = 06 06 20.
		MH	iP	12.6	d	
	F	ipP	24.0	d		
		eP	12 57.5	d		
	M	iP	13 26.6	d		
		eP	14.0	d		
	SH	eP	30.5	d		
		eP	19 09 29.1		USCGS: About 350 miles South of Colima, Mexico, 0 = 19 03 35.	
15	MH	eP	47.6			
	M	eP	05 09 13.3			
16	SH	eP	10.3			
	MH	iP	01 34 07.8		USCGS: 29 1/2°N, 113 1/2°W, 0 = 01 31 14.	
16	F	eP	33 42.0			
		e(S)E	36 20.5			
	M	eP	34 35.4			
		eP	16.5			
	R	e(S)E	37 40.5			
		eP	34 42.0			
	SH	eP	34 42.0			
		eP	16 21 44.5	d	USCGS: 34 1/2°N, 136°E, h = 100 km, 0 = 16 09 52. Pasadena Magnitude 7.	
	17	B	ipP	22 07.8		
		ePP	25.0			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
July 17	BG	eNEZ	16 22 56	Nwd	
		iSNEZ	31 32.5		
		eQN	40 40.5		
	MH	eRNE	42 52		
		iP	21 47.5		
		epP	22 12		
		i	23 19.1		
	F	e	42.5		
		i	24 29.5		
		ePP	25 04.0		
		eP	21 56.3		
		eSE	31 50.0		
		eP	21 47.4		
R	epP	13.5			
	eS	31 38.0			
SH	eP	21 33.7			
	ipP	53.1			
	eS	31 14.5			
	iP	18 49 58			
18	B	iP	18 49 58	c	USCGS: 23°S, 114 1/2°W, 0 = 18 39 40.
	BG	eSE	56 26		
MH	eQ	05 39			
	eRNZ	08 31			
F	iP	49 55.4	c		
	ePP	52 13.6	c		
R	eP	49 48.7			
	eP'P'	19 19 25.5			
SH	eP	18 50 08.7			
	eP	16.3			
18	MH	e(P)	23 07 15.0		USCGS: Michoacan, Mexico, 0 = 23 01 50.
	F	eP	00.9		
R	eP	20.5			
	eP	21 32 09.6			
19	MH	eP	12.0		
	R	eP	12.0		
SH	eP	21.5			
	eP	05 46 40.7		USCGS: Kermadec Islands, 0 = 05 34 20.	
20	MH	eP	40.7		
	F	eP	43.5		
R	e	47 18.0			
	e	47 18.0			
21	B	iP	11 53 11.0	d	Pasadena: 35° 00'N, 119° 02'W, 0 = 11 52 14.3, Magnitude 7 1/2 - 7-3/4.
	MH	iP	01.8	d	
PA	eP	06.6	d		
	ePE	12.6			
USF	ePE	40.0			
	ePE	40.0			
Fe	ePE	40.0			
	ePE	40.0			
F	ePE	40.0			
	ePE	40.0			
R	ePE	40.0	d		
	ePE	40.0	d		
SH	iPNEZ	52 44.9			
	eP	53 24.8			
C	eP	46.6			
	eP	54 43			
21	eS	56 20			
	eS	56 20			
B	iPN	12 40 48.1	c	Aftershock, Berkeley Magnitude 6.	
	iSNE	41 34.3			
MH	iN	40 42.4			
	ePNZ	41 15.7			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
July 21	B	eP	17 43 45.2		Aftershock, Berkeley Magnitude $5\frac{1}{2}$.
		iSNEZ	32.2		
	MH	iP	35.3		
	M	ePN	44 11.2		
	R	e(P)	43 53.8		
	C	eP	45 15		
21	B	iP	19 42 19.1		
	MH	iPNEZ	10.1	d	Pasadena: $35^{\circ} 08' N$, $118^{\circ} 46' W$, O = 19 41 22.3, Magnitude $5\frac{1}{2}$. Berkeley Magnitude $5\frac{1}{2}$.
	F	iP	41 51.5		
	M	e(P)N	42 47.2		
	R	eP	31.5		
	C	eP	43 53		
22	B	iP	01 42 04.6		Aftershock Berkeley Magnitude 5.
	MH	iP	41 54.1	d	
	F	eP	34.0	d	
	M	iP	42 31.1	d	
	R	eP	14.0		
22	B	eP	13 32 40.6		Aftershock Berkeley Magnitude 5.
	MH		30.7	d	
	F	ePNEZ	14.8	d	
	M	ePNE	33 10.0		
	R	eP	32 53.6	d	
	SH	eP	33 15.8		
22	B	iP	22 32 31.5	d	Aftershock Berkeley Magnitude 5.
	MH	iP	20.9	d	
	F	iP	04.3	c	
	R	eP	43.4	c	
	M	iP	59.5		
23	B	iP	00 39 31.1	d	Pasadena: $35^{\circ} 22' N$, $118^{\circ} 35' W$, O = 00 38 32.0, Magnitude 6. Berkeley Magnitude 6.
	MH	iP	20.5	d	
	F	iP	00.5	d	
	M	iP	55.9	d	
	R	iP	39.9	d	
	SH	eP	40 03.0	d	
	C		58		
23	MH	eP	01 06 19.8	d	USCGS: $14^{\circ} N$, $91\frac{1}{2}^{\circ} W$, O = 00 59 17.
	M	eP	33.8		
23	B	iPNEZ	03 20 20.6	c	Pasadena: $35^{\circ} 22' N$, $118^{\circ} 35' W$, Magnitude 5.0. Berkeley Magnitude $5\frac{1}{4}$.
	MH	iP	10.2	c	
	F	eP	19 50.1	c	
	M	eP	20 47.3	c	
	R	eP	31.5		
23	MH	iP	04 42 24.6		USCGS: Fiji Islands Region, O = 04 30 09.
	M	eP	18.9		
	R	e	48.0		
23	B	eP	07 54 16.8	c	Pasadena: $35^{\circ} 00' N$, $118^{\circ} 50' W$, O = 07 53 18.7, Magnitude $5\frac{1}{2}$ to $5-3/4$. Berkeley Magnitude $5\frac{1}{2}$.
	MH	iP	06.5	c	
	F	iPEZ	48.8	d	
	M	eP	43.0	c	
	R	eP	28.2		
	SH		50.5	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
July 23	B	iPNEZ	13 18 03.8		
	MH	eP	17 53.3	c	
	F	iPEZ	34.4	d	
	M	iP	18 29.0	d	
	R	eP	14.8	c	
	SH	iP	37.1	c	
	C	eP	19 33		
23	B	iPNZ	18 14 49.6		Pasadena: $35^{\circ} 00' N$, $118^{\circ} 50' W$, O = 18 13 50.9, Magnitude 5.2. Berkeley Magnitude $5\frac{1}{2}$.
	MH		39.2	c	
	F	iPEZ	21.1	c	
	M	iP	15 14.3		
	R	eP	01.0	c	
	SH	e(P)	22.5	d	
	C	eP	16 21		
24	B	iP	09 21 54.0	d	USCGS: Northern Chile, O = 09 10 00.
	MH	iP	50.6	d	
	F	eP	39.5	d	
	M	iP	58.4	d	
	R	eP	53		
24	B	eP	10 42 16.5	c	USCGS: $27^{\circ} S$, $178^{\circ} W$, O = 10 29 49.
	MH	iP	16.9	c	
		ipP	36.5	c	
		e	43 18.4		
	F	eP	42 19.5	c	
	M	eP	24.5	c	
		ipP	44.4	c	
	R	eP	29		
	SH	eP	25.0	c	
24	B	eP	22 20 16.3	c	$42\frac{1}{2}^{\circ} N$, $145\frac{1}{2}^{\circ} E$, h = 60 km, O = 22 09 20.
	MH	ipP	27.4	c	
		eP	18.8	c	
		ipP	31.8	c	
	F	eP	28.0		
		epP	40.7		
	M	iP	05.7	c	
		i	12.7		
		ipP	18.7		
	R	eP	17.5	c	
		epP	30.4	c	
		ePP	23 06.0		
		e(SPP)N	39.0		
		eSE	29 13.0		
	SH	eP	20 02.6	c	
		ipP	15.4		
	C	eP	19 46		
25	B	iP	13 14 09.0	c	Pasadena: $35^{\circ} 19' N$, $118^{\circ} 30' W$, O = 13 13 08.6, Magnitude 5.0. Berkeley Magnitude 5.0
	MH	iP	13 58.9		
	F	eP	38.4	d	
	M	iP	14 35.7	c	
	R	eP	19.0	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
July 25	B	e	19 10 45.3		Pasadena: 35° 19' N, 118° 30' W, O = 19 09 45.0, Magnitude 5-3/4. Berkeley Magnitude 5-3/4.
	MH	iP	33.9	d	
		i	35.3		
	F	iP	15.3		
	M	eP	11 08.5		
	A	ePN	33.0		
	R	eP	10 53.0		
	SH	eP	11 17.0		
	C	eP	12 17.		
	25	B	ePNE	19 44 23.0	
MH		iP	13.6	c	
F		iP	43 53.1	c	
M		eP	44 45.0	d	
R		eP	32.0	d	
SH		eP	55.4		
25	C	eP	45 54		Pasadena: 35° 19' N, 118° 30' W, O = 20 06 05.7, Magnitude 5.0. Berkeley Magnitude 5 1/4.
	B	ePNEZ	20 07 05.5		
	MH	iP	06 55.5	d	
	F	iP	34.7	d	
	M	eP	07 30.0		
	R	eP	14.0		
27	SH	eP	38.8		USCGS: Galapagos Islands Region, O = 00 46 35.
	MH	eP	00 55 03.0	c	
	M	e	17.4		
	R	e	09.0	c	
27	MH	eP	02 22 27.9	c	USCGS: 15 1/2°S, 173°W, O = 02 11 08.
	F	eP	36.7	c	
	M	eP	36.8		
27	R	e(P)	47.5		USCGS: 20 1/2°S, 179°E, h = 500 km, O = 08 23 22.
	BG	iPNEZ	08 34 38.0	c	
		i	35 34.0	c	
		i(pP)	36 24.0	c	
		i(PP)	37 19.0	d	
		iSNEZ	43 56.0	SE&sup	
		iN	47 40.0		
	MH	iP	34 37.9	c	
		i(pP)	36 29.0	d	
		e(PP)	37 17.5		
		eS	43 54		
	F	eP	34 42.0	c	
		e(pP)	36 25.0		
	eSNEZ	44 05.5			
M		eP	34 45.0	c	
		i	35 00.6	c	
		i(pP)	36 37.0	c	
		eSNZ	44 12.5		
A		eP	34 43.1		
		eSNE	44 04.1		
R	eP	34 51.0	c		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
July 27	R	e	08 35 16.5		USCGS: Near South Coast of Panama, O = 17 31 28. Pasadena: 35° 23' N, 118° 51' W, O = 07 03 46.8, Magnitude 6 1/4. Berkeley Magnitude 6 1/4.	
		e(PP)	38 04.5			
		eSNEZ	44 23.0			
		eE	33.5			
	SH	iP	34 45.8	c		
		eS	44 01.5			
	C	iP	34 57			
		iS	44 30			
	27	MH	eP	23 31 33.3		d
	R	eP	35.5	c		
28	SH		45.6	d		
	R	eP	17 39 52			
29	B	iPNE	07 04 42.1		Pasadena: 35° 24' N, 118° 49' W, O = 08 01 46.4, Magnitude 5.2. Berkeley Magnitude 5 1/2.	
		i	42.5	d		
	MH	iPZ	32.7	d		
	F	iP	13.3	d		
	M	ePE	05 09.5			
	A	ePN	28.5			
	R	eP	04 53.4	d		
	SH	eP	05 16.5	d		
	C	eP	06 17			
	29	B	iP	08 02 42.8		d
29	MH	iP	33.2	d	Pasadena: 35° 11' N, 118° 36' W, O = 15 49 50.3, Magnitude 5.0. Berkeley Magnitude 5.	
	F	iP	13.6	d		
	M	ePN	03 09.0			
	R	e	02 53.0	c		
	SH	eP	03 15.4			
	29	B	iP	15 50 51.5		c
	MH	iP	41.8	c		
	F	eP	21.4	d		
	R	eP	51 01.2	d		
	SH	eP	25.1			
29	MH	e	20 02 16.5		USCGS: 53 1/2°N, 175°W, O = 19 54 27.	
	F	e	45.0			
	M	eP	01 46.2			
	SH		40.4			
30	M	eP	03 42 26.2	c	USCGS; 45°N, 150 1/2°E, O = 03 32 02.	
	R	e	32.5			
31	MH	eP	05 05 07.2		Pasadena: 35° 19.5' N, 118° 36.5' W, O = 12 09 08.8, Magnitude 5-3/4. Berkeley Magnitude 6.	
	F	e	19.3			
	R	e	05.0			
	SH	eP	04 47.5			
31	B	iP	12 10 09.4	d		
	MH	iPNEZ	09 59.5	d		
	F	iP	39.1	d		
	M	ePN	10 33.5			
	R	iP	18.0	d		
	SH	ePN	41.5			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
July 31	B	eP	12 29 05.0		USCGS: 34°S, 72½°W, h = 100 km, O = 12 10 35.
	MH	epP	13.5	c	
	F	eP	28 54.0	c	
	R	epP	29 01.5	c	
	R	eP	29 06.1	c	
	SH	epPNZ	14.5	c	
	SH	iP	15.0	c	
	SH	ipP	22.8	c	
31	B	eP	19 54 09.0	c	Tehachapi Aftershock Berkeley Magnitude 5.0.
	MH	iP	53 59.4	d	
	F	iP	40.9	d	
	R	eP	54 21.5		
	SH	eP	44.5		
Aug. 1	B	eP	13 05 27.7	d	Pasadena: 34° 54' N, 118° 51' W, O = 13 04 30.0, Magnitude 5.2. Berkeley Magnitude 5.1.
	MH	eP	17.7	d	
	F	iP	00.8	d	
	M	ePN	57.0		
	R	eP	41.0		
	SH	eP	06 02.0		
5	MH	eP	03 46 15.1	c	USCGS: Samoa Islands, O = 03 34 55.
	F	eP	21.0	c	
	R	eP	31.5	c	
	SH	eP	24.1	d	
7	B	eP	16 32 46.7	c	Tehachapi Aftershock Berkeley Magni- tude 5.
	MH	eP	36.4		
	R	eP	59.5		
	SH	e	33 21.3		
7	MH	eP	21 27 30.7		
	R	eP	45.0		
	SH	eP	39.0		
7	MH	eP	22 04 18.6		USCGS: 43° N, 144° E, O = 21 53 31.
	SH	eP	17.4		
9	MH	iP	06 18 56.4		
	F	e(P)	58.5		
	R	e	19 21.2		
	SH	eP	18 59.0		
9	MH	e	09 49 23.5		USCGS: Near East Coast Hokkaido, Japan, O = 09 38 17.
	SH	eP	48 22.6		
10	MH	eP	00 29 04.7	c	USCGS: 52½°N, 173°W, h = 100 km, O = 00 21 48.
	F	epP	28.3	c	
	F	eP	18.0	c	
	R	epP	41.0		
	R	eP	04.5	c	
	R	epP	26.5		
	SH	eP	28 44.3		
	SH	epP	29 09.3		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 12	MH	eP	06 50 08.3	c	USCGS: Off North West Coast of Sumatra, O = 06 31 03.
	R	eP	06.0	c	
	SH	eP	00.7	c	
12	MH	eP	16 07 34.2		USCGS: 35½°N, 140½°E, O = 15 55 51.
	F	eP	43.5		
	R	eP	33		
	SH	eP	20.0		
13	MH	eP	03 21 28.1	c	USCGS: Eastern Kamchatka, O = 09 29 40. USCGS: 6°N, 83°W, O = 11 55 50.
	F	eP	33.4	c	
	R	eP	40.0	c	
	SH	eP	35.2	c	
13	SH	eP	09 38 40.6		
13	MH	eP	12 03 45.0	c	
	R	eP	47.5	c	
	SH	eP	04 01.5	c	
13	F	eP	21 25 00.9	d	USCGS: 900 Miles Southwest of Azores, O = 21 11 11.
	R	eP	24 55.3	d	
	SH	eP	25 02.3	d	
14	B	iP'	16 20 08.1	c	USCGS: Near South Coast of Indo China, O = 16 01 07.
	F	eP'	10.5	c	
	R	eP'	08.1		
	SH	eP'	01.8	c	
14	B	iP	23 29 37.2	c	USCGS: 6°S, 155°E, O = 23 16 42.
	BG	eSE	40 04		
		eSSE	46 22		
		eRE	56.9		
	MH	eP	29 38.7	c	
		e(PP)	32 50.0		
	F	eP	29 45.5	c	
		e	30 00.5	c	
	R	eP	29 47.0	c	
		e	30 03.0		
		e	33 35.0		
		e	58.5		
		eSEZ	41 26.0		
	SH	eP	29 38.5	c	
	C	eP	39		
		e	33 24		
15	MH	iP	01 48 07.9	d	USCGS: Fiji Islands Region, O = 01 37 02.
	F	eP	12.1	d	
	R	eP	20.5	d	
	SH	eP	15.3	d	
15	MH	eP	19 31 20.8	d	
	R	eP	29.5		
	SH	eP	37.4	c	
16	B	eP	14 04 31.5		USCGS: Solomon Islands Region, O = 13 51 35. Berkeley Magnitude 6-3/4, Pasadena Magnitude 6¼.
		i	05 01.4		
	MH	eP	04 37.9		
	F	eP	42.0		
	R	eP	44.0		
	SH	e(P)	33.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 16	F	e	17 06 46.0		
	R	e	23.0		
	SH	e	23.0		
16	MH	eP	21 43 55.2	c	
	F	e	44 01.5		
	R	e	08		
	SH	eP	43 59.5	c	
17	F	eP'	04 44 30.5		USCGS: 19°S, 65°E, 0 = 04 24 23.
	R	eP'	29.0		
	SH	eP'	25.5		
17	MH	eP	07 13 22.6		Off South Coast of Hawaii.
		eT	48 52		
17	B	eP	11 01 51	c	USCGS: 6°S, 155°E, 0 = 10 48 53.
	MH	eP	51.2	c	
	F	eP	57.0	c	
	R	eP	02 00.0	c	
	SH	eP	01 50.0	c	
	C	iP	51		
17	MH	eP	16 16 19		USCGS: 30½°N, 91½°E, 0 = 16 02 05, Pasadena Magnitude 7¼ - 7½.
		e(P')	19 47		
		ePP	20 42		
		i	55.6		
		e	31 03.0		
	F	eP	16 23		
		e(P')	19 30.0		
		ePPE	41.0		
		e	31 53.5		
	R	eP	16 18.5		
		e	20 12.5		
		ePP	33.5		
		eSKSN	27 07.0		
		eFKKP	32 07.0		
		e	25.5		
	SH	eP	16 01.5		
		e(P')	19 26.5		
		iPP	20 21.6		
		eSKSNE	26 50.5		
		ePKKP	32 09.5		
		eP'P'	40 09.5		
	C	eP	15 49		
18	BG	eP	13 17 22.0	c	USCGS: Central Chile - Argentine Border Region, 0 = 13 04 50. Berkeley Magnitude 7-3¼.
		eSEZ	27 35		
		eQN	46.1		
		A T			
		PZ	1.8 5		
		SH	5¼ 10		
	MH	eP	13 16 53.7	c	
	F	eP	17 11.5	c	
	R	eP	21.0	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 18	R	eSEZ	13 26 38.9		
	SH	eP	17 30.3	c	
		eSN	27 55.0		
	C	ePE	17 49		
		eSE	28 31		
	BG	eQN	00 08.6		
		eREZ	14.3		
	MH	e(P)	00 28.1		USCGS: About 100 miles off Coast of Oaxaca, Mexico, 0 = 23 54 10.
	F	eP	11.5		
	R	eP	31.0		
18	MH	eP	00 05 34.1		Off South Coast of Hawaii.
		iT	41 44.0		
19	MH	iP	14 12 52.5	c	USCGS: 16°N, 60½°W, 0 = 14 03 00.
	F	eP	49.4	c	
	R	eP	43.5	c	
	SH	iP	56.1	c	
	C	eP	13 06		
20	MH	e	05 55 58.1		USCGS: 16°N, 92°W, h = 200 km, 0 = 05 49 28.
	F	e	44.5		
	M	eP	10.9		
	R	e	56 05.5		
	SH	eP	55 13.0		
20	BG	e(S)NE	09 49.4		
	R	e	26 11.5		
	SH	eP	56.8		
20	B	ePNE	15 26 34	d	USCGS: 43°N, 127°W, 0 = 15 24 59. Berkeley Magnitude 6, Pasadena Magnitude 7 - 7¼.
	MH	eP	44.3	d	
	F	eP	27 05.2	d	
	M	iP	26 15.5	d	
	A	eP	25 50.0		
	R	eP	26 40.4		
	SH	ePNEZ	00.3		
	C	iP	25 53		
21	MH	eP	07 11 33.3		
	M	e	05.3		
	SH	eP	10 56.5		
21	MH	eP	11 53 11.8		
	M	eP	52 44.0		
	SH	eP	35		
21	MH	iP	16 30 07.5	d	USCGS: 20°S, 178½° W, h = 600 km, 0 = 16 19 04.
	F	eP	11.6	d	
		e	31 09.0		
		epP	32 13.0		
	M	eP	30 16.5	d	
		epP	32 18		
	R	ep	30 20.2	d	
		ePcP	32.5		
		epP	32 24.0		
		epPP	34 39.0		
	SH	iP	30 15.4	d	
		epP	32 44.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 22	B	iP	22 42 19.2	d	Pasadena: 35° 20' N, 118° 55' W, O = 22 41 23.8, Magnitude 5-3/4. Berkeley Magnitude 6 1/4.
	MH	iP	09.1	d	
	M	eP	45.7		
	F	iPNEZ	41 50.3		
	R	eP	42 30.2	c	
	A	eE	43 07.0		
	SH	ePNZ	42 52.6	c	
	C	eFE	43 51		
23	M	eP	07 32 34.5		
	SH	iP	30.9		
23	B	iP	10 10 16.3	c	Tehachapi Aftershock Berkeley Magnitude 5.
	MH	eP	06.4	c	
	M	eP	42.2	c	
	F	iP	09 47.3	d	
	R	eP	10 25.5	d	
23	MH	eP	14 31 10.4	c	
	M	eP	21.3	c	
	F	eP	30 56.9	c	
	R	eP	31 06.0		
		e	10.0		
		e	43.5		
	SH	eP	25.0	c	
24	MH	eP	12 57 45.1	d	USCGS: Bonin Islands, O = 12 45 40.
	F	eP	56.5	d	
	M	eP	38.2	d	
	R	eP	52.0	d	
		eSE	13 07 50.5		
	SH	eP	34.7	d	
25	M	eP	02 02 55.1		USCGS: ASSAM, O = 01 44 42.
	SH	eP	03 00.5		
26	B	iP	10 26 22.9	d	USCGS: About 100 miles Southeast of Honshu, Japan, O = 10 14 24.
	MH	iP	26.6	d	
	M	iP	17.9	d	
	R	eP	27.5	d	
	SH	i(P)	14.1	d	
26	MH	iP	18 34 01.7	c	USCGS: Tonga Islands Region, h = 250 km, O = 18 22 46.
	F	iP	06.1	c	
	R	eP	15.3	c	
	SH	e(P)	09.5	d	
		e	15.6	d	
27	B	iP	11 34 08.3	c	USCGS: 55 1/2° N, 160° W, h = 60 km, O = 11 27 54.
	BG	eSN	38 46		
		eQN	41.2		
		eRNEZ	42.0		
	MH	eP	34 10.8		
		iP	20.2	c	
		i	21.8	d	
		ePP	35 29.0		
		e(PcP)	37 04.2		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 27	MH	e	11 37 13.2		
	F	eP	34 24.0		
		epP	34.1	d	
	R	eP	06.1	c	
		epP	16.3	d	
		e(S)E	39 11.5		
	SH	eP	33 47.4		
		ipPNEZ	57.6		
		eSNE	38 38.0		
	F	eP	19 23 02.5	c	
27	R	eP	12.0	c	
	SH	eP	07.5	d	
27	MH	e	22 05 40.2		USCGS: 52 1/2° N, 170° W, h = 60 km, O = 21 58 36.
	R	e	34.0		
	SH	eP	19.5	c	
28	MH	eP	00 30 38.2		
	R	eP	36.5		
	SH	eP	18.2	d	
28	B	eP	10 59 00.5		USCGS: Andreanoff Islands Aleutian Islands, O = 00 22 39.
		ipP	11.6	d	
		ePcP	11 01 57.5		
	BG	eSE	04 04		
	MH	eP	10 59 06.9	d	
		ipP	18.0		
		ePP	11 00 21.5		
		iPcP	01 58.0		
		e(ScP)	05 35.8		
	F	eP	10 59 19.7		
		ipP	30.9		
		eSE	11 04 35.5		
	R	eP	10 59 02.5		
		epP	13.5		
		eSNEZ	11 04 08.5		
		e(ScP)	05 34.0		
	SH	eP	10 58 43.0	d	
		epP	54.0	d	
		eSE	11 03 33.0		
		e(ScP)	05 26.0		
	C	ePE	10 58 19		
28	B	eP	13 08 38.5		USCGS: 34° S, 106° W, O = 12 57 04
	BG	eSNE	17 16		
	MH	eP	08 34.3		
	F	eP	28.0		
		eSE	18 00.0		
	R	eP	08 44.5		
		eSNE	18 33.5		
	SH	eP	08 51.5		
	C	eP	09 16		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Aug. 28	MH	eP ₁	14 41 40.8	d	USCGS: Indian Ocean, about 1800 miles South of Capetown, South Africa, O = 14 21 49.
	F	eP ₁	35.5	d	
	R	eP ₁	37.0		
		eP ₂	54.5		
28	SH	eP ₁	48.0	c	USCGS: 16°N, 91½°W, h = 150 km, O = 15 23 15.
	B	iP	15 29 58.2	c	
		iPP	32 21.6		
	MH	iP	29 52.6	c	
		ipP	30 22.5		
		iPP	32 20.0		
	R	eP	29 53.5	c	
		ePP	32 20.5		
	SH	eP	30 09.5		
		ePP	32 24.5		
28	MH	eP	22 43 27.0	c	
	F	eP	30.5	c	
	R	e(P)	40.0	c	
29	SH	iP	35.6	c	USCGS: Fox Islands, Aleutian Islands, h = 60 km, O = 16 15 05.
	MH	eP	16 22 13.7		
	F	e	27.0		
	R	e(P)	11.5		
	SH	e	21 52.5		
	B	eP	04 57 00.0	d	
30	MH	iP	56 50.0	d	Pasadena: 35° 19' N, 118° 30' W, O = 04 56 00.0, Magnitude 5 ± . Berkeley Magnitude 5¼.
	F	iP	29.1	d	
	R	eP	57 08.7	d	
	SH	eP	32.3		
30	BG	iE	15 30 33.5		USCGS: 32° N, 41° W, O = 14 59 13.
		eLNZ	36.2		
	MH	eP	09 55.6		
	F	eP	46.0		
	R	eP	39.5		
	SH	eP	48.5		
31	B	iP	16 20 43.1	c	
	BG	iSNEZ	29 47		
		eREZ	41.6		
	MH	eP	20 47.7	d	
	F	eP	56.5	c	
	R	eP	35.5		
	SH	eP	32.0	c	
Sept. 2	MH	iP	07 36 41.4	d	USCGS: 13°S, 167°E, O = 07 24 16.
	F	eP	47.0	d	
	R	eP	50.7	c	
	SH	eP	43.9		
2	M	eP	18 46 21.4		
	R	eP	34.5		
	SH	eP	18.7		
	R	eP	20 34 00.5	d	USCGS: North of Ryukyu Islands, O = 20 21 25.
	SH	iPNEZ	33 48.7	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 5	B	eP	05 31 17.7	c	USCGS: 6°S, 155°E, O = 05 18 25.
	MH	eP	19.8	c	
	M	eP	21.2	c	
	R	eP	28.8	c	
6	SH	eP	18.1	c	
	MH	eP	03 48 04.1	d	
	F	eP	09.2	d	
	R	eP	18.0	d	
6	SH	eP	14.1	d	
	MH	eP	14 42 24.2	c	
	F	eP	28.0	c	USCGS: Tonga Islands Region, O = 14 30 32.
	R	eP	38.0	c	
6	SH	ePEZ	32.7	c	
	MH	eP	15 40 20.6	d	
	F	eP	04.0		
	R	eP	28.5		
6	SH	e	51.2		
	R	eP	20 15 06.5	d	
	SH	eP	14 48.7	d	
6	SH	eP	21 48 25.5	d	
7	MH	eP	02 50 40.0	c	USCGS: 51°N, 173°W, O = 21 41 20. USCGS: 16°S, 177°W.
	F	eP	45.5	c	
	M	eP	48.9	d	
	R	eP	55.5	d	
	SH	eP	48.4		
7	B	iP	04 37 30.5	c	
		ipP	42.5	d	
	MH	iP	36.7	c	
		epP	48.2	d	
	F	eP	49.0	c	
		epP	38 00.0		
	M	eP	37 21.7	c	
		i	27.7		
	R	eP	35.5		
		epP	47.5		
	SH	iPNEZ	16.4	c	
		ipP	28.0		
7	R	e(P)	05 18 00.0		
	SH	eP	17 28.0		
		epP	39.5		
7	B	iP	09 39 53.5	c	
		epP	40 04.5		
	MH	iP	39 59.5	c	USCGS: 51½°N, 173°W, h = 60 km, O = 09 32 39.
		i	40 10.9	d	
	F	eP	12.0		
		epP	23.0		
	M	iP	39 44.3	c	
		epP	55.5		
	R	eP	59.0	c	
		epP	40 10.5		
	SH	eP	39 37.7	d	
		epP	51.2		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 7	SH	eP	10 01 47.1		USCGS: Andreanof Islands, Aleutian Islands, 0 = 09 55 20.
7	SH	eP	22 27 04.5		USCGS: Andreanof Islands, 0 = 22 19 50.
7	MH	eP	22 31 05.3	d	USCGS: Bonin Island Region, h = 500 km,
	M	eP	30 58.7	d	0 = 22 19 48.
		epP	33 10.5		
	R	eP	31 08.0	c	
	SH	eP	30 54	c	
8	B	iP	21 55 52.7	c	USCGS: 10°S, 161°E, 0 = 21 43 10.
		epP	56 01.0		
	MH	eP	55 54.3	c	
		epP	56 02.0		
	R	eP	03.5	c	
	SH	eP	55 54.8	c	
		epP	56 03.8	d	
8	SH	eP	22 28 39.3	c	Solomon Islands Aftershock, 0 = 22 15 55.
9	B	eP	13 02 56.0	c	USCGS: 9°N, 84½°W, 0 = 12 54 42,
		i	57.7	d	Berkeley Magnitude 6-3/4 - 7, Pasadena
		ipP	03 02.6	c	Magnitude 6-3/4 - 7.
		iPP	04 47.4		
	BG	eSNE	09 41	NE	
		eGE	13.0		
		eRNE	15.5		
			A T		
	SH		9.2 8		
	Max H		292 20		
	MH	eP	13 02 51.2	c	
		i	52.2	d	
		ipP	55.6		
		eSE	09 33.0		
	F	eP	02 36.5	c	
		epP	44.0	c	
		eE	52.0		
		ePP	04 22.0	d	
		eSE	09 09.5		
	M	eP	03 01.5	c	
		i	03.0	d	
		i	06.2		
		ePP	04 44.5		
	A	e(P)E	03 21.0		
	R	eP	02 52.5	d	
		ePP	04 42.0	d	
		eSE	09 34.5		
	SH	eP	03 07.2		
		ipFEZ	13.1		
		iPP	04 51		
	C	iP	03 35		

Date	Sta	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 10	MH	eP	02 33 11.7	c	USCGS: 22°S, 179½°W, 0 = 02 20 57.
	F	eP	15.0	c	
	SH	eP	19.6		
10	MH	iP	12 58 30.3	d	
	F	eP	34.0	d	
	M	eP	39.5	d	
	R	eP	44.5	c	
	SH	eP	37.6		
11	B	eP	05 36 36.5		USCGS: 9°N, 85½°W, 0 = 05 28 32.
		ipP	45.0		
	MH	iP	26.3	c	
		epP	35.9		
	F	eP	18.5	c	
	M	e	42.3		
	R	eP	31.5		
	SH	e(P)	44		
11	MH	eP	05 57 04.0		
	F	eP	06.0		
	M	eP	02.3		
	R	eP	07.5		
11	B	iP	08 43 18.8	c	
	MH	iP	17.4	c	
	F	eP	13.5	c	
	M	eP	08.3	d	
	R	eP	12.5	d	
	SH	eP	12.4		
11	SH	e	22 23 00.9		USCGS: Celebes Sea, 0 = 22 03 44.
11	B	eP	22 39 11		USCGS: 29°S, 177°W, 0 = 22 26 41.
		epP	27.0		Berkeley Magnitude 6½ - 7.
	BG	ePP	42 37		
		eSNEZ	49 39		
		e(SS)	50 32		
		eQE	23 01 27		
		eRNEZ	05.3		
	MH	eP	22 39 16.6		
		epP	28.1		
	F	eP	20.0		
		epP	36.2		
	M	eP	26.5		
		ipP	37.2		
	R	eP	30.0		
		epP	40.0		
	SH	eP	24		
		ipP	36		
	C	eP	37		
11	MH	eP	23 35 46.8		USCGS: 29°S, 177°W, 0 = 23 23 13.
	F	e	51.0		
	R	e	36 27.5		
	SH	e(P)	35 55.7		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 11	MH	iP	23 49 15.1		
	F	e	23.5		
	M	eP	06.5		
	SH	eP	32.7		
13	R	eP	01 38 06.0		USCGS: Near Islands, Aleutian Islands, O = 01 29 16.
	SH	eP	37 39.0		
		epP	50.0		
14	B	iP	06 03 03.3		USCGS: 25°S, 179°E, h = 550 km, O = 05 51 30.
	MH	eP	03.5		
	F	eP	07.5		
	M	iP	12.6		
	R	eP	15.5		
	SH	eP	11.1		
15	MH	eP	04 03 51.9		
	M	eP	50.7		
	SH	e	29		
	C	iP	02 59		
15	MH	e	11 13 33.7		USCGS: Central Chile - Argentine Border, h = 100 km, O = 11 01 27.
	F	e(P)	14 03		
	M	e	20.0		
	SH	eP	23.1		
15	B	eP	14 11 09.0		USCGS: Near Coast of Colima, Mexico, h = 100 km, O = 14 05 45.
	BG	eSN	15 36		
		eEZ	21.5		
	MH	eP	10 57.1		
	M	eP	11 18.5		
	SH	eP	24.6		
16	MH	eP	17 45 15.0		USCGS: West Central Argentine, O = 17 32 35.
	F	eP	15.0		
	R	eP	19.0		
	SH	eP	30.0		
16	MH	eP	22 35 20.5		USCGS: Near South Coast of Kyushu, Japan, O = 22 22 47.
	R	eP	21.0		
	SH	eP	08.9		
16	BG	ePP	23 48 56		
	MH	eP	44 39.6		
		ePP	48 47.0		
	F	eP	44 18.0		
		ePP	48 25		
	M	eP	45 00.5		
		ePP	49 13.5		
	R	eP	44 44.0		
	SH	eP	45 16.5		
17	B	iP	01 27 49.3	c	USCGS: 17½°S, 179°W, h = 600 km, O = 01 16 53.
		epP	29 47.5		
	MH	iP	27 50.1	c	
		epP	29 49.0		
	F	iP	27 54.5	c	
		epP	29 54.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 17	M	iP	01 27 59.5	d	
		epP	30 00.2		
	R	eP	28 03.0		
		epP	30 02.5		
		eSN	37 21.5		
	SH	eP	27 56.5		
		epP	29 56.5		
	C	iP	28 08		
17	MH	eP	21 57 41.8		
	SH	eP	29		
18	MH	eP	07 58 11.4		
	F	e	55.0		
	SH	e	17.8		
18	MH	e	08 55 40.9		
	M	iP	54 51.8		
	R	e	55 15.4		
	C	iPNZ	53 56		
19	MH	e	14 44 59.6		USCGS: Solomon Islands, O = 14 31 04.
	F	e(P)	23.0		
		i	46.0		
	R	e(P)	08.0		
	SH	e	13.7		
20	MH	eP	09 13 56.7	c	
		e	14 05.9		
	F	eP	01.5	c	
		e	10.9		
	M	eP	08.8	c	
		i	17.9		
	R	eP	10.5	d	
	SH	eP	06.1		
			16.8		
20	MH	eP	20 42 36.5	c	USCGS: About 300 miles Southeast of Honshu, Japan, O = 20 30 40.
	F	e	42.5		
	M	eP	27.7	c	
	R	eP	37.0	c	
	SH	ePEZ	24.4	c	
20	MH	iP	21 21 21.3		USCGS: 16½°S, 77°W, O = 21 10 15.
	F	e(P)	22.0		
	R	eP	33.0		
20	MH	eP	21 56 23.1	d	
	M	eP	19.0	d	
	R	eP	27.5	d	
	SH	ePEZ	16.2	d	
21	BG	iP	02 42 19.5	d	USCGS: 22½°S, 65°W, h = 250 km, O = 02 30 30. Pasadena Magnitude 7¼.
		ipPNEZ	43 24.5	d	
		ePP	45 21		
		epPEZ	46 23		
		iSNE	52 02.5	NE	
		esS	54 02		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
Sept. 21	MH	eFNZ	02 42 15.6	d		
		ipP	43 20.2			
	F	eSN	51 54.5			
		eP	42 06.5	d		
		epP	43 11.9			
		eS	51 34.5			
		e(ScS)E	58.5			
	M	e(sSP)NE	53 33.5			
		ipP	42 24.2	d		
	A R	ipP	43 30.8			
		e	42 36.5			
		eP	17.5	d		
		epP	43 24.0			
		eSN	51 57.6			
		eP'P'	03 08 47.0			
		eSKPP'	12 30.0			
		SH	ePNEZ	02 42 27.7	d	
			i(PcP)	34.6		
		C	ipP	43 33.0		
	eSP		44 08.3			
eSNEZ	52 15					
eSP	53 14					
eP'P'	09 02					
ipP	42 43					
ipP	43 50					
iSN	52 44					
21	SH		eP	07 43 43.8	c	
	MH		ipP	08 59 01.3		USCGS: 20 $\frac{1}{2}$ °S, 180° O = 08 46 50.
F		eP	04.5			
M	ipP	09.9				
	e	13.5				
SH	eP	08.8				
	B	eP	11 23 47.5		USCGS: 33 $\frac{1}{2}$ °N, 142°E, O = 11 12 09.	
BG		eSE	33 22			
	eRNEZ	23 51.0	d			
F	e(P)	24 00.3	d			
	eP	23 42.2	d			
M	eP	52.5	d			
	e(P)	38.8				
SH	eP	24				
	e(P)	24				
22	SH	eP	02 46 53.1	c		
	epP	47 06.7				
22	MH	eP	09 34 23.3	c	USCGS: 55 $\frac{1}{2}$ °N, 162 $\frac{1}{2}$ °E, h = 60 km, O = 09 25 15.	
	F	e(P)	34.0	c		
M	eP	07.0	d			
	eP	19.5	c			
SH	eP	02.3	d			
	B	ipP	11 42 10.3	d	40° 12' N, 124° 25' W, O = 11 41 25, Magnitude 5.2.	
ifNZ		43 27.8				
		iSNE	56.0			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
Sept. 22	MH	ipP	11 42 22.2	d		
		SF	ePE	13.7		
	M	ipP	01.0	c		
		F	eP	42.0	d	
	R	eP	22.2	c		
		A	iPE	41 39.6		
	Fe	ipNE	36.0			
		SH	ipNZ	54.0		
	22	MH	eP	17 34 38.1		USCGS: 20 $\frac{1}{2}$ °S, 67°W, h = 150 km, O = 17 22 57.
		F	e(P)	56.5		
M	e	35 17.9				
	R	eP	34 39.5			
SH	epP	35 09.0				
	ePEZ	34 50.7				
23	MH	eP	02 18 27.8	c	USCGS: San Juan Province, Argentina, O = 02 06 00.	
	F	eP	20.0			
M	eP	37.2	d			
	R	e(P)	32.0	c		
SH	eP	39.7				
23	SH	ePNEZ	15 48 59.2			
24	MH	eP	07 26 07.5		USCGS: Off Coast of Guatamala, O = 07 19 00.	
	F	e(P)	25 45.0			
M	eP	26 14.2				
	R	e(P)	00.5			
SH	eP	18.2				
24	MH	eP	17 49 07.0	d	USCGS: 7°S, 75°W, O = 17 38 41.	
	F	eP	48 55.5	d		
M	eP	49 18.2	d			
	R	eP	08.8	d		
SH	eP	48 50.6	c			
	24	B	ipP	20 35 28.9	c	USCGS: 56 $\frac{1}{2}$ °N, 157°W, h = 100 km, O = 20 29 30.
epP		46.5				
MH	eP	34.5	d			
	epP	53.5				
F	eP	47.0	d			
	epP	36 05.5				
M	ipP	35 15.5				
	ipP	34.6				
R	eP	29.3	d			
	epP	48.5				
SH	eSNZ	40 28				
	ipNEZ	35 09.9	d			
C	ipP	29.4				
	ePP	36 05.7				
C	i(PcP)	38 20.4				
	eSNE	39 52.0				
C	e(ScP)NZ	41 53.1				
	eP	34 41				
25	epP	59				
	MH	eP	09 07 30.1		USCGS: 44 $\frac{1}{2}$ °N, 28°W, O = 08 56 30.	
F	eP	25.0				

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 25	M	eP	09 07 16.5		
	R	eP	13.5		
26	MH	iP	12 40 18.5	c	USCGS: About 500 miles South of Fiji Islands, O = 12 28 48.
	F	eP	22.5	d	
	M	eP	27.2	d	
	SH	eP	26.2	c	
26	F	eP	17 33 39.0		USCGS: New Hebrides Islands, O = 17 21 00.
26	R	eP	17 45 44.0		USCGS: Solomon Islands Region, O = 17 32 38.
	SH	e	45.3		
26	R	e	17 58 07.0		USCGS: Solomon Islands Region, O = 17 44 55.
	SH	e	57 54		
27	MH	eP	06 41 08.0	c	USCGS: Andreanof Islands, Aleutian Islands, O = 06 33 20.
	F	e(P)	51.5		
	M	eP	40 56.0		
	R	e	41 07.0		
	SH	eP	48.2		
27	B	eP	19 15 21.7	c	USCGS: 50 $\frac{1}{2}$ °N, 157°E, h = 100 km, O = 19 05 40.
		epP	45.7		
		ePP	17 41.5		
	BG	eSN	23 12.5		
		eNEZ	39.5		
	MH	iP	15 26.5	c	
	F	iP	36.8	c	
		ePP	17 46.0	c	
		eSN	23 42.0		
	M	iP	15 12.7	c	
		ipP	29.1		
		e	17 25.5		
	R	eP	15 24.5	c	
		epP	41.8		
		eSN	23 16.5		
	SH	iPNEZ	15 08.7		
		ePcP	59		
	C	iP	14 47		
		eS	22 06		
28	MH	iP	02 26 34.2		USCGS: 58 $\frac{1}{2}$ °N, 137°W, O = 02 21 20.
	M	iP	02.7		
	R	e	18.0		
	SH	ePNZ	25 58.1		
28	F	e	03 13 41.0		USCGS: Tonga Islands Region, O = 03 02 06.
	SH	e	44.5		
28	MH	eP	06 03 35.8		USCGS: Kermadec Islands, O = 05 50 49.
	F	eP	38.0		
	M	e	43.5		
	SH	eP	34.5		
28	MH	e	12 15 28.3		
	F	e(P)	33.5		
	M	eP	38.2		
	R	eP	43.3		
	SH	eP	46.4		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Sept. 28	B	eP	14 35 17.9	d	
	MH	eP	16.1	d	
		ePP	38 35.7		
	F	ePP	37.0		
	M	eP	35 20.2		
		ePP	38 43.8		
	R	ePP	41.5		
	SH	iP	35 21.0	d	
		iPP	38 44.7		
28	B	eP	22 08 32.0	c	USCGS: 29°N, 142°E, O = 21 56 36.
	MH	eP	35.2	d	
	F	eP	44.5	c	
	M	eP	27.2	d	
	R	eP	37.0	d	
	SH	eP	23.7	c	
29	MH	eP	01 17 18.9		USCGS: Kermadec Islands, O = 01 04 40.
	F	eP	22.0		
	M	iP	28.3		
	R	eP	32.0		
	SH	eP	27.3		
30	B	ePP	13 10 13		USCGS: 28 $\frac{1}{2}$ °N, 102°E, O = 12 52 00, Pasadena Magnitude 6 $\frac{1}{2}$.
	BG	iSKSE	16 39.0		
		eSSNE	24 51		
		eSSSNE	28 44		
		e(Q)NE	33 46		
		eRNE	39.0		
	MH	e	09 09.9		
		ePP	10 16.5	c	
	F	ePP	26.5	c	
		eSKS	16 39.0		
	M	eP	05 56.6		
		e	09 44.5		
		ePP	10 18.9	c	
		eSKS	16 24.2		
	R	eP	06 04.5		
		ePPNEZ	10 14.5		
		eSKSE	16 30.5		
	SH	eP	05 44.0		
		ePP	09 47.5		
		eSKSNEZ	16 24.5		
	C	eP	05 26		
30	MH	eP	14 34 26.7	d	USCGS: 29 $\frac{1}{2}$ °S, 178°W, O = 14 21 52.
	F	eP	29.5	d	
	M	eP	35.2	d	
	SH	eP	46.5	d	
		eNEZ	35 41.0		

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BERKELEY—MOUNT HAMILTON—PALO ALTO
SAN FRANCISCO—FERNDALE—FRESNO
MINERAL—ARCATA—RENO—CORVALLIS—SHASTA

Earthquakes and the Registration of Earthquakes

From October 1, 1952, to December 31, 1952

BY
DON TOCHER
AND
EUGENE L. KESSLER



UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
1954

SEISMOGRAPHIC STATIONS OF THE UNIVERSITY OF CALIFORNIA

Perry Byerly, Director

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

and

REGISTRATION OF EARTHQUAKES AT: BERKELEY, MOUNT HAMILTON,
PALO ALTO, SAN FRANCISCO, FERNDALE, FRESNO, MINERAL, ARCATA,
CORVALLIS, SHASTA AND RENO

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SEISMOGRAMS READ BY:

Carolyn H. Pendery

John E. Meeker

Charles Herrick

UNIVERSITY OF CALIFORNIA PRESS

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EARTHQUAKE INTENSITY SCALE

Intensities are given by Roman numerals in the list of California, Nevada, and Oregon earthquakes on the following page, when sufficient information on the effects of the shock is available. Criteria of the Modified Mercalli Scale which are used to rate the intensity are:

Intensity

- II Felt by a few people only. Duration or direction not appreciable.
- III Duration or direction appreciable.
- IV Rattling of doors and windows; swinging of suspended objects.
- V Disturbance of movable objects; plaster cracked.
- VI Overthrow of movable objects; cracking of chimneys and other brickwork.
- VII Fall of some chimneys; some damage to buildings.

EARTHQUAKE MAGNITUDE SCALE

Richter magnitudes given in the list of epicenters on the next page are found from the Wood Anderson amplitudes, using the nomogram given by Nordquist, "Bulletin of the Seismological Society of America", 32:164.

The list following this page gives Latitude and Longitude of epicenters for earthquakes well enough recorded to permit such a determination. The "Map No." in the first column refers to the map immediately following the epicenter list. The letter given in the column headed "Quality" represents the excellence with which the epicenter has been located, a indicating excellent, b good, c fair, d poor.

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EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Times are given in Greenwich Civil Time. Subtract 8 hours to get local (Pacific Standard) time.

Map No.	Date 1952	Origin Time (G.C.T.)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
1	Oct. 3	08-30-32	1.7	37° 44'	122° 08'	b	Southeast Oakland.
2	4	12-40-15	3.7	40° 35'	124° 25'	c	10 miles west of Ferndale. Depth 15 km.
3	8	05-34-26	2.8	41.7°	122.3°	d	18 miles ESE of Yreka.
4	13	00-34-09	4.2	37° 45'	122° 11'	b	Near Dimond District, Oakland. Felt generally in Bay area. Outer limits of felt area include Jenner, east to Calistoga, southeast to Vacaville, to Ben Lomond, an area of about 3500 square miles. A maximum intensity of V reported from the Dimond District, Oakland.
5	17	05-00-13	3.2	40° 12'	124° 14'	c	25 miles south of Ferndale.
6	17	11-34-39	4	40° 40'	121° 45'	c	23 miles north of Mineral.
7	22	00-45-52	4	37° 53'	122° 22'	b	5 miles NW of Berkeley. Felt throughout Bay area. Maximum intensity of IV at Berkeley, Oakland, Richmond and San Francisco.
8	24	13-53-45	2.4	36.7°	121.5°	d	11 miles SSW of Hollister.
9	25	14-36-20	3.5	40.1°	120.7°	d	12 miles NE of Quincy.
10	25	19-31-44	1.9	37° 55'	122° 10'	a	5 miles NE of Berkeley.
11	26	11-36-40	4.3	40° 05'	120° 46'	b	12 miles NE of Quincy. Aftershock Magnitude 3.3 at 15-28-55.
12	29	00-46-29	2.3	37° 12'	122° 13'	b	15 miles south of Palo Alto.
13	29	15-11-33	1.4	37° 42'	122° 02'	b	16 miles SE of Berkeley.

Map No.	Date 1952	Origin Time (G.C.T.)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
14	Oct. 31	10-28-24	3.5	41° 20'	123° 18'	c	45 miles SW of Yreka.
15	Nov. 8	19-37-54	3.4	37° 39'	122° 28'	b	South of San Francisco.
16	13	00-55-16	4.8	38.5°	118.5°	d	Near Hawthorne, Nev.
17	14	08-05-42	4.2	38.6°	118.6°	d	Near Hawthorne, Nev.
18	14	23-24-18	4.2	38.6°	118.0°	d	Nevada.
18	14	23-33-07	4.1	38.6	118.0	d	Nevada.
19	15	02-29-52	4.3	39.1°	117.7°	d	Nevada.
19	15	04-38-10	4.0	39.1°	117.7°	d	Nevada.
20	15	22-56-50	3.8	40° 28'	121° 20'	b	15 miles NE of Mineral.
20	16	07-03-56	3.8	40° 28'	121° 20'	b	15 miles NE of Mineral.
21	16	21-29-45	4.1	41° 00'	124° 25'	c	18 miles NW of Arcata.
22	18	04-04-08	4.6	39.8°	117.7°	d	35 miles NW of Austin, Nevada.
23	19	10-06-27	3.1	35.9°	121.9°	d	26 miles SE of King City.
24	20	11-33-17	4.0	38.6°	117.7°	d	45 miles NW of Tonopah, Nevada.
25	21	23-27-25	2.4	38° 24'	122° 40'	b	4 miles SE of Santa Rosa.
26	22	02-12-10	2.8	36° 38'	121° 05'	b	10 miles west of Llanada.
27	22	07-46-37	6.0	35° 44'	121° 12'	b	6 miles north of San Simeon.
27	22	08-02-40	3.2	35° 44'	121° 12'	b	Aftershock.
27	22	08-29-47	3.1	35° 44'	121° 12'	b	Aftershock.
27	22	08-53-04	3.4	35° 44'	121° 12'	b	Aftershock.
27	22	11-08-44	3.1	35° 44'	121° 12'	b	Aftershock.
27	22	11-45-31	3.1	35° 44'	121° 12'	b	Aftershock.
27	22	12-38-44	3.0	35° 44'	121° 12'	b	Aftershock.
27	22	13-37-31	4.0	35° 44'	121° 12'	b	Aftershock.
27	22	19-25-21	3.9	35° 44'	121° 12'	b	Aftershock.

TEHACHAPI AFTERSHOCKS

Below are given the 1st arrival times for aftershocks of Magnitude 4.0 and greater of the major earthquake near Tehachapi, Kern County, California on July 21, 1952.

Date	Sta.	Phase	Time(GCT)	Ground Motion	Pasadena Location and Magnitude
1952			h. m. s.		
Oct. 2	B	iP	23 11 18.4		35° 24' N, 118° 38' W, 0 = 23-10-20.6 Magnitude 4.2.
	MH	eP	08.5		
	F	eP	10 47.2		
	M	i	11 49.7		
	R	e	29.5		
Oct. 20	B	eP	18 15 43.5		35° 19' N, 118° 30' W, 0 = 18-14-43.2 Magnitude 4.3.
	MH	eP	33.5		
	F	eP	13.6		
	M	eP	16 10.7		
	R	eP	15 57		
Nov. 7	B	iP	08 56 32.8		35° 00' N, 119° 05' W, 0 = 08-55-35.0 Magnitude 4.6.
	MH	eP	22.0		
	F	iP	05.2	d	
	R	eP	44.4		
	SH	e	57 10.1		
Nov. 11	B	eP	17 23 05.0		35° 09' N, 119° 03' W, 0 = 17-22-07.8 Magnitude 4.2.
	MH	iP	22 55.0	d	
	F	iP	35.9	d	
	M	iP	23 33.1	d	
	R	eP	17.1	d	
Nov. 11	B	i	18 13 34.5		34° 57' N, 119° 01' W, 0 = 18-12-25.2 Magnitude 4.1.
	MH	iP	15.2	c	
	F	eP	12 56.5	d	
	M	iP	13 53.6	c	
	SH	eP	40.8		
Dec. 1	B	iP	05 27 09.5		35° 00' N, 118° 50' W, 0 = 05-26-10.3 Magnitude 4.4.
	MH	eP	26 59.9	d	
	PA	eP	27 04.6		
	SF	ePE	11.4		
	F	iP	26 41.4	d	
	M	iP	27 37.5	c	
	R	eP	21.5		
	SH	eP	46.5		
Dec. 25	B	iP	05 57 33.9	c	35° 20' N, 118° 28' W, 0 = 05-56-33.4 Magnitude 4.1.
	MH	iP	24.0	c	
	PA	eP	30.2	d	
	F	eP	02.5	d	
	M	eP	59.9	d	
	R	iP	54.5		

THE REGISTRATION OF EARTHQUAKES

at

BERKELEY, MOUNT HAMILTON, PALO ALTO, SAN FRANCISCO, FERNDALE

FRESNO, MINERAL, ARCATA, RENO, CORVALLIS AND SHASTA

All large regional shocks and all distant earthquakes are tabulated on the following pages. Earthquakes in the Northern California, Nevada and Oregon region are included only if of magnitude 5 or greater, or if of special interest. Times of distant shocks are not normally included for Palo Alto, San Francisco, or Ferndale except in cases of defective records at Mount Hamilton, Berkeley, or Arcata, respectively. Communications regarding readings of seismograms should be addressed to Seismographic Station, University of California, Berkeley 4, California. Readings from the Corvallis Station are sent to the University of California by the courtesy of Dr. H. R. Vinyard, Oregon State College.

Station	North Latitude	West Longitude	Altitude Meters	Feet	Station Symbol	Present Auspices and Date Established
Berkeley	37° 52.3'	122° 15.6'	81	266	B, BG*	University of California - 1887
Mt. Hamilton	37° 20.4'	121° 38.6'	1281.7	4205	MH	Lick Observatory - 1887
Palo Alto	37° 25.1'	122° 10.8'	83	272	PA	Stanford University - 1927
San Francisco	37° 46.4'	122° 27.2'	100	328	SF	University of San Francisco - 1931
Ferndale	40° 34'	124° 16'	17	55	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 21'	121° 35'	1495	4906	M	National Park Service Lassen Volcanic National Park - 1938
Arcata	40° 52.6'	124° 04.5'	60	195	A	Humboldt State College - 1948
Reno	39° 32.3'	119° 48.8'	1386	4546	R	University of Nevada - 1948
Corvallis	44° 35.1'	123° 18.2'	133	405	C	Oregon State College - 1950
Shasta	40° 41.7'	122° 23.3'	312.4	1025	SH	Bureau of Reclamation - 1942

*B denotes readings of short period instruments, BG of long period instruments (12 sec. Galitzin-Wilip).

STATION EQUIPMENT

Berkeley:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.
- 3 - Long-period Galitzin-Wilip.
- 2 - Horizontal-component 100 kg. Bosch-Omori.

Mt. Hamilton:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Palo Alto:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

San Francisco:

- 1 - Horizontal-component Wood-Anderson torsion.

Ferndale:

- 2 - Horizontal-component 25 kg. Bosch-Omori.

Fresno:

- 3 - Components short-period Sprengnether.

Mineral:

- 2 - Horizontal-component Wood-Anderson torsion.
- 1 - Short-period vertical-component Benioff.

Arcata:

- 2 - Horizontal-component Wood-Anderson torsion.

Reno:

- 3 - Components short-period Sprengnether.

Corvallis:

- 3 - Components short-period Slichter.

Shasta:

- 3 - Components short-period Benioff.

For all stations, the three components are indicated by N, E, Z in the "phase" column. When no letter appears, the phase is read from the vertical component only. "i" (impetus) preceding a phase designates sudden beginning of the motion; "e" (emersio) designates gradual beginning.

In the column headed "Ground Motion", "c" or "d" indicates compression or dilatation of the ground as indicated by the vertical component instrument. N, S, E or W indicates that ground motion was north, south, east, or west, respectively.

Maximum amplitude of earth displacement in microns (A) and period in seconds (T) of the indicated phases are given for the Berkeley station in the column headed "Time (GCT)". Combined horizontal amplitude of N and E components are designated by H.

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks		
1952			h. m. s.				
Oct. 1	BG	eN	01 51 39		USCGS: 49° N, 129° W, 0 = 01-47-03.		
	MH	e	50 08.1				
	F	eP	25.6				
	R	eP	49 54.0				
	SH	ePEZ	26.4				
	C	iP	48 35				
	1	B	eP	01 56 29.0		c	USCGS: 49° N, 129° W, 0 = 01-53-33.
	MH	eP	38.6	c			
	F	eP	55.0	c			
	R	eP	34.0				
SH	ePEZ	55 55					
		eS	57.9				
	C	iP	54 04				
1	B	eP	09 13 35.0				
		eN	54.0				
		eE	10 04.0				
	MH	eP	09 13 35.0		USCGS: 43° N, 143° E, 0 = 03-10-12.		
		e	41.1				
		e	14 51.6				
	F	eP	13 37.5				
		eP	42.0				
	SH	eNZ	14 09.5				
		e(P)	13 37.7				
	1	B	eNE	42		c	
		MH	iP	12 27 44.8		c	
		F	eP	43.6		c	
	R	eP	40.5	c			
	R	eP	54.0	c			
2	M	iP	03 21 08.6				
	R	e	23.0				
2	SH	eP	04.5				
	B	eP	13 15 44				
	BG	eSNE	25 39				
		eNE	36.5				
	eNE	37.0					
	MH	eP	15 45.6	d			
	F	eP	49.0	d			
	M	eP	59.6	d			
	R	eP	16 00.0	c			
	SH	eP	15 55.6	c			
3	MH	eP	07 42 16.8	c	USCGS: 6½° N, 83° W, 0 = 07-30-30.		
	F	e	21.0	c			
	M	eP	24.1	c			
	R	e	31.5	c			
3	B	eP	07 45 29.3	c	USCGS: 6½° N, 83° W, 0 = 07-36-45. Berkeley Magnitude 6 to 6½.		
		e	36.0	d			
	ePcP	46 55.5	c				
	ePP	47 04.0					
	eSNE	52 26.5					
	eSSN	56 16.5					
	e(R)N	08 01.0					

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
			A T		
		PZ	1.5 5		
		SH	40 12		
	MH	eP	07 45 23.9	c	
		e	46 17.5		
	F	eP	45 10.0	c	
		e	17.0		
		e(PPP)	47 42.5		
	M	eP	45 34.2		
		ePcP	46 59.3		
		ePP	47 05.2		
	R	eP	45 24.0		
		eSE	52 22.0		
4	B	eP	16 48 21		
	F	eP	26.5		
	M	eP	30.8		
	R	eP	35.0		
4	M	eP	20 19 28.5	d	
	R	eP	28.0	d	
5	M	eP	11 08 21.6	d	USCGS: Near Coast of Greece,
	R	e	23.5	c	0 = 10-55-00.
5	BG	eREZ	23 01.9		USCGS: 37° N, 93° E, 0 = 22-04-28.
	F	eP	22 18 25.0	c	
	M	eP	00.7	d	
		i	06.5		
		ePP	21 52.8	d	
	R	eP	18 06.5		
	C	eP	17 42		
6	M	iP	01 41 42.9	d	USCGS: Near Kenai Peninsula,
	R	e	42 55.0		0 = 01-35-53.
6	B	eP	14 17 52.5	c	USCGS: Central Peru
	MH	eP	46.8	d	h = 100 km, 0 = 14-07-01.
	F	eP	37.0	e	
	M	eP	58.2	d	
	R	eP	49.5	d	
6	B	iP	22 38 54.3	c	USCGS: 53½° N, 161° E, 0 = 22-29-35.
	MH	eP	39 00.5	c	
	F	eP	12.0	c	
	M	eP	38 45.8	d	
	R	eP	58.2	d	
	SH	ePNEZ	40.9	c	
7	MH	e(P)	04 40 20.6		USCGS: Near Coast of Northern Chile,
	M	e(P)	27.3		0 = 04-28-30.
	R	eP	39 52.0		
	SH	e(P)	40 14.0		
7	M	eP	04 50 41.6		
	SH	e(P)	33.0		
7	MH	eP	06 44 33.3		
	M	eP	06.6		
	SH	eP	43 57.6		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
7	MH	e(P)	06 46 16.4		
	M	iP	45 50.7		
	R	e(P)	46 24.5		
	SH	e	45 27.7		
	C	eP	29		
7	MH	eP	06 58 31.0	d	
	M	eP	05.5	d	
	R	e	29.2	d	
	SH	eP	11.5		
7	B	e(P)	07 04 59		USCGS: 42° N, 127° W, 0 = 07-03-36.
	MH	e(P)	05 10.6		
	F	e	31.0		
	M	eP	04 44.0		
	SH	eP	34.6		
	C	eP	36		
7	MH	e	07 11 21.5		
	M	eP	10 54.4		
	R	e	11 52.5		
	SH	eP	10 46.3		
7	MH	e	07 19 00.6		
	M	eP	18 34.8		
	SH	eP	26.3		
7	B	eP	07 31 53.5		USCGS: 42° N, 127° W, 0 = 07-30-32.
	MH	eP	32 03.6		
	F	eP	26.0		
	M	eP	31 37.8		
	R	e(P)	32 03.0		
	SH	iP	31 29		
	C	eP	29		
7	MH	e	08 00 29.6		
	M	eP	04.4		
	R	e	38.0		
	SH	eP	07 50 25.5		
7	B	eP	08 45 21.0		USCGS: 42° N, 127½° W, 0 = 08-43-57.
	MH	eP	27.8		
	F	e	53.0		
	M	eP	01.9		
	R	e	37.5		
	SH	eP	44 52.4		
	C	eP	53		
7	SH	ePEZ	16 15 19.0		
		eSE	16 26		
8	MH	eP	03 32 27.3		
	M	eP	40.6		
	R	e	28.5		
	SH	eP	45		
8	B	eP	14 36 57		USCGS: 39° N, 113° E, 0 = 14-24-02.
	MH	eP	58.6		
	F	eP	37 12.5		
	M	eP	36 48.3		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
8	R SH MH F M R SH	e eP eP eP eP eP ePNEZ	55.5 45.4 20 37 01.6 17.5 36 39.5 52.9 34.4	c c c c c	USCGS: South Western Alaska, O = 20-30-10.
8	BG MH F R SH	eLNE eP e eP e(P)	21 40.8 37 12.9 25 30.9 57.4	c c c	USCGS: Lower California, O = 28° N, 114° W, O = 21-34-22.
9	M SH	eP eP	08 49 08.3 02.0	d d	
9	B	eP	16 55 28.8	c	
9	M	iP	21 08 22.7	c	
10	SH B BG F M R SH	eEZ eP iSN eP i eP e(S)N eP i e e(S)E	40.5 16 06 58 15 37 07 08.5 13.8 21.0 20.0 17 10.5 07 11.9 12.8 26.4 14 44	d c c c c c c c c	USCGS: Samoa Island Region, O = 15-55-35. Pasadena 6¼ - 6½
10	BG F M	eGN ePP eP'	19 39.6 07 01.0 06 32.0	c	USCGS: 30½° N, 69° E, O = 18-47-37.
10	MH F M R SH	ePP eP' eP' eP' eP'	07 21.5 21 28 47.9 50.5 43.8 47.5 42	d d d d c	
10	M R SH	eP ipP eE eP epP	21 59 36.0 48.3 57.0 31.5 43.7	c c c c	USCGS: Northern Alaskan Peninsula, h = 100 km, O = 21-53-46.
10	MH M R SH	eP eP eP iP e	22 50 06.6 49 57.5 50 06.5 49 24.4 39	c c c c	
10	MH F	eP e	22 52 38.5 43.0	c	USCGS: Off coast of Colima, Mexico, O = 22-47-00.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
11	R BG MH F M R SH	e(P) eSE eP e eP eP eP	43.5 00 38 32 27 38.3 28 20.5 27 33.5 37.5 22		USCGS: 6°S, 149°E, O = 00-13-59.
11	B MH F M R SH	eP' eP' eP' eP' eP' eP'	01 43 42.0 40.3 36.5 35.3 32.5 36.0		USCGS: Northwestern Bechuanaland, Africa, O = 01-24-01.
12	M R SH	eP eP eP	04 40 11.8 02.0 15.1		
12	M R SH	eP eP eP	06 42 58.6 50.0 59.4	c c c	
12	M	iNEZ eP ePP	17 44 39.5 46 12.4		
12	SH	eP	18 00 00.4		
13	M SH	eP eP e	07 08 01.2 02.7 17.3	d c	
13	SH M SH B BG	ePEZ e eNZ iP eSNE eNE eRNZ	19 20 36 21 01 45.1 00.7 23 36 59.9 47 54 24 00.7 07.5	c	USCGS: 20°N, 73½°W, O = 20-52-20. USCGS: 34°S, 178°W, O = 23-24-10.
14	F R SH MH M	eP e eP eP eP i e ePNEZ e	23 37 05.0 15.5 12.2 22 11 12.0 10 56.1 11 02.5 10 57.0 58.2 11 05.4	d d d c c c c c	USCGS: 48°N, 70°W, O = 22-03-41.
14	B BG	eP eSN eLNE eRNEZ	00 04 32.5 11 30 20.2 22.2		USCGS: 8½°N, 83°W, O = 23-56-03.
	MH F	eP eP	04 26.0 14.0	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	eP	38.7	d	
	R	eP	26.0	d	
15	SH	eNZ	41.7		
	MH	eP	00 22 05.5		USCGS: 36°N, 141 $\frac{1}{2}$ ° E, 0 = 00-10-25.
	F	e(P)	25.0		
	M	e	24 35.1		
	SH	ePEZ	21 52.8		
15	MH	eP	02 24 26.5		USCGS: Northern Chile, h = 100 km, 0 = 02-12-29.
		epP	55.0		
	F	epP	52.5		
	M	eP	35.1		
	R	eP	28.0		
		epP	56.0		
	SH	iPNZ	38.8		
		eNE	46.4		
15	M	eP	02 38 31.6		
	SH	eP	27.8		
	M	eP	02 59 37.1	c	
	SH	eP	30.3	c	
15	MH	eP	13 39 45.0	d	
	M	eP	36.6	d	
	SH	eP	34.7	d	
15	B	eP	19 14 54.5		USCGS: 43° N, 145 $\frac{1}{2}$ ° E, 0 = 19-04-00.
		ipP	15 09.5		
	MH	eP	14 59.8	c	
		ipP	15 11.0		
	F	e(pP)	18.5		
	M	iP	14 47.7	c	
		ipP	59.6		
	R	eP	58.5	c	
		epP	15 09.6		
	SH	eP	14 43.3	c	
		epP	55		
16	B	eP	09 59 00.5		USCGS: 41 $\frac{1}{2}$ ° N, 142° E, h = 60 km, 0 = 09-47-51.
		e	15.2		
		ipP	19.3		
	MH	eP	04.0	c	
		epP	23.0		
	M	eP	58 53.2	c	
		i	59 08.7		
		ipP	11.5	c	
	R	eP	03.5	c	
		epP	22.7		
	SH	eP	58 49.5	c	
		epP	59 05.5		
16	MH	eP	20 34 01.0		USCGS: Santa Cruz Islands Region, 0 = 20-21-25.
	M	eP	05.1		
	R	eP	11.5		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	SH	ep	02.1		
16	MH	e	22 07 13.0		
	M	e	23.6		
	SH	e(P)	06 36		
		e	07 26.6		
	C	eP	06 19		
17	MH	ep	03 29 33.0		
	F	e	30 12.5		
	M	eP	29 29.3		
	R	e(P)	39.0		
	SH	ePNEZ	26.0	d	
		e	32.8	c	
		e	34.0		
17	MH	eP	07 44 47.5		USCGS: 5 $\frac{1}{2}$ ° S, 175 $\frac{1}{2}$ ° W, 0 = 07-33-15.
	F	eP	51.5		
	M	eP	55.6		
	R	eP	45 01.0		
	SH	ePNEZ	44 55.5		
17	M	e	10 27 45.7		
	SH	ePEZ	37.4		
17	MH	eP	15 27 10.8		
		epP	24.0		
	M	eP	26 59.0		
		ipP	27 11.2		
	R	eP	11.0		
		epP	22.0		
	SH	ePNEZ	26 55.0	c	
		epP	27 07.5		
17	MH	eP	19 02 41.5		
	M	eP	42.0		
	R	eP	46.0		
	SH	eP	33.7		
17	F	eP	19 36 45.0		USCGS: Samoa Islands, 0 = 19-25-34.
	M	eP	52.0		
	R	eP	56.0		
	SH	e	36.8		
18	MH	eP	00 57 55		
	SH	e	58 40.8		
18	B	eP	05 35 11.5	c	USCGS: 16° S, 168° E, 0 = 05-22-32.
		i	22.4	c	
		e	36 59.5		Pasadena Magnitude 6 $\frac{1}{2}$ to 6 3/4.
		ePP	38 29		
	BG	eSNE	45 54		
		ePSNEZ	46 54		
		eSSNE	50 51		
		eSSSN	55 22		
		eQN	51.6		
		eRNEZ	01.2		
	MH	eP	05 35 12.5	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
152			h. m. s.		
	F	i ePP eP epP ePP	22.5 38 31.5 35 18.5 38.8 38 41.0	c c	
	M	eP i i ePP	35 18.5 29.2 38.5 38 35.6	c c	
	R	eP e e	35 23.0 34.5 44.0	c c	
	SH	eP iNEZ eE e ePPN	17.2 28.7 44 36 04.6 38 49	c	
18	B	eP e MH F M R SH	12 08 56.2 09 48.7 08 54.5 46.5 51.5 44.0 55.4		USCGS: 13° N, 46° W, 0 = 11-57-36.
	C	eP	35 34		
18	B	eP e BG	20 44 39.2 45.5 53.9		USCGS: 16° S, 173° W, 0 = 20-33-14.
	MH	eQNE eR	21 03.1 06.2		
	MH	eP	20 44 40.0	c	
	F	eP	43.5	c	
	M	eP	48.7	c	
	R	eP	52.5	c	
	SH	eP	48.7	c	
18	M	iEZ eP'	21 43 54.6 44 12.3		USCGS: 36½° N, 71° E, h = 200 km, 0 = 21-26-12.
19	MH	eP	03 50 57.5	d	USCGS: 63½° N, 19° W, 0 = 03-40-33.
	M	eP	39.3		
20	B	eP	01 13 02		USCGS: 57° N, 57° W, 0 = 01-04-35.
	MH	eP	12 59.5	c	
	F	e	13 09.0		
	M	iP	12 43.8	c	
		i	56.5		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	R	eP	40		
	SH	eP	14.0	c	
20	MH	iP	04 54 58.5		
20	B	eP	14 40 33.1	c	
	MH	ipP eP	40.1 36.5	c	
	F	ipP eP	42.0 44.5	c	
	M	epP eP	52.0 30.4	c	
	R	epP eP	36.8 38	c	
	SH	epP	46		
20	B	ePNE eP	30.7 14 48 18.9	d	
	MH	eP	22.5	d	
	F	eP	29.5	d	
	M	eP	15.4	d	
	R	eP	24	d	
20	SH	ePE	13.2		
	B	eP	15 18 01.3		USCGS: Mariana Islands about 500 miles north of Guam, 0 = 15-05-45.
	MH	ipP eP	08.5 17 54.0		
	F	ipP eP	18 01.0 12.0		
	M	eP	17 57.0		
	R	epP eP	06.5 18 07		
	SH	ePNE	17 55.9		
20	C	eP	45		
	M	eP	16 27 14.2		USCGS: Central Kamchatka, h = 60 km, 0 = 16-18-00.
	R	eP	26		
	SH	ePNE	09.6		
21	M	e	02 19 47.5		USCGS: 9½° N, 84½° W, 0 = 02-11-25.
	R	e	36		
	SH	e	21 29		
21	B	eP	02 39 02.4		USCGS: 9½° N, 84½° W, 0 = 02-30-46.
	F	eP	38 43.0		
	M	eP	39 07.8		
	R	eP	38 56		
21	SH	eP	39 10.3		
	B	e(P)	05 00 45.5		
	SH	ePe	25		
21	B	eP	06 17 21.5	c	USCGS: 9½° N, 84½° W, 0 = 06-09-05.
	F	eP	01.5	c	
	M	eP	24.9	d	
	R	eP	14½	d	
	SH	e	30.7		
21	B	eP	06 44 00.0		USCGS: 9½° N, 84½° W, 0 = 06-35-14.
	F	eP	43 39.5		
	M	eP	44 05.2		
	R	e	43 54		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
21	M	iP	13 17 34.0		
	R	eP	42		
	SH	eP	30.8		
21	M	eP	14 39 03.4	d	
	SH	eP	01.5	d	
		iNEZ	02		
		i	43.1		
22	M	eP	03 56 15.7	d	USCGS: 18° S, 174° W, 0 = 03-44-30.
	SH	eP	14.6	d	
22	SH	eP	17 14 26		USCGS: Southern Turkey, 0 = 17-00-35.
22	B	e	19 51 57		USCGS: 32° N, 113½° W, 0 = 19-46-36.
	F	eP	48 26.0		
	M	e	49 17.8		
	R	eP	48 51		
	SH	e(P)	49 20		
23	M	eP	07 03 55.4		USCGS: Bonin Islands, 0 = 06-51-48.
	SH	ePNEZ	52.5		
25	M	i	03 27 20.6		USCGS: Off East Coast Hokkaido, Japan, 0 = 03-16-35.
	R	e	31		
	SH	eP	16.4	c	
		e	26.6	c	
25	B	iP	14 34 40.2	d	USCGS: 26° N, 112° W, 0 = 14-31-09.
		i	45.1		
		i	50.6		
	BG	eSNE	37.5		
		eQNE	37.9		
	MH	eP	34 30.1	d	
		i	34.6		
	F	eP	12.0	d	
	R	eP	47	c	
	SH	ePNZ	35 11.7	c	
		eNEZ	16.7		
25	B	eP	18 12 20.5		USCGS: Lower California, 0 = 18-08-50.
		i	25.3		
	MH	eP	01.4		
		e	04.7		
	F	eP	11 49.5		
	M	eP	12 41.0		
	R	eP	26		
	SH	eP	49.1		
26	MH	eP	07 45 16.5		
	M	e	16		
	R	e	14		
	SH	e	44 41.9		
26	M	e	08 42 18.5		USCGS: Central Pakistan, 0 = 08-23-18.
	R	e	33		
26	B	iP	08 52 24.9	c	USCGS: 34½° N, 137° E, h = 300 km, Pasadena Magnitude 5 3/4 - 6.
		ipP	52 34.2	d	
		isP	49.7		
		ePP	54 04.5		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	BG	eSE	09 02.9		
		isSN	03 54		
		eGN	12.8		
	MH	iP	08 52 29.2	c	
		ipP	53 38.2	d	
	F	eP	52 37.0	c	
		epP	53 46.8	d	
	M	iP	52 19.5	c	
		epP	53 28.0	d	
		i	44.5	d	
	R	eP	52 30	c	
		ePcP	37		
		epP	53 40		
		ePP	54 10		
		esSN	09 04 02		
	SH	iP	08 52 16.5		
		epP	53 25.6		
	C	eP	52 01		
		epP	53 09		
26	MH	eP	13 31 38.5		USCGS: 39° N, 143° E, 0 = 13-20-14.
	F	eP	49.0		
	M	eP	24.9		
	R	eP	35		
	SH	eP	21.5		
	C	e	03		
26	MH	eP	14 41 20.2	d	USCGS: 40° N, 143½° E, 0 = 14-30-04.
	F	eP	34.0	d	
	M	iP	13.7	c	
	R	eP	21		
	SH	eP	16.2		
26	B	iP	15 57 30.8	c	USCGS: 39° N, 143° E, 0 = 15-46-14.
		iPP	16 00 14.6	c	
	BG	eSNE	06 41		
	MH	eP	15 57 33.3	c	
		ePP	16 00 17.9		
	F	eP	15 57 44.5	d	
		ePP	16 00 28.0		
	M	eP	15 57 23.8	c	
		ePP	16 00 04.7		
	R	eP	15 57 34	c	
		ePP	16 00 19		
	SH	eP	15 57 19.3	c	
		ePP	16 00 02		
	C	eP	15 57 03		
26	B	eP	16 04 19.5	c	USCGS: 39° N, 143° E, 0 = 15-53-03.
		i	27.9	c	
	M	eP	23.0	d	
	F	eP	32.5	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	iP	12.8	c	
	R	eP	23	c	
		eSN	13 39		
	SH	eP	04 19.1		
	C	eP	03 52		
26	B	eP	18 13 16.0	c	USCGS: 39° N, 143° E, 0 = 18-02-00, Pasadena Magnitude 6 $\frac{1}{2}$.
	BG	iSNEZ	22 29		
		eNE	31.4		
	MH	eP	13 19.2		
	F	eP	30.5		
	M	iP	07.0		
	R	e(P)	22		
		eSE	22 35		
	SH	eP	13 05.3		
		e	14 36.0		
		e	16 41		
26	B	eP	19 30 33.0		USCGS: 30 $\frac{1}{2}$ ° N, 143 $\frac{1}{2}$ ° E, 0 = 19-19-12.
		i	43.0		
	BG	iSNE	39 46		
	MH	eP	30 38.5	c	
	F	eP	46.0	c	
	M	eP	27.6	c	
	R	eP	37	c	
	SH	eP	23.1	c	
	C	eP	05		
26	B	eP	19 34 48.0		
	MH	eP	54.2		
	F	eP	35 00.5		
	R	e	34 52		
	SH	eP	37.4		
26	F	e(P)	20 25 54.0		USCGS: Off Northeast Coast Honshu, Japan, 0 = 20-14-26.
	M	e	26 09		
26	B	iP	20 38 40.0	c	USCGS: 40 $\frac{1}{2}$ ° N, 143° E, 0 = 20-27-28.
	MH	e	53.3	c	
	F	e	51.0		
	R	eP	44	c	
	SH	eP	29.0	d	
		i	29.7	c	
	C	eP	13		
26	B	eP	22 11 51.5		USCGS: 40° N, 143 $\frac{1}{2}$ ° E, 0 = 22-00-38.
	MH	eP	50.2		
	F	e(P)	12 04.0		
	R	eP	11 54		
	SH	eP	40.9		
	C	e	22		
27	M	eP	00 01 01.0		
	R	eP	08		
	SH	eP	00 58		
27	B	eP	03 28 29		USCGS: 39° N, 143° E, 0 = 03-17-12.
	BG	eSEZ	37 41.5		Pasadena Magnitude 6 $\frac{1}{2}$.
		eN	42.0		
		iNF	17 04.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	MH	eP	28 31.0	d	
		i	35.6		
		i	29 04.9		
	F	eP	28 45.5	d	
		eSE	38 04.5		
	M	iP	28 23.1	c	
		i	27.2	d	
	R	eP	33		
		eSE	37 48		
	SH	eP	28 18.8	d	
		i	23.9		
		i	44.6		
	C	i(P)	06		
27	MH	eP	06 40 56.1	d	
	M	eP	53.5	d	
27	M	e	20 43 08.3		USCGS: Fiji Islands, h = 600 km, 0 = 20-31-58.
27	B	eP	23 06 44		
	MH	eP	42.8		
	F	eP	47.0		
	M	e	54.6		
	R	e	55		
	SH	e	53		
28	B	eP	04 38 23.5		USCGS: 18 $\frac{1}{2}$ ° N, 73 $\frac{1}{2}$ ° W, 0 = 04-29-51.
		i	29.3	c	
		i	58.5	c	
	BG	eSN	45 22		
		eNE	49 09		
		eRNEZ	55.3		
	MH	eP	38 18.4	c	
	F	eP	04.0	c	
	M	eP	21.8	c	
		i	27.6	c	
		i	39 43.0		
	R	eP	38 15		
	SH	eP	26	c	
		iEZ	35.6	c	
		e	39 28		
	C	eP	38 39		
		eSN	41 17		
28	B	eP	06 42 18.0		
		i	21.9		
	BG	eSNE	51.5		
	MH	eP	42 18.7		
	F	eP	29.3		
	M	i	19.3		
	R	e(P)	21		
		eSEZ	51 37		
	SH	eP	05.3	d	
		i	08.8	d	
		e(S)	49.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
28	M	e	16 36 25.7		
	R	e	41		
	SH	ePEZ	17.8	d	
28	B	eP	16 56 46		USCGS: 39° N, 143° E, 0 = 16-45-21.
	MH	e	40.1		
	F	e	57 02.5		
	M	eP	29.7		
	R	e	56 53		
	SH	eP	26.1	d	USCGS: Northern Alaska Peninsula,
29	M	eP	03 28 54.5	c	0 = 03-22-50.
	SH	e(P)	49.4		
29	F	e	06 58 58.0		
	M	e	21.9		
	R	e	36.5		
	SH	e	28.2		
	C	eP	22		
29	MH	e	09 12 30.7		USCGS: 52° N, 177° E, h = 100 km,
	M	e	15.3		0 = 09-04-20.
	R	e	52		
	SH	ePEZ	11.0		
		e(pP)	34.7		
29	MH	e	09 35 58.7		
	F	e	36 28.0		
	M	eP	35 36.1		
	R	eP	36 02.5		
	SH	eP	35 28.6		
	C	iP	34 56		
29	MH	iP	15 00 07.8	d	
		ipP	29.2		
	F	e	01 16.0		
	M	iP	14 59 44.2		
	R	eP	56.5		
	SH	ePNEZ	40.0	d	
	MH	eP	19 31 16.5	d	USCGS: 16½° S, 173½° W, 0 = 19-19-48.
	F	e(P)	30 23.5		
	M	eP	31 27.1	d	
	R	e(P)	32.0	d	
	SH	eP	26.6	c	
		eNEZ	32.4	d	
29	B	eP	19 45 33.5	d	USCGS: 17° S, 174° W, h = 150 km,
		epP	46 07.0		0 = 19-34-14.
		ePP	48 12.5		
	BG	eSNE	54 55		
		eNE	55.5		
	MH	ePEZ	45 33.4	c	
		i	34.4	d	
		i	43.3		
		iPP	48 15.9		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	iP	45 39.3	d	
		epPE	46 02.0		
		eSN	55.1		
	M	iP	45 44.4	d	
		iPP	48 31.0		
	A	eP	45 39.5		
	R	iP	49.0	d	
		epP	46 11.5		
		eSN	55 22		
	SH	iPNEZ	45 44.5	d	
		eNZ	48 33.1		
	C	iP	45 54		
		eSN	55 34		
31	MH	eP	15 28 24.8	d	
	F	e	32.0	d	
	M	e	01.7	c	
	R	e	08.0	c	
	SH	eP	01	c	
31	B	eP	16 48 34.4	c	USCGS: 39° N, 143° E, 0 = 16-37-14.
		i	47.6	c	
	MH	eP	36.2	d	
	F	eP	44.5	d	
	M	eP	26.2	d	
	R	eP	36.0	c	
	SH	eP	21		
31	F	e	17 00 11.5		
	M	eP	16 59 43.4	d	
	R	eP	53.0	c	
	SH	eP	39.2	c	
31	M	e(P)	00 05 14.2		USCGS: Sikang Province, China,
	SH	e(P)	09.0	c	0 = 23-51-37.
		eEZ	13.8	d	
Nov.					
1	MH	iP	05 40 41.9		USCGS: About 500 miles South of Fiji
		epP	42 30.3		Islands, h = 500 km, 0 = 05-29-06.
	F	eP	40 44.0		
		epP	42 33.5		
	R	eP	40 54.0		
		epP	42 42.5		
	SH	eP	40 49		
		epP	42 39		
1	B	eP	23 57 36.0	c	USCGS: 23½° S, 178° W, h = 150 km,
		i	38.1		0 = 23-45-36.
		epP	58 14.5		
	MH	iP	57 36.4	c	
		ipP	58 16.2		
		i	59 53.7		
		iPP	00 00 38.3		
	F	eP	23 57 40.5		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		epP	58 20.0		
		ePP	00 00 58.5		
		eSNZ	07 41.0		
		eP'P'	24 22.0		
	R	eP	23 57 49.1		
		epP	58 31.0		
		eSN	59 23		
	SH	eP	57 43.5		
		ipP	58 25		
	C	eP	57 52		
2	R	e	01 53 36		USCGS: Honshu, Japan, h = 60 km, O = 01-41-58.
4	SH	eP	22.2		
	B	eP	17 07 50.0	c	USCGS: 52 $\frac{1}{2}$ ° N, 159° E, O = 16-58-20, Berkeley Magnitude 8 $\frac{1}{2}$. Pasadena Magnitude 8 $\frac{1}{4}$.
		ipP	08 02.5	c	
	BO	ePPE	10 55		
		eSE	15 41		
		iNE	16 20		
		eGNE	21.2		
	MH	eP	07 52	c	
		ipP	08 02		
		i	06	c	
		eSE	15 42		
	F	eP	08 06.8	c	
		ipP	19.1	d	
		eS	15.9		
	M	ePNE	07 45		
	A	ePE	41.0		
		eSE	15 00.0		
	R	e	07 54.0		
	SH	eP	33.9		
		ipP	48.2		
		esS	16 02		
		isSS	19 20.2		
	C	eP	07 14		
		iSE	14 35		
		eLN	22 52		
4	MH	i	17 46 02		Kamchatka Aftershock.
	M	eN	45 51.5		
	A	ePNE	43.0		
	R	e	46 41		
	SH	ipP	45 48.2	c	
	C	ipN	21		
4	B	i(P)	18 38 17.5	d	USCGS: 59 $\frac{1}{2}$ °N, 160°E, O = 18-28-52.
	F	eP	33.5	c	
	M	ePNE	09.0		
	A	ePNE	00.0		
	R	eP	22		
	SH	ipP	05.7		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	C	ipN	37 44		
4	B	ipP	19 50 08.8	d	USCGS: 59 $\frac{1}{2}$ °N, 159 $\frac{1}{2}$ °E, O = 19-40-41.
	R	eP	11.5	d	
	SH	ipP	49 50		
	C	eP	25		
4	B	ipP	20 58 29.3	d	USCGS: 50°N, 157°E, O = 20-48-53.
		i	40.7	c	
	MH	ipP	34	d	
		i	47		
	F	eP	44		
		e	55.5		
		eSNE	21 06 49.0		
	A	eN	20 58 03		
	R	eP	32.2	d	
		eSNE	21 06 24.0	NE	
	SH	ipP	20 58 16.3	d	
	C	ipP	57 54		
4	B	eP	21 10 22.5		USCGS: 52 $\frac{1}{2}$ °N, 159 $\frac{1}{2}$ °E, O = 21-00-53.
		i	27.5		
	MH	eP	27	c	
	F	eP	37.8	c	
	R	eP	24.5	c	
		e(S)E	18 01.0		
	SH	eP	08.3		
4	B	ipP	22 02 29.1	d	USCGS: 50°N, 158 $\frac{1}{2}$ °E, O = 21-52-50.
		i	45.7	c	
	MH	ipP	34		
	F	eP	44.3	d	
	R	eP	32.5	d	
	SH	ipP	16.2		
		i	33.7		
	C	ipP	01 54		
4	B	eP	22 22 19.0	d	USCGS: 52°N, 161°E, O = 22-12-54.
		i	29.6	c	
	MH	eP	25	d	
	F	eP	35.6	d	
	R	eP	22.5		
		e	36.0		
	SH	eP	05.4		
	C	ipP	21 43		
4	B	i(P)	22 27 28.8	c	Kamchatka Aftershock.
	MH	eP	33	d	
	F	eP	43.9		
	SH	eP	15.1		
	C	eP	26 53		
4	B	eP	22 28 45.5	c	Kamchatka Aftershock.
	MH	i	52		
	F	eP	29 01.5	c	
	R	eP	28 49.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
4	SH	eP	32.5		Kamchatka Aftershock.
	C	iP	09		
	B	eP	22 51 39.0	c	
	MH	iP	44		
4	F	eP	54.3		Kamchatka Aftershock.
	R	e(P)	41.5		
	SH	eP	24.5		
	B	e	22 47 00.0		
4	MH	e	46 46		USCGS: 50°N, 158°E, 0 = 23-28-58.
	F	e	47 03		
	R	e	46 45.5		
	SH	eP	28.0		
4	B	eP	23 28 40.5	d	USCGS: 50°N, 158°E, 0 = 23-28-58.
	MH	e	50.5	d	
	F	iP	46	d	
	M	i	55	d	
4	R	eP	56.3	d	Kamchatka Aftershock.
	SH	eNE	32.5	d	
	R	eP	44.4	d	
	SH	iP	28.3	d	
4	C	e	36.0		Kamchatka Aftershock.
	B	iP	05		
	MH	eP	23 50 59.0	d	
	MH	e	51 07.0	d	
5	F	eP	05	d	Kamchatka Aftershock.
	R	i	12	d	
	SH	eP	15.1	d	
	R	eP	07.6	d	
5	SH	iP	50 45.1	d	Kamchatka Aftershock.
	B	e	53.7		
	M	e	00 20 22		
	R	eP	17 20		
5	R	eP	20.5		Kamchatka Aftershock.
	B	eP	07.5	d	
	MH	eP	00 26 03.0	d	
	R	e	16.5		
5	MH	iP	08		Kamchatka Aftershock.
	F	eP	17.8		
	R	e	05		
	SH	eP	25 49.0	c	
5	B	eP	00 53 42.5		Kamchatka Aftershock.
	MH	e	52.5		
	F	eP	48		
	R	eP	58.3		
5	SH	e	45.5		USCGS: 50½°N, 157°E, 0 = 02-19-58.
	B	eP	29 29 29.5		
	MH	iP	02 29 44.1	c	
	F	i	30 10.2	d	
5	SH	iP	29 50		Kamchatka Aftershock.
	MH	i	30 10		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
4	F	iP	59.0	c	Kamchatka Aftershock.
	R	eSN	38 35.0		
	MH	iP	29 47.2	c	
	F	e(P)E	30 00.5		
4	R	eSEZ	37 43.0		Kamchatka Aftershock.
	SH	e(sS)NE	38 10.5		
	C	iP	29 31.4		
	B	iP	07		
5	B	eP	02 48 32.5	d	Kamchatka Aftershock.
	MH	iP	38		
	F	eP	48.0		
	R	eP	35.5		
5	SH	iP	15.8	d	USCGS: 51½°N, 159°E, 0 = 03-29-44.
	B	eP	03 39 19.0		
	MH	i	33.5		
	F	eP	22	d	
5	R	e	47	d	Kamchatka Aftershock.
	SH	eP	31.5	d	
	R	e	37.5	d	
	B	eP	24.4	d	
5	SH	e	39.5		Kamchatka Aftershock.
	B	eP	03.5	d	
	MH	e(P)	04 20 20.2	c	
	R	e(P)	26		
5	SH	e	23.2		USCGS: 49°N, 156°E, 0 = 05-57-43.
	B	eP	07.5	d	
	MH	eP	06 07 37.8	d	
	R	i	49.2	c	
5	F	eP	35	d	Kamchatka Aftershock.
	R	e	41.0		
	SH	e	38.0		
	B	eP	14.6	d	
5	B	e(P)	06 17 16.5	d	Kamchatka Aftershock.
	MH	eP	22	c	
	R	i	19.5	d	
	SH	eP	02.5	c	
5	B	eP	07 15 50.0		Kamchatka Aftershock.
	MH	e	58.5		
	F	i	16 11	c	
	R	eP	06.0	c	
5	SH	iP	15 52.6	c	Kamchatka Aftershock.
	B	eP	36	c	
	MH	e(P)	07 33 11.0		
	F	e	04		
5	R	e	26.5		Kamchatka Aftershock.
	SH	eP	14.2	d	
	B	eP	32 42.4		
	MH	e(P)	07 44 55		
5	F	e	59		Kamchatka Aftershock.
	R	e	45 00.0		
	SH	e	44 57.7		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
5	B	e(P)	08 47 58.0		Kamchatka Aftershock.
	MH	eP	48 03		
	F	e	19.5		
	R	eP	03.8		
	SH	eP	47 44.1		
5	B	eP	09 08 03.0	d	Kamchatka Aftershock.
	MH	iP	08		
	F	eP	18.6	d	
	R	eP	06.2	d	
	SH	eP	07 49.8	d	
5	B	e(P)	09 11 57.5	c	Kamchatka Aftershock.
	MH	e	59		
	R	e(P)	57.5		
	SH	eP	40.5		
5	B	eP	09 14 30		Kamchatka Aftershock.
	MH	e	35		
	F	e	46.0		
	R	eP	33.0		
	SH	eP	17.2	d	
		e	33.1	d	
5	B	eP	09 39 33.8	c	Kamchatka Aftershock.
	MH	e(pP)	45.5		
	F	iP	41	c	
	R	eP	50.0		
	SH	e(pP)	40 02.0		
		iP	36.3	c	
	SH	eP	39 19.6		
5	B	i(pP)	10 24 31.6		Kamchatka Aftershock.
	MH	e(P)	36.5		
	F	e	58.0		
	R	eP	41		
	SH	e	51.5		
		e	25 15.5		
	R	eP	24 39.5		
	SH	eP	02.0	c	
5	B	e(P)	11 28 06.0	c	Kamchatka Aftershock.
	MH	e	11		
	F	e	10.5		
	SH	eP	27 43.4		
		e	57.9		
5	B	eP	11 44 10.3	d	USCGS: 51 $\frac{1}{2}$ °N, 159°E, 0 = 11-34-37.
	MH	e	21.5		
	F	i	45.3	c	
	SH	iP	16	d	
		ePP	46 20		
	F	eP	44 25.9	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	38.5		
	M	eNE	02.5		
	R	iP	13.6	d	
	SH	iP	43 57.1	d	
	C	eP	35		
5	B	eP	11 56 18.0	d	USCGS: 50°N, 157°E, 0 = 11-46-34.
	MH	e	57 11.5		
	F	eP	56 23	d	
	R	e	34		
	M	eNE	11.5		
	R	eP	21.5	d	
	SH	eP	53	d	
	C	e	55 44		
5	B	eP	13 15 52.5	d	USCGS: 52°N, 159 $\frac{1}{2}$ °E, 0 = 13-06-24.
	MH	i	16 12.5	d	
	F	eP	15 59	d	
	R	i	16 18		
		eP	08.5	d	
		e	28.0	d	
	R	eSE	23 59.5		
	SH	eP	15 55.0	d	
		eSNE	23 35		
		eP	15 38.2	d	
		i	58.2	d	
		e(S)	22.3		
	C	eP	15 16		
5	B	e	14 20 33.0	d	Kamchatka Aftershock.
	MH	eP	15		
	F	i	33		
	R	e	49.0		
	SH	e	37.0		
		eP	19 54.6		
5	B	iP	14 35 54.0	c	USCGS: 50°N, 156 $\frac{1}{2}$ °E, 0 = 14-48-41.
	MH	eP	59	c	
	F	eP	36 08.5	d	
	R	eP	35 56.0	d	
	SH	iPNEZ	40.7		
		e	36 01.8		
5	B	eP	15 04 53.0	d	Kamchatka Aftershock.
	MH	i	05 02.1		
	F	eP	04 58		
	R	i	05 08		
	SH	eP	55.0	c	
		eP	38.0		
5	B	e(P)	15 16 49.1	d	Kamchatka Aftershock.
	MH	e	54		
	F	eP	17 04.3		
	R	iP	16 52.3	d	
	SH	eP	35.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
5	B	e(P)	16 13 39		Kamchatka Aftershock.
	MH	e(P)	35		
	F	e	51.0		
	R	e(P)	32		
	SH	eP	14.6	d	
5	B	eP	16 44 34.0	d	Kamchatka Aftershock.
	MH	eP	40	d	
	F	eP	49.5	d	
	R	eP	39.0	d	
	SH	iP	20.9	d	
5	B	eP	16 51 06.0		Kamchatka Aftershock.
		i	08.1	c	
		e	28.5		
		e	56.0		
	MH	eP	14		
		e	40		
	F	eP	25.0	c	
	R	eP	04.5	c	
	SH	eP	50 46.4	c	
	C	eP	13		
5	B	i(P)	17 13 36.5	c	
	MH	e(P)	42		
	F	e(P)	52.0		
	R	e(P)	36.5		
	SH	eP	12.3	d	
		e	32.8		
5	B	eP	19 17 42.5	d	USCGS: 53½°N, 161½°E, 0 = 19-08-26.
		e	54.5	d	
	F	eP	58.9	d	
		e	18 11.8	c	
	R	eP	17 45.5	d	
		iSN	25 16.0		
	SH	iP	17 28.7	d	
		i	42	c	
	C	eP	05		
5	B	e(P)	19 22 01		Kamchatka Aftershock.
	F	e	13.5		
	SH	e(P)	21 45		
5	B	eP	19 44 52.0		
		e	45 03.5		
	MH	eP	44 56	d	
	F	eP	45 06.5	d	
	SH	iP	44 38.7	d	
5	B	iP	20 40 12.5	c	USCGS: 49°N, 159°E, 0 = 20-30-22.
		e	41 06		
	MH	iP	40 18	c	
		i	41 12		
	F	eP	40 27.5	c	
		e	43 01.0		
	R	eP	40 16.0	c	
	SH	iP	39 59.6	c	
	C	iP	38		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
5	B	iP	21 18 29.5	c	Kamchatka Aftershock.
	MH	e	25		
	R	eP	22.0		
	SH	iP	06.1	c	
5	B	eP	21 55 47		USCGS: 49½°N, 157°E, 0 = 21-46-00.
	MH	eP	48		
	F	eP	56 00.0		
	R	eP	55 46.5		
	SH	eP	31.5	d	
5	B	i(P)	22 55 39.0	c	USCGS: 53½°N, 160°E, 0 = 22-46-10.
	MH	eP	36		
	F	e(P)	47.5		
	R	e	34.0		
	SH	eP	14.4	d	
		i	25.0	c	
6	B	eP	01 08 00.5		
	MH	iP	06		
	F	eP	16.0		
	R	eP	02.0	c	
	SH	eP	07 45.7	d	
6	B	eP	02 33 22.0		
	MH	eP	20		
	F	eP	32.0		
	R	eP	20.3		
	SH	eP	03.5	c	
6	B	e	02 37 21.0		
	MH	e	36 56		
	F	e	37 39.5		
	R	e	28		
	SH	e	36 52.5		
6	B	eP	04 04 00.0	d	USCGS: 50°N, 158½°E, 0 = 03-54-21.
		e	22.0	c	
	MH	eP	05		
	F	eP	15.5	d	
	R	eP	03.5	d	
	SH	eP	03 46.9	d	
6	B	eP	05 51 40		Kamchatka Aftershock.
	MH	eP	44	c	
	F	eP	55.0		
	R	eP	41.2	c	
	SH	eP	24		
	B	iP	05 58 29.6	c	
	F	e	45.0		
	R	eP	34.5	d	
	SH	eP	16.6	d	
6	B	eP	11 06 41.0	c	USCGS: 52°N, 159½°E, 0 = 10-57-11.
		e	58.0		
	MH	eP	47		
	F	eP	56.5		
		e	07 14.0		
	R	eP	06 44.5	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
6	SH	eP	28.0	c	
	B	eP	11 21 13		Kamchatka Aftershock.
	MH	e	22		
	F	e	32.5		
	R	e	19.0		
6	SH	eP	01.8	c	
	B	eP	12 29 49.0		Kamchatka Aftershock.
	MH	eP	55		
	R	iP	52.5		
6	SH	eP	35.4	d	
	B	eP	12 51 38.0		Kamchatka Aftershock.
		i	53.0	c	
	MH	eP	43		
	F	e	52.0		
	R	eP	40.5		
6	SH	eP	25.2	d	
	B	iP	14 16 23.8	c	Kamchatka Aftershock.
	MH	eP	21	d	
	F	eP	31.5	d	
	R	iP	18.3		
6	SH	eP	01		
	B	e(P)	14 31 33.6	d	Kamchatka Aftershock.
	MH	e	32 02		
	F	eP	31 49.5	d	
	R	eP	30.9	d	
6	SH	eP	21.0	d	
	B	iP	17 59 25.2	d	Kamchatka Aftershock.
	MH	eP	30		
	F	eP	40.6		
	R	eP	25	d	
6	SH	eP	11.3	d	
	B	e	19 55 16		USCGS: 51½°N, 159½° E, 0 = 19-45-57.
	MH	e	35		
	SH	eP	15.2		
6	C	eP	54 54		
	B	iP	20 00 46.0	d	USCGS: 5°S, 145½°E, 0 = 19-47-20.
		ipP	01 02.8	c	
		ePP	04 47.5		
	BG	iNE	13 46		
		eGN	26¼		
		eREZ	30.6		
	F	eP	00 54.0	d	
		epP	01 13.0		
		ePP	04 57.0		
		eR	31.8		
	R	e(P)	00.8	d	
		epP	01 09	c	
	SH	eP	00 45.7	d	
		epPNZ	59.0	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e(S)E	11.2		
	C	eP	00 43		
		eS	11 46		
6	MH	eP	20 08 16	d	
	F	eP	21.5		
	R	eP	12		
	SH	eP	07 55.0		
7	B	iP	04 04 58.5	d	Kamchatka Aftershock.
		ipP	05 10.3	d	
	MH	iP	03	d	
	F	eP	13.6	d	
		ipP	25.8	d	
	R	iP	00.9	d	
		epP	10.9	c	
	SH	iP	04 44.8	d	
		ipP	54.6	c	
7	B	eP	06 35 26.0		Kamchatka Aftershock.
	MH	eP	31.0		
	F	eP	41.0		
	R	eP	28.2		
	SH	eP	11.9	d	
7	B	eP	06 59 26		Kamchatka Aftershock.
	MH	eP	30.5		
	R	eP	29.0		
	SH	eP	11.3	c	
7	B	eP	12 18 36	d	USCGS: 52°N, 161°E, 0 = 12-09-09.
		i	44.9	c	
	MH	iP	40.0	c	
	F	eP	51.0	c	
	R	eP	36.7	c	
	SH	eP	20.3	c	
	C	eP	17 57		
7	B	iP	13 51 09.9	c	USCGS: 52°N, 161°E, 0 = 13-41-45.
	MH	iP	14.0	c	
	F	eP	25.5	c	
	R	eP	11.8	c	
	SH	eP	50 55.3	c	
7	B	eP	14 18 16	c	USCGS: 49°N, 157°E, 0 = 14-08-25.
		epP	31.5		
	MH	eP	20.5	c	
		epP	35.0		
		i	19 41.5		
	F	eP	18 31.3	c	
		epP	46.5	c	
		eSNZ	27 08.0		
	R	eP	18 18.8	c	
	SH	ePNZ	02.4	c	
		epPNZ	19		
		eSNE	25 43		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
7	B	eP	20 58 35.7	c	USCGS: 26°N, 110½°W, 0 = 20-51-50. Berkeley Magnitude 6 3/4. Pasadena Magnitude 6 1/4.
		i	47.2	d	
		ipPNEZ	49.7	d	
	BG	eSNE	21 01.6		
	MH	eP	20 58 22.0	c	
	F	eP	08.5	c	
	R	eP	40.6	c	
		eSN	21 04 06		
	SH	ePNZ	59 05		
	C	eP	44		
7	B	eP	22 15 22.0		USCGS: 47°N, 155°E, 0 = 22-05-20.
	BG	eSEZ	23 34		
	MH	eP	15 27.0		
	F	eP	38.0		
	R	eP	25.7		
	SH	ePNZ	14 38		
7	B	eP	23 24 44		USCGS: 31°S, 177°W, 0 = 23-12-04.
		i	49.2	c	
		i	25 04.1		
	BG	eSNE	35.4		
	MH	eP	24 46.5		
	F	eP	50.0		
	R	e(P)	56.5		
	SH	e(P)	56		
7	MH	eP	00 50 33.5		Kamchatka Aftershock.
		epP	44.0		
	F	eP	44.0		
		epP	55.5		
	R	eP	31		
		epP	43.2		
	SH	eP	14.1		
		epP	25.6		
7	MH	iP	15 46 20.0		Kamchatka Aftershock.
	F	eP	31.0		
	R	eP	17.5		
		epP	30		
	SH	iP	01.0		
8	B	e(pP)	17 14 33.5		Kamchatka Aftershock.
	R	eP	20		
	SH	eP	01.8		
		ipP	21.5		
8	B	eP	19 43 15.5		USCGS: 48½°N, 156°E, 0 = 19-03-19.
	BG	iSNE	51 19.0		
		eQNE	57.6		
	MH	eP	43 17.5		
	F	eP	30.0		
	R	e	16		
	SH	eP	00.2	c	
		e	15.7		
8	MH	iP	23 41 33.0	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		ipP	37.5	d	
	F	eP	41.0	c	
	R	iP	34.8	c	
	SH	iP	22.0	c	
	C	eP	08		
9	B	iP	00 32 11.7	d	USCGS: 48½°N, 155½°E, 0 = 00-22-15.
		i	24.5	c	
	BG	eSNE	40.3		
	MH	eP	32 16.1	d	
		i	29.6	c	
	F	eP	27.0	c	
	M	eNE	04.5		
	R	iP	16.1	d	
	SH	eP	31 59.8	c	
	C	iP	38		
9	B	eP	01 27 06.0		USCGS: 52½°N, 160°E, 0 = 01-17-39.
	MH	eP	11.0		
	F	eP	23.0	d	
	R	eP	10.1	d	
	SH	eP	26 52.5		
	C	eP	34		
9	B	eP	04 44 56.5		USCGS: 49°N, 158°E, 0 = 04-35-05.
	MH	eP	45 01.0		
	F	eP	11.0	d	
	R	eP	00		
	C	eP	44 21		
9	B	eP	05 08 23.3	c	
	MH	iP	28.5	c	
	F	eP	37.5		
	R	eP	26.0		
	SH	eP	07.5	c	
9	B	eP	05 15 56.5	c	USCGS: 53½°N, 159½°E, 0 = 05-06-29.
	MH	eP	16 01.5	c	
	F	eP	11.5	c	
	SH	eP	15 42.1	c	
	C	eP	17		
9	B	eP	05 42 07.0		USCGS: 49½°N, 156½°E, 0 = 05-32-15.
		epP	19.5	c	
		ePcP	43 18.5		
	MH	eP	42 11.0	c	
		epP	28.5		
	F	eP	21.5	c	
		epP	37.5	c	
	R	eP	09.7	c	
		epP	26.2		
	SH	iP	41 53.1	c	
		epP	42 08.8		
	C	eP	41 31		
9	B	iP	06 06 43.4	d	USCGS: 49°N, 157°E, 0 = 05-56-54.
		ipP	58.1	c	
	MH	iP	48.0		
	F	eP	58.5	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	R	eP	46.7	d	
	SH	iP	30.6		
		epP	42.1		
9	C	iP	08		
	B	eP	12 32 37.5		
	MH	eP	42.5		
	F	eP	53.5		
	R	iP	40.8	d	
	SH	eP	24.5	d	
9	B	eP	14 48 17.0		
	MH	iP	22.5	c	
	F	eP	32.9	c	
	R	eP	19.5	c	
	SH	iP	02.0	c	
		e	29.4		
9	B	eP	15 32 20.5		
	MH	eP	26.0	d	
	F	eP	36.5		
	R	eP	23.5		
	SH	eP	07		
9	B	eP	15 41 32.5		USCGS: 45°N, 151½°E, 0 = 15-31-06.
	MH	eP	37.0		
	F	eP	45.0		
	R	eP	31		
	SH	eP	21.1	d	
	C	eP	40 59		
9	B	eP	15 57 19.0		
		ipP	32.3		
	MH	eP	24.0		
		ipP	35.5		
	F	eP	35.0		
	R	eP	21.8		
	SH	eP	05.2		
9	B	eP	20 51 58		
	MH	eP	52 01.5		
	F	eP	10.0		
	SH	iP	51 41.4		
10	B	eP	01 04 40.2	d	USCGS: 50°N, 158½°E, 0 = 00-55-00.
		i	57.4	c	
	BG	eSN	12 53		
	MH	iP	04 45.5	d	
	F	eP	55.9	d	
	R	iP	43.5	d	
	SH	iP	27.5	d	
	C	iP	03		
10	B	eP	05 35 20		
	MH	eP	22.5	d	
	F	eP	34.0		
	SH	eP	03.5		
10	B	eP	06 15 40		
	MH	e	48.5		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	e	56.5		
	R	eP	44		
	SH	eP	27.0	d	
10	B	eP	20 36 02		USCGS: 53½°N, 160°E, 0 = 20-26-40.
		e	10.5		
	MH	eP	06.5		
		i	16.0		
	F	eP	18.5		
		i	26.5		
	R	eP	03		
	SH	iP	35 47.4		
10	B	i(P)	22 03 43.9		
	MH	eP	42.5		
	F	eP	50.5		
	SH	eP	24.5		
11	MH	eP	11 26 39.0	d	
	F	eP	48.5	d	
	M	iP	12.7	d	
	SH	iP	18.8	c	
11	B	e(P)	01 06 14		
	MH	eP	12.5		
	F	eP	23.5		
	R	eP	09.5		
	SH	eP	05 53.5		
11	B	eP	01 19 43.0		
		e	55.5		
	MH	eP	48.0		
		e	20 00.5		
	F	eP	19 58.5		
	M	eP	33.1		
	R	iP	45.9		
	SH	eP	29.5		
11	M	eP	02 32 16.4		USCGS: About 200 miles South of Fiji Islands, h = 500 km, 0 = 02-20-37.
	SH	eP	14.7		
11	B	eP	12 04 25.8		
	MH	eP	24.3		
	M	eP	31.6		
	R	eP	24.5		
	SH	iP	34.2		
11	B	eP	14 20 07.0		
	MH	eP	13.0		
	F	e	20		
	M	eP	19 58.0		
	SH	eP	53.5		
11	MH	e	18 58 53.0		USCGS: About 400 miles South of Tonga Islands, 0 = 18-46-30.
	F	e	56.0		
	M	eP	59 01.7		
	R	eP	58 54.6		
	SH	eP	59 00.9		
11	F	eP	05 36 48.5		
	M	eP	23.1		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	R	e	34.		
	SH	eP	18.6		
11	B	eP	19 30 19		
	MH	eP	25.0		
	M	eP	03.3		
	R	eP	16.5		
	SH	eP	29 59.0		
12	M	iP	00 50 34.1		
	R	eP	46.5		
	SH	eP	29.6		
12	M	eP	03 28 30.6		
	SH	eP	28.0		
12	M	eP	04 45 13.2		
	R	e	25		
	SH	eP	08.7		
12	M	e	08 13 21.9		
	R	e	28.5		
	SH	eP	16.4		
12	MH	iP	08 42 29.2	c	USCGS: Tonga Islands Region, 0 = 08-30-18.
	F	eP	33.0	c	
	M	eP	38.3	c	
	SH	iP	37.5	c	
12	M	e	11 51 33.8		
	SH	eP	03.9	d	
12	M	iP	13 48 07.8		
	R	e(P)	17.5		
	SH	eP	11.9		
13	MH	iP	03 04 53.8		USCGS: About 300 miles South of Tonga Islands, 0 = 02-52-41.
	F	e	49.5		
	M	eP	05 03.3		
	SH	eP	02.5		
13	B	eP	08 08 30.5	c	USCGS: 50 $\frac{1}{2}$ °N, 157°E, 0 = 07-58-45.
		i	44.0		
	BG	eSE	16.3		
	MH	eP	08 34.4	c	
		i	52.2		
	F	eP	46.1	c	
		e	09 01.1		
	M	iP	08 21.5	c	
	R	eP	33.8	c	
		e	48.9		
	SH	iP	17.4	c	
		ePcP	09 19.5		
		ePPP	11 24.0		
	C	eP	07 54		
13	M	eP	08 27 59.0		USCGS: Fiji Islands, 0 = 08-15-59.
	SH	eP	58.6		
13	M	eP	10 47 11.4		
	SH	eP	07.4		
13	MH	eP	15 32 05.6	c	
	F	eP	17.0	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	eP	31 50.2	d	
	R	eP	32 01.5	c	
	SH	eP	31 45.3	c	
13	M	iP	16 52 26.7		
	SH	iP	22.3		
13	M	eP	17 48 48.2		
	SH	eP	44.2		
13	B	iP	22 35 15.8	c	USCGS: 50°N, 158 $\frac{1}{2}$ °E, 0 = 22-25-34.
	MH	eP	20.9	d	
	F	eP	31.0	d	
	R	eP	18.0	d	
	SH	iP	02.3	d	
14	F	eP	01 49 34.4	c	USCGS: Fiji Islands, h = 600 km, 0 = 01-38-32.
	SH	iP	36.5	c	
16	M	iP	01 57 33.1		USCGS: 50 $\frac{1}{2}$ °N, 157°E, 0 = 01-47-54.
		i(pP)	47.7	d	
	SH	eP	28.3	d	
		i(pP)	43.0	d	
16	SH	eP	07 51 58.0		USCGS: Near NE Coast of New Guinea, 0 = 07-38-25.
	M	eP	07 51 55.4		
17	M	e(P)	12 13 10.8		
		i	13.4	c	
		e	31.8		
	R	e	21.5		
		e	33.0		
18	F	iP	08 23 15.9	d	USCGS: 49 $\frac{1}{2}$ °N, 156 $\frac{1}{2}$ °E, 0 = 08-13-25.
		e(pP)	23.0		
	F	eP	31.5	d	
	M	eP	06.5		
		i(pP)	19.8	c	
	R	eP	16.5	d	
		e	28.0		
	PA	eP	18.2		
		e(pP)	31.1		
	SH	eP	01.9		
		i(pP)	13.6	c	
19	F	e(P)	06 09 04.5		USCGS: Bismark Sea, 0 = 05-55-40.
		e	20.0		
		e	47.0		
	M	e(P)	08 57.2		
		e	09 07.1		
19	B	iP	07 39 54.1	c	USCGS: 19 $\frac{1}{2}$ °S, 177°W, 0 = 07-28-57.
	F	eP	59.1	c	
		e	41 23.7		
	M	eP	40 03.8	c	
		i	09.8		
	R	e(P)	08.5	c	
		e	41 34.5		
	PA	eP	39 53.2		
19	B	eP	08 26 02		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
19	M	eP	04.3		USCGS: 29.5°N, 86.5°E, 0 = 10-23-28.
	SH	eP	06.1		
	M	e(P)	10 42 00.8		
20	R	e	11.8		USCGS: 12 1/2°N, 88°W, h = 60 km, 0 = 15-37-17. Pasadena Magnitude 6 1/4.
	R	e(P)	41 56.5		
	F	eP	42 12.3		
20	M	eP	05 33 10.4	d	
	R	eP	32 45.8	d	
20	B	e(P)	11 35 26.0		
	F	e	56.0		
20	M	i	33.4	c	
	B	eP	15 44 51.2	c	
21	BG	ePcP	46 57.5		
		eSNE	50 50.0		
		eNE	54		
		eNE	57		
		eEZ	59.1		
		A	T		
		MaxH	196 20		
		MH	ePNE	15 44 46.0	
			eE	59 09.0	
			eP	44 32.0	c
21	F	eP	58.0	c	
	R	eP	46.0	c	
21	C	ePcPNEZ	46 50.5		
		ePcP	46 57.6		
		eP	45 27.0		
21	SH	eP	45 02.7	d	
		i(PcP)	47 01.1	d	
21	B	eP	02 37 49.0		
	F	eP	58.0	c	
21	M	eP	33.0	d	
	R	eP	54.4		
21	F	eP	03 29 27.5		
	M	iP	05.1	c	
21	R	eP	16.4	d	USCGS: 18°N, 68°W, h = 100 km, 0 = 06-10-38.
	F	eP	06 19 17.0	d	
21	SH	eP	45.0		
	B	eP	07 35 53.7	c	
21	F	e	36 09.0		
		eP	09.0	c	
		e	24.5	c	
21	M	iP	35 44.8	c	
	R	i	36 00.7		
21	SH	eP	35 56.4	c	
		e	36 10.6	c	
		e	35 40.0	c	
21	SH	e	55.2	c	
		e	36 13.5	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
21	F	eP	09 18 59.7	d	USCGS: 66°N, 166°W, 0 = 17-26-50.
	M	eP	23.6	d	
	R	eP	43.9	c	
21	B	eP	17 34 08.5	c	
	F	eP	23.5	c	
	R	eP	03.5	c	
22	SH	iP	47.5	c	
	MH	eP	05 29 00.2	c	
	F	eP	13.5	d	
22	M	e	04.8	c	
	R	eP	28 53.0	d	
	SH	eP	36.0	c	
22	B	iP	07 47 13.5	d	
		iSE	47.0		
		iP	04.9	d	
		iNE	11.0		
		iE	21.3		
		iSN	25.6		
		iFNEZ	03.4	d	
		iP	46.5	d	
		iE	48 17.8		
		iSN	44.9		
22	A	ePE	47 58.7		
		eN	48 04.5		
		eN	49 00.2		
22	R	eN	18.7		
		iPNEZ	47 38.1	d	
		iSNEZ	48 22.5		
22	C	iP	51.0		
		eSE	50 56.0		
		ePNZ	47 51.8	c	
22	SH	iNEZ	54.2	c	
		e(S)N	48 50.7		
		iP	13 02 31.4	c	
22	MH	iP	16 23 28.8	c	
		i	24 21.0		
		eP	23 38.0	d	
24	F	iP	14.8	c	
		e	22 28.0		
		eP	23 10.3	d	
24	SH	eP	23 10.3	d	
		eP	00 23 51.3	d	
		eP	24 01.3	c	
24	M	eP	23 37.2	d	
		eP	49.2	d	
		eP	32.7	d	
24	R	eP	02 26 51.7	d	
		e	28 47.5	d	
		iP	02 26 55.3	d	
24	SH	i	28 51.3	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	eP	27 03.5	c	
		e	29 01.0	c	
	M	eP	26 46.3	c	
		e	28 43.3	d	
	R	eP	26 51.0		
		e	28 54.5	c	
	SH	eP	26 42.8	c	
		e	28 02.5	d	
24	B	eP	07 58 28.0		
	MH	e	33.3	c	
	F	e	44.0		
	M	iP	04.8	d	
		i	18.9	d	
24	MH	iP	09 14 59.2	c	
24	MH	eP	13 32 37.7	c	
		e	33 18.8	d	
	M	eP	32 48.3	c	
		e	33 22.8	c	
24	M	e	19 31 25.2	d	
24	B	eP	20 28 57.5		USCGS: 18°S, 168°E, 0 = 20-16-14.
	MH	eP	58.6	c	
		e	29 16.6	c	
	F	eP	02.7	c	
	M	eP	04.6	c	
	R	iP	10.0	d	
24	B	eP	21 45 15.5	c	
	MH	iP	20.8	d	
		i	38.0	c	
		i	59.4	d	
	F	eP	30.3	d	
	M	eP	07.3	c	
		i	21.8	c	
		i	27.3	c	
	R	eP	18.9	d	
		e	40.0	d	
24	B	eP	22 25 18.3		
	MH	eP	22.3	d	
		e	32.2	c	
		e	26 26.4	d	
	F	e	19.3	d	
	M	e(P)	24 56.2	c	
		e	25 09.2	c	
	R	eP	20.6	d	
		e	46.8	d	
25	M	eP	04 04 12.9	c	
25	MH	eP	05 36 44.0	d	
		i	37 06.3	c	
	M	eP	36 53.2	c	
25	MH	eP	07 11 16.4	c	
		e	30.4	c	
	F	e	20.0		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	e	20.4	d	
	SH	eP	25.5	c	
25	MH	eP	09 02 45.1	c	
	F	eP	45.0		
	M	eP	49.3	d	
	SH	eP	48.1	d	
25	MH	eP	16 27 00.6	c	
	R	e	26 57.0		
	SH	e	29.7		
26	B	e	13 34 42.7	c	USCGS: 53°N, 160°E, 0 = 13-25-18.
		i	52.1	c	
		e	35 57.7		
	MH	iP	34 38.7	d	
		i	57.6	c	
		e	35 56.9	d	
	F	eP	08.0	c	
	M	e	34 28.0	c	
		i	42.3	c	
		i	52.9	d	
	R	e(P)N	13.6	d	
	SH	e	26.5	d	
		iNEZ	37.4	c	
27	MH	eP	05 50 11.0	d	
		e	28.5	c	
	M	eP	25.7	c	
		e	43.0	d	
27	MH	e(PP)	07 38 44.9	d	USCGS: 37°N, 70°E, 0 = 07-20-13.
		e	39 00.1	c	
		i	40 23.9	d	
	F	e(PP)	38 49.0		
	M	eP	34 13.0	d	
		e	41.5	d	
		e	37 40.6		
		i	40 08.9	d	
	R	e	37 31.0		
	SH	e(P)	34 25.8	d	
27	MH	eP	15 27 02.6	c	
		e	28 16.9	c	
	F	eP	27 14.5		
	M	eP	26 53.4	c	
	R	eP	27 05.2	c	
	SH	eP	26 48.9	c	
		e	27 03.1	c	
28	MH	eP	01 21 47.9	c	USCGS: 7°N, 79°W, 0 = 01-12-56.
	F	eP	36.5	c	
	M	eP	56.6	d	
28	M	e(P')	05 52 58.5	d	USCGS: Assam Burma Border, 0 = 05-34-21
28	MH	eP	08 15 05.7	d	USCGS: 52°N, 160°E, 0 = 08-05-30.
		e	16 00.7	d	
	F	eP	15 17.0	c	
		e	16 11.0	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	eP	14 51.1	c	
		i	59.0	d	
	R	eP	15 03.5	d	
	SH	eP	14 47.0	d	
28	MH	eP	21 14 12.7	c	USCGS: 6 $\frac{1}{2}$ °S, 155 $\frac{1}{2}$ °E, 0 = 21-01-27.
		epP	42.6	d	
		ePP	17 29.7	c	
	F	eP	14 18.5	c	
	M	eP	14.6	c	
		epP	44.9	c	
		ePP	17 41.1	c	
	R	eP	14 21.6	c	
	SH	e	14 11.4	d	
29	B	eP	08 32 04.0	c	USCGS: 53°N, 160°E, 0 = 08-22-34, Pasadena Magnitude 7.
		i(pP)	15.5	c	
	BG	isNE	39 45.0		
	SH		27 11.0		
	MH	eP	32 08.7	c	
		i(pP)	20.9	c	
		iPP	34 21.7	c	
	F	eP	32 20.7	c	
		i(pP)	31.4	d	
		eSN	40 12.0		
	M	eP	31 53.7	c	
		i(pP)	32 06.2	d	
		i	34 25.3	d	
	C	eP	31 29.0		
		eSN	38 32.0		
		e	48 51.0		
29	SH	eP	08 31 48.9	c	
		e	32 00.8		
		eSN	39 14.0		
		eScNE	41 40.5		
	R	eP	32 08.0		
	MH	eP	08 43 13.2	d	
		i	45.2	d	
	F	eP	19.0		
	M	eP	42 55.3	d	
	R	eP	43 13.8	c	
	SH	eP	42 51.5	d	
29	B	eP	23 52 23		USCGS: 56°N, 155°W, 0 = 23-46-25, Pasadena Magnitude 6 3/4.
		e(PcP)NE	55 18		
	BG	isNE	57 09		
		eNE	58.7		
		eE	59.4		
		i	24 00 55		
		A	T		
	SH		80 16		
	MH	iP	23 52 30.9	c	
		i(PP)	53 29.3	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	56 22.1	d	
		e	59.5		
		e(S)E	59 03.0		
	F	eP	52 41.9	c	
	R	eP	20.8	d	
	Fe	ePE	20		
	C	eP	51 30		
		eSN	55 45		
	SH	eP	52 01.0	d	
30	MH	eP	02 22 05.9	d	USCGS: Kermadec Islands Region, 0 = 02-09-17.
	F	eP	23.0	d	
	SH	e	15.0	c	
30	SH	eP	06 40 46.5	c	USCGS: 56 $\frac{1}{2}$ °N, 154°W, 0 = 00-35-14.
30	MH	eP	12 38 59.4	c	
	F	eP	39 09.5	c	
	R	e(P)	38 55.9	d	
	SH	iP	39.6	c	
30	M	eP	16 36 01.6	c	USCGS: 56 $\frac{1}{2}$ °N, 154°W, 0 = 16-30-25.
	SH	eP	35 56.5	d	
30	B	iP	19 38 16.0		USCGS: 52 $\frac{1}{2}$ °N, 159°E, 0 = 19-28-44.
		i	21.7	d	
	MH	eP	21.1	d	
		i	27.8	d	
	F	eP	30.2		
	M	eP	37 58.4	d	
		i	38 06.1	d	
		i	13.0	d	
		e(PP)	40 11.0	d	
	R	eP	38 18.2	d	
		e	23.9	d	
	SH	eP	01.6	d	
		i	06.8	d	
		e	39 17.9	c	
		e	40 29.0	c	
30	MH	eP	00 10 29.4	d	USCGS: Kermadec Islands Region, 0 = 23-57-40.
	SH	eP	37.2	c	
Dec. 1	MH	eP	02 04 33.8	c	
	SH	eP	42.8	c	
1	MH	eP	04 53 18.8	c	
			27.7	c	
	M	eP	03.4	c	
			22.4	c	
	R	eP	16.2	c	
	SH	eP	52 59.0	c	
		e	53 11.8	c	
	F	eP	13 07 44.0	d	
1	M	eP	18.2	d	
	R	eP	30.2	d	
		e	55.0	d	
	SH	iP	13.1	c	
		e	21.5	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
Dec. 1	F	e(P)	13 09 46.5	c	(P) Readings may represent pP of Preceding Shock.
	M	e(P)	20.5	c	
	R	e(P)	33.0	c	
	SH	i(P)	16.3	c	
		e	24.8	d	
1	F	eP	14 42 13.0		
	M	iP	41 52.6	d	
	R	eP	42 00.0	c	
	SH	eP	41 43.0	d	
2	M	eP	05 19 32.4	c	USCGS: Solomon Islands, 0 = 05-06-38.
2	M	eP	08 56 16.2	d	
		i	27.9	c	
	SH	eP	10.5	c	
		e	24.0	d	
2	M	eP	11 04 03.5	c	
		e	18.2	c	
2	M	iP	12 12 14.6	c	USCGS: Kermadec Islands Region, 0 = 11-59-40.
	SH	eP	13.7	d	
3	MH	eP	00 40 01.6	d	
	F	eP	12.3	d	
	R	eP	39 59.8	c	
3	MH	eP	10 24 14.6	c	
	F	e	01.5		
	R	eP	16.2	c	
	SH	e	23 44.5	c	
		e	24 33.0	c	
3	MH	eP	11 09 27.9	d	
		e	40.0	c	
	R	eP	19.0	c	
3	MH	e	13 13 03.1	c	
		e	19.1	d	
3	MH	eP	14 17 36.7	c	
		i	44.6	c	
		e	18 52.1	d	
	F	eP	17 47.0	d	
		e	54.5	d	
	R	eP	31.5		
		e	39.5	d	
	SH	eP	14.4	c	
		eN	22.1		
		e	23.1	c	
		e	18 46.9	c	
3	MH	eP	22 35 15.7	c	
		e	40.3	c	
	F	eP	36.0	c	
	R	eP	13.5	c	
		e	22.5	c	
	SH	eP	34 54.0	c	
		e	36 07.0	d	
		e	37 11.0		
3	MH	eP	23 30 22.2	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	49.8	c	
		e	38.0		
4	R	eP	03 59 30.2	c	USCGS: 52°N, 178°E, h = 100 km, 0 = 03-51-25.
	B	e	04 00 22.9	c	
		iPP	01 17.5	c	
		e(sPP)	02 10.7		
		eScP	04 54.2		
	BG	eSE	05 52		
		eN	06 22		
		e(SS)	09 11		
		eNE	10 14		
	MH	eP	03 59 36.5	c	
		i	04 00 03.5	d	
		i	01 10.7	d	
		iPP	21.3	d	
		e	02 46.7	c	
		eScP	04 56.0	d	
	F	eP	03 59 47.4	c	
		e	04 01 09.4	c	
		eN	50.0		
		eN	02 19.0		
		eN	04 08		
	M	eP	03 59 20.2	c	
		e	04 00 59		
		eScP	04 46.5	c	
	A	ePN	03 59 09.5		
		eN	04 00 40		
	R	ePZ	03 59 34.5	c	
		e	45.0	d	
		eN	04 00 24.7		
		e	01 18.3		
		eScPEZ	04 58.0		
		e(SS)NE	09 17		
	SH	iP	03 59 16.1	c	
		e	27.5	c	
		eE	32.8		
		eNZ	04 00 56	d	
		eN	01 40		
		e	49.2	d	
		eScPNEZ	46		
		e(SS)NE	09 02		
		e	08		
4	MH	eP	07 03 04.3	c	
	M	eP	02 48.1	d	
	SH	eP	44.2	c	
4	MH	eP	09 17 33.7	c	
	M	eP	15.4	d	
	R	eP	30.5		
	SH	eP	08.6	c	
4	B	eP	10 59 24.1	c	USCGS: 49°N, 157°E, 0 = 10-49-35.
		e	33.9	d	
	MH	iP	28.6	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	i	39.2	c	
	M	eP	38.9	c	
	R	e?	13.9	d	
	SH	i	14.2	c	
	SH	eP	27.0	c	
4	MH	iP	11.0	c	
	MH	e	18.5	c	
	MH	eP	11 19 57.3	c	
	F	eP	20 14.5	c	
	M	eP	19 48.8	c	
	R	eP	20 02.0	c	
	SH	eP	19 43.9	c	
4	MH	eP	12 32 44.6	c	
		i	50.7	d	
		e	33 01.9	c	
	F	eP	32 55.5	c	
	M	eP	28.3	d	
	R	eP	41.9	c	
	SH	eP	24.5	d	
4	MH	eP	17 24 08.0	c	
		e	16.6	d	
	SH	eP	13.9	c	
5	C	eP	16 29 38	c	
6	B	iP	10 54 14.9	c	
		e	26.0	c	
	BG	ePP	57 51	c	
	BG	iSNE	11 04 59.5	c	
		eLr	20.5	c	
		A	T		
		PZ	10 8		
		SH	14 9		
	MH	eP	10 54 15.0	c	
		e	56 06.2	d	
		ePP	57 55.5	c	
		eIN	11 24.6	c	
	F	eP	10 54 19.4	c	
	M	eP	18.0	c	
		eLE	11 25.9	c	
	R	eP	10 54 24.8	c	
		i	34.8	d	
		ePP	58 09	d	
		eE	11 02 02	d	
		eSE	05 17	d	
	SH	eP	10 54 15.5	d	
		eEZ	29.9	d	
		e	57 22	d	
		eSE	11 05 02	d	
6	MH	eP	21 03 31.2	c	
	F	eP	36.7	c	
	M	eP	34.0	d	
	R	eP	39.6	c	
	SH	eP	31.0	c	

USCGS: 8°S, 157°E, 0 = 10-41-14,
Solomon Islands Magnitude 7 to 7¼.

USCGS: Solomon Islands Aftershock,
0 = 20-50-35.

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
Dec. 7	B	e	00 58 48.0		USCGS: 53°N, 172½°E, 0 = 00-50-12.
		i	59 00.0	d	
	BG	eSE	01 05 24		
		eLrEZ	11.6		
	MH	eP	00 58 47.6	c	
		i	59 03.0	c	
		i	55.9		
	F	eP	58 58.9	d	
		e	59 16.4	c	
	R	eP	58 44.5	c	
		e	59.0	d	
		e	01 04 11.5		
		eSEZ	05 32		
	SH	eP	00 58 25.5	c	
		eN	45.0		
7	MH	iP	16 42 51.1	d	USCGS: 51½°N, 159°E, 0 = 16-33-10.
		i	43 00.8	d	
	R	eP	42 46.5	d	
	SH	eP	29.0		
9	M	eP	09 42 09.9	d	
		e	22.9	c	
9	M	eP	07 08 31.0	d	
9	MH	eP	09 27 47.7	c	USCGS: 15½°S, 168°E, 0 = 09-15-12.
		i	58.6	c	
		i	28 39.1	d	
		i	56.7	d	
	F	eP	27 55.0	c	
		e	28 42.0	d	
		e	29 15.0	c	
	M	eP	27 56.7	d	
		i	28 41.9	d	
		i	29 24.6	d	
	R	eP	28 01.7	d	
		e	47.7	d	
	SH	eP	27 53.6	c	
		e	28 00.0	c	
		e	40.1	c	
9	M	iP	13 39 32.8	c	
		i	50.8	c	
	SH	eP	27.0	c	
		e	34.0	d	
10	MH	e	03 05 03.6	c	
		e	11.4	d	
		e	06 09.4	d	
	M	e	05 36.5		
	SH	e	04 43.5		
10	B	iP	06 08 31.1	d	USCGS: 71°N, 7°W, 0 = 05-58-06.
	BG	eSE	17 01		
		eIqNE	23.8		
	MH	iP	08 34.1	d	
		i	39.3	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
		i	09 04.5	c	
		ePP	10 53.0	c	
	F	eP	08 33.1	c	
		e	12 18		
		eN	24		
	M	eP	08 12.3	d	
		i	31.2	d	
		e	09 13.8	d	
		e	10 13.1		
	R	eP	08 15.5	c	
10	B	iP	08 17 24.7	d	USCGS: 15½°S, 173½°W, 0 = 08-06-03.
	MH	eP	25.8	c	
		e	37.5	c	
		e	18 12.4	c	
		e	21.6	c	
		ePP	20 25.1		
	F	eP	17 30.0	d	
	M	eP	34.7	c	
		i	18 00.6	d	
	R	eP	17 39.3	c	
		e	54.0	c	
	SH	iP	34.8	d	
10	MH	eP	08 48 11.0	d	
10	MH	eP	12 57 37.9	c	USCGS: Arctic Ocean, North of Nicholas II Land, 0 = 12-47-44.
		e	58 04.8	c	
	F	eP	57 43.5	c	
	M	eP	17.1	c	
		i	24.8	d	
	R	eP	24.0	c	
	SH	eP	13.5		
10	MH	eP	14 16 34.5	c	USCGS: Arctic Ocean, North of Nicholas II Land, 0 = 14-06-40.
		e	42.8	d	
	F	eP	39.0	c	
	M	iP	12.7	c	
		i	20.6	d	
	R	eP	27.0	c	
	SH	eP	17.5	c	
		e	17 27.0	d	
11	B	eP	09 08 09.5		USCGS: 49°N, 155°W, h = 60 km, 0 = 08-58-18.
		epP	24.5	c	Pasadena Magnitude 6
	BG	iSE	16 15.0		
		iNZ	16.0		
		eN	17.8		
		iN	21 18		
		eLqNE	22.7		
		A	T		
		Sh	8.5 10		
	MH	eP	09 08 15.5	c	
		e(pP)	28.1	c	
		i	51.2	d	
		i	09 16.2	d	
	F	eP	08 26.0	c	
		epP	41.0	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	R	eP	13.9	c	
		i	09 58.8	d	
	SH	eP	07 58.0	c	
11	MH	e	11 14 43.4	d	
11	B	eP	13 21 36.5		
		ipP	52.0		
	MH	eP	42.3	d	
		e(pP)	55.5	d	
	F	eP	52.5	d	
		epP	22 07.0	d	
	M	eP	21 29.0		
	R	eP	40.0	d	
		epP	55.6	d	
	SH	eP	24.5		
11	MH	e	14 30 59.6	c	
	M	e	31 12.5	c	
11	MH	iP	17 58 10.8	c	
	F	eP	21.0	c	
	M	eP	57 56.3	d	
		i	58 00.4	d	
		e	10.3	d	
	R	eP	08.2	d	
	SH	eP	57 52.5		
12	B	eP	00 53 49.5		USCGS: 56½°N, 154°W, 0 = 00-47-56.
	BG	eLqE	58 55		
		eLrEZ	01 01.3		
	MH	eP	00 53 55.8	d	
		e	54 09.8	d	
		i	23.0	c	
		e(PcP)	57 05.3	c	
	F	eP	54 09.0	c	
		e	22.0	d	
	M	eP	53 35.4	d	
		i	42.0	d	
		i	54 04.0	c	
		e(PcP)	56 58.5	d	
	R	eP	53 49.8	d	
		e	54 05.1	c	
	C	eP	52 58		
	SH	eP	53 30.0	d	
12	B	e	01 15 04.0		
	MH	i	12.7	d	
	M	i	46.6	c	
12	MH	eP	05 26 40.2	d	USCGS: 56½°N, 151½°W, 0 = 05-21-04.
	F	eP	27 11		
	M	iP	26 33.7	c	
		i	40.3	d	
		i	58.2	c	
		iPP	27 35.3	d	
	R	eP	26 47.6		

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks	
1952			h. m. s.			
12	SH	e	27 00.3			
		eP	26 28.0	c		
	MH	eP	07 03 55.9	d		
		e	04 16.8	c		
		e	46.0	c		
12	M	eP	03 41.1	c		
		i	50.2	c		
	R	eP	57.6			
		e	04 13.1	d		
		eP	20 41 41.2	c		
13	MH	e	42 34.5	c		
		eP	41 41			
	F	eP	25.2	d		
		e	43.0	d		
	M	eP	38.1			
		e	53.8			
	SH	eP	22.0	d		
		iP	11 57 32.6	d		
	13	M	e(P)	13 17 09.8	d	USCGS: Kurile Islands, 0 = 13-06-45.
			e	35.7	d	
13	MH	eP	17 55 10.9	c		
		e	17.3	d		
	F	e	56 06.0	c		
		eP	55 22.0	c		
	M	eP	54 55.2	c		
		e	55 01.3	c		
	R	eP	09.8			
		iP	54 50.0	c		
	14	MH	e	02 23 54.5	c	
			eP	23.8	c	
14	M	e	36.4	c		
		e	25 22.1	c		
	R	eP	23 27.1			
		eP	19.5	c		
	SH	e	31.0	c		
		e(P)	05 08 09	c		
	14	M	e(P)	07	c	
			eP	07 23 54.3	c	
	14	M	e	24 17.6	c	
			iP	23 30.1	c	
i		i	53.9	c		
		i	24 06.9	c		
R		i	36.1	c		
		eP	24 04.0			
SH		eP	23 48.3	c		
		eP	10 47 31.5	c	USCGS: 19°N, 69°W, 0 = 10-38-39.	
F		e	48 14.0	c		
		M	eP	47 20.0	d	
eP	33.1		c			
e	i	41.6	d			
e	e	54.2	d			

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks	
1952			h. m. s.			
14	R	e	48 55.2	d		
		e	47 39.5	d		
	SH	e	48 00.5	d		
		eP	47 37.6	d		
		e	46.0	c		
14	MH	eP	11 03 48.6	c	USCGS: 9°N, 83°W, 0 = 10-55-32.	
		i	52.8	c		
	F	eP	33.5	d		
		eP	59.1	d		
	M	e	04 19.3	c		
		ePcP	05 33.0			
	R	eP	03 46.0			
		eP	04 02.9			
	14	SH	eP	13 00 16.5	c	USCGS: 11°S, 167°E, 0 = 12-47-52.
			e	51.3	c	
M		eP	21.4	d		
		eP	27.9	d		
R		iP	19.0	c		
		iP	12 14 33.5	c	Depth about 60 km.	
MH		eP	51.3	d		
		ipP	51.3	d		
14		F	eP	43.3	c	
			epP	59.8	c	
	M	iP	19.4	c		
		ipP	34.7	c		
	R	eP	31.1	c		
		epP	47.8	c		
	SH	iP	14.7	c		
		epP	31.5	c		
	15	MH	e	19 20		
			eP	05 18 00.2	d	USCGS: Northern Chile, h = 150 km. 0 = 05-06-14. Felt at Montezuma
e		30.0	d			
F		ipP	41.4	d		
		e	19			
M		eP	09.8	c		
		i	21.3	c		
R		epP	47.6	d		
		iP	03.7	c		
15		SH	iP	12.6	d	
	e		24.5	c		
	MH	epP	41.5	c		
		eP	09 54 47.4	c	USCGS: 51½°N, 160½°E, 0 = 09-45-12.	
	e	55 18.9	c			
	F	eP	54 59.0	c		
		e	55 32.5	d		
	M	eP	54 29.1	c		
		eP	46.0			
	R	eP	28.0	c		
e		52.0	c			
15	MH	eP	15 51 24.2	c	USCGS: 6°S, 156°E, 0 = 16-38-35.	
		eP	22.5	c		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
15	SH	eP	23 37 56.3	d	USCGS: Ningsia Prov. China, O = 23-25-00.
16	MH	eP	04 07 09.4	c	
		e	30.9	d	
16	MH	eP	06 25 58.2	d	
		e	26 54.6	c	
	F	eP	08.2	d	
	M	eP	25 44.7	d	
		e	26 27.2	c	
	R	eP	25 57.0	c	
		e	26 24.5	c	
	SH	eP	25 40.4	d	
		e	51.4	d	
16	MH	eP	12 07 55.3	c	
		e	08 01.0	d	
		e	40.4	d	
	F	eP	05.5	c	
	M	eP	07 39.6	c	
		i	49.8	c	
	R	iP	52.7	d	
		e	08 08.9	c	
16	SH	eP	07 34.8	c	
	MH	eP	23 33 52.6	c	
		epP	34 08.4	c	
	M	eP	33 38.5	c	
		ipP	54.4	d	
	SH	eP	33.8	c	
		epP	49.4	c	
17	MH	e(P)	05 25 14.1	d	USCGS: Northern Chile, O = 05-13-15, Felt at Montezuma.
		e	44.3	c	
	F	eP	05.1	c	
		e	26.0	c	
	M	eP	24.2	c	
		e	55.5	d	
		e	26 51.2	d	
	R	e	25 32.0	d	
	C	eP	44	c	
	SH	eP	26.0	c	
		e	56.5	c	
17	M	eP	12 01 55.8	c	
17	B	eP	23 17 52.2	c	USCGS: 34 1/2°N, 24°E, O = 23-03-58, Pasadena Magnitude 6 3/4.
	BG	iPP	22 04.0	c	
		i(PPP)	23 58.5	c	
		iSKSN	28 33.0	c	
	MH	eP	17 53.8	c	
		e	18 38.3	d	
		e(P')	21 30.5	c	
		ePP	22 03.6	c	
		e	24 15.5	d	
	F	eP	17 53.7	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	19 33.5	c	
		iPP	22 03.2	c	
		e	24 25	c	
		e	29 03.5	c	
	R	iP	17 42.5	c	
		e	18 25.2	d	
		e	48.1	d	
		e(P')	21 26.4	d	
	C	iP	17 22	c	
		e(P')	21 19	c	
	SH	eP	17 39.0	c	
		e	20 42	c	
		e(P')	21 37	c	
		e	22 29	c	
		eSKSN	28 15	c	
18	MH	iP	05 27 06.2	c	USCGS: 18°S, 178°W, h = 600 km, O = 05-16-12.
	F	eP	10.5	c	
	M	eP	14.1	d	
		i	28.2	d	
		e	28 16.5	d	
	SH	eP	27 13.3	d	
18	F	e(P)	08 47 53.5	c	USCGS: Solomon Islands, O = 08-34-50.
	M	e	47.3	d	
	R	e?	26.0	d	
18	B	iP	09 29 44.7	c	USCGS: 53 1/2°N, 162°E, O = 09-20-28.
		e(pP)	55.5	c	
	BG	eSEZ	37.2	c	
		eScSN	39 32	c	
		eN	45.6	c	
	MH	eP	29 50.5	c	
		i(pP)	30 03.0	d	
		e	18.0	c	
	F	e(P)	29 59.5	d	
		e(pP)	30 01.2	d	
	M	eP	29 34.1	d	
		i(pP)	47.8	c	
		ePcP	30 51.0	c	
	R	eP	29 47.3	d	
		e(pP)	58.7	c	
	SH	eP	30.0	c	
		i(pP)	42.2	c	
18	MH	eP	10 40 12.5	c	
		e	46.4	c	
	F	eP	21.0	c	
		e	46.2	d	
	M	eP	39 55.4	c	
		e	40 15.9	c	
		e	41 09.2	d	
	R	eP	40 08.4	d	
		e	27.3	d	
	SH	eP	39 50.5	c	
18	MH	eP	10 47 13.4	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	e	40.2	d	
	SH	eP	34.2	d	
18	MH	eP	18 51 55.2	d	
		e	52 12.7	d	
	F	eP	04.5	c	
	M	eP	51 35.0	d	
		e	52 42.9	d	
	R	e(P)	51 51.7	d	
18	SH	e(P)	34.5	c	
	MH	e	21 17 34.4	c	USCGS: Ryukyu Islands, 0 = 21-04-49.
	M	e	29.4	c	
		e	39.1	d	
	SH	eP	21.7	d	
		e	36.2	c	
18	B	eP	22 24 52.3	d	USCGS: 51°N, 179°W, 0 = 22-17-01.
		e	25 06.0		
	MH	eP	24 58.5	c	
		e	25 05.4	c	
		i	27.4	c	
	M	iP	24 43.9	d	
		i	48.0	d	
		i	25 06.1	c	
	SH	eP	24 38.4	c	
		e	27 57.0	c	
19	B	eP	07 02 54.2	d	
	MH	eP	03 00.7	c	
		e	54.8	c	
	F	eP	10.6	d	
	M	eP	02 46.6	d	
		i	03 43.7	c	
		e	05 23.8	c	
	R	eP	02 58.4	d	
		e	03 16.8	d	
19	SH	eP	02 42.1	d	
	MH	iP	07 41 30.2	d	
		i	52.1	c	
	F	eP	41		
	M	eP	14.9	c	
		e	26.5	d	
		i	55.1	c	
	R	eP	26.8	d	
19	SH	iP	10.5	d	
	MH	eP	13 14 12.3	c	
	M	eP	13 57.5	c	
		e	14 19.5	d	
		e	15 06.7	d	
	R	eP	14 09.0	d	
		e	24.4	c	
19	SH	eP	13 52.5	c	
	MH	eP	19 17 23.8	c	USCGS: 15°S, 175°W, h = 250 km, 0 = 19-06-20.
		e	38.0	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	eP	28.0	c	
		epP	18 28.0	d	
		esP	51.5	d	
	M	eP	17 33.2	c	
		e	45.5	d	
		epP	18 28.3	d	
	R	eP	17 38.3		
		e(pP)	18 41.6	c	
	SH	eP	17 31.6	d	
		epP	18 28.0	c	
20	MH	eP	04 15 18.9	c	USCGS: 53°N, 160°E, 0 = 04-05-48.
		e	46.6	c	
		e	16 20.4	c	
	M	iP	15 04.1	c	
		i	18.6	c	
20	SH	eP	14 59.2	c	USCGS: Marianas Is. Region. 0 = 21-42-10.
	M	e	21 55 18.7	c	
	SH	eP	00.6	c	
		e	13.7	c	
21	MH	iP	01 25 17.0	c	USCGS: Bismark Sea, 0 = 01-11-56.
		e	40.7	c	
	F	eP	23.0	c	
	M	iP	19.1	d	
		i	28.5	c	
		e	29 13.2		
	R	eP	25 24.1	d	
		e	49.1	d	
	SH	eP	14.0	d	
		e	22.5	d	
		e	26 00.5	c	
		e	29 01.5		
21	M	e	06 11 32.8		USCGS: Banda Sea, 0 = 05-51-06.
	R	e	39.1		
21	MH	e	11 50 38.9	c	
	M	e	51 18.0	d	
		e	33.9		
	R	e	50 56.4	d	
		e	51 08.8	d	
		e	28.2	d	
	SH	e	50 58.0		
21	MH	eP	14 12 15.7	d	
	M	eP	11 53.1	c	
		e	12 22.6	c	
	R	eP	11 59.5	c	
	SH	eP	48.0	d	
		e	12 06.7	c	
22	MH	eP	00 13 22.9	c	
		e	32.2	d	
	M	eP	08.5	c	
	R	e	22.6		
		e	32.9		
22	MH	e	01 37 39.3	c	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	M	e	46.3	c	
		e	38 00.7	c	
	SH	e	37 22.5		
		e	41.5	c	
22	MH	e	06 38 16.2	d	
	MH	eP	02.4	d	
	R	e(P)	03.7	d	
	SH	iP	37 58.0	c	
22	B	iP	22 34 03.8	d	USCGS: 54°N, 160 $\frac{1}{2}$ °E, 0 = 22-24-42. Pasadena Magnitude 6 3/4.
		e	17.0		
		iPcP	35 12.0	c	
	BG	eSE	41 57		
		eREZ	50.5		
	MH	eP	34 09.7	d	
		i	33.7	d	
		e	36 50.1		
	F	iP	34 20.0	d	
		e	30.0	c	
		eN	36 32.0		
	M	iP	33 54.3	d	
		i	34 50.3		
	R	iP	07.0		
		e	31.4		
		eN	36 01.1		
	C	iP	33 26		
	SH	iP	49.7	d	
		i	34 00.1	d	
		e	35 03.8	c	
23	MH	eP	23 11 32.1	d	Kamchatka?
		i	42.1	d	
		i	59.1	d	
	R	eP	30.3	d	
		e	12 15.6	c	
24	B	iP	08 46 29.8	d	USCGS: 5 $\frac{1}{2}$ °S, 151 $\frac{1}{2}$ ° E, 0 = 08-33-25.
	MH	eP	29.9	d	
		e	38.3	d	
		i	47 04.1	d	
	F	eP	46 37.3	c	
		e	52.6		
	M	iP	33.3	d	
		i	47 10.3	c	
	R	iP	46 41.1	d	
		e	56.3	d	
		ePP	50 34.3		
	C	eP	46 28		
	SH	eP	30.5	c	
		i	31.8	d	
		e	37.5	d	
		e	45.0	d	
		e	47 19.6		
		e	49 37.0	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
		e	50 07.9		
24	B	iP	14 39 59.7	c	USCGS: 29°N, 130°E, 0 = 14-27-21.
	MH	eP	40 02.2	c	
		e	26.9	d	
	F	eP	10.0	d	
	M	eP	39 52.9	c	
		e	40 07.6	c	
		e	46.5	d	
		iPP	43 29.5	d	
	R	eP	40 01.9	c	
		e	54.7	c	
	SH	eP	39 50.2	c	
		e	40 04.5	d	
		e	31.0	c	
24	MH	eP	15 59 25.0	c	Depth about 70. USCGS: 50°N, 155 $\frac{1}{2}$ °E, 0 = 15-49-27.
		ipP	42.6	d	
		iPcP	16 00 17.6	d	
	F	eP	15 59 35.0	c	
		epP	51.5		
	M	eP	11.6	c	
		ipP	25.9	d	
	SH	iP	07.3	c	
		epP	23.5	c	
24	MH	eP	18 13 17.0	d	USCGS: 5 $\frac{1}{2}$ °S, 151°E, 0 = 18-00-13.
	F	eP	35.0	c	
	M	eP	24.0	d	New Britain Foreshock.
	R	eP	29.7	d	
	SH	eP	20.0	c	
24	M	eP	18 28 31.8	d	USCGS: 5 $\frac{1}{2}$ °S, 152°E, 0 = 18-15-25. New Britain Foreshock.
	R	eP	38.2	d	
	SH	eP	30.0	d	
24	B	eP	18 52 40.1	c	USCGS: 5 $\frac{1}{2}$ °S, 151 $\frac{1}{2}$ °E, 0 = 18-39-33. New Britain, Pasadena Magnitude 7.
		ePP	56 23.0	c	
		eSN	19 03 14.5		
	BG	e(ScS)N	42		
		e(PS)N	04 42		
		eN	17.0		
		eREZ	20.8		
	MH	eP	18 52 35.2	c	
		i	44.7	c	
		i	53.7	d	
		i	53 25.3	d	
		ePP	56 20.1	d	
		eRNE	19 22.0		
		eR	22.1		
	F	eP	18 52 46.6	c	
		iNZ	58.7	c	
	M	eP	41.1	c	
		i	52.6	d	
		i	53 52.8	c	
		ePP	56 26.1	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
Dec. 24	R	eREZ	19 22.4		
		iP	18 52 47.8	c	
		i	53 20.9	c	
		eR	19 22.5		
	C	eP	18 52 38		
		eSN	19 03 35		
	SH	eR	21.4		
		eP	18 52 39.3	c	
		iE	51.6		
		ePP	56 14.0		
		eSN	19 03 06.0		
		eE	36.0		
		eN	43.0		
		eR	22.0		
24	MH	eRE	22.5		
		eP	21 34 19.0	c	USCGS: 5 $\frac{1}{2}$ °S, 150 $\frac{1}{2}$ °E, 0 = 21-21-07.
	e	29.6	c		
	eP	19.5	d		
	R	e	24.6		
		eP	16.0	d	
	SH	e	35 08.1	d	
		eP	21 50 10.5	d	USCGS: 5 $\frac{1}{2}$ °S, 151 $\frac{1}{2}$ °E, 0 = 21-37-05.
		e	19.2	d	
		eP	12.6	d	
24	MH	e	18.9	c	
		e	54 37.8	c	
	F	eP	50 18.7	d	
		eP	12.8	c	
	M	i	24.1	d	
		ePP	53 47.5		
		eP	50 19.7	d	
		e	51 26.7	d	
	SH	eP	50 10.0	c	
		ePP	53 44.0		
25	B	eP	02 41 46.5	c	USCGS: 5 $\frac{1}{2}$ °S, 151 $\frac{1}{2}$ °E, 0 = 02-28-39.
		eP	45.9	c	
	MH	e	42 03.5	c	
		e	41 55.0	c	
F	e?	48.5	d		
	e(P)	50.5	c		
	eP	54.2	d		
	eP	44.3	c		
25	SH	i	47.8	c	
		ePP	45 23.5		
	MH	eP	02 52 49.0	c	USCGS: 5 $\frac{1}{2}$ °S, 152°E, 0 = 02-39-40.
		eP	43.8	c	
M	e	49.8	c		
	e	42.0	c		
25	SH	eP	03 32 56	d	
		e	58.8	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1952			h. m. s.			
	F	e	33 18.6	c		
		eP	06.0	c		
		e	00.8	c		
		e	30.8			
	R	e(P)	13.8	d		
		e	26.0	c		
	SH	eP	32 55.3	d		
		i	57.3	c		
	25	MH	e	33 44.5	c	
			e	04 04 08.9	c	USCGS: 5 $\frac{1}{2}$ °S, 151 $\frac{1}{2}$ °E, 0 = 03-51-01.
		e	18.6	c		
		F	eP	16.5	d	
	M	e	05 33.5	d		
		e	07 13.5	c		
eP		04 11.1	d			
e(P)		08.0	c			
25	MH	e	17.9	d		
		eP	05 22 21.2	d	USCGS: Fox Islands, Aleutian Islands, 0 = 05-14-58.	
25	M	eP	05.8	d		
		e	09 56 34.5	c		
	MH	e	24.5	c		
		e	48.1	d		
25	R	e	40			
		e	15.0			
	SH	e	12 25 07.9	c	USCGS: 5 $\frac{1}{2}$ °S, 153°E, 0 = 12-12-04.	
		e(P)	03.0	d		
25	MH	e(P)	07.1	d		
		e	15 09 53.0	d	USCGS: 5 $\frac{1}{2}$ °S, 153°E, 0 = 14-56-42.	
	F	e	10 02.5			
		e	09 51.7	d		
25	R	e	48.6			
		e	10 41.7			
	SH	e	09 44.8	c		
		e	53.5	d		
25	MH	eP	23 18 14.0	c	USCGS: 53°N, 159°E, 0 = 23-08-35.	
		e	27.6	d		
	M	eP	17 50.9	c		
		e	18 10.6	c		
26	SH	e	00.1	c		
		e	11 26 21.3	c	USCGS: About 200 miles South of Fiji Islands, L - 600, 0 = 11-15-06.	
	B	i(P)	21.0	d		
		eP	26.1	d		
MH	i	28 30.9	c			
	ipP	59.3	d			
	e	26 25.0	d			
	eP	28 34.2	c			
F	eP	26 29.7	d			
	e	36.1	d			
	i	54.0	d			
	epP	28 37.5	d			
R	eP	26 34.1	d			

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	SH	e	27 42.0	c	
		eP	26 28.6	d	
		i	29.4	c	
27	MH	epP	28 34.0	c	
		e(P)	01 35 24.1	d	USCGS: 53°N, 160°E, 0 = 01-25-54.
		e	54.8	d	
	F	eP	35.0	c	
	M	e	22		
	R	eP	22.7	d	
		e	36 29.4	d	
27	SH	e	35 37		
	MH	eP	16 40 20.4	d	USCGS: 16°S, 173°W, 0 = 16-28-04.
		e	27.4	d	
	SH	eP	25.5	d	
28	B	iP	05 02 32.0	c	USCGS: 65½°N, 167½°W, 0 = 04-55-06, Near West Coast of Seward Peninsula, Alaska.
	MH	e	02 35.9	c	
	F	e	47.0		
	M	eP	11.3	c	
		i	22.6	c	
		e(PeP)	04 32.0	d	
	R	e	02 31.5		
		e	03 04.9	d	
	SH	eP	02 07.0		
		e	41.6	c	
28	MH	e	05 34 14.0	c	USCGS: Seward Peninsula Aftershock, 0 = 05-26-08.
	M	eP	33 14.1	c	
		i	40.8	d	
28	M	e	08 35 45.5	c	
28	MH	e	15 04 07.2	d	USCGS: 6°N, 127°E, 0 = 14-49-14.
	R	eP	03 20		
	SH	eP	08.2	d	
		ePP	07 15.8	c	
28	MH	e	15 15 23.4	c	USCGS: 6°N, 127°E, 0 = 15-01-19, Felt: Davao.
		e	18 39.1	c	
	M	e	15 30.0		
	SH	eP	14.4	c	
		e	18 18.5		
		ePP	19 26.0		
29	B	iP	02 18 56.8	d	USCGS: 49°N, 158°E, 0 = 02-09-13.
		e	19 09.0	c	
		i	55.6	c	
	MH	iP	02.4	d	
		i	13.4	d	
		e	36.1	c	
		e	56.7	c	
	F	eP	12.8	d	
	M	iP	18 43.9	d	
		i	48.5	d	
		i	19 19.2	c	
		i	20 13.2	c	
	R	iP	19 01.4	d	
		e	19.6	d	

Date	Sta.	Phase	Time(GCT)	Ground Motion	Remarks
1952			h. m. s.		
	C	iP	18 23		
	SH	iFNZ	44.4	d	
		e	19 01.2	c	
29	MH	e(PP)	20 50		
		eP	09 33 49.4	c	
	M	eP	40.5	d	
		e	34 02.7	c	
		e	41.8	c	
29	SH	eP	33 37.7	d	
	MH	iP	12 17 48.1	c	USCGS: 19°S, 178°W, h = 600 km, 0 = 12-06-52.
		e	54.7	d	
	F	eP	53.0	c	
	M	eP	57.6	c	
		e	18 08.5	d	
29	SH	iP	17 56.3	c	
	B	eP	12 27 04.9		
	MH	e?	02.3	c	
		e	09.5	c	
	F	eP	20.0	c	
	M	eP	26 48.0	d	
		i	56.4	d	
		i	27 19.8	d	
	R	eP	03.7		
		e	40.4	c	
	SH	eP	26 42.3	c	
		i	51.7	d	
29	MH	eP	12 34 26.5	c	USCGS: 51°N, 160°E, 0 = 12-24-52.
		e	37.0	d	
	M	eP	11.8	c	
	R	e	25.3	c	
		e	35 00.6	c	
29	SH	eP	34 07.4	c	
	MH	iP	14 04 34.5	c	
		e	47.3	d	
	F	eP	45.0	c	
	M	iP	19.2	c	
		i	24.4	d	
	R	eP	32.3		
	SH	iP	14.3	c	
		e	32.1	c	
29	M	e	18 41 33.1	d	USCGS: New Britain Aftershock, 0 = 18-28-14.
29	MH	e	21 37 44.9	d	
		e	52.1	d	
	SH	e	36.0		
		e	49.0		
29	B	e	23 34 24.5	d	USCGS: 21°S, 178½°W, h = 500 km, 0 = 23-21-20.
	MH	iP	32 37.2	d	
		i	33 04.3	c	
		epP	34 23.2	c	
		i	28.0	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
	F	i	38.4	d	
		eP	32 41.5	d	
		epP	34 29.0	d	
	M	ipP	34.7	d	
	R	iP	32 50.2		
		e	33 11.6		
	SH	iP	32 45.2	d	
		ipP	34 33.0	d	
		eN	36.0		
		iEZ	36.7	d	
		e	36 31.0	c	
30	M	iP	06 49 54.4	c	USCGS: 61°N, 148½° W, h = 100 km, O = 06-44-22.
		i	50 09.3	d	
	R	e	08.6		
	SH	iP	49 49.2	c	
30	MH	eP	12 15 13.9	c	USCGS: 10½°N, 84°W, O = 12-07-02.
		e	59.2	c	
	M	eP	30.2	c	
		e	51.6	d	
		e(PcP)	17 10.6	d	
		e(PP)	17.0	d	
	R	eP	15 11.9		
		e	40.2		
30	MH	iP	18 39 51.1	c	USCGS: 19°S, 178°W, h = 500 km, O = 18-28-42.
		e	55.1	c	
	M	eP	40 00.4	c	
		i	06.4	c	
		epP	41 51.8	d	
	R	eP	40 05.0		
	SH	iP	39 59.0	c	
31	MH	eP	01 48 33.1	c	USCGS: 12°N, 59°W, O = 01-38-14.
		i	46.6	c	
	M	eP	35.9	c	
		i	40.9	c	
		i	52.5	d	
		i	49 19.9	d	
	R	eP	48 27.4	c	
		e	41.1		
	C	eP	46		
	SH	eP	38.7		
		e	55.8	c	
		e	49 43.5		
31	MH	e	12 26 07.9	c	
	M	e	25 47.0	d	
		e	26 09.9	c	
		i	24.8	d	
	R	e	08.2		
	SH	e	25 55.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1952			h. m. s.		
31	MH	i	21 54 40.0	c	USCGS: 49°N, 156°E, O = 21-43-49.
		e	44.3	c	
	F	e(P)	13.5		
	M	eP	53 35.2	c	
		i	53.1	d	
	SH	eP	30.3	c	
		e	58.4	d	