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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 January 1, 1954, to March 31, 1954

BY
DON TOCHER

UNIVERSITY OF CALIFORNIA PRESS
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1955

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,
RENO, CORVALLIS AND SHASTA

JANUARY 1, 1954 TO MARCH 31, 1954

VOLUME 24 NUMBER 1

By Don Tocher

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EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

The list following this page gives the latitude and longitude of epicenters for earthquakes well enough recorded to permit such a determination.

Map No. refers to the map immediately following the epicenter list.

Date and Origin Time are given in Greenwich Civil Time. Subtract eight (8) hours to get Pacific Standard Time. This will change the date for some of the earthquakes.

M refers to the Richter Magnitude, determined from trace amplitudes of the Wood-Anderson Seismographs, and using the nomogram given by Nordquist in the "Bulletin of the Seismological Society of America," 32:164.

Q represents the excellence with which the epicenter has been located, "a" indicating excellent, "b" good, "c" fair, and "d" poor.

Under Remarks will be found a short descriptive location of the epicenter, as well as information on small foreshocks and aftershocks, and the intensity of shocks which were reported felt. Reports on felt earthquakes are chiefly those collected by the United States Coast and Geodetic Survey, which publishes a more complete summary of such reports in "Abstracts of Earthquake Reports for the Pacific Coast and the Western Mountain Region." Intensities are given by Roman numerals 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:

- 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.
- VIII General fall of chimneys; great damage to poorly built structures.

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
1	Jan. 1	13-30-00	3.4	39.0°	123.2°	d	8 miles south of Ukiah. III at Ukiah.
2	1	17-16-00	4.4	40° 24'	126° 34'	b	115 miles west of Ferndale.
3	2	13-21-52	2.0	37° 27'	121° 51'	c	6 miles NE of San Jose.
4	3	09-48-33		43°	125°		Off coast of Oregon. Epicenter and origin time by USCGS.
4	3	11-14-52		43°	125°		Off coast of Oregon. Epicenter and origin time by USCGS.
5	4	04-41-33	3.3	40.5°	119.5°	d	Southwest of Gerlach, Nevada.
5	4	11-44-40	3.9	40.5°	119.5°	d	Southwest of Gerlach, Nevada.
6	4	23-03-11	3.2	36° 07'	120° 37'	b	14 miles west of Coalinga.
7	5	00-23-23	3.0	35° 56'	120° 00'	c	Southeast of Coalinga.
8	6	22-45-30	1.8	37° 12'	122° 17'	c	Northwest of Santa Cruz.
9	7	07-46-11	3.7	40° 19'	124° 45'	b	30 miles SW of Ferndale.
9	7	08-04-06	3.0	40° 19'	124° 45'	c	Aftershock.
10	7	21-39-47	3.5	42.5°	125.9°	d	Off coast of Oregon.
11	11	20-17-44	3.2	37° 53'	121° 28'	c	Near Hollister.
12	15	03-27-43	3.4	38.4°	119.0°	d	North of Mono Lake.
13	15	22-02-18	2.6	36° 30'	121° 14'	c	North of King City.
14	16	10-12-11	2.2	38.1°	122.8°	d	Northwest of San Francisco Foreshock at 09-53-57.
15	19	08-38-15	2.7	37° 25'	121° 42'	b	Northwest of Mt. Hamilton.
16	22	09-32-17	2.6	38° 48'	121° 25'	c	South of Hollister.
17	23	11-21-55	2.7	36° 57'	121° 48'	c	11 miles east of Santa Cruz
17	24	06-37-26	2.0	36.9°	121.7°	d	Aftershock.
18	24	19-06-45	3.1	35° 47'	121° 05'	c	30 miles south of King City.
19	25	16-45-26	2.9	39.3°	122.8°	d	Northeast of Ukiah.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
20	Jan. 25	23-11-19	1.7	37° 31'	121° 58'	c	North of San Jose.
21	29	07-36-56	2.8	38° 30'	122° 39'	c	Northeast of Santa Rosa.
22	29	22-41-27	1.6	37° 38'	122° 29'	b	South of San Francisco.
23	31	17-45-26	2.4	37° 51'	121° 53'	c	Foreshock.
23	31	17-49-34	2.1	37° 51'	121° 52'	c	Foreshock.
23	31	17-50-13	2.6	37° 51'	121° 52'	b	Foreshock.
23	31	23-58-20	2.8	37° 51'	121° 53'	b	Northwest of Livermore
23	Feb. 1	00-20-31	1.9	37° 52'	121° 55'	b	Aftershock.
24	1	04-58-54	2.6	36.8°	121.5°	d	6 miles SW of Hollister.
25	2	08-51-07	2.6	36° 48'	121° 25'	b	South of Hollister.
26	3	09-34-37	1.7	37° 17'	121° 38'	c	Near Mt. Hamilton.
27	4	00-55-12	3.2	40.4°	123.5°	d	Northeast of Garberville.
28	4	11-12-18	3.4	40° 32'	121° 30'	c	Northeast of Mineral.
29	4	19-08-14	3.3	37° 45'	122° 07'	a	10 miles SE of Berkeley. Felt over about 500 square miles of the San Francisco Bay region. Maximum intensity V at Hayward and Walnut Creek.
30	6	20-40-37	1.9	37° 47'	122° 08'	a	9 miles SE of Berkeley.
30	8	15-23-45	3.5	37° 48'	122° 08'	a	8 miles SE of Berkeley. Felt in San Francisco Bay region from Martinez south to Hayward. Maximum intensity of IV at Alamo, Canyon, Oakland, and San Francisco.
31	10	05-40-04	2.5	37° 53'	121° 57'	b	17 miles east of Berkeley.
32	14	17-38-15	2.5	37° 48'	122° 04'	b	11 miles ESE of Berkeley. Felt by one person in El Cerrito.
33	16	09-02-02	2.0	37° 43'	122° 09'	b	10 miles SE of Berkeley.
34	17	02-34-29	2.9	36.6°	121.2°	d	West of Llanada.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude	Longitude	Q	Remarks
				North	West		
35	Feb. 17	03-00-34	2.2	36.8°	121.5°	d	Southwest of Hollister.
36	17	05-32-05	2.3	36.6°	121.2°	d	West of Llanada.
37	19	21-06-28	3.1	37° 46'	122° 08'	b	10 miles SE of Berkeley. V at Canyon and Moraga.
38.	20	22-07-13	3.3	39.5°	120.0°	d	9 miles west of Reno, Nevada. Felt by a few residents of Reno.
39	26	13-31-49	2.8	39.3°	120.1°	d	Near Truckee.
40	26	15-40-16	2.7	39.3°	120.2°	d	Near Truckee.
41	Mar. 2	12-09-26	3.6	40.4°	125.2°	d	50 miles WSW of Ferndale.
42	2	13-32-07	2.0	37° 52'	121° 58'	b	17 miles east of Berkeley.
43	3	13-08-50	1.8	36° 55'	121° 39'	c	Foreshock of April 25 at 2033.
44	4	03-19-18	2.1	37° 52'	122° 00'	c	13 miles east of Berkeley.
45	4	05-00-47	3.2	38.7°	119.8°	d	Near Markleeville.
46	9	19-55-30	3.6	35.9°	120.5°	d	16 miles SSE of Coalinga. Felt near Parkfield.
47	14	03-03-56	2.5	39.3°	119.6°	d	Southeast of Reno, Nevada.
48	14	19-08-20	1.9	37.0°	122.5°	d	West of Santa Cruz.
49	15	10-44-46	2.6	36° 58'	121° 20'	c	Northeast of Hollister.
50	16	01-42-57	3.4	37° 27'	121° 47'	b	Northeast of San Jose.
50	16	03-31-05	2.6	37° 27'	121° 47'	c	Aftershock.
51	16	06-26-58	2.4	36.6°	121.1°	d	West of Llanada.
52	18	12-07-53	3.0	35.4°	120.9°	d	Northwest of San Luis Obispo.
53	19	04-32-31	3.4	39.1°	119.6°	d	30 miles SSE of Reno, Nevada. III at Carson City.
54	21	15-59-29	3.6	36.8°	121.4°	d	Near Hollister.
55	22	00-43-29	1.9	37° 16'	121° 40'	c	Near Mt. Hamilton.
56	22	11-26-30	2.1	37° 18'	121° 30'	c	East of Mt. Hamilton.
57	23	09-23-31	2.3	37° 25'	121° 45'	c	Northwest of Mt. Hamilton.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude	Longitude	Q	Remarks
				North	West		
58	Mar. 25	00-59-33	3.9	38.2°	118.8°	d	Southwest of Hawthorne, Nevada.
59	27	15-43-31	4.4	36° 31'	121° 10'	c	15 miles WSW of Llanada. V at Pinnacles National Monument. IV at Greenfield, San Benito, and 7 miles south of Hollister.
60	27	16-49-07	3.2	40.6°	124.8°	d	30 miles west of Ferndale.
61	29	03-23-27	2.1	38° 08'	122° 33'	b	23 miles NW of Berkeley.
62	29	13-33-38	4.1	41.0°	125.2°	d	60 miles west of Arcata.
63	30	18-35-13	3.9	41.1°	120.7°	d	Southwest of Alturas.
64	30	23-41-33	3.7	39.3°	119.1°	d	Southwest of Fallon, Nevada.

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
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° 34.6'	124° 15.7'	15	50	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 20.8	121° 36.1'	1195	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:

- 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:

- 2 - Horizontal-component Wood-Anderson torsion.

Reno:

- 3 - Components short-period Sprengnether.

Corvallis:

- 3 - Components short-period Slichter.

Shasta:

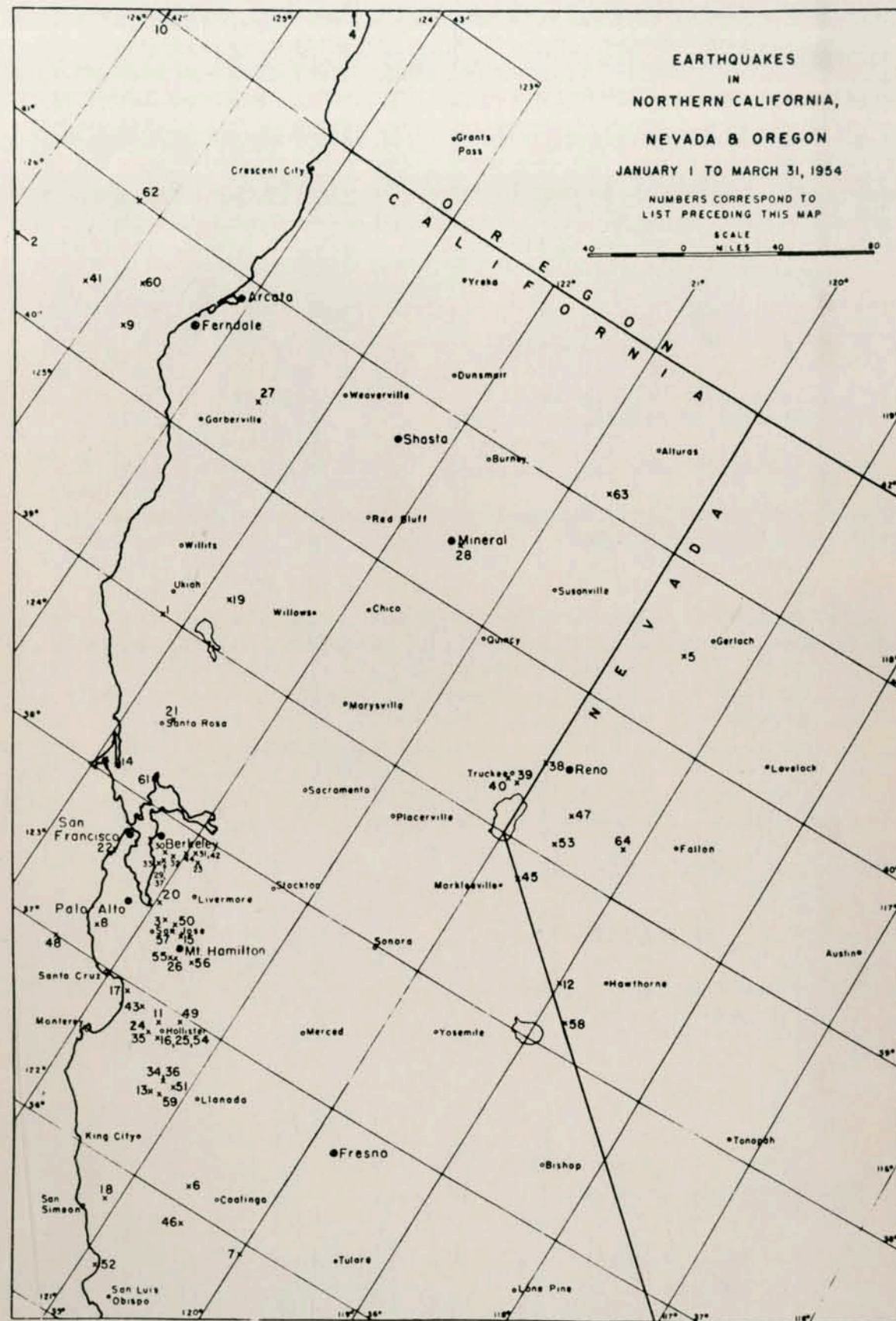
- 3 - Components short-period Benioff.

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
1954			h. m. s.		
Jan. 1	B	eP ¹¹ epP ¹¹ e e e	13 22 53.6 23 17.4 24 48 26 21		USCGS: 8-1/2°S, 124°E, h = 100, 0 - 13 04 17. Sawoe Sea. Pas: Magnitude 6-1/2.
	MH	eP ¹¹ ipP ¹¹ i	22 52.9 23 19.2 26 21.8		
	F	eP ¹¹ i	23 01.5 26 26.0		
	M	ipP ¹¹ i i i	22 52.4 23 04.1 25.8 26 19.7		
	R	eP ¹¹ e	22 55 26 24		
Jan. 1	MH	e	20 37 14		
	M	e	29		
Jan. 2	M	eP	11 20 29.8		
Jan. 2	M	e	12 50 17		USCGS: 43°N, 147°E, 0 = 13 52 27 Off East Coast of Hokkaido, Japan.
Jan. 2	MH	eP e	14 03 30.6 06 15		
	M	eP	03 10.2		
	R	eP	28		
Jan. 2	F	eP	20 24 26.1		USCGS: 54°N, 165°W, 0 = 20 17 25. Fox Islands, Aleutian Islands.
	M	e	01.0		
	R	eP	15.3		
	PA	eP	15.9		
	SH	eP	23 49.2		
Jan. 3	C	eP	04 04 49		
Jan. 3	MH	eP	06 05 32		
	M	eP	05		
	SH	e	04 54		
Jan. 3	MH	ipP ¹¹ e	09 49 58.6 51 12		USCGS: 43°N, 125°W, 0 = 09 48 33 Off Coast of Oregon.
	M	eP	49 28.5		
	C	eP	12		
	SH	eP	18		
		i	50 17		
		i	52 10		
		eEZ	53 43		
Jan. 3	MH	eP	11 16 16	c	USCGS: 43°N, 125°W, 0 = 11 14 52 Off Coast of Oregon.
	M	ipP ¹¹	15 47.7	c	
	SH	eP	37		
		e	16 36		
Jan. 4	MH	ipP ¹¹	11 24 38.5		USCGS: 9°N, 85°W, 0 = 11 16 29 Near Southwest Coast of Costa Rica.
	M	eP	49.9		
Jan. 4	B	eP ¹¹	12 28 24		USCGS: Bovet Island Region, South Atlantic Ocean. 0 = 12 08 49.
	MH	ipP ¹¹	22		
	M	eP ¹¹	20		
	R	e	33		
	SH	eP ¹¹	22		



Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 5	MH	iP	02 01 01.2		
	M	iP	04.9		
Jan. 5	M	iP	02 29 22.7		
Jan. 5	M	eP	03 28 43.4		USCGS: 43°N, 147°E, 0 = 03 18 00. Off East Coast of Hokkaido, Japan.
		i	56.6		
Jan. 5	MH	eP	07 28 32		USCGS: 76°N, 6°E, 0 = 07 18 10. Spitzbergen Foreshock.
	M	eP	12		
Jan. 5	M	e	12 32 59		
Jan. 6	MH	e	02 52 59		
	M	e	53 08		
Jan. 6	MH	e	15 30 17		
Jan. 6	MH	eP	16 04 22		USCGS: 76°N, 7°E, 0 = 15 53 59. Southwest of Spitzbergen.
	F	eP	24		
	M	eP	03 57		
	R	e	04 05		
	SH	eP	03 57		
Jan. 7	MH	iP	04 20 56.8	c	USCGS: 25°S, 179-1/2°E, 0 = 04 08 24. South of Fiji Islands.
	F	eP	59		
	M	iP	21 06.0	c	
	SH	iP	05.0	c	
Jan. 7	BG	iN	07 10 09		USCGS: About 500 miles South of Fiji Islands. 0 = 06 48 50.
	MH	e	01 42		
	F	eP	18		
	M	iP	31.2		
	SH	iP	32.4		
Jan. 7	M	eP	13 48 55		
	SH	iP	52.8		
Jan. 7	MH	e	21 41 17		
	M	eP	40 47		
	C	eP	32		
Jan. 8	M	e	04 25 00		USCGS: Near North Coast of Honshu, Japan. 0 = 04 13 45.
		e	36		
	SH	i	24 56.5		
Jan. 8	M	e	13 18 59		
Jan. 9	M	e	00 41 25		
Jan. 9	MH	eP	01 51 56	c	USCGS: 5-1/2°N, 83°W, 0 = 01 43 15. South of Panama.
		i	53 39		
	F	e	52 38		
	M'	eP	07	c	
		e	44		
		e	55 06		
	R	ePNZ	51 56	c	
Jan. 9	MH	i	08 18 27		USCGS: 34-1/2°N, 141°E, 0 = 08 06 30. Off Coast of Honshu, Japan.
		i	19 14		
	F	e	18 21		
	M	e	09		
	SH	e	17 59		
Jan. 9	M	eP	16 35 59		
	SH	i	36 01		
Jan. 10	M	eP	09 05 39		USCGS: 65-1/2°N, 136-1/2°W, 0 = 08 59 58. Yukon, Canada.
		i	54		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 10	M	iP	11 06 21.5		
Jan. 10	M	e	13 06 59		
Jan. 10	C	eP	19 11 19		
Jan. 11	M	eP	06 29 25		
Jan. 11	MH	i(P)	17 22 19.2	c	USCGS: 23°N, 126°E, 0 = 17 09 02. Ryukyu Islands Region.
	M	eP	10.2	c	
	SH	eP	06.9		
Jan. 11	MH	i	23 04 24.8		
	M	i	19.3		
Jan. 12	BG	iPP	14 39 11		USCGS: 49°S, 165°E, 0 = 14 16 22. Off Coast of South Island, New Zealand.
		eN	47 27		Pas: Magnitude 6-3/4 - 7.
		iPS	48 39		
		e	50 12		
		iSSNEZ	55 05		
		eNE	15 09.6		
		eNE	16.0		
	MH	iPP	14 39 11.0		
	F	e	04		
	M	e	51		
	R	e	41		
	C	eL	15 20.7		
Jan. 12	B	iP	23 34 46.3	d	Pas: 35° 00'N, 119° 01'W, 0 = 23 33 48.6 Near Wheeler Ridge, California. Largest shock in the Kern County Area since Aug. 1952. Magnitude 5.9.
	MH	iP	35 30.0	d	
		iN	34 36.2		
	PA	iP	35 22.3	d	
	SF	ePE	34 41.1		
		eE	47.2		
	F	iPNZ	35 28	d	USCGS: Strong and widely felt Aftershock of 21 July 1952. Generally felt area approx. 35,000 square miles. Maximum intensity VIII in a small area east of Maricopa.
	A	ePNE	34 19.4		
		eN	35 34.6		
	R	iP	37 22.7		
	C	eP	34 59.2		
		eS	36 20		
		e	38 36		
		e	39 21		
Jan. 13	BG	ePP	00 32 09	c	USCGS: 49°S, 165°E, 0 = 00 13 06 Off Coast of South Island, New Zealand.
		ePSNE	41 34		
		e	42 42		
		eLNE	01 00.8		Pas: Magnitude 7-1/4.
	MH	ePP	00 32 07		
		e	43 17		
		e	01 16.1		
	F	ePP	00 32 05		
		e	42 59		
	M	e	32 41		
		e	42 58		
	M	eP	02 25 44		USCGS: Celebes Sea. 0 = 02 11 25
Jan. 14	M	e	08 20 49		
Jan. 14	B	iP	19 44 23.8		USCGS: Fox Islands, Aleutian Islands. Slightly deeper than normal.
	MH	iP	29.2		0 = 19 37 38.
		ipP	41.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 14	F	eP	42.8		
		e	58		
		e	45 09		
	M	iP	44 13.3		
Jan. 14	MH	eP	23 36 40		
Jan. 15	M	eP	03 36 49		USCGS: Kermadec Islands. 0 = 03 24 03.
	SH	eP	48		
Jan. 15	M	iP	19 26 33.9		
	SH	iP	31.2		
Jan. 15	B	eP	23 42 17		USCGS: 19-1/2°S, 174°W, Slightly deeper than normal. 0 = 23 30 32. Tonga Islands.
	MH	iP	17.9		
		i	32.6		
	F	iP	22.0		
		i	37.3		
	SH	iP	27.0		
Jan. 16	B	iP	22 48 31.1		USCGS: 49°N, 129-1/2°W, 0 = 22 45 27. Off Coast of Vancouver Island, British Columbia.
	BG	e(S)E	51 03		
	MH	eP	48 36.6		
	F	iP	52.9		
	M	eP	00.6		
	R	i	32.9		
	C	eP	47 04		
		e(S)	49 14		
	SH	iP	47 54.1		
Jan. 17	F	e	03 15 12		USCGS: Tonga Islands. 0 = 03 03 20.
	R	e	21		
	SH	e	13		
Jan. 17	SH	iP	11 57 37.1		USCGS: 36°N, 139-1/2°E, h = 60, 0 = 11 46 10. Central Honshu, Japan. Felt: Tokyo.
Jan. 17	B	iP'	17 59 32.5		USCGS: 16-1/2°S, 36°E, 0 = 17 39 33. Mozambique.
	MH	iP'	32.3		
	F	eP'	28		
	R	iP'	24.9		
	SH	eP'	21.7		
Jan. 17	B	iP	20 51 34.3	d	USCGS: 52°N, 178-1/2°E, h = 150, 0 = 20 43 43. Rat Islands, Aleutian Islands.
		ipP	58.2	c	
	MH	iP	40.0	d	
		ipP	52 04.0	c	
		i	53 24.1		
	F	eP	51 52		
	M	iP	24.5	c	
		e	53 04		
	R	eP	51 36.4		
		e	54		
	SH	iP	19.8	c	
		epP	41.8		
Jan. 17	MH	iP	23 33 26.6		
Jan. 18	MH	iP	09 52 42.2		USCGS: New Hebrides Islands. 0 = 09 39 58.
Jan. 19	MH	iP	21 28 08.1		USCGS: 14°S, 175-1/2°W, 0 = 21 16 40. Samoa Islands Region.
	F	eP	11		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 19	M	e	22		
	R	e	23		
	SH	eP	17		
Jan. 20	M	iP	00 51 42.5		
		i	52 55.2		
Jan. 20	B	eP	04 23 19		USCGS: 8-1/2°N, 103-1/2°W, 0 = 04 16 25. Pacific Ocean, South of Mexico. Pas: Magnitude 6.
	BG	iSN	28 49		
		eE	31.1		
		eN	33.1		
	MH	iP	23 10.0		
	F	eP	22 59		
	M	eP	23 30		
		e	54		
		e	25 01		
	R	eP	23 22		
	SH	iP	35.3		
Jan. 20	M	e	08 57 34		
Jan. 20	M	e	13 59 18		
Jan. 20	B	iP	14 01 53.3	c	USCGS: 21°S, 176-1/2°W, h = 200, 0 = 13 50 14. Tonga Islands.
		e	02 47		
	MH	iP	01 53.9	c	
		i	02 06.2		
		i	20.0		
		i	37.5		
	F	eP	01 58		
		e	02 47		
	M	eP	03.6	c	
		i	19.2		
		i	53.0		
	R	eP	06		
		e	59		
	SH	e	11		
		i	17		
		e	51		
Jan. 20	M	iP	14 50 20.9		
Jan. 20	M	eP	20 53 03		USCGS: 41-1/2°N, 105-1/2°W, 0 = 20 50 01. Southeastern Wyoming. Felt: Laramie.
Jan. 22	MH	e	09 25 09		
Jan. 22	MH	eP	11 22 43		USCGS: 54°N, 163°W, h = 60, 0 = 11 16 07. Near Unimak Island.
		e	23 02		
	F	e(P)	22 52		
		e	23 14		
	M	e	22 41		
	SH	eP	16		
		e	29		
Jan. 22	B	iP	21 35 40.2		USCGS: 20°S, 169°E, h = 100, 0 = 21 23 04. Loyalty Islands.
		ipP	36 05.1		
	BG	e(S)NE	46 20		
	MH	iP	35 38.5		
		i	36 05.7		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 22	F	i	15.9		
		iP	35 45.8		
		epP	36 09.3		
		i	37 49.1		
	M	eP	35 48		
		epP	36 10		
	R	iP	35 51.9		
	SH	i	36 14.8		
		e	38		
Jan. 22	MH	eP	23 32 47		Pas: Gulf of California? 0 - 23 31, M = 5.
		i	33 27		
		i	34 40		
		i	35 11		
		i	41		
	F	e	32 55		
		i	34 32		
	M	e	36 31		
	R	e(P)	33 07		
Jan. 23	MH	iP	11 47 55.8		
	F	e	48 02		
	M	e	48 38		
Jan. 25	MH	eP	12 16 34		
		i	44		
	M	eP	45		
Jan. 26	MH	eP	09 12 06		USCGS: 6-1/2°S, 152°E, 0 = 08 58 59.
		e	09		
Jan. 26	MH	eP	14 11 11		
		e	21		
		e	24		
	F	e	57		
Jan. 27	MH	e	02 29 11		
		e	45		
		e	21		
	M	e	31		
	R	e	27		
Jan. 27	F	eP	02 53 50		
	M	eP	55		
	R	eP	54 00		
Jan. 27	M	e	10 35 57		USCGS: 56-1.2°N, 157°W, slightly deeper than normal. 0 = 10 30 00. Near Coast of Alaska.
		e	36 14		
Jan. 27	B	iP	14 20 49.1		Pas: 35° 09'N, 118° 38'W, 0 = 14 19 48. Magnitude 5.0. Cummings Valley, California.
		eSNE	21 36		
	MH	iP	20 38.9		
		iSNE	21 21.8		
	PA	ePNE	20 46.7		
	M	eP	21 18.2		
		iSE	22 14.2		
	R	eP	20 59.8		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 27	MH	iP	18 22 02.2		USCGS: Near Coast of Guerrero, Mexico. h = 60, 0 = 18 16 07. Felt.
		i	12.7		
	F	eP	21 48		
		e	22 27		
	M	eP	20		
	R	eP	07		
Jan. 28	C	eP	06 34 00		
Jan. 28	MH	iP	11 19 37.5		
		i	50.1		
	M	eP	44		
Jan. 28	MH	iP	22 20 47.3		USCGS: Near Coast of Guerrero, Mexico. h = 60, 0 = 22 14 54. Felt.
		i	50.0		
		i	54.1		
		i	21 04.9		
	F	eP	20 35		
	M	eP	21 08		
		e	16		
	R	eP	20 55		
		e	21 13		
Jan. 29	MH	e	01 48 08		
	M	e	11		
Jan. 29	MH	i	02 05 28		
Jan. 29	B	iP	08 12 51.1		USCGS: 8-1/2°S, 159°E, h = 100, 0 = 08 00 14 Solomon Islands.
		e	13 27		
	MH	iP	12 53.1		
		i	13 26.2		
		i	31.6		
		i	45.1		
	F	eP	12 59		
		e	13 35		
	M	eP	12 56		
		e	13 04		
		e	52		
	R	iP	02.9		
		i	54.8		
		e	14 46		
	SH	eP	12 54		
		e	13 31		
		i	52		
Jan. 29	MH	eP	10 55 25		
	M	eP	25		
	SH	e	32		
Jan. 29	MH	iP	21 12 43.9		
		i	54.3		
	M	e(P)	54		
Jan. 30	MH	eP	18 34 24		USCGS: 54°N, 163°W, 0 = 18 27 44. Near Unimak Island, Alaska.
		e	37		
	M	eP	07		
	R	e	32		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Jan. 30	MH	e	23 35 56		
		e	36 01		
		i	08		
	F	e	08		
	M	e	05		
		e	09		
	R	e	14		
Jan. 31	MH	e	03 34 13		
		i	22		
	M	e	07		
Jan. 31	MH	eP	11 53 01		USCGS: 52°N, 160°E, 0 = 11 43 27 Off East Coast of Kamchatka.
		e	14		
	F	eP	12		
	M	eP	52 49		
	R	eP	53 00		
Jan. 31	B	iP	14 14 24.3	c	USCGS: 21°S, 179-1/2°E, h = 600, 0 = 14 03 10. Fiji Islands Region.
	MH	iP	22.9	c	
		iP	28.8	c	
	M	eP	33.8	d	
	R	eP	36.3		
Feb. 1	MH	iP	00 44 13.9		USCGS: Fiji Islands Region. h = 300, 0 = 00 32 00.
	F	eP	19		
	M	eP	23		
Feb. 1	B	iP	01 18 58.0	d	USCGS: 24-1/2°N, 142-1/2°E, 0 = 01 06 51. Volcano Islands. Pas: Magnitude 7-1/4.
		e	21 52		
	BG	e(S)NE	29 14	NW	
		iE	30 25		
		e(SS)N	34 24		
		eRNZ	42.6		
		A T			
		PZ	7 4		
		(S)H	16 11		
		MH	120 22		
		MZ	75 22		
	MH	iP	01 19 01.4	d	
		i	20 10.7		
		e	29 12		
		eRNEZ	44.0		
	F	iP	19 09.7	d	
	M	iP	18 54.7	d	
		i	21 56.0		
		e	22 46		
	A	ePNE	18 47		
	R	iP	19 03.7	d	
	C	eP	18 50		
		e(S)	28 43		
	SH	iP	18 48.1	d	
		i	21 52.3		
		e(S)E	29 03		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 1	B	iP	01 32 16.7	d	USCGS: 24°N, 142-1/2°E, 0 = 01 20 07. Volcano Island Aftershock.
	MH	iP	20.2	d	
		i	51.6		
	F	iP	28.6	d	
	M	iP	13.8	d	
	R	iP	22.6	d	
	SH	iP	10.9	d	
Feb. 1	MH	e	02 06 08		
	M	e	00		
Feb. 1	B	iP	02 35 22.5	d	USCGS: 24°N, 142-1/2°E, 0 = 02 23 13. Volcano Island Aftershock
	MH	iP	26.0	d	
	F	eP	34.5	d	
	M	eP	19.3	d	
	R	eP	28.6	d	
Feb. 1	B	eP	04 15 20.3	d	USCGS: 24°N, 142-1/2°E, 0 = 04 03 11. Volcano Island Aftershock.
	MH	eP	24.0	d	
	M	eP	18		
Feb. 1	B	e	04 26 09		Pas: 32.3°N, 115.3°W, 0 = 04 23 57. Lower California. Magnitude 5.2.
	MH	eP	25 29.3		
	F	eP	18.5		USCGS: Felt at Imperial and El Centro, California.
		i(S)NE	26 55.7		
	M	e	26 26		
	R	e	25 59		
	C	e	32 12		
Feb. 1	B	eP	04 33 56		Pas: 32.3°N, 115.3°W, 0 = 04 32 02. Lower California. Magnitude 5.6. Felt in Imperial Valley, California.
		eN	35 34		
		eE	36 08		
	MH	iP	33 45.4	c	
	F	iP	28.1		
		e(S)N	35 00		
	M	e	34 26		
	A	eNE	37 43		
	R	eP	34 07	c	
	C	eP	35 14		
		e	40 05		
Feb. 1	MH	e(P)	05 11 51		Pas: 32.3°N, 115.3°W, 0 = 05 10 07. Lower California. Magnitude 4.6.
	F	e	50		
	M	e	12 52		
	R	e	47		
Feb. 1	B	e	05 58 50.5		USCGS: 24°N, 142-1/2°E, 0 = 05 46 41. Volcano Island Aftershock.
	MH	e	55.4		
Feb. 1	MH	iP	06 21 10.3		
		i(pP)	38.7		
	M	eP	19.8		
		e(pP)	47.4		
Feb. 1	MH	eP	06 33 10		USCGS: Volcano Island Aftershock. 0 = 06 20 57
	M	eP	03		
Feb. 1	B	iP	08 28 18.9		USCGS: Kermadec Islands Region. 0 = 08 15 40
	MH	iP	18.3		
		i	38.7		
	F	eP	22		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 1	MH	eP	13 07 13		Pas: 32.3°N, 115.3°W, 0 = 13 05 29. Lower California. Magnitude 5.1 USCGS: Felt at El Centro, California.
		i(S)	08 41		
	F	e	06 56		
		i	07 16		
	M	e	56		
	R	e	33		
Feb. 1	MH	eP	14 10 27		USCGS: Greenland. 0 = 14 00 44.
	M	eP	05		
Feb. 1	MH	e	15 55 42		USCGS: Greenland. 0 = 15 46 00.
	F	e	43		
Feb. 2	M	e(P)	04 52 42		USCGS: 6-1/2°S, 81°W, 0 = 04 42 12 Near Coast of Peru.
Feb. 2	MH	iP	17 55 27.4		USCGS: 83°N, 7°E, 0 = 17 45 45. Off Northeast Coast of Greenland.
	F	iP	30.6		
	M	eP	05.0		
	SH	eP	02		
Feb. 2	MH	i	21 00 44		
	M	e	37		
	SH	i	34		
Feb. 3	MH	e	00 36 24		
Feb. 3	MH	eP	05 10 00		
	M	eP	09 54		
	SH	eP	51		
Feb. 3	MH	eP	08 15 51		USCGS: Off East Coast of Honshu, Japan. 0 = 08 04 06.
	M	eP	44		
	SH	iP	40		
Feb. 3	MH	iP	18 34 23.1		USCGS: 45-1/2°N, 148-1/2°E, h - 100, 0 = 18 23 53. Kurile Islands.
		i	48.7		
	F	eP	33		
		e	35 05		
	M	eP	34 11		
		e	47		
	R	eP	22		
	SH	iP	07.2		
		i	39.3		
Feb. 4	MH	e	02 01 33		
Feb. 4	MH	iP	03 55 08.1		USCGS: Off East Coast of Honshu, Japan. 0 = 03 43 21.
	M	eP	54 59		
	SH	iP	55.2		
Feb. 4	SH	e	05 05 41		
Feb. 4	MH	iP	06 14 35.0		
Feb. 4	MH	i	17 43 40.8		
		i	44 02.7		
Feb. 5	B	i(P)	09 32 48.0		USCGS: 4-1/2°S, 153°E, 0 = 09 19 42. Off Coast of New Britain.
		i	33 15.0		
		ePP	36 15		Pas: Magnitude 6-3/4 - 7.
	BG	iSE	43 10		
		eN	48 08		
		eSSN	49 27		
		eREZ	10 00.3		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 5			A T		
		SH	6 ¹ / ₂ 10		
		SSH	15 14		
		MAXH	85 20		
		MAXZ	70 20		
	MH	eP	09 32 45.4		
		e(SKPP')	10 02 04		
	F	eP	32 52		
	M	eP	49		
	R	eP	55		
	C	eP	40		
		eL	10 01.3		
	SH	eP	09 32 44		
Feb. 5	MH	i	13 18 12.3		USCGS: 7-1/2°N, 71-1/2°W, h = 100, 0 = 13 08 53. Columbia-Venezuela Border.
	R	e	09		
Feb. 5	B	eP	15 24 32		USCGS: 17-1/2°N, 92-1/2°W, h = 100, 0 = 15 17 59. Chiapas, Mexico. Extensive property damage. Pas: Magnitude 6-1/4.
		ePcP	27 17		
	BG	iSE	30 06		
		eLE	35.2		
	MH	eP	24 26		
		iPcP	27 16		
	F	eP	24 12		
	M	eP	40		
		e	26 05		
	A	eN	25 01		
	R	eP	24 26		
		ePcP	27 03		
	C	eP	25 07		
		e	42 45		
Feb. 5	MH	i	18 17 56		
	M	e	18 32		
	R	e	58		
	SH	e	27		
		e	38		
Feb. 5	MH	i	21 15 49.6		
	M	e	54		
	SH	e	50		
Feb. 6	MH	e	10 53 47		
	SH	e	54 09		
Feb. 7	MH	iP	00 23 10.3		
Feb. 7	MH	e	06 12 01		
	SH	e	11 52		
Feb. 7	B	iP	06 27 49.2	c	USCGS: 15°S, 167-1/2°E, h = 100, 0 = 06 15 21. New Hebrides, Islands. Pas: Magnitude 6.
		epP	28 24		
		iPP	31 06		
	BG	eSNE	39 02		
		eN	50 45		
			A T		
		PZ	2 6		
		SH	4 8		
		MAXH	10 18		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 7	MH	iP	06 27 50.5	c	
		i	28 12.4		
		ePP	31 07		
	F	iP	27 56.1	c	
		ipP	28 28.6		
		iPP	31 17.6		
	M	iP	27 56.3	c	
		e	28 06		
		e	12		
	R	iP	02		
	SH	iP	27 54.3	c	
		i	28 09.6		
		eSN	39 10		
Feb. 7	MH	e	06 53 51		
	F	e	55		
	M	e	52		
	R	e	47		
	SH	e	48		
Feb. 7	MH	i	10 34 25.4		
	F	e	22		
	M	e	38		
	R	e	39		
	SH	e	35		
Feb. 7	MH	i	11 37 52		
	SH	e	42		
Feb. 7	MH	iP	15 17 02.4		
	F	e(P)	16 52		
	M	eP	17 28		
	R	e(P)	14		
	SH	e(P)	34		
Feb. 7	MH	eP	21 51 08		USCGS: About 300 miles South of Kermadec Islands. 0 = 21 38 10.
	F	eP	12		
	M	eP	19		
	R	eP	22		
	SH	iP	17		
Feb. 7	MH	eP	22 41 27		
	F	e	29		
	M	e	35		
Feb. 8	B	iP	00 40 47.1		USCGS: Central Chile-Argentina Border Region. 0 = 00 28 20.
	MH	iP	43.6		
		i	41 28.0		
	F	iP	40 34.4		
	M	eP	53		
	R	eP	46		
	SH	iP	56		
Feb. 8	MH	eP	10 05 51		
Feb. 8	MH	iP	10 16 08.4		
	F	e	16		
	R	e	24		
Feb. 8	B	e(P)	10 17 30		
		e	18 00		
	MH	iP	17 31.4		

Date	Sta.	Phase	Time (GCT)	Remarks
1954			h. m. s.	
Feb. 8	F	eP	35	
	M	eP	42	
	R	eP	45	
	SH	e	51	
Feb. 8	B	iP	14 30 59.8	d USCGS: 22-1/2°S, 68°W, h = 150, O = 14 19 09. Northern Chile-Bolivia Border. Minor damage at Calama, Chile.
	BG	ipP	31 28.7	
		iSN	41 39	
		esSN	42 35	
		A T		
		SH	3 1/2 7	
	MH	iP	14 30 56.3	d
		ipP	31 24.9	
		i	39.2	
		i	33 02.8	
		e(PP)	34 03	
	F	iP	30 46.5	d
		epP	31 08	
		e	23	
	M	eP	05	d
		ipP	34	
		i	32 14	
	R	iP	30 58.7	d
		epP	31 27	
		e	44	
	SH	iP	08.4	d
		ipP	37.5	
		e	50	
Feb. 8	B	e	18 55 06	USCGS: 29-1/2°N, 141°E, O = 18 43 10. Off Southeast Coast of Honshu, Japan.
	MH	eP	08	
		i	13.2	
	F	eP	18	
	M	eP	00	
	R	eP	14	
	SH	eP	57	
Feb. 8	MH	eP	22 30 46	
	M	e	40	
Feb. 9	F	e	01 50 40	
	M	e	49 48	
	SH	e	41	
Feb. 9	MH	eP	04 14 58	USCGS: 43°N, 144°E, O = 04 03 58. Near East Coast of Hokkaido, Japan.
	M	eP	50	
	SH	e	45	
Feb. 9	MH	eP	09 05 44	USCGS: 19°N, 64°W, h = 60, O = 08 56 25. Leeward Islands.
		i	58	
		i	06 11	
		e	05 46	
	F	eP	45	
	M	eP	48	
	SH	i	06 02	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 9	MH	e(P)	13 56 42		
		e	57 20		
	F	i	38		
	M	e(P)	56 45		
		e	57 05		
	R	e	07		
Feb. 9	SH	e(P)	56 37		
	B	eP	17 46 21		USCGS: 53°N, 166-1/2°W, h = 100, O = 17 39 40. Fox Islands, Aleutian Islands.
		e	33		
	BG	eSE	51 48		
	MH	eP	46 25.5		
		i	33.8		
		i	47 00.6		
	F	eP	46 40		
		e	47 45		
	M	eP	46 10		
	R	iP	25		
	SH	iP	04.6		
		i	26.2		
Feb. 9	MH	iP	23 38 17.3		USCGS: North Atlantic Ocean, about 400 miles Southeast of Azores.
		e	40		
	M	e	32		
	SH	e	34		
		e	44		
Feb. 10	MH	iP	11 46 25.0		USCGS: 14°N, 143°E, O = 11 33 43. Marianas Islands.
		e	40		
	F	eP	36		
		e	42		
	M	eP	21		
	R	eP	32		
	SH	eP	18		
		e	38		
Feb. 10	MH	iP	17 23 28.1		
	M	e	13		
	SH	i	07.6		
Feb. 10	MH	e	20 37 09		
	M	e	06		
	SH	e	36 59		
Feb. 10	B	eP	23 59 38		Pas: 34° 56'N, 119° 04'W, O = 23 58 38. West of Grapevine Station, California. Magnitude: 4 - 5. Felt.
	MH	iP	26.2	c	
	F	iP	09.3	d	
		eSNE	33.6		
	PA	iP	31.6	c	
	M	eP	24 00 05.5	c	
	R	eP	23 59 54.9		
		eNZ	24 01 08		
	SH	eP	00 12.3		
		eSNE	01 42.7		
Feb. 11	B	iP	00 43 34.5	c	USCGS: 39-1/2°N, 101°E, O = 00 30 16. Ningsia Province, China.
	BG	ePP	47 20		
		eSKSNE	53 59		Pas: Magnitude 7-1/4 - 7-1/2.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 11	B	eNE	54 14		
		e	56 47		
		ePKKP	01 01 19		
		eP'P'	08 51		
		A T			
		PZ	15 8		
		PH	5 ¹ / ₂ 8		
		PPZ	13 9		
		PPH	8 9		
		SKSH	6 ¹ / ₂ 7		
		MAXH	125 17		
		MAXZ	70 17		
	MH	eP	00 43 37.1	c	
		i	46 09.5		
		iPP	47 26.2		
		e	51 11		
		eP'P'	01 08 51		
	F	eR	23.4		
		eP	00 43 43		
		eNE	54 29		
		eNE	55 08		
		iP'P'	01 08 46		
	M	ePNEZ	00 43 25.5	c	
		e	47 00		
		e	55 43		
		eP'P'	01 08 52		
	R	iP	00 43 32.4	c	
	C	eP	08		
		e	45 39		
	SH	iP	43 22.4	c	
		i	44 58.9		
		ePPN	47 04		
		eSKSN	53 56		
Feb. 11	M	e	03 11 28		
	SH	e	25		
Feb. 11	MH	e	05 07 12		
	M	e	06 55		
	SH	e	52		
Feb. 11	MH	eP	08 13 17		
	SH	e	27		
Feb. 11	MH	eP	14 43 19		USCGS: Leeward Islands. 0 = 14 33 50.
		i	37		
		e	44 23		
	F	eP	43 13		
	M	eP	20		
	SH	iP	23		
Feb. 11	B	iP	21 17 23.0		USCGS: 14-1/2°N, 144°E, 0 = 21 04 50.
	MH	iP	26.7		Marianas Islands.
	F	eP	33		
	M	eP	22		
	R	e	31		
	SH	iP	19		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 12	SH	e	01 00 46		
Feb. 12	M	iP	02 00 49.7		USCGS: 40°N, 100-1/2°E, 0 = 01 47 41.
		i	55.2		Ningsia, China Aftershock.
Feb. 12	MH	iP	10 20 04.4		USCGS: 17-1/2°S, 70°W, h - 150,
					0 = 10 08 46.
					Southern Peru.
		i	20.5		
		i	41.5		
	M	iP	14.3		
		i	49.5		
	R	eP	06		
	SH	iP	17.1		
		i	55.1		
		e	21 37		
Feb. 14	MH	eP	06 51 44		USCGS: 6-1/2°S, 81°W, 0 = 06 41 44.
	F	e	31		Near Coast of Northern Peru.
	M	eP	56		
	R	eP	42		
Feb. 14	MH	iP	10 54 15.4		USCGS: 17°S, 179-1/2°W, h = 600,
					0 = 10 43 01.
					Fiji Islands.
	F	iP	22.0		
		e(pP)	56 20		
	M	iP	54 24.3		
	R	iP	29.3		
Feb. 14	M	eP	14 53 53		USCGS: 33-1/2°N, 141°E, 0 = 14 42 02.
					Off Coast of Honshu, Japan.
Feb. 15	B	eP	03 31 32		USCGS: 5-1/2°N, 82-1/2°W, 0 = 03 22 45.
	MH	iP	25.9		South of Panama.
	F	iP	12.5		Pas: Magnitude 6-1/4 - 6-1/2.
	M	eP	37.7		
		e	33 34		
	R	iP	31 26.9		
	SH	iP	41.9		
Feb. 15	MH	eP	12 09 02		USCGS: 16-1/2°N, 100°W, Slightly deeper
	F	eP	08 45		than normal. 0 = 12 03 06.
	M	eP	09 21		Near Coast of Mexico. Damage
		e	43		at Acapulco.
	R	eP	09		
Feb. 15	MH	eP	15 50 40		USCGS: 6-1/2°S, 81°W, 0 = 15 40 37.
	M	e	51 32		Near Coast of Northern Peru.
	R	eP	50 43		
Feb. 15	MH	eP	20 00 56		USCGS: 6-1/2°S, 81°W, 0 = 19 50 52.
		e	04 11		Near Coast of Northern Peru.
	F	eP	00 40		
	R	eP	57		
Feb. 16	M	eP	18 33 08		
Feb. 17	MH	iP	01 48 25.4		USCGS: 51-1/2°N, 160°E, 0 = 01 38 50.
	M	eP	11		Off Southeast Coast of Kamchatka.
	R	eP	25		
Feb. 17	M	i	09 07 56.7		USCGS: 51-1/2°N, 160°E, 0 = 08 57 54.
	R	eP	35		Off East Coast of Kamchatka.
Feb. 17	B	iP	11 46 29.2		USCGS: 46-1/2°N, 151°E, h = 100,
					0 = 11 36 18.
					Kurile Islands.
	MH	eP	33.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 17	F	eP	44		
	M	iP	22.7		
	R	eP	33		
Feb. 17	MH	iP	23 58 56.5		
Feb. 19	B	eP	00 48 18		USCGS: 11-1/2°N, 87-1/2°W, 0 = 00 40 25. Off Coast of Nicaragua. Felt at Managua. Pas: Magnitude 6-3/4 - 7.
	BG	ePP	49 46		
		iPcP	50 17		
		i	24		
		eSE	54 11		
		eGNE	01 00.3		
		eR	05.4		
		A T			
		SH	11 9		
		GH	140 32		
		MAXH	140 20		
	MH	iP	00 48 12.4		
		iPcP	50 14.7		
	F	eP	00 48 00		
	M	eP	23		
	R	eP'P'	01 17 35		
		eP	00 48 12		
		iPcP	50 15		
Feb. 19	M	eP	13 41 30		USCGS: 45°N, 91-1/2°E, 0 = 13 28 26. Sinkiang, China.
	R	i	42 11		
		e	41 37		
Feb. 19	BG	eN	14 36.7		
	MH	eP	07 42		
	F	e(P)	43		
Feb. 19	MH	e	15 10 04		
Feb. 19	B	eP	19 20 25	c	USCGS: 30°S, 178°W, 0 = 19 07 44. Kermadec Islands. Pas: Magnitude 7.
	BG	ePP	23 42		
		e	25 10		
		iSNE	30 54		
		eSSN	36 32		
		eQNE	42.6		
		eRNEZ	46.5		
		A T			
		PZ	6 5		
		SH	68 15		
		MAXH	215 17		
		MAXZ	145 17		
	MH	iP	19 20 24.9	c	
		e	24 01		
	F	iP	20 27.4	c	
	M	eP	33.7	c	
	R	iP	37.0	c	
		eSN	31 18		
		eRNZ	48.2		
	C	eP	21 00		
		eL	49.7		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 19	B	eP	21 42 30		USCGS: 12-1/2°N, 87-1/2°W, 0 = 21 34 41. Near Coast of Nicaragua. Pas: Magnitude 6-3/4 - 7.
		ePP	44 08		
		iPcP	28		
		e	46 58		
	BG	eSE	48 19		
		eGNE	54.1		
		eR	56.4		
		A T			
		PZ	4 4		
		MAXH	220 20		
		MAXZ	110 20		
	MH	eP	21 42 21		
	F	eP	05		
		iPcP	43 01		
	M	eP	42 33		
		iPcP	44 20		
	R	eP	42 21		
		iPcP	44 16		
	C	eP	43 10		
Feb. 19	B	eP	21 48 19		Nicaragua Aftershock.
	MH	eP	15		
	M	eP	25		
Feb. 19	MH	eP	22 53 01		
	M	e	09		
Feb. 19	B	e	23 45 28		USCGS: 18°N, 101-1/2°W, 0 = 23 36 00. Near Coast of Mexico. Felt: Uruapan.
	MH	iP	41 40.4		
		i	42 03.7		
		i	45 26.8		
	F	eP	41 26		
	R	eP	45		
Feb. 20	M	i	02 02 12.9		
Feb. 20	B	eP	02 08 36		USCGS: 11-1/2°N, 87-1/2°W, 0 = 02 00 43. Off Coast of Nicaragua. Felt at Managua. Pas: Magnitude 6.
		ePcP	10 34		
	MH	iP	02 08 29.3		
		i	09 33.2		
		i	10 33.5		
		i	45.0		
	M	eP	08 41		
	R	eP	29		
Feb. 20	MH	eP	04 35 34		USCGS: Near Coast of Nicaragua 0 = 04 27 47.
		i	37 35		
	M	eP	35 51		
		e	37 40		
	R	eP	35 48		
Feb. 20	B	eP	18 49 01		USCGS: 7°S, 124-1/2°E, h = 600, 0 = 18 35 05. Flores Sea. Pas: Magnitude 6-1/2 - 6-3/4.
		epP	51 01		
		iP''	52 42		
		i	47		
		ePP	53 32		
		e(sP'')	55 31		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 22	B	iP	06 23 06.9		USCGS: 34-1/2°N, 141°E, 0 = 06 11 26. Off Coast of Honshu, Japan.
	MH	iP	10.5		
		i	24 30.0		
	F	eP	23 19		
	M	eP	06		
	R	eP	12		
	SH	iP	22 58.1		
Feb. 22	M	eP	08 57 36		USCGS: 9-1/2°S, 161°E, 0 = 10 03 40. Solomon Islands.
Feb. 22	MH	iP	10 16 24.2		
	F	eP	30		
	M	eP	37		
Feb. 22	B	eP	10 38 23		USCGS: 34°N, 141°E, 0 = 10 26 39: Honshu aftershock.
	MH	iP	29.0		
	F	eP	37		
	M	eP	18		
	R	eP	28		
	SH	iP	14		
Feb. 22	M	e	11 09 26		USCGS: 66-1/2°S, 26-1/2°W, 0 = 12 03 23 Sandwich Islands.
Feb. 22	B	iP'	12 22 21.3		
		e	25 43		
	MH	iP'	22 20.2		
		i	23.4		
		i	23 13.8		
		i	25 42.3		
		e	26 51		
	F	eP	22 17		
		e	24 05		
	M	iP'	22 23.1		
		i	45.6		
		i	23 20.8		
		i	25 33.5		
	R	eP'	22 22		
	SH	iP'	24.6		
		i	25 49.5		
		eE	29 14		
Feb. 22	MH	eP	12 32 12		
	M	eP	03		
	R	eP	11		
Feb. 23	MH	ePP	06 59 21		USCGS: 28-1/2°N, 91-1/2°E, 0 = 06 40 35. Southeastern Tibet.
		e	49		
	F	ePP	24		
	M	eP'	58 54		
		ePP	59 13		
		e	07 00 23		
	SH	eP'	06 58 53		
Feb. 24	B	e	12 26 02		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 24	MH	iP	00.5		
		epP	25		
	F	eP	04		
	M	eP	03		
		e	22		
		i	41		
	R	eP	06		
		e	31		
	SH	eP	02		
Feb. 24	B	e	17 39 40		USCGS: 35-1/2°N, 139-1/2°E, 0 = 17 27 52. Near Coast of Honshu, Japan. Felt at Tokyo.
	MH	e	07		
		e	39		
		i	40 37		
		i	39 07		
	F	i	05		
	M	e	06		
	R	e	26		
Feb. 24	SH	i	19 48 54.2		USCGS: 13°N, 144°E, 0 = 19 36 15. Marianas Islands.
	B	iP	57.2		
	MH	iP	49 05		
	F	eP	48 53		
	M	eP	49 02		
	R	eP	48 50		
Feb. 24	B	iP	20 56 37.9		USCGS: 27-1/2°N, 140°E, 0 = 20 44 30. Volcano Islands.
	MH	iP	41.9		
		i	57 04.6		
		i	58 28.2		
	M	iP	56 34.1		
	SH	iP	31.1		
Feb. 24	B	iP	22 31 19.1	c	Pas: 35° 04'N, 119° 04'W, 0 = 22 30 22. North of Wheeler Ridge, California. Magnitude 4.5.
	MH	iP	09.3	c	
	PA	iP	14.4	c	
	F	iP	30 51.8	d	USCGS: Felt at Bakersfield, California.
		eSE	31 13.6		
	M	eP	47.3	c	
	R	iP	32.3	c	
	SH	eP	53.7		
Feb. 24	M	e	23 02 54		
Feb. 25	M	eP	02 48 46		
Feb. 25	B	eP	11 22 07		USCGS: 39°S, 91°W, 0 = 11 09 44. South Pacific.
	MH	eP	05		
	M	eP	19		
	R	eP	13		
	SH	eP	21		
Feb. 25	MH	eP	12 00 57		USCGS: 52-1/2°N, 34°W, 0 = 11 50 42. North Atlantic Ocean
	M	eP	41		
Feb. 25	B	eP	22 24 02		USCGS: 5-1/2°N, 83°W, 0 = 22 15 15. South of Panama.
	MH	iP	23 56.1		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Feb. 25	M	iP	24 05.1		
	R	e	23 56		
	SH	iP	24 11.4		
Feb. 26	MH	i(P)	00 03 18.9		Mixed with small Regional Shock.
	M	i(P)	17.7		USCGS: 34°N, 141°E, 0 = 23 51 40.
	R	e(P)	27		Honshu Aftershock.
	SH	i(P)	13.6		
Feb. 26	MH	iP	00 20 53.3		
Feb. 26	M	eP	03 31 43		USCGS: 45°N, 148°E, h = 100,
			58		0 = 03 21 12.
		e	19 06 59.9		Kurile Islands.
Feb. 26	MH	i	19 06 59.9		USCGS: 37°N, 71-1/2°E, 0 = 18 46 04.
	M	eP	00 17		Hindu Kush.
		e(PP)	03 57		
		e	07 09		
	SH	e	03		
Feb. 26	B	i	19 11 45.6		
	MH	e(P)	29.7		
		i	44.7		
	M	eP	47		
		e	56.7		
	SH	iP	48		
Feb. 27	MH	iP	01 27 34.8		
		i(pP)	53.7		
	M	iP	44.2		
		e(pP)	28 03.1		
	R	eP	27 49		
	SH	iP	43.9		
Feb. 27	MH	eP	23 47 04		USCGS: 23°S, 166-1/2°E, 0 = 23 34 32.
	M	e	21		New Hebrides Islands.
	R	e	20		
Feb. 28	B	eP	01 08 07		USCGS: 27°N, 131°E, 0 = 00 55 22.
		e	20		Ryukyu Islands Region. Felt
	MH	iP	09.7		on Southern Kyushu, Japan
		i	23.3		Pas: Magnitude 5-3/4 - 6.
	M	eP	03		
		i	17		
	R	eP	11		
Feb. 28	M	e	19 24 20		
Mar. 2	M	eP	07 31 29		
Mar. 2	MH	iP	07 40 08.0		
Mar. 2	MH	eP	13 07 54		
Mar. 3	B	eP	06 16 32		USCGS: 5-1/2°S, 142-1/2°E,
			37		0 = 06 02 55.
		i	20 28	d	Central New Guinea.
	BG	ePP	27 19		Pas: Magnitude 7-1/4.
		eSKSE	24		
		iN	28 15		
		eSE	29 36		
		iPSE	35.1		
		e(SS)NEZ	39 00		
		eSSSE			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 3		eN	59		
		eN	42.5		
		eQNE	44.1		
		eREZ	48.0		
		A T			
		PZ	3 6		
		PPZ	10 8		
		PPH	6 10		
		SKSH	20 12		
		PSH	20 15		
		MAXH	150 20		
		MAXZ	115 20		
	MH	iP	06 16 34.2	c	
		i	39.2	d	
		iPP	20 32.7		
		e	29 35		
		eR	48.7		
	M	eP	16 34	c	
		i	20 46		
	A	eSKSE	27 28		
	R	eP	16 44		
		ePP	20 49		
		iSKSE	27 37		
		ePS	30 04		
	C	eP	16 32		
		e	26 50		
		e	42.7		
		e	47.8		
	SH	eP	16 32	c	
		i	37	d	
		iPP	20 40		
		eSKSNE	27 15		
		ePSE	29 41		
Mar. 3	MH	e	06 32 30		Probably PKKP of Previous Shock.
		e	33 14		
	M	e	32 38		
Mar. 3	B	eP	07 54 04		USCGS: 53°N, 160°E, 0 = 07 44 36.
		ePcP	55 08		Near East Coast of Kamchatka.
	MH	iP	54 09		
		iPcP	55 12		
	M	iP	53 53		
		iPcP	55 05		
	R	eP	54 05		
	SH	iP	53 49		
		ePcP	55 01		
		e	56 30		
Mar. 3	MH	e	08 08 07		
	M	e(P)	12		
Mar. 3	MH	eP	10 50 49		USCGS: Central New Guinea. h - 60,
		e	51 30		0 = 10 37 10.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 3	B	eP	15 35 06		USCGS: 5-1/2°S, 142-1/2°E, 0 = 15 21 27. Central New Guinea.
	MH	ePP	39 02		
	SH	eP	35 07		
	SH	eP	06		
		ePP	39 02		
Mar. 3	MH	eP	18 44 47		USCGS: Mona Passage, West Indies. h = 100, 0 = 18 35 53.
	M	eP	49		
Mar. 3	B	eP	20 51 57		USCGS: 61-1/2°N, 146-1/2°W, h = 60, 0 = 20 46 07. Lower Alaska.
		epP	52 16		
	BG	iSN	56 43		
	MH	iP	52 04		
		ipP	22		
		i	32		
	M	iP	51 39.6		
		ipP	52 00.6		
	R	eP	51 52		
		ipP	52 10		
	C	eP	50 54		
		e	51 05		
		e	54 59		
	SH	iP	51 35		
		epP	54		
		eSNE	56 03		
Mar. 4	MH	e(P)	06 15 51		
	M	e(P)	47		
	SH	e(P)	43		
Mar. 4	MH	eP	10 58 36		USCGS: Kermadec Islands Region. 0 = 10 46 05.
	M	e	47		
	SH	e	47		
Mar. 4	MH	eP	11 38 01		
		i	33		
	M	eP	11		
		e	41		
	R	eP	04		
	SH	eP	14		
Mar. 4	M	eP	22 44 52		
Mar. 5	MH	eP	01 10 12		
Mar. 5	MH	eP	02 42 27		
	M	eP	35		
Mar. 5	MH	iP	04 24 48.5		USCGS: 40-1/2°N, 143°E, 0 = 04 13 27. Near North Coast of Honshu, Japan.
	M	eP	33		
	R	eP	41		
	SH	eP	30		
Mar. 5	M	eP	10 26 23		
Mar. 5	MH	e(PP)	11 36 11		USCGS: 3°S, 130°E, 0 = 11 17 43. Ceram Island, East Indies.
	SH	ePP	12		
Mar. 5	M	eP	12 14 36		
Mar. 5	M	e	18 36 18		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 5	SH	e	04		
Mar. 6	B	eP	00 40 56	c	Magnitude - 6-1/2. USCGS: 24°S, 180°, h = 550, 0 = 00 29 27. Fiji Islands Region.
		epP	42 55		
		esP	44 13		
	BG	eSNE	50 28		
		A T			
		PZ	2 4		
		SH	6 11		
	MH	iP	00 40 56.4	c	
		ipP	42 52.8		
		i	43 13.1		
	F	iPNE	41 02		
		eSE	50 33		
	M	iP	41 04.5	c	
		i	12.2		
		i(pP)	43 12.9		
	R	iP	41 08.6	c	
	C	eP	08		
Mar. 6	MH	e	01 09 06		Part of previous shock?
		e	10 05		
	M	e	09 55		
		i	10 01		
	SH	i	10 03		
Mar. 6	MH	eP	08 54 17		
	M	e	27		
	SH	e	26		
Mar. 6	MH	eP	15 55 23		
	SH	e	32		
Mar. 6	B	e	19 26 50		
	MH	e	36		
		e	43		
	M	eP	27 00		
		e	08		
		i	18		
	F	e	26 52		
	SH	e	27 12		
Mar. 6	MH	e	19 34 42		
	M	eP	35 12		
	SH	e	17		
Mar. 7	M	e(PP)	02 04 04		USCGS: Ascension Island Region. 0 = 01 44 30.
Mar. 7	MH	iP	02 31 57.9		
	M	eP	32 01		
Mar. 7	MH	i	18 16 56		
	M	e	32		
	SH	e	30		
Mar. 7	MH	e	22 11 13		
	M	i	21.5		
	SH	e	20		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 7	B MH M SH	eP eP eP i	23 46 18 22 08 08		USCGS: 38°N, 144°E, 0 = 23 35 00. Off East Coast of Honshu, Japan.
Mar. 8	M	eP	08 30 41		USCGS: 38°N, 20-1/2°E, 0 = 08 17 19. Near West Coast of Greece. Minor damage on Cephalonia.
Mar. 8	B MH M SH	eP iP eP iP	13 48 57 02 47 49 47		USCGS: 37-1/2°N, 143°E, 0 = 13 37 35. Off East Coast of Honshu, Japan.
Mar. 8	MH	eP	15 26 20		USCGS: 15°S, 175°W, 0 = 18 00 45. Samoa Islands Region.
Mar. 8	B MH M R SH	eP iP eP eP eP	18 12 15 16 27 34 24		Later Phases mixed with following shock.
Mar. 8	MH	iP	18 13 15.4		USCGS: 13°N, 89°W, h = 60, 0 = 18 05 55. Near Coast of El Salvadore.
Mar. 8	M B MH	e(PcP) e eP	15 29 14 04 20 39 28 12		USCGS: New Hebrides Islands Region. 0 = 20 26 34.
Mar. 9	M SH BG	e eP eE	41 42 40 02 39 24 02 45 57		USCGS: 1-1/2°N, 30-1/2°W, 0 = 02 21 43. Atlantic Ocean, Northeast of Brazil.
Mar. 9	BG	eGN	03 04.6		
Mar. 9	MH M R SH	MAXH iP eP eP	A T 35 24 02 34 56.1 55 49		
Mar. 9	B BG	eP eP eSNE eRNEZ	35 02 05 49 14 56 56 06 06.3		USCGS: 50°N, 157°E, 0 = 05 39 20. Off South Coast of Kamchatka. Pas: Magnitude 6-1/4 - 6-1/2.
Mar. 9	B	iP	A T 18 20 05 49 12 48 58 49 10 48 54 10 36 27.4		
Mar. 9	MH R SH B	iP eP eP iP	27.5 37 35.6 10 36 27.4		USCGS: 19-1/2°S, 178°W, h = 350, 0 = 10 25 02. Fiji Islands.
Mar. 9	MH R SH	iP eP iP	27.5 37 35.6 11 18 32 41		USCGS: 16°S, 173°W, 0 = 11 07 03. Samoa Islands Region. Felt: Apia.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 10	B	iP	07 34 32.9		USCGS: 13-1/2°, 178-1/2°W, 0 = 07 22 55. Wallis Islands.
Mar. 10	MH SH	iP iP	34.7 41.2		
Mar. 10	SH	e	09 55 57		
Mar. 10	MH	e	11 08 14		
Mar. 10	MH	iP	14 18 40.8		USCGS: 2°S, 78°W, h = 100, 0 = 14 09 07. Ecuador.
Mar. 11	B	i i iP	19 03.9 30.1 10 37 12.3	c	USCGS: 14-1/2°N, 90-1/2°W, h = 100, 0 = 10 30 10. Guatemala. Pas: Magnitude 5-1/2 - 5-3/4.
Mar. 12	BG	i(pP) iPcP i iSNE eQN	27.8 39 34.7 51.4 42 56 50.4		
Mar. 12	MH	SH MAXH iP i(pP) i ePE iP eP iP iPcP	A T 3 7 16 20 10 37 06.1 22.2 39 22.6 36 55 37 13.3 06 24 39 39	c	
Mar. 12	B MH M SH	iP'' iP'' iP'' iP''	11 31 11.1 10.1 12.8 14.2	c c c c	USCGS: Sandwich Island Region. 0 = 11 12 10. Later Phases mixed with following shock.
Mar. 12	B BG MH M R SH	iP e(S)N iP iP eP iP	11 35 18.9 44 45 35 19.7 29.3 34 28.7	d d d d	USCGS: 17°S, 174°W, 0 = 11 23 47. Tonga Islands. Felt: Apia.
Mar. 12	MH M C	iP eP eP i eS	14 36 12.5 35 44 12 54 38 48		
Mar. 12	SH	eP	35 33		
Mar. 12	MH	iP	15 31 42.6		
Mar. 13	M	ePP e	01 16 58 17 18		USCGS: Southern Pakistan. 0 = 00 58 53.
Mar. 13	C	e(S)	21 52 17		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 14	B BG	eP e(S)NE eE e(SS)E eINE	09 04 27 14 04 18 51 19 31 24.3		USCGS: 16°S, 179°W, 0 = 08 52 36. Fiji Islands.
	MH	eP e	04 27 07 24		
	M	eP e(PP)	04 37 08 35		
	R	eP	04 42		
Mar. 14	SH B	eP eP e e	32 13 07 10 19 24		USCGS: Kermadec Islands. Slightly deeper than normal. 0 = 12 54 32.
	MH	eP i i	09 19 24		
	M	eP e	17 27		
	R	e	08 31		
	SH	iP e	07 17 28		
Mar. 14	B	eP	17 53 59		USCGS: 51-1/2°N, 160°E, 0 = 17 44 28. Off Southeast Coast of Kamchatka.
	MH	iP	54 03.4		
	R	eP	02		
Mar. 16	MH	iP	01 11 30.5		USCGS: 7-1/2°N, 82°W, 0 = 01 02 57. Off Coast of Panama.
	F	eP	18		
	M	eP	40		
	R	eP	30		
Mar. 16	MH	eP e	05 36 54 37 11		USCGS: Northern Kurile Islands. h = 60, 0 = 05 27 04.
	M	eP i	36 40 54		
	SH	iP	36		
Mar. 16	MH	eP	15 30 08		USCGS: Northwest Washington. 0 = 15 56 18. Felt: Seattle, Tacoma.
Mar. 16	C	eP	15 57 09		
Mar. 17	MH	iP	08 31 00.1		USCGS: Off Coast of Mexico near Acapulco. 0 = 13 00 50.
Mar. 17	MH	eP	13 06 45		
	M	e	07 23		
	R	eP	06 47		
Mar. 18	M	eP	05 14 41		
Mar. 18	SH	e	08 31 25		
Mar. 18	MH	iP	17 36 46		USCGS: 25°S, 178°W, 0 = 08 11 02. Fiji Islands Region.
Mar. 19	MH	eP	08 23 27		
	F	eP	28		
	M	iP	34		
	SH	iP	32		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 19	B	iP eSE	09 56 09.0 57 18		Pas: 33° 17'N, 116° 11'W, 0 = 09 54 29. Magnitude 6.2. Santa Rosa Mtns., California. USCGS: Strong shock felt over approxi- mately 40,000 square miles of Southern California and a small area of Southwestern Nevada and Western Arizona. Maximum intensity VI.
		A T	3 1/2 8		
		PH	3 1/2 7		
		SH	100 8		
	MH	iP	09 55 58.9		
	F	iP	39.7		
	M	iP	56 34.8		
	R	eP	16.5		
	C	eP	57 36		
		e	10 01 19		
		e	02 22		
Mar. 19	SH	eP	09 56 41.9		Pas: 33° 17'N, 116° 11'W, 0 = 10 21 17. Magnitude 5.5. Aftershock. Felt.
	B	eP	10 22 58		
	MH	iP	49.9		
	M	eP	23 20		
	R	eP	10		
	SH	e	37		
Mar. 20	B	e	04 21 05		Pas: 33° 17'N, 116° 11'W, 0 = 04 19 19. Magnitude 4.9. Aftershock.
	MH	eP	20 50		
	F	e	41		
	M	eP	21 20		
	R	eP	07		
	SH	e	44		
Mar. 20	MH	iP	10 56 37.6		
	F	e	41		
	M	e	41		
	R	e	57 01		
Mar. 20	M	e	11 03 37		
Mar. 20	MH	iP	14 14 10.6		USCGS: 47°N, 154°E, h = 100, 0 = 14 04 07. Kurile Islands.
		i	46.6		
	R	e	14		
		e	44		
	SH	i	22		
Mar. 21	M	eP	04 43 30		
	SH	e	29		
Mar. 21	B	i	06 18 57.4		USCGS: 52°N, 158-1/2°E, h = 60, 0 = 06 09 23. Near Southeast Coast of Kamchatka.
	MH	iP	54.3		
	F	iP	19 09.0		
	M	iP	18 44.8		
	R	iP	56.7		
	C	eP	17		
	SH	iP	40.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 21	MH	eP	12 16 43		USCGS: About 400 miles South of Kermadec Islands. O = 12 03 40.
	M	eP	56		
	SH	eP	53		
Mar. 21	M	eP	14 33 19		USCGS: Off Coast of Guatemala. O = 20 43 10.
Mar. 21	M	eP	20 50 33		
Mar. 21	B	eP''	24 00 22		USCGS: 24 1/2°N, 95°E, h = 150, O = 23 42 05. Northwestern Burma. Felt in Eastern India. Pas: Magnitude 7 - 7-1/4.
		e	50		
		i	01 38		
		i	58		
	MH	eP	23 56 27		
		iP''	24 00 24		
		i	01 47		
		i	03 46		
		e	10 06		
		e	11 26		
		e	12 12		
	M	eP	23 56 12		
		iP''	24 00 24		
		i	01 26		
		i	11 36		
	R	eP	23 56 18		
		iE	24 08 15		
	C	eP	23 55 55		
		eP''	24 00 11		
		e	06 16		
		e	07 38		
	SH	eP	23 56 09		
		iP''	24 00 22		
		i	01 40		
		eNE	06 35		
Mar. 22	MH	e	06 12 17		USCGS: Tonga Islands Region. O = 06 00 34.
	F	e	37		
	M	e	40		
	SH	e	44		
Mar. 22	B	eP	07 01 32		USCGS: 27°S, 176-1/2°W, O = 06 49 05. Kermadec Islands Region.
	MH	eP	30		
	F	eP	39		
	M	eP	41		
	SH	eP	40		
Mar. 22	B	eP	09 51 10		USCGS: 27°S, 176-1/2°W, O = 09 38 43. Kermadec Islands Region.
	MH	eP	09		
	F	eP	13		
	M	eP	19		
	R	eP	23		
	SH	eP	19		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 22	M	eP	10 37 30		USCGS: 5°S, 140°E, O = 10 23 39. Central New Guinea.
Mar. 22	M	eP	16 44 47		
Mar. 22	B	eP	17 17 08	d	USCGS: Kansu Province, China. O = 16 31 33. USCGS: 17°N, 45-1/2°W, h = 60, O = 17 10 50. Southern Mexico.
		epP	23		
		iPcP	20 01		
	BG	eSN	22 18		
	MH	eP	17 02	d	
		i	10		
		ipP	17		
		iPcP	19 58		
	F	iP	16 48		
	M	iP	17 17	d	
		i	57		
		e	20 02		
	R	eP	17 05	d	
		ipP	19		
	SH	iP	21		
		e	18 26		
		i	20 04		
		e	20		
Mar. 22	MH	eP	19 07 20		USCGS: 55-1/2°N, 157°E, O = 18 58 02. Near East Coast of Kamchatka.
	F	eP	31		
	M	e	20		
	SH	eP	06 59		
		i	07 05		
		e	17		
Mar. 23	B	eP	04 16 32.7		Pas: 33° 17'N, 116° 11'W, O = 04 14 50. Magnitude 5.1. USCGS: Southern California Aftershock. Felt.
		i	48.7		
	M	eP	17 00.8		
		i(S)	18 38.4		
	R	eP	16 44		
Mar. 23	MH	e	05 37 56		
	M	e	51		
	SH	i	49		
Mar. 23	C	eP	06 09 29		
		e	38		
Mar. 23	M	eP	09 50 28		
Mar. 23	MH	e	20 06 28		
	F	e	20		
	M	e	51		
	R	e	40		
	SH	e	37		
Mar. 23	MH	iP	22 21 41.8		
	M	e	22 15		
Mar. 24	B	iP	01 44 06.6	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 24	MH	ipP eP	25.0 08.5	d	
	M	ipP iP	27.3 04.9	d	
	R	ipP eP	23.5 13.9		
Mar. 24	M	e	06 06 29		
	SH	e	33		
Mar. 24	M	e	17 30 52		
	SH	e	55		USCGS: 15°S, 176-1/2°W, 0 = 03 33 40. Somoa Islands Region.
Mar. 25	MH	eP	03 45 19		
	F	eP	23		
	M	eP	27		
	R	iP	32		
	SH	iP	26		
Mar. 25	MH	iP	09 43 31.7		USCGS: 28-1/2°S, 178°W, 0 = 09 30 58. Kermadec Islands.
	M	i	42.6		
	M	eP	41		
	M	e	53		
	SH	eP	41		
	MH	e	51		
Mar. 26	MH	iP	00 40 45		
	M	e	54		
Mar. 26	B	eP	04 46 33		USCGS: 42°N, 142°E, h = 60, 0 = 04 35 25. Off South Coast of Hokkaido, Japan.
	MH	ipP	50		
	MH	iP	36.7		
	M	i	54.2		
	F	eP	46		
	M	e	47 00		
	M	eP	46 25		
	M	i	38		
	M	i	43		
	SH	iP	21.7		
	MH	ipP	39.0		
Mar. 26	M	e	05 25 49		
	SH	e	45		
Mar. 26	M	e	07 52 32		
Mar. 26	B	eP	09 48 47		USCGS: 2°S, 79-1/2°W, 0 = 09 39 06.
	MH	iP	42		
	F	eP	30		
	M	eP	53		
	R	iP	44		
	SH	iP	57		
Mar. 26	MH	iP	10 58 05.2		USCGS: 44°N, 146-1/2°E, 0 = 10 47 12. Southern Kurile Islands.
	M	eP	57 54		
	R	eP	58 05		
	SH	iP	57 49.5		
Mar. 26	F	iP	18 41 20.7		
	M	iP	10.6		
	C	eP	07		
Mar. 27	MH	iP	10 39 10.3		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 27	M	e(P)	12		
Mar. 27	B	eP	11 44 37		USCGS: 44-1/2°N, 141-1/2°E, 0 = 11 33 33. Near West Coast of Hokkaido, Japan.
	MH	iP	43		
	M	iP	31		
	R	ePP	47 07		
	SH	eP	44 42		
	SH	iP	28		
	SH	iPP	47 03		
Mar. 27	B	eP	18 31 24		USCGS: 8°S, 75-1/2°W, h = 150, 0 = 18 21 05 Central Peru.
	MH	epP	56		
	MH	eP	19		
	MH	epP	50		
	MH	iPP	33 36		
	M	eP	31 32		
	M	ipP	32 04		
	R	eP	22		
	R	ipP	56		
Mar. 27	MH	eP	18 49 01		USCGS: 9°N, 84°W, h = 100, 0 = 18 40 55. Near Coast of Costa Rica. Felt.
	MH	i	08		
	MH	i(pP)	26		
Mar. 27	SH	e	19 00 03		
Mar. 28	MH	iP	01 34 43		USCGS: Samoa Islands. 0 = 01 23 33.
	F	eP	47		
	M	eP	53		
	SH	eP	52		
Mar. 28	MH	eP	06 15 27		USCGS: 12-1/2°S, 171°W, 0 = 06 04 08. Samoa Islands.
	M	eP	37		
	SH	eP	34		
Mar. 28	M	e	10 23 15		
Mar. 28	MH	eP	13 08 55		USCGS: About 500 Miles Northwest Of Easter Island. 0 = 12 58 35.
	M	eP	09 17		
	R	eP	08		
	SH	e	21		
Mar. 28	MH	e	13 26 08		
	M	i	13		
	M	e	18		
	SH	e	25 55		
Mar. 28	B	iP	17 17 36.4	c	USCGS: 53°N, 168°W, 0 = 17 10 40. Fox Islands, Aleutian Islands.
	MH	ePcP	20 06		
	MH	iP	17 42.4	c	
	MH	iPcP	20 08.9		
	F	eP	17 55	c	
	M	iP	26.5	c	
	M	iPcP	20 02.5		
	R	eP	17 41	c	
	SH	iP	20.8	c	
	SH	iPcP	20 00.4		
Mar. 28	MH	iP	20 42 09.1		Rat Islands Foreshock?

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 28	F	i	21.2		
	M	eP	23		
	SH	iP	41 55.8		
	B	iP	49.7		
Mar. 28	B	eP	20 44 39		USCGS: 52°N, 176°E, 0 = 20 36 22. Rat Islands, Aleutian Islands
	BG	i(PcP)	47 05		
		iSNE	51 18		
		A T			
		PZ	3 6		
		PH	2 7		
		SH	22 15		
		MAXH	40 20		
	MH	eP	20 44 44	c	
	F	iP	58		
	M	iP	30		
	R	iP	41		
	SH	iP	24		
Mar. 28	B	iP	21 06 19.9	d	USCGS: 52°N, 175-1/2°E, h = 60, 0 = 20 58 09. Near Islands, Aleutian Islands.
	MH	ipP	31.4	d	
		iP	25.8	d	
		i	35.6		
		ipP	37.6		
	F	iP	32.4	d	
	M	iP	11.0	d	
		i	18.8		
		i	07 22.8		
	SH	iP	06 05.4	d	
		i	07 17.8		
Mar. 29	B	eP	04 14 47		USCGS: 19-1/2°N, 121-1/2°E, 0 = 04 01 10. Near North Coast of Luzon Island, Philippine Islands.
	MH	e(pP)	58		
		ePP	18 41		
		iP	14 49.8	c	
		i(pP)	15 01.3		
		iPP	18 47.4		
	F	eP	14 58		
	M	eP	43	c	
		i	49		
		ePP	18 34		
	R	eP	14 50		
		e(pP)	15 02		
		ePP	18 42		
		e	48		
	SH	eP	14 39		
		e(pP)	51		
Mar. 29	B	iP	06 28 46.1	c	USCGS: 37°N, 3-1/2°W, h = 650, 0 = 06 17 05 Near South Coast of Spain. Extensive property damage at Granada and Malaga.
		i	30 26.1		
		ipP	59.5	c	
		esP	32 03		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 29		ePP	22		Pas: Magnitude 7-1/4 - 7-1/2.
		epPP	34 21		
		esPP	35 28		
	BG	iSKSNE	38 14		
		eSNE	32		
	B	ePKKP	46 40		
	BG	eN	47.7		
		eNE	51.4		
	B	eP'P'	54 21		
		eSKPP'	57 03		
		A T			
		PZ	12 6		
		pPZ	28 5		
		pPH	17 11		
		PPZ	5 11		
		PPH	13 11		
		SKSH	45 11		
		SH	70 8		
	MH	iP	06 28 46.1	c	
		ipP	30 59.7		
		iPP	32 17		
		e(SKS)NE	38 21		
		i	46 07		
		e	22		
		ePKKP	42		
		eP'P'	54 12		
		i	49		
		eSKPP'	57 11		
		i	37		
	F	iP	28 43	e	
		epP	30 59	c	
		eSKSE	38 15		
		eP'P'	54 30		
		eSKPP'	57 14		
	M	iP	28 55.1	c	
		i	29 14.0		
		ipP	30 47.6	c	
		iSKS	38 01		
		i(SP)	39 17		
		e	46 00		
		ePKKP	52		
		eP'P'	54 18		
		e	47		
		eSKPP'	57 06		
	A	ePNE	28 42		
		eSKSNE	38 07		
	R	iP	28 34.6	c	
		ipP	30 45.8	c	
		i	31 37.9		
		i	32 36.0		
		i	34 06		

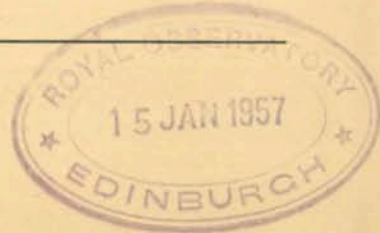
Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 29		iSKSE	38 08		
		iPKKP	46 51		
		eSKPP'	57 13		
		i	21		
	C	iP	28 26		
		iSKS	37 49		
	SH	iP	28 34.8	c	
		i	30 48.0		
		i	31 07		
		iSKSE	38 00		
		iE	12		
		eE	39 36		
		ePKKP	46 42		
		i	57		
		e(P'P')	54 43		
		iSKPP'	57 09		
Mar. 29	MH	iP	14 08 05.6	d	USCGS: 2-1/2°S, 178-1/2°W, h = 100, 0 = 13 58 30. Ecuador. Felt.
		ipP	30.3		
	M	eP	16.4	d	
		i	51.8		
	R	eP	07	d	
		epP	32		
	SH	iP	20.3	d	
Mar. 29	MH	iP	14 17 57.7		
	M	eP	49.7		
	SH	iP	44.2		
Mar. 29	M	i	17 39 58		
	SH	e	46		
Mar. 30	M	eP	10 56 53		USCGS: 46-1/2°N, 153-1/2°E, 0 = 10 46 48. Kurile Islands.
	R	e	57 15		
	SH	eP	56 49		
		i	57 00		
Mar. 30	M	i	14 08 20.1		USCGS: 13°S, 171°W, 0 = 13 57 02. Samoa Islands.
	SH	e	19		
Mar. 30	B	iP	16 28 14.2	c	USCGS: 52°N, 175-1/2°E, 0 = 16 19 57. Rat Islands, Aleutian Islands.
	MH	iP	19.6	c	
	F	iP	31.9	c	
	M	eP	05.9	c	
	R	iP	19.0	c	
	SH	iP	27 59.5	c	
Mar. 30	PA	eT	16 42 10		Hawaii Foreshock. 0 = 16 00ca.
Mar. 30	B	iP	16 40 20.1	d	USCGS: 52°N, 175-1/2°E, 0 = 16 32 03. Rat Islands, Aleutian Islands.
		i	30.0		
		i	42 09.7		
	MH	iP	40 25.6	d	
		i	53.4		
	F	eP	38		
	M	eP	11		
	R	iP	24.6		
	SH	iP	06.3		
		e	16.2		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 30	B	iP	16 46 49.1		USCGS: 20°N, 155°W, 0 = 16 40 03. Near Northeast Coast of Hawaii, T.H. Minor damage at Hilo. Pas: Magnitude 6.
	BG	eSNE	52 08		
		eQNE	54.2		
		eR	55.1		
	B	eT	17 21 39		
		A T			
		SH	4 9		
		MAXH	33 11		
	MH	iP	16 46 50.8		
		i	47 17.5		
		iT	17 21 40		
	F	eP	16 47 01		
	M	eP	01		
		e	21		
		eT	17 22 06		
		iT	34		
	R	eP	16 47 08		
	PA	eT	17 21 40		
	SH	iP	16 46 58.7		
		eT	17 22 24		
Mar. 30	M	e	17 10 18		
	SH	e	14		
Mar. 30	B	iP	18 48 43.0		USCGS: 20°N, 155°W, 0 = 18 41 54. Near Northeast Coast of Hawaii, T.H. Minor damage at Hilo. Pas: Magnitude 6-1/2.
	BG	eSNE	53 09		
		eQNE	56.0		
		eR	56.9		
	B	eT	19 23 32		
		A T			
		SH	15 10		
		MAXH	135 11		
	MH	iP	18 48 42.2		
		i	49 24.7		
		iT	19 23 32		
	F	eP	18 48 53		
	M	eP	53		
		e	50 20		
		eT	19 24 05		
		iT	27		
	A	eT	06		
	C	eP	18 49 07		
		e	54 52		
		e	57 12		
	SH	iP	48 50.1		
		eT	19 24 36		
Mar. 30	MH	iP	23 03 20.3		
	M	iP	06.1		
		i	11.8		
	SH	eP	00		
Mar. 31	M	eP	02 19 05		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Mar. 31	MH	iP	08 41 11.0		USCGS: 12°S, 171-1/2°W, 0 = 08 30 04. Samoa Islands.
	SH	iP	19.5		
Mar. 31	MH	iP	14 03 08.5		USCGS: Felt at Greenriver, Utah.
	M	eP	04.5		
	R	eP	02 44.2		
		eEZ	04 47		
Mar. 31	MH	e(P)	18 17 04		
	M	e	13		
	SH	e	12		
Mar. 31	M	iP	18 38 50.0		USCGS: 13-1/2°N, 58°E, 0 = 18 25 48. Arabian Sea.
Mar. 31	B	eP''	18 45 02		
		iPP	47 15		Pas: Magnitude 7-1/4 - 7-1/2.
		eSKP	48 31		
		e(PPP)	50 03		
	BG	e	52 04		
		eNZ	57 17		
		iN	19 00 17		
		eRN	33.3		
		A T			
		P''Z	2 5		
		PPZ	16 6		
		PPH	5 7		
		SKPZ	6 6		
		MAXH	80 20		
	MH	iP''	18 45 04.1		
		i	47 46.8		
		i	48 46.6		
		e(PPP)	50 04		
		e	51 33		
		e	58 58		
	F	eP''	45 06		
		ePP	47 22		
	M	eP''	44 55		
		i(PP)	47 00		
		e	49 43		
	R	eP''	44 58		
		iPP	47 04		
		i	48 14		
		e	47 52		
		e	51 49		
		eE	57 17		
		eE	59 52		
	SH	iP''	44 54.1		
		i	45 30		
		e	46 48		

Bulletin of the Seismographic Stations

Volume 24, No. 2, pp. 49-92



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

Earthquakes and the Registration of Earthquakes

From April 1, 1954, to June 30, 1954

BY
JOHN DeNOYER

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES

1956

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

FROM APRIL 1, 1954 TO JUNE 30, 1954

VOLUME 24 NUMBER 2

By John DeNoyer

SEISMOGRAMS READ BY:

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UNIVERSITY OF CALIFORNIA PRESS

BERKELEY AND LOS ANGELES

1956

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

The list following this page gives the latitude and longitude of epicenters for earthquakes well enough recorded to permit such a determination.

Map No. refers to the map immediately following the epicenter list.

Date and Origin Time are given in Greenwich Civil Time. Subtract eight (8) hours to get local (Pacific Standard) time. This will change the date for some of the earthquakes.

M refers to the Richter Magnitude, determined from trace amplitudes of the Wood-Anderson Seismographs, and using the nomogram given by Nordquist in the "Bulletin of the Seismological Society of America," 32:164.

Q represents the excellence with which the epicenter has been located, "a" indicating excellent, "b" good, "c" fair, and "d" poor.

Under Remarks will be found a short descriptive location of the epicenter, as well as information on small foreshocks and aftershocks, and the intensity of shocks which were reported felt. Reports on felt earthquakes are chiefly those collected by the United States Coast and Geodetic Survey, which publishes a more complete summary of such reports in "Abstracts of Earthquake Reports for the Pacific Coast and the Western Mountain Region." Intensities are given by Roman numerals 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:

- 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.
- VIII General fall of chimneys; great damage to poorly built structures.

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EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
1	Apr. 1	00-36-24	3.5	36° 44'	121° 18'	b	10 miles southeast of Hollister. V 7 miles south of Hollister.
2	1	12-04-38	3.3	36° 03'	120° 12'	c	6 miles southeast of Coalinga.
3	2	00-38-52	1.5	38° 07'	122° 07'	c	19 miles north northeast of Berkeley.
4	3	03-13-30	2.5	37° 14'	121° 57'	d	6 miles south southwest of San Jose.
5	3	21-13-18	2.7	37° 49'	122° 12'	b	5 miles southeast of Berkeley. Felt.
6	7	07-05-02	4.3	39° 22'	120° 09'	b	Northeast of Truckee. Felt: IV at Reno, Nevada.
7	9	01-48-24	2.4	37° 22'	122° 18'	c	9 miles southwest of Palo Alto.
8	9	07-38-23	3.1	35° 47'	121° 05'	d	10 miles northeast of San Simeon.
9	9	09-52-25	3.0	39° 45'	119° 45'	c	14 miles north northeast of Reno, Nevada.
10	9	23-44-34	2.6	38° 04'	122° 42'	c	25 miles northwest of Berkeley.
11	10	15-03-58	4.7	40° 30'	126° 08'	b	Off Cape Mendicino, 100 miles west of Ferndale.
12	10	22-16-53	4.1	37° 11'	121° 48'	a	14 miles southwest of Mt. Hamilton. IV at Morgan Hill, Mt. Hamilton and San Martin. III at Glenwood.
13	11	07-42-46	3.7	40° 00'	120° 00'	c	40 miles north northwest of Reno, Nevada.
14	11	13-17-47	4.0	40° 44'	126° 41'	c	139 miles west of Arcata.
15	12	22-53-01	2.0	37° 14'	122° 10'	d	13 miles south of Palo Alto.
16	13	01-06-40	1.2	37° 33'	122° 25'	c	16 miles south of San Francisco.
17	13	11-41-59	2.7	36° 36'	121° 00'	c	4 miles west of Llanada.
18	14	11-43-27	4.3	38° 45'	116° 30'	d	62 miles northeast of Tonopah, Nevada.
19	16	19-03-20	1.0	37° 44'	122° 08'	c	11 miles southeast of Berkeley.
20	17	07-22-43	3.1	40° 21'	125° 01'	c	43 miles west southwest of Ferndale.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
21	Apr. 17	23-23-26	2.5	37° 48'	121° 50'	c	9 miles north northwest of Livermore.
22	20	00-05-18	1.8	37° 13'	121° 52'	c	7 miles south of San Jose.
23	20	09-32-13	2.6	36° 23'	121° 02'	d	12 miles northeast of King City.
24	21	02-36-43	3.8	37° 02'	121° 39'	b	21 miles south of Mt. Hamilton.
25	21	14-45-24	2.6	37° 15'	121° 48'	b	6 miles southeast of San Jose.
26	22	18-44-10	3.8	36° 54'	121° 41'	b	15 miles west northwest of Hollister. Foreshock of 18-50-13.
26	22	18-50-13	4.3	36° 54'	121° 41'	b	15 miles west northwest of Hollister. Felt over an area of approximately 2500 square miles of the coastal region of west-central California. Intensity: VI, slight damage at Aptos and Gilroy. V, Moss Landing. IV, Bolinas, Chualar, Glenwood, Hollister, San Francisco, San Juan, Bautista, San Martin, Watsonville.
26	22	19-08-32	3.0	36° 54'	121° 41'	b	15 miles west northwest of Hollister. Aftershock of 18-50-13.
27	23	23-46-33	2.0	37° 13'	122° 12'	c	12 miles south of Palo Alto.
28	25	20-33-28	5.3	36° 56'	121° 41'	b	16 miles west northwest of Hollister. Strong shock. Felt over a land area of approximately 12,000 square miles. Maximum intensity of VIII occurred in a very small area about 10 miles east of Watsonville along the Chittenden Road on the south bank of the Pajaro River. VII Aromas, Freedom, Gilroy, Hollister, Watsonville. VI Aptos, Boulder Creek, Capitola, Castroville, Corralitos (Enos Ranch), Cupertino, Glenwood, Los Gatos, Madrone, Holy City, Morgan Hill, Moss Landing, Mt. Hermon.
28	25	21-25-25	3.5	36° 56'	121° 41'	c	16 miles west northwest of Hollister. Aftershock of 20-33-28.
28	26	01-32-05	2.8	36° 56'	121° 41'	c	Ditto.
28	26	02-35-02	2.6	36° 56'	121° 41'	c	Ditto.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
28	Apr. 26	04-04-39	2.3	36° 56'	121° 41'	c	Ditto
29	27	14-12-00	2.3	37° 01'	121° 44'	c	21 miles northwest of Hollister.
30	27	19-35-33	2.8	36° 53'	121° 34'	b	9 miles west northwest of Hollister.
31	28	04-53-07	3.0	36° 56'	121° 41'	c	16 miles west northwest of Hollister. IV at Moss Landing; IV at Moss Landing; II at Salinas.
32	29	10-36-34	2.2	37° 02'	121° 47'	d	22 miles south southwest of Mt. Hamilton.
33	29	19-15-50	1.3	37° 43'	122° 07'	b	13 miles southeast of Berkeley.
34	30	12-47-28	2.8	37° 02'	121° 47'	c	22 miles south southwest of Mt. Hamilton.
35	30	13-30-24	2.1	37° 37'	121° 47'	c	Near Livermore.
36	30	18-26-57	2.5	36° 56'	121° 41'	c	16 miles west northwest of Hollister.
37	May 1	03-50-38	2.7	36° 58'	121° 49'	b	27 miles south southwest of Mt. Hamilton.
38	3	23-30-50	1.8	38° 06'	122° 51'	d	24 miles south southwest of Santa Rosa.
39	4	00-10-04.7	2.4	37° 56.2'	122° 24.4'	a	Blast at Blake Brothers Quarry, Castro Point, Richmond, 9.2 miles northwest of Berkeley.
40	7	05-38-16	3.4	40° 20'	124° 44'	a	29 miles southwest of Ferndale.
41	7	10-38-21	1.3	37° 49'	121° 57'	c	17 miles east southeast of Berkeley.
42	8	21-49-50	2.6	36° 45'	121° 33'	d	10 miles southwest of Hollister.
43	9	02-34-03	2.3	36° 53'	121° 36'	d	10 miles west northwest of Hollister.
44	10	12-21-28	2.1	37° 12'	121° 51'	b	9 miles south southeast of San Jose.
45	10	14-24-23	3.1	36° 05'	120° 48'	c	20 miles east southeast of King City. Felt as slight shock at King City.
46	15	06-42-30	2.5	37° 27'	121° 38'	c	7 miles north of Mt. Hamilton.

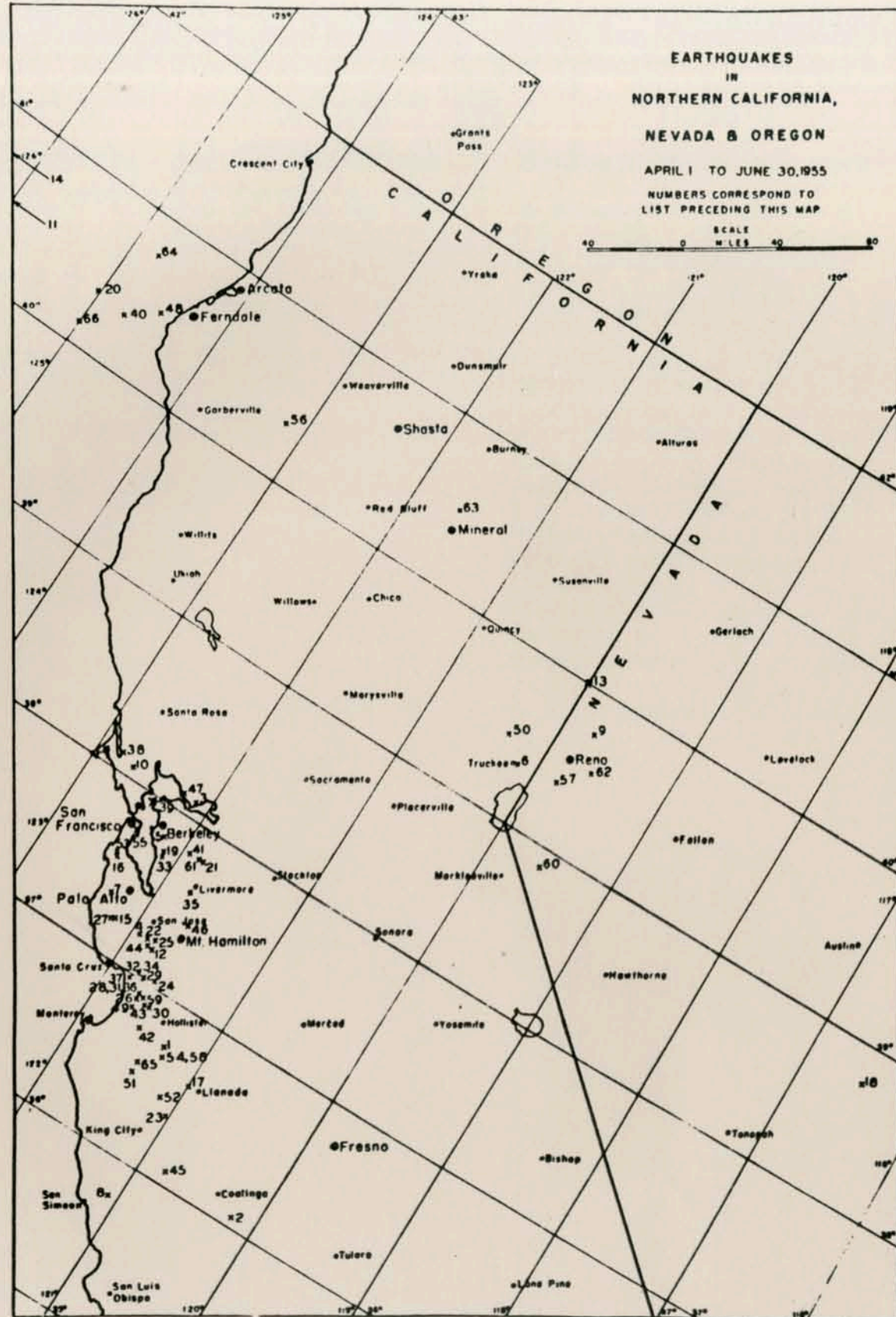
Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
47	May 24	19-59-45	1.5	38° 07'	122° 14'	d	16 miles north of Berkeley.
48	27	18-20-20	3.6	40° 28'	124° 30'	b	14 miles west southwest of Ferndale.
49	28	11-54-54	2.9	36° 50'	121° 42'	b	15 miles west of Hollister. Felt at Moss Landing Steam Plant (P.G. & E.).
50	29	04-20-20	4.1	39° 28'	120° 20'	c	12 miles northwest of Truckee. IV at Blue Canyon and Norden.
51	31	20-27-39	3.1	36° 35'	121° 25'	c	28 miles east of Monterey.
52	June 4	11-58-38	3.5	36° 27'	121° 08'	c	16 miles southwest of Llanada.
53	4	19-13-48	1.1	37° 35'	122° 26'	c	14 miles south of San Francisco.
54	5	02-59-36	3.1	36° 40'	121° 17'	c	14 miles south southeast of Hollister.
55	5	10-59-26	1.6	37° 45'	122° 24'	a	4 miles southwest of San Francisco Station. Depth about 10 km.
56	6	14-55-00	3.8	40° 21'	123° 10'	a	29 miles northeast of Garberville.
57	7	03-04-21	3.2	39° 23'	119° 49'	d	11 miles south of Reno, Nevada.
58	11	09-14-41	3.0	36° 40'	121° 17'	c	14 miles south southeast of Hollister.
59	12	03-51-46	2.5	36° 56'	121° 38'	d	14 miles northwest of Hollister.
60	14	08-51-52	3.2	38° 53'	119° 35'	c	46 miles south southeast of Reno, Nevada.
61	16	00-22-11	2.0	37° 49'	121° 52'	d	22 miles east of Berkeley.
62	16	03-02-33	3.4	39° 32'	119° 37'	d	11 miles east of Reno, Nevada.
63	16	16-03-26	3.6	40° 29'	121° 36'	c	10 miles north of Mineral. Felt at Mineral and Manzanita Lake.
64	22	06-24-49	4.2	40° 46'	124° 47'	b	38 miles west of Arcata.
65	22	09-33-03	3.9	36° 34'	121° 25'	a	18 miles south of Hollister.
65	22	11-49-29	4.4	36° 34'	121° 25'	a	18 miles south of Hollister.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
65	June 22	11-51-17	3.8	36° 34'	121° 25'		from 18 miles south of Hollister 0933 and 1149
65	22	12-50-04	4.3	36° 34'	121° 25'	"	18 miles south of Hollister.
65	22	14-23-19	3.3	36° 34'	121° 25'	"	18 miles south of Hollister. (Two shocks. Magnitudes probably refer to second larger shock. Origin time is that of first shock.)
65	22	17-08-00	3.6	36° 34'	121° 25'	"	18 miles south of Hollister. USCGS: 1149 and 1250 shocks felt approximately as follows: V at Chualar Canyon (9 miles east of Chualar), Gonzales, Hollister, Soledad. IV at Big Sur, Monterey Peninsula, Mt. Hermon, Salinas. 15 shocks were felt at Chualar Canyon (between 2 a.m. and 7 a.m.). Five shocks felt on Monterey Peninsula and at Gonzales. Three shocks felt at Big Sur.
66	24	06-15-25	3.6	40° 08'	125° 00'	d	72 miles southwest of Arcata.

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	290	F	Fresno State College - 1935
Mineral	40° 20.8'	121° 36.1'	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	S	Bureau of Reclamation - 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
1954			h. m. s.		
Apr. 1	M	eP	02 31 55.4		USCGS: 19 $\frac{1}{2}$ °N, 65 $\frac{1}{2}$ °W, 0 = 02 22 16 Off North coast of Puerto Rico.
Apr. 1	M	iP	10 18 31.7	c	
		i	37.7		
		i	48.7	c	
	R	e	18 44.0		
		e	01.8		
	SH	i	18 27.1	c	
			44.1		
			53.7		
Apr. 1	B	eP	14 17 51.9		USCGS: 19 $\frac{1}{2}$ °N, 67°W, 0 = 14 08 59, h = 60 km, North of Puerto Rico.
	BG	eLN	35.0		
	F	e	17 45.5		
		e	19 57.8		
	M	eP	17 57.5		
		e	18 25.7		
	R	eP	17 48.5		
		e	18 19.4		
		iE	19 04.1		
		iE	34.4		
		e	20 14.2		
	S	iP	18 02.0	d	
		i	26.8	c	
Apr. 1	B	eP	18 28 51.5	d	USCGS: 14 $\frac{1}{2}$ °N, 153 $\frac{1}{2}$ °E, 0 = 18 18 47, h = 60 km, Kurile Islands.
		e	29 03.7	c	
	BG	eSN	36 53.9		
		iE	37 05.5		
		eScSN	38 14.9		
		eN	44.1		
	M	eP	28 43.6	d	
	R	eP	28 59.3		
		i	29 45.7		
		eSE	37 10.6		
	PA	ePZ	28 53.1		
			29 08.9	d	
Apr. 1	B	iPZ	23 17 50.9	c	USCGS: 17 $\frac{1}{2}$ °N, 92°W, 0 = 23 11 22, h = 150 Km Southern Mexico. Felt: Tichmcalco Chiapos.
			20 32.1	c	
	BG	eN	28.5		
		eE	29.9		
	MH	iP	17 44.9	c	
		i	18 08.3	c	
		iPP	20 30.4	c	
	M	eP	17 57.9	c	
			18 13.1	d	
	F	eP	17 31.2	c	
		e	18 04.9		
	R		17 45.8	c	
		iE	56.8	d	
	S	iP	18 02.0	c	
		e	26.3	c	
		i	20 35.1	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 2	B	iP	10 35 15.3	c	USCGS: 17°S, 178°W, 0 = 10 23 25, Fiji Island Region.
	MH	iP	15.6	c	
		i	21.0	d	
	F	i	20.6	c	
	M	e	24.4	d	
		e	36 02.1		
	S	i	35 23.6	d	
Apr. 2	MH	eP	11 18 36.3	c	
		i(PP)	20 27.4		
	M	eP	18 46.2	c	
	R		41.2	c	
Apr. 2	MH	eP	11 18 37.6	c	USCGS: 28 $\frac{1}{2}$ °S, 177°W, 0 = 14 58 26, h = 60 Km. Kermadec Island.
		i(PP)	20 27.4		
	M	eP	18 46.2	c	
	R	eP	18 41.2	c	
Apr. 2	B	iP	15 10 54.1	c	
		ipP	11 10.1	d	
	BG	e(SKS)N	21 11.6		
		e(sS)N	55.8		
		eNE	37.0		
	MH	iP	10 54.2	c	
		ipP	11 09.2	d	
	F	iP	10 57.3	c	
		ipP	11 13.8		
	M	iP	03.1	c	
		ipP	18.8	d	
	R	iP	07.5	c	
		ipP	22.4		
		eNE	21 46		
	S	iP	11 02.6	c	
		ipP	18.4	d	
		eSN	21 37.4		
Apr. 2	MH	e	15 29 10.0		
	M	e	04.2		
Apr. 2	B	eP	15 37 14.7		
	MH	e(P)	19.5		
	F	eP	13.6		
	M	eP	16.2		
Apr. 2	MH i	iP	20 35 38.6	d	USCGS: 50 $\frac{1}{2}$ °N, 156°E, 0 = 20 25 45 Near South Coast of Kamchatka.
	M	eP	35 24.3	d	
Apr. 3	M	iP	21 47 00.6	d	
Apr. 4	MH	iP	13 31 21.3	c	USCGS: 16 $\frac{1}{2}$ °N, 175°W, 0 = 13 20 04, h = 200 Km. Tonga Island Region.
		e	32 04.6	c	
	F	iP	31 26.1	c	
		e	32 17.2	c	
	M	iP	31 26.4	c	
Apr. 4	B	eP	15 55 16.1	d	
		e	34.5	d	
	MH	iP	04.7	d	
			11.3	c	
			18.7	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 4	B	iP	22 32 48.0		USCGS: 42°N, 142½°E, O = 23 13 55, Felt: South Coast of Hokkaido, Japan.
	MH	iP	47.2		
	M	iP	51.8		
	R	eP	48.3		
	S	iP	52.5		
Apr. 4	B	iP	23 25 05.7	c	
		i	29.3	d	
	MH	iP	10.2	c	
		i	46.8	d	
	F	eP	25 23.6		
		e	57.4		
	M	iP	24 59.0	c	
		i	25 22.5		
	R	eP	09.1	c	
		eSE	34 17.3		
Apr. 5	B	iP	18 04 16.5	d	USCGS: 23°S, 67½°W, O = 17 52 22, h = 150 Km. Argentina, Bolivia, Chile border. Felt: Calama, Chile.
	MH	iP	11.4	d	
		i	22.9	c	
		i	50.8	c	
		i	05 21.5	c	
	F	iP	04 03.4	c	
		e	41.8		
	M	iP	13.1	d	
		i	20.6	c	
	R	iP	14.7	d	
		e	59.6		
	S	iP	24.5	d	
		e	31.5		
		i	52.0	c	
	Apr. 5	B	iP	19 28 39.7	
MH		iP	45.7	c	
		i	29 38.8		
F		e	04.0	c	
		e	31 51.8		
	M	iP	28 13.0	c	
		i	36.7	c	
		e	32 17		
	F	eE	29 48		
	C	eP	27 14		
		e	28 08		
		e	29 30		
	S	iP	28 04.5	c	
		i	53.4	c	
		e(S)N	31 50.9		
Apr. 5	B	eP	19 37 34.9	d	USCGS: 48°N, 128°W, O = 19 34 57. Off Vancouver Island, British Columbia.
	BG	eP	35.1	c	
		e	39 47.6		
		e	41 02.1		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 5	MH	eP	37 44.6	d	USCGS: O = 16 34 25, Rat Island Region, Aleutian Islands.
		i	38 06.7	c	
	F	iP	02.1	d	
	M	eP	37 11.3	d	
			22.8	d	
	C	eP	36 22		
		e	37 06		
		e	38 11		
	S	iP	37 02.6	d	
		e	41 51.4		
Apr. 5	B	eP	19 50 20.6		
	MH	iP	30.2	d	
		i	39.3		
	F	eP	46.4		
		eP	01		
Apr. 6	M	iP	12 21 03.4		
		e	18.2		
	MH	iP	18 12 14.5		
		e	24.1		
	MH	iP	20 36 51.1		
Apr. 6		i	37 01.8		
	MH	iP	06 39 42.2	d	
	F	eP	47.3	d	
	M	eP	52.3	d	
		e	40 13.2		
Apr. 7	R	eP	39 57.4	d	
	S	eP	51.6	d	
	B	eP	16 42 46.7	d	
	MH	eP	52.2	d	
			43 00.5		
			12.3	d	
	F	eP	04.7		
	M	iP	42 37.9	d	
		e	43 04.9		
		e	44 23.6		
	R	e	42 51.4		
	S	iP	32.1		
		i	41.0		
		e	24.7		
	Apr. 7	MH	iP	18 39 02.9	
F			04.8		
M			08.0		
S			05.2		
Apr. 8		M	e	08 37 50.3	
	PA	e	38 20.1		
	C	eP	36 14		
			28.5		
			37 06.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1954			h. m. s.				
Apr. 8	BG	e	16 50 55.8		USCGS: 23 $\frac{1}{2}$ °S, 116°W, 0 = 16 39 52, Easter Island Region.		
		eEN	58 14.3				
	MH	eN	17 08 12.3				
		eP	16 50 10.0	c			
	F	e	18.9				
		e	12.4				
		eP	44.6				
		eP	08.3				
		eP	41.7	c			
		e	52 39.1				
Apr. 9	B	iP	06 28 39.2	c	USCGS: 0 = 06 17 30. Southern Peru-Bolivia border region.		
	MH	iP	35.2	c			
		ipP	29 32.3				
	F	eP	28 24.1	c			
		epP	29 19.5				
	M	iP	28 44.0	c			
		iP	36.8	c			
	S	epP	29 33.1				
		iP	28 47.9	c			
	Apr. 9	MH	iP	14 07 35.2		c	USCGS: 27°N, 139 $\frac{1}{2}$ °E, 0 = 13 55 20, Bonin Islands.
eP			27.1	d			
Apr. 10	M	e	24.6	d			
			03 17 05.5	d			
Apr. 10	M	eP	08 17 33.6		USCGS: 03 07 47. Off east coast of Kamchatka. USCGS: 0 = 08 05 06, h = 60 Km, New Hebrides Islands.		
			10 24 30.5	c			
Apr. 10	MH	iP	25.3	c	USCGS: 10 $\frac{1}{2}$ °N, 78°W, 0 = 10 15 46. Off north coast of Panama. Felt: Balboa Heights.		
		eP	12.2	c			
	M	eP	32.1	c			
		eP	23.3	c			
	Apr. 10	B	iP	13 26 29.7		c	USCGS: 0 = 13 14 17, h = 200 Km, New Hebrides Islands.
			MH	iP		31.1	
Apr. 11	M	iP	27 25.7				
		iP	26 36.5	c			
	S	iP	34.7				
		eP	03 16 03.1		USCGS: 7°S, 155°E, 0 = 03 03 03. Solomon Islands.		
	BG	eN	27 24				
		eLN	39.8				
Apr. 11	MH	e	55.1				
		iP	16 01.6				
	F	eP	08.4				
		eP	15 48.7				
	M	eP	16 10				
		eP	15 59.8				
Apr. 11	MH	iP	04 49 52.1		USCGS: 0 = 04 38 30, Samoa Islands.		
		eP	52.8				
	M	eP	57.5				
		eP	50 00.3				

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 11	F	eP	05 49 49.7		USCGS: 0 = 05 40 00, h = 150 Km. Northern Chile-Argentina border.
		B	iP	05 52 09.7	
	MH		e	40.8	
		eP	05.5	c	
	F	i	49.8	c	
		eP	51 56.4		
	M	e	52 48.4		
		eP	14.9	c	
	R	eP	08.6	c	
		i	54.7		
Apr. 11	S	iP	17.8	c	
		i	50.6		
	BG	e	10 46 55.8		USCGS: 12°N, 58°E, 0 = 10 25 27. Arabian Sea.
		MH	iP'	44 55.1	
	F	e	47 01.5		
		eP'	44 43.7		
	M	eN	48 19.7		
		eP'	44 32.2		
	R	i	46 43.0		
		eP'	44 35.7		
Apr. 11	S	e	46 43.7		
		eP'	44 36.4	c	
Apr. 11	B	e(PP)	11 11 29.1		USCGS: 37°N, 70 $\frac{1}{2}$ °E, 0 = 10 53 20, Hindu Kush.
		e	14 31.0		
	MH	iP	07 27.8		
		ePP	11 19.1		
	F	ePP	38.5		
		eP	07 09.1		
	R	ePP	11 12.6		
		e	10 24.6		
	S	e	11 26.3		
		i(SKS)E	10 12.9		
Apr. 11	M	i(SKS)N	17 25.0		
		e	27.2		
Apr. 12	MH	e	15 16 29.9	c	
		eP	08 50 39.0	c	
Apr. 12	M	e	46.0	c	
		eP	47.3	c	
	S	eP	46.8		
		eP	10 56 37.8	d	
	MH	eP	47.0	d	
		e	54.6	c	
Apr. 12	S	eP	50.1	d	
		i	16 09 59.5	d	
	MH	e	10 05.2	d	
		e	35.8	d	
Apr. 12	M	eP	19 47 10.2	c	
		i	18.6	c	
	MH	eP	47 29.3	c	
		e	41.2		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 12	S	iP	28.0	c	
		e	39.5	c	
Apr. 12	MH	eP	21 11 51.0	d	
	M	eP	12 23.5	d	
		e	32.0	c	
	S	eP	21.6	d	
		e	37.2		
Apr. 12	M	eP	23 30 28.9	c	
Apr. 13	MH	iP	02 36 21.4	d	
	M	eP	37.3	d	
	S	e	32.7	d	
Apr. 13	B	eP	07 48 34.1	d	USCGS: 27 $\frac{1}{2}$ °S, 66°W, 0 = 07 36 23, h = 200 Km.
	MH	eP	30.3	d	Catamarca Province, Argentina.
		i	42.2		
		i	49 14.7		
	F		48 21.6	d	
			50 22.9		
	M	eP	48 39.0	d	
		e	49 30.0		
	R	iP	48 33.0	d	
		e(S)E	59 02.2		
	S	iP	48 42.3	d	
		i	49 27.9		
Apr. 13	B	iP	15 37 59.3		USCGS: 34 $\frac{1}{2}$ °N, 133 $\frac{1}{4}$ °E, 0 = 15 25 48.
	MH	eP	38 02.0		Near South Coast of Honshu, Japan.
	F	e	06.5		
	M		37 51.1		
	S		37 43.6		
Apr. 14	B	eP	04 07 02.0	c	
	MH	iP	00.9	c	
	F	eP	00.5		
	M	eP	07.1	c	
		i	37.4		
	S	iP	07.6	c	
Apr. 14	M	iP	07 54 50.4	c	USCGS: 52 $\frac{1}{2}$ °N, 158 $\frac{1}{2}$ °E, 0 = 07 45 27.
		e	55 55.4	c	Near East Coast of Kamchatka.
	S		54 45.9	c	
Apr. 14	B	iP	08 06 17.6		USCGS: 22 $\frac{1}{2}$ °S, 70°W, 0 = 07 54 24,
	MH	iP	13.2		h = 100 Km.
		i	37.0		Northern Chile.
	F	eP	04.3		Felt: Antofagasta.
		e	26.4		
	M	eP	23.0		
	S	eP	24.7		
		e	49.2		
Apr. 14	M	eP'	13 42 40.6	d	USCGS: 10°N, 93°E, 0 = 13 24 47.
		i	43 56.4		Andaman Islands Region.
		e	45 27.0		
Apr. 15	C	eP	01 03 59		
Apr. 15	M	e	13 53 27.6	c	
			33.9	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 15	M	eP	18 41 03.0	c	
		e	17.2		
	S		41 02.6		
Apr. 15	MH	iP	23 13 34.2	d	
			14 03.0	d	
	S	eP	13 43.6	d	
Apr. 16	F	e	08 29 42.8	d	
	M	e	27 47.3	d	
Apr. 16	B	eP	10 41 32		USCGS: 43°N, 142 $\frac{1}{4}$ °E, 0 = 10 30 25, h = 60 Km.
	MH	eP	28.9	d	Hokkaido, Japan.
		i	46.6		
	M	eP	17.1	c	
		e	29.7		
	S	eP	13.4	c	
Apr. 16	MH	eP	18 48 21.6	c	
		e	49 03.1		
		e	50 21.1		
Apr. 16	MH	eP	19 47 24.4	c	
			36.8	c	
Apr. 17	MH	i	01 08 25.5		
	M	e	35.3		
Apr. 17	MH	iP	03 24 13.5		
			37.7		
Apr. 17	B	eP	12 21 05.3	c	USCGS: 43°N, 141°E, 0 = 12 09 59.
		i	35.8		Near West Coast of Hokkaido, Japan.
		e	45.7		
	MH	iP	09.8	c	
		i	21.9		
	F		18.9	c	
	M		20 58.4	c	
			21 16.2		
			23 36.2		
	S		20 54.8	c	
			21 04.0		
Apr. 17	B	iP	20 18 29.9	d	USCGS: 51 $\frac{1}{2}$ °N, 179°W, 0 = 20 10 37.
		i	19 31.0	c	Andreanof Island, Aleutian Islands.
		iPP	20 01.2	c	Felt: On Adak.
		i	27.2		Magnitude:
	BG	i	18 30.1	d	Berkeley 6-3/4
		i	21 01.5		Pasadena 6-3/4 - 7
		i(S)N	24 48.9		
		eIN	28 02		
	MH	iP	18 34.8	d	
		i	19 41.8		
		eSN	24 59.3		
		eSE	25 00.0		
	F	iP	20 18 47.7	d	
		iSN	25 22.6		
		eN	27 37.3		
	A	ePNE	20 18 08.2		
		eSE	24 02.3		
		eN	07.5		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 17	Fe	e(P)	18 15		
		e(S)	24 03		
	G	iP	17 54		
		iS	23 41		
		e	28 25		
	S	eP	18 15.3	d	
		iPP	19 59.4		
		iSE	24 20.4		
		iSN	23.1		
		iScSE	28 18.7		
		iScSN	20.7		
Apr. 17	B	eP	20 24 14		
	MH	iP	16.3		
	S	eP	05.2		
Apr. 17	B	iP	20 27 20.2		
	MH	iP	25.9		
	S	iP	06.0		
Apr. 17	MH	eP	20 32 20.2		
	S	eP	01.5		
Apr. 17	S	e	20 35 40.3		
Apr. 17	MH	i	20 36 38.6		
	S	e	19.0		
Apr. 17	MH	iP	20 39 41.1		
Apr. 17	B	iP	20 54 07.5	c	
	MH	eP	00.6	d	
		i	13.0	c	
		i	28.9	c	
		i	55 04.8	c	
	F	eP	54 25.4	c	
	S	eP	53 40.3	c	
		i	44.7		
		i	53.0		
Apr. 17	MH	iP	21 04 37.2	c	
	F	eP	49.8	c	
	S	iP	17.5	d	
Apr. 17	MH	iP	21 06 03.0	c	
		e	09.5	d	
	F	e	15.6	c	
	S	iP	05 43.3	d	
Apr. 17	B	eP	21 46 35.9	c	
	MH	iP	41.9	c	
		i	49.2	d	
	S	eP	17.0	d	
		i	22.0	c	
Apr. 17	MH	iP	22 27 23.7	c	
	S	eP	03.5	d	
Apr. 17	S	e	22 46 44.2	d	
Apr. 17	B	iP	23 02 52.9	c	
	MH	eP	58.1	d	
		i	03 04.6		
		iPP	04 50.6		
					USCGS: 51 $\frac{1}{2}$ °N, 180°W, 0 = 22 54 58. Andreanof Island, Aleutian Islands.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 17	F	eP	03 11.4	c	
	S	iP	02 38.7	d	
		e	49.0	d	
Apr. 18	S	e	00 41 49.9	d	
Apr. 18	B	iP	01 18 54.4	c	USCGS: 0 = 01 11 01. Andreanof Island, Aleutian Islands.
	MH	iP	19 00.2	d	
		i	05.2	c	
	S		18 40.3	d	
Apr. 18	B	e	03 16 10.9	d	USCTS: 31°S, 178°W, 0 = 03 03 26. Kermadec Islands.
	MH	eP	05.6	c	
		i	16.7	d	
		i	23.8		
	F	eP	13.6	c	
	S	eP	19.8	d	
Apr. 18	MH	e	04 45 35.2	c	
	S	i	15.1	c	
Apr. 18	MH	eP	19 44 26.7		
		i	32.5		
		e	11.5		
Apr. 19	MH	e	03 31 11.0		
	M	iP	30 56.8		
	S	e	30 51.4		
Apr. 19	MH	eP	16 26 32.1	d	
		e	58.0		
		e(PP)	28 56.1		
	F	e	26 35.6		
		e	27 33.8		
	M	iP	26 38.6	d	
		e	46.6		
		e	53.1		
	S		37.6	d	
Apr. 21	M	eP	10 11 08.3	d	USCGS: 43°N, 46°E, 0 = 09 57 40. Dagestan, A.S.S.R.
		e	25.9		
Apr. 21	MH	iP	18 50 51.3	c	USCGS: 0 = 18 40 46. Windward Islands.
		i	51 00.9	d	
	M	iP	50 52.6	c	
Apr. 21	B	iP	20 33 47.8	c	USCGS: 13°S, 77°W, 0 = 20 23 05, h = 100 Km. Near coast of Peru, Felt at Lima.
	MH	iP	43.2	c	
		i	56.7	c	
	F		32.0	c	
			55.0		
	M	eP	53.3	c	
		i	34 42.0		
		i	50.3		
	R	eP	20 33 45.9	c	
		i	34 12.0		
		i	35 41.5		
		eSNE	42.3		
	G	eP	34 19		
	S	eP	33 56.7	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 21	MH	eP	22 41 24.1	d	
		e	42 16.0	c	
Apr. 22	B	iP	15 05 35.6	c	USCGS: 22°N, 142½°E, 0 = 14 53 22.
		e	53.3	c	Marianas Islands Region.
	MH	eP	34.2	c	
			38.8		
	F	eP	46.5		
		eS	15 35.3		
	M	iP	05 33.0	c	
			46.6		
	R	eP	41.9		
		i	44.7		
		e(S)E	16 21.9		
		iSN	27.3		
	C	eP	05 20		
	S	iP	29.4		
		e	06 42.9		
		eSN	15 02.5		
Apr. 23	MH	iP	01 29 32.8	c	USCGS: 01 21 20. Near South Coast
			50.5	c	of Costa Rica.
	M	iP	30 44.3	d	
Apr. 23	MH	eP	08 46 08.2	c	
			47 08.2	c	
Apr. 23	M	i	19 20 42.1		45.1°N, 122.9°W, 0 = 19 19 26.
	C	iP	19 38		USCGS: Intensity IV at Portland and
		iS	46.5		Salem, Oregon.
Apr. 23	B	iP	21 16 07.4		
	MH	iP	05.3	c	
		e	09.3		
		e	17 04.3		
	F	eP	15 54.9	c	
	M	iP	16 13.7	c	
	S	eP	16 16.5	c	
Apr. 24	B	iP	08 39 04.7		USCGS: 63°N, 148°W, 0 = 08 30 04,
		i	39.3		h = 100 Km.
	MH	iP	10.2	d	Southern Alaska.
		i	35.3		Felt at College, Alaska.
		i	56.9		
	F	eP	20.7		
		e	44.8		
	M	iP	38 41.4	d	
		i	39 11.4		
		e	42 08.3		
	C	eP	08 38 08		
		e	32		
	S	eP	38 41.0	d	
			39 04.0		
Apr. 24	MH	eP	10 06 50.9		
		e	07 06.5		
		e	24.5		
	M	e	01.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 24	B	eP	17 45 32.2	c	USCGS: 34°N, 140½°E, 0 = 17 33 50.
	MH	eP	39.4	c	Near East Coast of Honshu, Japan.
		e	55.9		
	F	eP	45.8		
	S	eP	21.6		
Apr. 24	B	eP	18 44 00.5	c	USCGS: 43°N, 141½°E, 0 = 18 32 52.
	MH	eP	04.7	c	Central Hokkaido, Japan.
	F	eP	13.9	c	
	M	eP	43 54.5	c	
	S	eP	49.5	c	
Apr. 25	M	e	00 42 24.5		USCGS: 0°, 15½°W, 0 = 00 27 54,
					Atlantic Ocean, about 500 miles
					southwest of Liberia.
Apr. 25	MH	eP	04 06 19.4		
			38.0		
			07 34.7		
	M	eP	06 27.6		
	R	eP	16.3		
Apr. 25	B	iP	05 42 18.4		
	MH	eP	19.6		
		e	23.9		
	S		22.4		
Apr. 25	MH	eP	10 05 16.3	c	USCGS: 0 = 09 56 30.
			26.7	d	Off Northeast Coast of Dominican
			18.7	c	Republic.
Apr. 25	MH	eP	14 51 49.2		
	M	eP	42.7		
	S		38.6		
Apr. 25	MH	iP	18 21 11.8	c	
		i	14.7	d	
	F	iP	20.6	c	
		e	44.4		
	M		1 13.1	c	
	R		21.2	c	
	S		08.9		
Apr. 25	B	iP	20 33 47.3	c	See Note on page 53.
		eSNE	34 01.6		
	MH	iP	33 37.1	d	
	PA	iP	07.5	c	
	SF	ePE	46.7		
		e	57.8		
	M	iP	34 17.0	d	
		iSE	35 08.3		
	F	iP	33 54.4	c	
		e(S)E	14.5		
	R	eP	34 17.0	d	
	A	eN	39.4		
		eE	36 03.7		
	C	eP	35 16		
		e	37 49		
	S	iP	34 26.1	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 26	MH	eP	02 22 18.8		USCGS: 42°N, 143°E, 0 = 02 11 04. Near South Coast of Hokkaido, Japan.
		i	44.6		
		F	27.9		
Apr. 26	MH	eP	09 25 57.3	c	USCGS: 1/2°S, 91 1/2°W, 0 = 09 17 20. Galapagos Island.
		eP	51.8	c	
		ePcP	27 22.7	d	
Apr. 26	MH	eP	11 31 19.8	d	USCGS: 51°N, 158 1/2°E, 0 = 20 24 44, h = 60 Km. Off South Coast of Kamchatka.
		eP	11.2	d	
		e	42.6		
Apr. 26	MH	eP	13 11 59.4	c	
		eP	50.7	c	
		eP	12 21.9	c	
Apr. 26	MH	eP	17 54 24.3	c	
		eP	36.4		
		eP	36.1		
Apr. 26	BG	iP	20 34 17.2	c	
		i	29.9	c	
		i	36.2	c	
Apr. 26	BG	eP	41 53.4	c	
		i	42 03.0	c	
		i(ScS)N	44 27.0		
Apr. 26	MH	eSSN	45 42.0		
		iLN	47 10.5		
		eP	34 22.3	c	
Apr. 26	MH	i	41.8	c	
		i	58.4	c	
		eS	42 09.1		
Apr. 26	F	iP	34 32.8	c	
		e	35 54.4	c	
		eSE	42 31.1		
Apr. 26	M	iP	34 08.8	c	
		ipP	27.7	c	
		i	50.8	d	
Apr. 26	M	eS	41 45		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 26	R	iP	34 19.8	c	
		i	32.5	c	
		ipP	39.3	c	
Apr. 26	C	iPP	36 23.1	d	
		eSEN	42 07.6		
		eP	33 40		
Apr. 26	S	e	38 50		
		iP	34 03.6	c	
		ipP	22.7	c	
Apr. 26	S	e	35 25.5		
		eSE	41 30.4		
		esSN	42 00.7		
Apr. 27	B	iP	10 15 07.7	c	USCGS: 6°N, 82 1/2°W, 0 = 10 06 24, South of Panama.
		i	16 55.5	c	
		i	17 06.3	d	
Apr. 27	BG	iP	15 08.2	c	
		i	16 53.0	c	
		iPP	17 11.4	d	
Apr. 27	MH	eSN	22 08.1		
		eScSN	25 00.4		
		eSSN	47.6		
Apr. 27	MH	eLN	30 20.0		
		iP	15 02.4	c	
		i	44.7	c	
Apr. 27	F	e	16 31.3	c	
		i	58.9	c	
		iP	14 48.8	c	
Apr. 27	M	i	15 19.1	c	
		i	16 45.0	d	
		eP	15 14.1	c	
Apr. 27	R	e	31.3	c	
		iP	17 06.6		
		iP	15 03.0	c	
Apr. 27	R	i	47.9	c	
		i	16 01.5	c	
		iE	17 10.1		
Apr. 27	C	eP	15 40		
		e	34 22		
		iP	15 17.2	c	
Apr. 27	BG	e(P)P	21 41 29.4	c	USCGS: 56°S, 147°E, 0 = 21 21 35. South of Tasmania.
		e(SK)N	46 33.6		
		i(SK)N	48 32.8		
Apr. 27	BG	e(SS)N	58 45.4		
		eLN	11.5		
		eP	04 59 09.2		
Apr. 28	BG	eN	05 13 25.6		USCGS: 51 1/2°N, 175°E, 0 = 04 50 51, Near Islands, Aleutian Islands.
		iP	04 59 14.8	d	
		i	05 00 05.8		
Apr. 28	F	eP	04 59 28.9	d	
		e	05 00 01.5		
		eP	04 59 01.2	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Apr. 28	R	eP	15.1	c	
	S		58 54.3		
Apr. 29	B	iP	10 52 19.9	c	USCGS: 29½°N, 112½°W, 0 = 10 49 27. Gulf of California.
	BG	iSN	54 55		
	MH	iP	52 08.2	c	
		i	18.2		
		eE	55 10.5		
		i	43.2		
	F	iP	51 51.5	c	
		iN	53 19.7		
	M	eP	52 42.2	d	
		i	45.0	c	
		i	53 08.1	d	
	A	ePE	53 02.6		
		eE	56 33.8		
	R	iP	52 24.8	d	
		iN	54 04.4		
		iN	55 10.9		
		i	59.4		
	SF	ePE	52 22.5		
		eE	57 18.5		
	C	iP	53 38		
		e	58 53		
	S	eP	52 51.2	d	
		i	53 08.4		
		eN	57.4		
Apr. 29	B	eP	11 37 24.7		USCGS: 29½°N, 112½°W, 0 = 11 34 34. Gulf of California. Minor damage in Western Mexico.
	MH	eSN	39 59.0		
		iP	37 14.3	d	
		i	39 39.5		
	F	eP	36 57.9	d	
	M	eP	37 49.2	d	
	A	eE	38 10.2		
		eE	41 39.0		
	R	iP	37 31.7	d	
	SF	ePE	37 22.4		
		eSE	39 51.1		
	C	iP	38 45		
		e	41 59		
	S	eP	37 57.2		
		eNE	41.5		
Apr. 29	MH	iP	13 15 23.8		USCGS: 0 = 13 12 32. Gulf of California Aftershock.
	M	eP	57.8		
	R	eP	37.7		
	S	eP	16 04.9		
Apr. 29	MH	iP	14 50 27.3		
		i	45.9		
Apr. 29	MH	iP	16 02 11.2		
Apr. 29	MH	iP	22 32 39.5		
		i	47.2		
		i	53.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1954			h. m. s.			
Apr. 29	B	iP	23 52 28.2	c		
	MH	iP	31.1	c		
	M		51 58.9	c		
Apr. 30	MH	iP	00 12 39.9		USCGS: 53°N, 162°E, 0 = 00 03 10. Off East Coast of Kamchatka.	
		i	47.6			
	M	iP	19.7			
		i	24.1			
	S	eP	14.4			
		i	15.2			
Apr. 30	M	e	06 38 19.2			
Apr. 30	M	iP	09 52 33.4			
Apr. 30	B	eP	12 09 02.3	c		USCGS: 51½°N, 179°W, 0 = 12 01 10. Andreanof Islands, Aleutian Islands.
	MH	iP	08.9	d		
		i	11.5			
		i	30.4			
	F	eP	20.8			
	M	iP	08 53.1	d		
		i	09 33.7			
	C	eP	08 17			
	S	eP	48.4	d		
		e	09 47.8			
Apr. 30	B	eP	13 16 09.8	d	USCGS: 39½°N, 22°E, 0 = 13 02 36. Central Greece. 24 killed, 137 injured, damage amounted to 10 million dollars.	
	BG	eP	09.4	c		
		iPP	20 09.2	c		
		iSKSN	26 48.8			
		ePS	28 44.2			
		eN	48.2			
	MH	iP	16 08.3	d		
		iPP	19 51.4	c		
	F	eP	16 07.5	c		
		ePP	20 03.7	c		
		eSKSN	26 43.9			
		eSN	27 43.0			
	M	eP	15 56.4	d		
		iPP	19 44.3	d		
	R	eP	13 15 47.5	c		
		ePP	19 39.9	d		
		e(SKS)N	26 32.7			
		e(S)N	27 22.5			
	C	eP	16 44			
		e	19 16			
		e	26 18			
		e	50 59			
	S	eP	15 55.7	c		
		i(PP)	20 06.2	d		
		eSKSN	26 27.9			
May 1	B	eP	00 32 19.2	d	USCGS: 17°S, 174°E, 0 = 00 20 03. Fiji Islands Region.	
	MH	iP	22.4	d		
		i	33 13.4	c		
	F	eP	32 27.2	d		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 1	R	eP	34.8	d	
		e	33 24.4	c	
	S	iP	32 30.0	d	
May 1	F	eP	01 08 58.1		USCGS: 17°S, 174°E, 0 = 00 56 32.
	R	eP	01 09 01.2		Fiji Islands Region.
May 1	MH	eP	18 00 15.5		
		i	31.4		
May 1	MH	eP	00 10 33.2	d	
	S	eP	24.7	c	
May 2	MH	iP	00 24 09.0	c	
	M	eP	23 59.3	c	
	S	eP	55.4	c	
May 2	MH	eP	03 26 34.9	d	USCGS: 14°N, 141½°E, 0 = 03 13 50.
	M	eP	32.9	c	Marianas Island Region.
	S	iP	28.8	d	
		e	27 01.7	c	
May 2	MH	iP	10 28 52.5		
	M	eP	29 01.6		
	S	e	29 00.0		
May 2	B	eP	18 07 07.9	c	USCGS: 4°N, 94½°E, 0 = 17 48 02.
		e	18.7	d	Off Northwest coast of Sumatra.
		e	08 10.9		
	MH	eP	07 11.9	c	
		i	20.4	d	
	F	eP	12.4	c	
	R	eP	10.4	d	
	S	e	04.5	d	
May 2	MH	eP	18 36 42.8	c	USCGS: 53½°N, 160½°E, 0 = 18 27 20.
		i	48.7	d	Near East Coast of Kamchatka.
	F	eP	59.5	c	
	M	eP	35 28.8	c	
		i	40.5	d	
	R	eP	36 46.9		
	S	iP	23.7	c	
		e	39.6	d	
		e	37 13.1	c	
May 3	M	eP	04 10 45.7	c	USCGS: 6°N, 35½°W, 0 = 03 58 24.
	R	eP	11 06.7	c	Mid-Atlantic Ocean.
May 3	M	eP	05 37 33.8	c	USCGS: 36°N, 21½°E, 0 = 05 24 57.
					Near South Coast of Greece.
May 3	MH	eP	08 01 14.2	d	
	M	eP	43.7	d	
		eP	56.4	c	
	S	eP	51.0	d	
May 3	M	eP	09 04 51.1	c	USCGS: 36½°N, 21°E, 0 = 08 51 20.
		e	05 12.6	d	Near South Coast of Greece.
May 3	MH	eP	11 13 19.2		USCGS: 0 = 11 03 50.
		e	28.8		Near East Coast of Kamchatka.
	M	eP	12 57.8		
	R	eP	13 11.2		
	S	eP	12 53.8		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 3	MH	e	11 49 27.2	c	
		e	33.7	c	
	M		23.9	c	
May 3	M	eP	13 43 35.4	c	USCGS: 36°N, 27°E, 0 = 13 29 42.
					Felt in Dodecanese Islands.
May 3	B	eP	15 39 13.8	c	USCGS: 51½°N, 159½°E, 0 = 15 29 40.
	BG	eP	14.9		Off South Coast of Kamchatka.
		iSE	46 54.9		
		eE	56 09.1		
	MH	iP	34 14.2	d	
	F	eP	30.2	c	
	M	eP	03.9	c	
	R	eP	18.1	c	
	C	eP	38 35		
	S	eP	58.9	c	
		ePP	40 52.1	d	
		eS	46 27		
May 3	B	iP	17 18 29.6	c	
	MH	iP	35.8	c	
	M	eP	20.8	c	
	R	eP	34.4	c	
	S	iP	15.6	c	
May 3	B	iP	17 21 10.1		USCGS: 12°N, 86°W, 0 = 17 13 32,
		epP	42.6		h = 150 Km.
		i	23 05.5		Near Coast of Nicaragua.
	MH	iP	21 04.3	c	
		ipP	39.0		
		i	23 03.3		
	F	eP	20 49.9	c	
		ipP	21 23.8	c	
		e(S)	25 42.5		
	M	eP	21 13.0	c	
		ipP	48.8	c	
		e	22 05.2		
	R	iP	21 04.0	c	
		ipP	38.1	c	
		eN	27 06.3		
	C	eP	21 43		
	S	eP	19.5		
		eSE	27 31		
		eSN	33		
May 4	MH	eP	01 39 09.7		
	M	eP	00.6		
	S	eP	38 57.8		
May 4	M	e	02 51 28.3		
May 4	MH	eP	06 36 33.4	d	USCGS: 36°N, 141°E, 0 = 06 24 27.
		i	37 12.9		Near East Coast of Honshu, Japan.
	F	eP	36 47.8	d	Felt: Tokyo.
	M	eP	17.0	d	
		i	29.2		
	R	eP	39.6	d	
	S	eP	13.4		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 4	MH	eP	06 46 07.1	d	
	M	eP	45 50.5	c	
		i	46 05.7	d	
May 4	S	eP	45 44.4	c	
	MH	iP	16 28 16.3	c	
	F	eP	13.6	c	
May 4	S	eP	17.4	c	
	MH	iP	16 59 03.2	c	USCGS: 40°N, 21°E, 0 = 16 45 33.
	F	eP	01.9	c	Central Greece.
May 4	R		58 52.6	c	
	S		46.6	c	
	MH	iP	17 44 47.6	c	USCGS: 52°N, 159½°E, 0 = 17 35 05.
May 4	R	eP	37.5	c	Off Southeast Coast of Kamchatka.
	S	eP	20.2	c	
	MH	iP	17 59 15.5	d	USCGS: 74°N, 81°W, 0 = 17 51 22.
May 4		i	27.5	d	Devon Island Region, Canada.
	S	iPP	18 00 41.2	d	
	MH	eP	17 58 45.7	d	
May 4	R	eP	19 23 39.1	d	
	S	eP	24 15.2	d	
	R	eP	23 50.3	d	
May 5	S	eP	54.9	d	
	C	e	01 43 17	d	USCGS: Moderate shock felt over approximately 1500 square miles of Northwestern Washington in the Puget Sound Area between Tacoma and Seattle.
					Maximum Intensity: V at Tacoma.
May 5	BG	eNEZ	11 08 05.6	d	USCGS: 27½°N, 112½°W, 0 = 11 01 14.
	MH	eP	04 22.0	d	Gulf of California.
	F	eP	02.1	d	
May 5	R	eP	40.4	d	
	S	eP	05 00.6	d	
	B	eP	11 47 32.8	c	USCGS: 15°N, 147½°E, 0 = 11 35 13.
May 5	MH	iP	34.2	c	Marianas Islands.
		i	39.0	c	
	F	eP	48 08.3	c	
May 5	R	eP	47 42.1	c	
	S	eP	39.1	c	
	S	eP	27.3	c	
May 5	B	ePN	13 12 59.7	c	USCGS: 27½°N, 112½°W, 0 = 13 09 46.
	BG	eLN	16 35.1	c	Gulf of California.
		iPNEZ	12 59.8	c	
May 5		iSE	15 43.0	c	
	MH	i	16 01.6	c	
		eP	12 49.8	c	
May 5		i	13 13.1	c	
		eNE	16 02	c	
	F	iP	12 32.1	c	
		eN	15 44.7	c	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 5	A	eN	13 51.7	c	
		eN	18 30	c	
	R		12 55.1	c	
May 5	SF	eE	13 10.4	c	
	C	eP	14 15	c	
		eS	18 08	c	
May 5		e	19 03	c	
	S	iP	13 30.7	c	
		eSE	16 34.3	c	
May 5	B	iP	17 22 59.6	d	USCGS: 50°N, 156½°E, 0 = 17 13 12.
		i	23 13.9	d	Off South Coast of Kamchatka.
	MH	iP	05.0	d	
May 5		i	18.2	d	
		i	59.8	d	
	F	iP	25 09.8	d	
May 5		i	23 15.2	d	
	M	iP	22 51.4	d	
		i	03.5	d	
May 5	R	iP	23 03.3	d	
		i	16.4	d	
	S	iP	22 46.9	d	
May 5			23 47.6	d	
	MH	e	18 12 40.1	c	
	M	e	37.5	d	
May 6	S	e	34.3	d	
	B	iP	09 11 58.1	c	USCGS: 50°N, 155½°E, 0 = 09 02 14.
	BG	iSE	19 46.8	c	Off South Coast of Kamchatka.
May 6		iSN	48.9	c	
		eScSN	21 34.4	c	
	MH	eP	12 02.7	d	
May 6		i	12.8	d	
		i	47.4	d	
	F	eP	12 13.0	d	
May 6	M	eP	11 49.2	d	
	R	eP	12 00.9	d	
	C	eP	11 23	d	
May 6	S	iP	44.8	d	
		iSE	19 21.9	d	
	MH	eP	16 25 48.9	c	
May 6	M	iP	22.7	c	
	R	eP	48.2	c	
	S		13.2	d	
May 7	B	iP	00 33 16.2	d	USCGS: 0 = 00 22 50. h = 150 Km.
	MH	iP	11.6	d	Central Peru-Brazil border Region.
	M	iP	22.3	c	
May 7	R	eP	13.2	d	
	S	iP	25.0	d	
	MH	eP	02 30 27.8	c	USCGS: 43°N, 146°E, 0 = 02 19 37,
May 7	F	e	56.9	c	h = 60 Km. Off East Coast of
	M	iP	16.4	d	Hokkaido, Japan.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 7	R	eP	28.1	c	
	S	iP	12.5	d	
May 7	M	iP	05 25 55.2	c	
May 7	MH	iP	05 48 04.1	d	
	S	iP	11.8	d	
May 7	PA	eP	21 08 49.5	c	USCGS: 0 = 20 55 30.
	F	eP	00.1	c	Marianas Islands about 250 miles
	R	eP	07 57.0	c	northeast of Guam.
	S	eP	44.9	d	
May 8	MH	eP	19 36 44.4		
		i	37 06.8		
	F	eP	36 48.8		
May 8	PA	eP	20 29 50.2	c	USCGS: 0 = 20 15 32. Banda Sea.
May 9	B	iP	01 51 29.3		USCGS: 01 39 20. Volcano Islands
		i	54.5		Region.
	MH	iP	32.8	c	
	S	iP	23.4	c	
		e	52 35.6		
May 9	MH	eP	14 24 48.0	c	USCGS: 71°N, 12°W, 0 = 14 14 32.
	F	iP	52.6	c	Jan Mayen Islands.
	R	eP	34.7	c	
	S	eP	26.3	d	
May 9	MH	iP	15 39 04.0	d	
			16.2	c	
May 9	MH	iP	22 34 04.2	c	
	F	e	09.1	c	
	M	eP	13.9	c	
	S		12.8	c	
May 10	MH	eP	04 52 55.8	d	
	M		53 05.4	c	
May 10	MH	eP	06 39 00.3	c	
		e	48.1	c	
	M	eP	38 57.5	c	
	S	eP	55.0	c	
		e	39 37.5	c	
May 10	MH	eP	06 59 46.2	c	
	F	eP	54.6	c	
	M	eP	58 36.1	c	
	R	e	59 33.5		
May 10	MH	eP	08 11 54.3	d	
	M	eP	46.1	d	
	S	eP	43.4		
May 10	B	iP	14 41 30.4	c	USCGS: 17½°S, 179°W, 0 = 14 30 38,
		i	42 08.5	d	h = 600 Km. Fiji Islands.
	MH	iP	41 34.4	c	
	F	iP	39.4	c	
	M	iP	42.8	c	
	R	iP	47.1	c	
	S	iPE	42.2		
May 11	MH	eP	04 36 40.6	c	USCGS: 0 = 04 26 45.
	M	eP	18.3		Arctic Ocean Northwest of
	S	eP	15.9		Spitsbergen.

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 11	R	eP	23 01 27.8	d	USCGS: 41°N, 141°E, 0 = 22 50 02.
	S	iP	03.1	d	Off North Coast of Honshu, Japan.
May 12	MH	eP	06 52 12.5	c	USCGS: 0 = 06 22 14.
	S	iP	39.1	d	Near East Coast of Mindanao, P.I.
May 12	MH	iP	17 51 19.4	d	
	S	iP	50 42.0	c	
May 13	B	iP	14 52 54.0	d	USCGS: 17°N, 95½°W, 0 = 14 46 38,
		epP	53 08.7		h = 100 Km.
		esPP	54 29.6		Minor damage at Oaxaca, Mexico.
		iPcP	55 47.4		
	BG	iSE	58 02.1		
		isSN	32.9		
		iE	15 02 35.3		
	MH	iP	14 52 47.8	d	
		ipP	53 02.0	d	
	F	iP	52 33.3	d	
		iPcP	55 07.8	c	
	R	iP	52 50.3	d	
	C	iP	53 34		
		e	15 08 44		
	S	iP	14 53 07.0	d	
		ipP	21.6	d	
		ePP	54 47.9		
		eE	59 55		
May 14	MH	e	16 28 09.1	c	
May 14	B	iP	18 34 53.3	d	
	MH	i	35 03.1		
May 14	B	iP	22 50 48.9	d	USCGS: 36°N, 137°E,
		ipP	51 41.8	d	0 = 22 39 25, h = 250 Km.
		isP	52 13.5	d	Near Coast of Honshu, Japan.
		i	53 30.0		Felt in Eastern Honshu.
	BG	iP	50 48.5	d	
		i	51 45.7		Pasadena Magnitude: 7.
		iE	23 02 26.1		
	MH	iP	22 50 52.4	d	
		i	53 06.9		
		e	23 19 02.8		
	F	iP	22 51 00.8	d	
		ipP	52 01.5		
		eSN	23 00 39.1		
	A	eN	22 50 33.8		
	R	iP	52.6	d	
	SF	ePE	48.1		
	C	iP	25		
	S	iP	38.9	d	
		epP	51 38.2		
		eSNE	59 52.6		
		eScSNE	23 00 22.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 15	MH	eP	13 04 43.2	d	USCGS: 48°N, 122°W, 0 = 13 02 14. Northwest Washington. Moderately strong shock felt over an area of approximately 17,000 square miles of Western Washington. Maximum Intensity VI.
		i	52.8		
	F	eP	59.9	c	
	R	eP	18.2	c	
	PA	eP	42.9	d	
	C	i	04		
	S	eP	03 55.4		
May 15	MH	iP	23 31 27.3	c	
		i	45.8	d	
	R	iP	31.2	c	
May 17	MH	eP	05 28 25.5	c	
		e	47.3		
	F	eP	24.6	c	
May 17	MH	eP	13 20 28.4	c	
		i	53.5	c	
	R	eP	40.6		
	S	eP	48.6	c	
May 18	MH	eP	05 21 43.5	c	USCGS: 10½°S, 75½°W, 0 = 05 11 05. Central Peru. Felt.
	R	eP	49.5	c	
	S	eP	22 00.9	c	
May 18	MH	iP	10 27 07.5	c	USCGS: 25°N, 125°E, 0 = 10 13 55. Ryukyu Islands.
		i	19.8	d	
	S	eP	26 54.5	d	
		e	27 08.4	c	
May 19	S	e	18 49 19.5	d	
May 19	MH	iP	23 20 24.4	d	USCGS: 5°S, 151°E, 0 = 23 07 12. New Britain. Pasadena Magnitude 6¼ - 6½.
	F	eP	27.1	d	
	S	iP	18.8	c	
	MH	iP	13 50 18.3	c	
			32.0	d	
	S	eP	39.8	c	
May 21	MH	iP	05 25 26.8	c	
	F	eP	37.5	c	
	S	iP	16.1	d	
May 21	MH	iP	16 19 21.5	c	USCGS: 56°N, 157°W, 0 = 16 13 15. Off East Coast of Alaska Peninsula.
		i	27.7	c	
	F	eP	37.6	c	
	R	eP	19.4		
	S	iP	00.3	c	
		e	24.7	d	
May 21	MH	iP	17 37 47.8	d	
		e	38 04.3	d	
	F	eP	37 57.4	d	
		i	38 18.4	c	
	R	eP	37 31.1		
		e	38 01.1		
	C	eP	36 40		
		eS	40 13		
	S	iP	37 05.9	d	
		e	38 16.6		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1954			h. m. s.			
May 21	C	eP	23 12 19			
May 23	B	iP	04 20 41.6		USCGS: 46°N, 149½°E, 0 = 04 10 27, h = 150 Km. Kurile Islands	
		e	50.8			
	MH	iP	45.2	d		
		i	21 07.9			
	F	eP	20 55.2	d		
		e	21 23.6	d		
			48.5			
	R	eP	20 44.2	d		
	S	i	48.9	d		
		i	21 10.7	c		
May 23	B	iP	23 53 41.5	c	Pasadena: 34°59'N, 118°59'W, 0 = 23 52 43.2. Near Wheeler Ridge. Pas. Magnitude: 5.1. USCGS: IV at Antelope Station (L.A. Aqueduct), Bakersfield, Cuyama Valley, Fillmore, Los Angeles, Hollywood, Rolling Hills, Saugus, Tehachapi, Tupman, Wasco, Wheeler, Springs.	
	MH	eP	30.6	d		
		iSE	54 13.7			
		iSN	14.1			
	F	iP	53 14.0	d		
	R	eP	53 53.5	d		
		i(S)	55 00.5			
	SF	eP	53 38.8			
		iS	54 27.5			
	PA	iP	53 35.9	c		
	S		54 15.7	d		
May 24	MH	iP	07 39 11.4	c	USCGS: 48½°N, 156°E, 0 = 07 28 59. Kurile Islands.	
			18.8	d		
	F	eP	15.2	c		
	S	eP	38 41.0	d		
		i	46.8	c		
		e	39 53.1	d		
May 24	B	eP	08 27 03.7	d		USCGS: 15°N, 145°E, 0 = 08 14 40, h = 60 Km. Marianas Islands.
	MH	eP	05.5	c		
		i	24.0	c		
	F	eP	14.4	d		
	R	eP	11.2	d		
	S	iP	26 59.5	c		
		e	27 16.6	c		
May 24	MH	iP	16 51 34.9	c		
	F	eP	30.4	d		
May 25	MH	iP	00 37 05.0	c		
		i	13.8	d		
		i	27.3			
	S	eP	13.3	c		
May 25	S	e	01 35 56.8	c		
May 26	MH	ip	01 52 40.2	c	USCGS: 51½°N, 159½°E, 0 = 01 43 03. Off East Coast of Kamchatka.	
		i	53 03.6	d		
	F	eP	52 51.0	c		
	R	iP	38.4	c		
	S	eP	20.5			
		e	10 10 45.5	d		
May 26	B	e	10 10 45.5	d	USCGS: 0 = 09 57 55. Kermadec Islands.	
	MH	eP	36.1	d		
		i	46.4	c		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 26	F	i eP	11 00.9 10 25.0	d d	
May 26	MH	eP iP i eP	19 07 39.6 50.6 54.5 17.4	c c c c	USCGS: 48 $\frac{1}{2}$ °N, 156°E, 0 = 18 57 30. Kurile Islands.
May 27	M	iP eP	07 02 27.5 24.3	d c	USCGS: 32°N, 131 $\frac{1}{2}$ °E, 0 - 06 50 09. Near East Coast of Kyashu, Japan.
May 28	MH	iP	08 07 04.8	c	USCGS: 0 = 08 01 00. Off Coast of Guerrero, Mexico.
	F	eP	06 49.4	c	
	M	eP	07 22.0	d	
	R	e	08 07.9		
May 28	B	eP	10 16 01.9	d	
	MH	eP	15 52.5	c	
	M	eP	16 03.0	c	
	R	eP	15 51.7	d	
May 28	B	iP	13 34 39.4		
	MH	iP	40.9	d	
	F	iP	35 14.3	c	
	M	eP	34 43.2	d	
		i	48.4	d	
		i	53.4		
	R	iP	35 13.2		
		iP	34 46.8	d	
		i	35 37.1		
	S	iP	34 47.5	d	
		i	35 07.6		
May 29	B	iP	05 48 21.5	c	USCGS: 18°S, 178°W, 0 = 05 37 21, h = 550 Km. Fiji Islands.
		ipP	50 22.8	d	
	BG	iP	48 21.7	e	
		ipP	50 23.5	d	
		eSN	57 27		
	MH	iP	48 22.6	c	
		ipP	50 23.9	d	
	F	iP	48 27.1	c	
		ipP	50 28.9	d	
	M	eP	48 30.2	c	
		ipP	50 32.4	d	
	R	iP	48 35.0	c	
		ipP	50 37.0	d	
	C	iSE	58 02.3		
		iP	48 40		
		epP	50 43		
	S	iP	48 29.5	c	
		ipP	50 31.4	d	
May 29	B	eP	12 22 59.1	d	USCGS: 12°S, 68°W, 0 = 12 11 37. Northern Bolivia
	MH	eP	54.4	d	
	F	eP	45.1	d	

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
May 29	R		56.7	d	
	S		23 07.0	c	
May 29	B	iP	15 10 10.7	d	USCGS: 35°S, 69°W, 0 = 14 57 18. Mendoza Province, Argentina.
	MH	iP	07.1	d	
	M	eP	16.0	d	
	R	iP	10.6	d	
	S	iP	19.3	d	
May 29	MH	eP	22 33 19.4	d	USCGS: 0 = 22 21 00. Kermadec Islands.
	F	eP	25.3	c	
	M	eP	32.2	d	
	R	eP	35.4	d	
	S	iP	31.7	d	
May 30	MH	i	04 51 59.0		USCGS: 11°S, 78°W, 0 = 04 41 00. Near Coast of Peru.
	M	eP	48.9	c	
	R	eP	47.6	d	
	S	e	59.0		
May 31	MH	eP	08 08 14.8		Pasadena: 31.6°N, 115.2°W, 0 = 08 06.4. Lower California. Pas. Magnitude: 5.2.
	F	eP	07 57.8		
	M	eP	09 09.6		
	R	e	09 20		
	S	e	11 52		
May 31	B	iP	16 07 28.5	c	USCGS: 7°S, 119°E, 0 = 15 48 33. Flores Sea.
	BG	eSE	18 22.2		
		eNE	23 34		
	MH	eP	07 26.3	c	Pasadena Magnitude: 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$.
	F	eP	31.8	c	
	M	eP	26.9	d	
	R	eP	27.9	d	
	S	eP	23.8	c	
June 1	S	i	00 15 35.3	c	
June 1	MH	iP	18 33 11.1		
	F	eP	24.1		
	R	eP	35.6		
	S	eP	29.6		
June 1	B	iP	20 43 29.4	c	USCGS: 12°S, 74°W, 0 = 20 32 38. Central Peru.
	MH	iP	29.1	c	
	F	iP	18.3		
	M	eP	38.6	c	
	R	iP	43 36.1	c	
	S	iP	52.7	c	
June 2	MH	iP	10 33 21.4		
	M	eP	31.5		
June 3	S	i	05 57 56.2		
June 4	MH	eP	00 55 58.9		USCGS: 45°N, 148°E, 0 = 00 45 18. Kurile Islands.
	S	iP	43.7	d	
June 4	B	iP	06 59 21.1	c	USCGS: $\frac{1}{2}$ °S, 91 $\frac{1}{2}$ °W, 0 = 06 50 42. Galapagos Islands, Pasadena Magnitude: 6-3/4.
		ePcP	07 00 49.8	d	
	BG	iP	06 59 21.2	c	
		ePcP	07 00 49.2		
		ePP	01 27.4		
		iSN	06 22.6		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks		
1954			h. m. s.				
June 4	MH	iN	10 21.0				
		eP	06 59 13.5	c			
		i	15.5	c			
		i	07 00 49.9				
		eP	06 59 02.3				
	F M R C S	eP	31.0	c			
		iP	20.1				
		iP	07 00 02				
		iP	06 59 34.5	c			
		i	07 00 57.6	d			
June 4	MH	eP	07 32 42.8	c			
		i	47.7				
June 4	MH	eP	11 00 42.8	c			
		iP	12.0				
June 4	B	eP	16 05 14.8		USCGS: 0 = 16 01 45. Central Gulf of California.		
		i	26.5				
	BG MH	iLE	08 10.4				
		iP	05 06.1	c			
	F M R	i	15.4				
		eP	04 46.5				
	eP	05 39.0	d				
	eP	18.6	d				
	iS	09 41.7					
	eL	09.9					
June 4	S	eP	05 44.4	d	USCGS: 0 = 16 56 46. Kermadec Islands.		
		eP	17 09 27.8	d			
	e	41.4	d				
	e	51.3	d				
	M	iP	27.7	d			
			10 00.8	d			
	F	iP	09 31.2	c			
		iP	37.7	c			
	June 4	S	iP	36.4		d	USCGS: 0 = 20 42 25. Gulf of California
			eP	20 46 10.0			
BG		iE	49 09.6				
		iP	46 01.0				
F		eP	45 37.1				
		eP	46 29.4				
R		eP	13.7				
		eP	30.9				
June 5		B	eP	01 54 09.8		USCGS: 18°N, 102½°W, 0 = 01 48 20. Near Coast of Guerrero, Mexico. Felt.	
			iP	02.3			
	F	eP	53 48.8				
June 5	B		54 24.6				
			54 08.5				
June 5	MH M	iP	04 43 08.8		USCGS: 0 = 04 30 59, h = 100 Km. Jujuy Province, Argentina.		
		iP	04.7	d			
		eP	13.8	d			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks	
1954			h. m. s.			
June 5	B MH M	eP	04 57 18.9		USCGS: 36°N, 139½°E, 0 = 13 14 24, h = 60 Km. Central Honshu, Japan. Felt.	
		iP	22.7			
			58 17.9			
June 5	B	iP	13 26 00.1	d		
		e	13.0	c		
	MH	iP	04.1	d		
		ipP	41.3	c		
	M	eP	25 44.0	c		
June 5	R	i	58.4	c		
		eP	26 04.0	c		
	MH	eP	21 05 44.3	c		
		i	06 17.1	c		
	M	eP	05 48.4	c		
June 5	C	eP	22 08 16			
June 6	B	iP	17 04 33.5	d	USCGS: 3½°S, 136½°E, 0 = 16 50 33. Western New Guinea.	
		i	53.2	d		
	BG MH	ePP	08 21.7			
		eE	12 12.0			
	F	eP	04 34.9	c		
		i	40.6			
	M	i	05 00.8			
		ePP	08 47.0			
	S	eP	04 44.2	d		
		ePP	08 55.4			
June 6	M	eP	04 32.4	d	USCGS: 32°N, 140°E, 0 = 21 58 37. Off South Coast of Honshu, Japan.	
		e	08 33.2			
	R	eP	04 43.6	c		
		i	08 28.8			
	C	eP	04 33			
		e	39 18			
	S	eP	17 04 29.6	c		
		i	08 47.3	c		
	June 7	B	eP	17 21 09.0		c
			iP	22 10 29.6		c
June 7	MH	iP	33.4	c	USCGS: 3½°S, 152½°E, 0 = 10 15 33, h = 450 Km. New Britain Region. Pasadena Magnitude: 6-3/4.	
		i	11 06.1			
	F	eP	10 42.6	c		
		eP	24.2	c		
	R	iP	33.6	d		
		iP	21.1	c		
	S	i	47.9			
		iP	10 27 45.0	c		
	BG	ipP	29 29.7			
		i(PP)	30 59.7			
MH	eSKSE	37 34.3				
	iSN	49.7				
F	iSSN	43 57.1				
	eP	27 45.5	c			
F	i	29 35.8				
	eP	27 52.2	c			
	e	29 47.5				
		eSN	38 09			

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 7	M	eP	27 46.4	c	
		epP	29 28.5		
	R	iP	27 49.2	c	
		eS	38 10.3		
	C	eP	27 43		
		ipP	29 24		
	S	iP	27 44.2	c	
		ipP	29 28.2		
		eSKSE	37 33.4		
		eSE	50.8		
		eSN	52.3		
June 8	MH	iP	17 03 27.3		
		i	44.9		
	M	eP	04.6		
		i	17.3		
	S	iP	02 59.5		
June 8	M	eP	20 57 57.4		
June 9	MH	iP	04 29 45.2	c	
		i	30 06.2	c	
	M	eP	29 51.8	c	
		e	30 02.1	c	
	S		29 50.8	c	
June 9	M	eP	10 16 27.3	d	USCGS: 18 $\frac{1}{2}$ °N, 121 $\frac{1}{2}$ °E, O = 10 02 51. Near North Coast of Luzon, Philippine Islands.
		e	41.8		
June 9	MH	iP	11 05 09.4	d	USCGS: 20 $\frac{1}{2}$ °S, 178 $\frac{1}{2}$ °W, O = 10 54 03, h = 600 Km. Fiji Islands.
	F	eP	14.2	d	
	M	iP	19.0		
	S	iP	17.6	d	
June 9	MH	eP	21 33 15.7	c	
		i	34 24.3	d	
	F	eP	33 22.7	c	
	M	e	32.0	c	
	S	iP	33 18.0	c	
		e	34 31.0	d	
June 9	MH	iP	22 49 07.0	d	
	F	e(P)	16.3	d	
	S	e(P)	15.1	c	
June 10	MH	iP	03 11 47.0	c	USCGS: O = 02 59 08, New Hebrides Islands.
	F	eP	51.8	c	
	M	eP	53.0	c	
	R	iP	58.2	c	
	S	iP	51.8	c	
June 10	MH	iP	04 50 28.2	d	USCGS: 33 $\frac{1}{2}$ °N, 38°W, O = 04 39 38. North Atlantic Ocean
		e	52 09.2	d	
	M	eP	50 18.7		
		i	31.3	c	
	S	eP	20.6	d	
June 10	M	iP	14 48 49.1		
	S	eP	45.9		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 10	B	iP	18 47 41.6	c	USCGS: 19°S, 179°W, O = 18 36 49, h = 750 Km., Fiji Islands.
		ipP	50 32.2	d	
	MH	iP	47 42.1	c	
		ipP	50 32.5	d	
	F	iP	47 46.9	c	
		epP	50 26.6	d	
	M	eP	47 50.5	c	
		ipP	50 39.0	c	
	R	iP	47 54.9	c	
		ipP	50 45.4	d	
		eSN	57 12.7		
		eSE	16.2		
	C	eP	48 00		
		epP	50 50		
	S	iP	47 49.6	c	
		ipP	50 40.6	d	
		e(S)N	57 01.2		
June 10	B	iP	22 49 18.4	c	USCGS: 29 $\frac{1}{2}$ °N, 139 $\frac{1}{2}$ °E, O = 22 37 56, h = 400 Km., South of Honshu, Japan
		epP	50 50.6		
	MH	iP	22 49 22.4	c	
		epP	50 53.2	d	
	F	iP	49 30.0	c	
		epP	50 57.9		
	M	eP	49 13.8	d	
	R	iP	49 33.5	c	
		eSE	58 59.4		
	C	eP	48 58		
	S	iP	49 10.5	c	
June 10	M	eP	23 44 03.4	d	USCGS: 71 $\frac{1}{2}$ °N, 8°W, O = 23 34 00. Jan Mayen Island.
June 11	MH	iP	13 36 54.7		
	M	iP	37 05.1		
	S		37 03.3		
June 11	MH	eP	14 09 14.7		
		e	11 21.1		
	M	eP	09 10.8		
	S	iP	07.7		
June 11	B	eP	17 04 15.4		USCGS: 52°N, 172 $\frac{1}{2}$ °E, O = 16 55 45, h = 60 Km., Near Islands, Aleutian Islands.
	MH	iP	20.5	c	
	F	eP	42.4		
	M	eP	07.0		
	R	e(P)	23.0		
	C	eP	03 39		
	S	iP	04 00.4	c	
June 12	C	eP	00 43 27		
June 12	MH	iP	04 42 21.1		
			30.2		
	M		28.6		
June 12	B	iP	05 46 13.2	c	USCGS: 18°S, 179°W, O = 05 35 13, h = 550 Km. Fiji Islands.
		ipP	48 13.9		
		e	49 22.4		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 12	BG	ePN	46 13.9		
		eSN	55 15.5		
		eN	38.5		
	MH	iP	46 14.2	c	
		ipP	48 16.3	d	
	F	iP	46 19.0	c	
		ipP	48 21.9	d	
		eSE	55 25.9		
	M	eP	46 22.6	c	
	R	iP	46 26.1	c	
		ipP	48 30.1	d	
		eSE	55 42.3		
	S	iP	46 21.4	c	
		iSN	55 31.6		
June 13	MH	iP	01 14 05.8		
	M	eP	10.6		
	S	i	39.8		
June 13	MH	iP	17 09 51.5	d	USCGS: 22°S, 171°E, O = 16 57 14, h = 100 Km., Loyalty Islands.
		e	10 11.2		
	F	eP	09 58.3	c	
		e	10 27.0		
	R	eP	10 21.5		
		i	47.0		
	S	eP	09 57.3	d	
June 13	MH	iP	17 41 03.7	d	
	S	eP	06.7	d	
June 14	M	iP	00 34 03.0	d	
		e	47.4		
June 14	M	eP	06 57 32.2	d	USCGS: 17°S, 174°W, O = 06 45 50. Tonga Islands.
	S	iP	30.7	c	
June 14	M	eP	10 17 02.5	d	
	R	eP	16 57.4		
June 14	MH	eP	14 18 30.9	c	USCGS: 19°N, 145°E O = 14 06 08. Marianas Islands.
	M	eP	21.4	c	
	S	eP	17.8	c	
June 14	B	iP'	16 37 48.4		USCGS: O = 16 18 45. Sandwich Islands.
	MH	eP'	46.9		
	M	eP'	50.7		
	R	eP'	49.2		
	S	eP'	51.0		
June 15	MH	iP	06 51 54.4	c	
		i	52 09.3	c	
	M	eP	51 50.1	c	
		e	52 09.0	c	
June 15	B	iP	13 40 00.3	c	USCGS: 5°S, 77°W, O = 13 29 59, h = 100 Km., Northern Peru.
		ipP	27.0		
	BG	iSN	48 10.9		
		iScSN	49 32.5		
	MH	iP	39 55.6	d	Berkeley Magnitude: 6 $\frac{1}{2}$ - 6-3/4.
		ipP	40 21.1		Pasadena Magnitude: 6-3/4 - 7.
	F	iP	39 44.4	c	
		ipP	40 14.2		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 15	R	iP	39 57.3		
	C	eP	40 28		
		i	41 30		
	S	eP	40 09.3	c	
		epP	37.6		
June 15	MH	eP	14 09 22.0		
	M	eP	13.0		
	R	eP	34.6		
	S	eP	06.2		
June 15	C	eP	19 48 07		
June 16	M	eP	17 19 22.7	c	
	S	eP	21.7	c	
June 17	B	iP	01 48 18.7	d	USCGS: 56°N, 154 $\frac{1}{2}$ °W, O = 01 42 22. Off South Coast of Kodiak Island.
	BG	iP	18.8		
		eSE	53 00.4		
		eScSE	58 10.6		
	PA	eP	48 21.9	d	
	F	iP	37.4	d	
	M	iP	04.2	d	
	A	eP	47 52		
	R	iP	48 17.6	d	
	C	iP	47 28.5		
		eS	51 37		
	S	iP	47 58.7	d	
		eSE	52 43.4		
		eLN	55.5		
June 17	M	eP	18 44 44.1		USCGS: O = 18 39 03. Kodiak Island Aftershock.
June 17	S	iP	21 22 19.5		
June 18	M	eP	02 07 25.8	c	USCGS: 56°N, 154°W, O = 02 01 46. Kodiak Island Aftershock.
	S	eP	19.5	c	
June 18	MH	iP'	18 13 49.5	d	USCGS: O = 17 54 40. Sunda Strait. Felt at Djakarta.
		i	14 18.2		
	M	eP'	13 46.1	d	
	R	iP'	49.1	d	
	S	iP'	44.7	d	
		ePP	15 31.4		
June 19	B	eP	02 09 02.4		USCGS: 30 $\frac{1}{2}$ °N, 130°E O = 01 56 30. Off South Coast of Kyushu, Japan.
	MH	iP	05.8	d	
	F	iP	21.6		
	M	eP	08 55.3	d	
	R	eP	09 06.3	d	
		e(S)	19 49.3		
	S	eP	08 53.8	d	
June 19	MH	eP	03 35 44.3	d	USCGS: O = 03 15 50, Near Coast of Northern Mozambique.
	M	eP	37.6	c	
	R	iP	38.8	d	
	S	eP	30.4	c	
June 19	S	e	13 02 09.8	c	
		e	21.0	d	

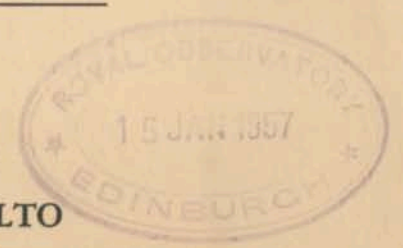
Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 19	B	iP	19 41 30.4		
	MH	iP	30.4		
	M	iP	39.9		
	S	iP	38.2		
June 19	B	eP	22 12 32.2		USCGS: 27 $\frac{1}{2}$ °N, 112°W, O = 22 09 15. Gulf of California.
		e	13 06.7		
	BG	e	16.4		
	MH	eP	12 21.0	d	
	F	eP	03.8		
	M	iP	55.3	d	
	R	eP	35.9		
	S	eP	13 02.3		
June 20	MH	iP	05 34 03.1	c	
		i	20.9		
	M	eP	12.3		
		e	32.5		
June 20	C	eP	19 21 18		
June 21	B	iP	02 00 36.2		USCGS: 23°S, 68 $\frac{1}{2}$ °W, O = 01 48 44, h = 150 Km., Northern Chile.
		ipP	01 05.7		
	BG	eSNiE	10 27.3		
		esSN	11 17.1		
		eE	23.1		
	MH	iP	00 32.7	d	
		ipP	01 02.7	c	
		ePP	04 06.4		
	F	eP	00 23.2	d	
		ipP	01 52.4	c	
	M	iP	00 37.6	d	
	R	iP	35.8	d	
		ipP	01 05.8		
		iSE	10 27.7		
	C	iP	01 02		
		ipP	32		
	S	iP	00 44.9	d	
		ipP	01 14.6	c	
June 21	R	ePPP	02 25 30.5		USCGS: 6°S, 129°E O = 02 06 53. Banda Sea.
	S	e	25.6		
June 21	M	eP	09 08 30.8	d	USCGS: 1 $\frac{1}{2}$ °N, 84°W, O = 08 59 20. Pacific Ocean West of Ecuador.
June 21	MH	iP	14 33 56.2	c	USCGS: 55°N, 162 $\frac{1}{2}$ °E, O = 14 24 46. Near East Coast of Kamchatka.
		ipP	34 16.1		
	R	eP	33 55.0	c	
	S	eP	37.2		
June 21	MH	e	18 17 30.7	c	
June 22	B	eP	09 30 59.4	c	USCGS: O = 09 18 32, h = 60 Km., Kermadec Islands Region.
	MH	eP	58.6	c	
	F	e	31 01.9		
	M	eP	08.0		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 22	S	eP	07.3		
June 22	M	eP	19 13 44.2	d	
		i	14 01.6		
		e	51.6		
June 22	M	eP	20 00 50.3	c	
June 24	B	iP	08 10 07.9	c	USCGS: 18 $\frac{1}{2}$ °N, 145 $\frac{1}{2}$ °E, O = 07 58 12, h = 200 Km., Marianas Islands.
		i	11 02.3		
	MH	iP	10 11.1	c	
	F	iP	18.4	d	
	M	iP	07.1	d	
	R	iP	15.0	d	
	C	eP	09 54		
	S	iP	10 02.5	d	
June 25	F	eP	05 30 52.0		USCGS: 73 $\frac{1}{2}$ °N, 8°E, O = 05 20 11. Arctic Ocean.
	M	eP	29.2		
June 25	B	eP	23 34 38.4	c	
	MH	iP	41.9	c	
	F	eP	49.9	c	
	M	eP	33.8	c	
June 26	M	e	00 23 53.9	d	
June 26	C	eP	03 13 13		
June 26	M	e	10 48 32.4	d	
June 26	B	iP	12 02 54.0	c	
	MH	iP	57.5	c	
	M	eP	32.6		
	S	eP	28.2		
June 28	B	i	05 19 44.0		USCGS: Near 49°S, 142°W, O = 04 57 48. Antarctic Ocean.
	BG	eN	20 51.1		
	F	e	11 26.4		
	M	e	19.4		
June 28	M	e	21 48 43.0		USCGS: O = 21 31 45, South Central Tibet.
June 28	MH	iP	23 33 05.4	c	USCGS: 0°, 91 $\frac{1}{2}$ °W, O = 23 24 34. Galapagos Islands.
	M	eP	39.6	c	
	R		10.6	c	
June 29	B	iP	01 22 37.2	c	USCGS: 17°S, 67 $\frac{1}{2}$ °W, O = 01 10 50. West Central Bolivia.
	F	eP	22.7	c	
	M	iP	41.9	d	
	R	eP	34.9	c	
	S	iP	42.9	c	
June 30	MH	eP'	13 46 14.6		USCGS: O = 13 26 50, Southwestern Ethiopia.
	M	eP'	04.9		
	R	eP'	09.1		
	S	eP'	12.3		
June 30	MH	iP	15 15 08.4	c	USCGS: 51 $\frac{1}{2}$ °N, 158°E O = 15 05 26. Near Southeast Coast of Kamchatka.
		i	16 07.7	d	
	S	iP	14 48.7	c	
June 30	MH	eP	15 22 28.4	d	USCGS: 24°N, 109°W, O = 15 18 20. Gulf of California.
		eS	24 47.8		
	F	eP	22 08.1		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
June 30	M	eP	56.1	c	
		i	23 25.7		
	R	eP	22 38.8	c	
		eN	23 11.1		
		eE	54.9		
	S	eP	22 57.8		

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Volume 24, No. 3, pp. 93-148



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

Earthquakes and the Registration of Earthquakes

From July 1, 1954, to September 30, 1954

BY
W. G. MILNE

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
1956

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, FERNDAL, FRESNO, MINERAL, ARCATA,
RENO, CORVALLIS AND SHASTA

JULY 1, 1954 TO SEPTEMBER 30, 1954

VOLUME 24 NUMBER 3

By W. G. Milne

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UNIVERSITY OF CALIFORNIA PRESS

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The list following this page gives the latitude and longitude of epicenters for earthquakes well enough recorded to permit such a determination.

Map No. refers to the map immediately following the epicenter list.

Date and Origin Time are given in Greenwich Civil Time. Subtract eight (8) hours to get Pacific Standard Time. This will change the date for some of the earthquakes.

M refers to the Richter Magnitude, determined from trace amplitudes of the Wood-Anderson Seismographs, and using the nomogram given by Nordquist in the "Bulletin of the Seismological Society of America," 32:164.

Q represents the excellence with which the epicenter has been located, "a" indicating excellent, "b" good, "c" fair, and "d" poor.

Under Remarks will be found a short descriptive location of the epicenter, as well as information on small foreshocks and aftershocks, and the intensity of shocks which were reported felt. Reports on felt earthquakes are chiefly those collected by the United States Coast and Geodetic Survey, which publishes a more complete summary of such reports in "Abstracts of Earthquake Reports for the Pacific Coast and the Western Mountain Region." Intensities are given by Roman numerals 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:

- 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.
- VIII General fall of chimneys; great damage to poorly built structures. Sand and mud ejected in small amounts.
- IX Damage considerable in specially designed structures, great in substantial buildings with partial collapse. Ground cracked conspicuously.

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MADE IN THE UNITED STATES OF AMERICA

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
1	July 1	14-39-48	2.0	40.8°	124.5°	c	22 miles southeast of Arcata.
2	2	10-43-13	4.9	38° 10'	116° 22'	b	45 miles east of Tonopah, Nevada.
3	2	21-01-46	3.8	40° 45'	124° 59'	d	40 miles west of Ferndale.
4	4	02-44-22	4	38°	115.5°	d	East of Tonopah, Nevada.
5	5	07-25-39	3.2	36.2°	121.8°	d	30 miles south of Monterey.
6	5	19-18-52	3.6	40° 26'	124° 16'	c	10 miles south of Ferndale. Felt slightly in Eureka and Ferndale.
7	6	11-13-20	6.8	39° 25'	118° 32'	a	Near Fallon, Nevada. Felt over an area of approximately 130,000 square miles of Nevada, California, Oregon and Utah. Maximum intensity of IX assigned to the ground fracture area on the east edge of Rainbow Mountain in the Stillwater Range about 15 miles south-east of Fallon. VIII at Fallon, Stillwater, and Salt Wells, Nevada. A list of the larger aftershocks appears on the pages following this section.
8	6	22-07-41	6.0	39.3°	118.5°	a	Near #7 above. Felt at Fallon.
9	8	06-39-12	3.1	36° 32'	121° 29'	b	30 miles south of Hollister.
10	10	15-07-35	1.7	37° 25'	121° 42'	c	6 miles northwest of Mt. Hamilton.
11	11	03-25-24	4.0	40° 22'	125° 16'	b	55 miles southwest of Ferndale.
12	17	18-55-12	4.2	41° 18'	123° 34'	b	38 miles northeast of Arcata. V at Cecilville.
13	17	22-02-42	4.3	38.2°	116.4°	b	45 miles east of Tonopah.
14	29	07-09-42	2.7	37° 54'	121° 59'	a	15 miles east of Berkeley. Felt in Walnut Creek.
15	29	08-51-36	4.2	37° 25'	121° 20'	b	17 miles northeast of Mt. Hamilton. Felt at Hollister.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
16	Aug. 10	01-38-01	2.3	36° 50'	121° 29'	d	8 miles southwest of Hollister.
17	10	13-24-42	3.1	37° 57'	121° 59'	b	18 miles northeast of Berkeley. Felt in Walnut Creek.
18	12	12-50-06	3.9	36° 54'	121° 39'	b	18 miles northwest of Hollister. VI at Logan. V at Hollister.
19	19	21-46-32	3.2	39° 27'	123° 29'	c	6 miles northwest of Willits. III at Comptche.
20	20	08-00-45	4.4	37° 40'	118° 40'	c	20 miles northwest of Bishop.
21	21	04-55-06	2.1	37° 57'	122° 19'	c	6 miles northwest of Berkeley. Felt in El Cerrito, Berkeley.
22	21	22-50-49	3.3	36° 28'	121° 20'	b	40 miles south of Hollister.
23	22	13-37-22	3.3	38.6°	119.4°	d	East of Markleeville. III at Markleeville.
24	24	05-51-32	6.8	39° 35'	118° 27'	a	Near Fallon, Nevada. Felt over an area of approximately 150,000 square miles of Nevada, California, Oregon, Idaho, and Utah. Maximum intensity of IX assigned to the ground fracture area about 15 miles east of Fallon. VIII at Fallon, Lovelock, Stillwater, and Upsal Hogback. A list of the larger aftershocks appears on the pages following this section.
25	26	09-25-30	2.7	36° 53'	121° 38'	b	15 miles northwest of Hollister.
25	26	09-28-49	2.7	36° 53'	121° 38'	b	15 miles northwest of Hollister.
26	28	19-40-50	1.7	38° 02'	122° 31'	b	18 miles northwest of Berkeley.
27	Sept. 4	18-33-40	3.1	37° 46'	121° 57'	b	20 miles southeast of Berkeley.
28	16	04-51-04	2.5	37° 18'	120° 01'	b	25 miles east of Merced. VI at Coarsegold (Madera County).
29	22	06-58-43	3.5	40.1°	125.8°	c	110 miles southwest of Arcata.
30	Sept. 22	07-01-55	4.1	37° 40'	118° 40'	c	35 miles northwest of Bishop.
31	22	21-53-08	3.5	37° 29'	118° 57'	c	30 miles northwest of Bishop.
32	25	15-51-55	2.8	37° 26'	121° 45'	a	8 miles northwest of Mt. Hamilton.

NEVADA EARTHQUAKE SERIES

Following the two strong earthquakes in the vicinity of Fallon, Nevada on July 6 and August 24, there were many aftershocks, of which the following is a partial list. These are the earthquakes partially identified as originating in this particular region of Nevada. The origin time is obtained by subtracting a constant time from the arrival time of P at Reno. All are assumed to have the same epicenter although some spread of epicenters would seem likely.

Latitude Coordinates of Original Epicenters:

July 6 Latitude 39° 25' N. August 24 39° 35' N.
 Longitude 118° 32' W. 118° 27' W.

Date 1954	Origin Time (G.C.T.)	M	Remarks
July 6	11-13-20	6.8	Original earthquake. Felt over 130,000 square miles. VIII at Fallon.
6	11-27	4.8	
6	11-41	4.5	
6	11-49-00	5.7	Felt at Fallon.
6	12-54-00	4.5	
6	12-56-30	4.9	
6	13-15-11	5.2	
6	13-36-01	4.5	
6	14-55-15	4.5	
6	15-51-21	4.4	
6	17-38-25	4.2	
6	17-57-37	4.1	This was followed in a few seconds by one of magnitude 4.3.
6	18-42-03	4.2	
6	22-07-41	6.0	Felt at Fallon and as far distant as Oakland, Calif. 39.3° N, 118.5° W.
6	22-53	4.1	
6	23-11-18	4.1	

Date 1954	Origin Time (G.C.T.)	M	Remarks
July 6	23-57-07	4.1	
7	00-22-58	4.4	
7	01-29-51	4.1	
7	02-22-45	4.1	
7	04-33-53	4.1	
7	06-11-08	4.6	
7	10-31-32	4.1	
7	10-52-48	4.4	
7	12-40-53	4.2	
7	16-02-24	4.2	
7	18-00-55	4.3	
7	21-47-47	4.1	
7	23-50-45	4.3	
8	02-13-55	4.8	
8	04-08-19	4.5	
8	06-58-36	4.3	
8	12-55-10	4.7	Felt in Stillwater area, Nevada.
8	19-31-57	5.3	Felt at Fallon.
9	08-50-03	4.9	Felt at Fallon.
10	01-22-20	4.6	
11	00-18-02		
11	07-04-00	4.6	
11	09-58-12	4.6	
12	10-17-06	4.5	
12	16-05-25	4.6	Felt at Fernley, Nevada.
14	01-57-12	3.9	
15	01-31-34	3.9	

Date 1954	Origin Time (G.C.T.)	M	Remarks
July 16	11-55-20	4.0	
17	00-02-16	4.2	
17	01-53-11	4.4	
20	01-41-55	4.1	
20	12-13-22	3.9	
20	15-28-12	4.1	
20	17-56-04		
23	06-33-35	3.9	
23	20-41-58	3.6	
26	13-16-28	3.9	
28	03-56-38	3.6	Two shocks.
28	03-58-03	3.7	
28	23-17-16	4.0	
30	02-00-10	5.1	Felt near Fallon
31	13-54-35	4.3	
31	17-24-14	4.5	
31	17-31-16	4.3	
Aug. 2	10-18-53	5.4	V at Fallon.
3	21-24-54	4.7	
5	05-03-08	4.7	
6	15-41-16	4.2	
9	14-28-34		
10	06-23-10		
10	23-00-41		
10	23-04-22		
16	06-29-42	4.1	
22	10-50-08		

Date 1954	Origin Time (G.C.T.)	M	Remarks
Aug. 24	05-51-32	6.8	Second major Fallon earthquake. Felt over 160,000 square miles. Maximum intensity VIII at Fallon.
24	06-14-50	4.1	
24	06-32-31	4.4	
24	06-36-02	4.4	
24	06-54-10	4.3	
24	14-47-18	4.0	
24	21-20-53	4.4	
25	02-17-13	4.8	
25	02-49-59		
25	12-12-35		
25	22-21-10	4.7	
26	12-44-15	4.2	
26	12-56-15	4.6	
27	07-05-03	4.0	
28	04-51-34	4.0	
29	03-09-51	4.2	
29	03-41-06	4.7	
29	03-58-05	4.8	
30	11-15-58	4.1	
30	19-11-57	4.1	
30	19-57-19	4.1	
31	13-29-02	3.9	
31	13-34-07	4.0	
31	22-19-29	4.4	
31	22-20-32	5.8	Felt near Fallon. VII in Stillwater. 39.6° N, 118.2° W.

Date 1954	Origin Time (G.C.T.)	M	Remarks
Sept. 1	05-18-46	5.5	Felt near Fallon. 39.6° N, 118.2° W.
1	11-29-25	4.3	
2	07-53-17	3.9	
4	04-24-22	4.0	
5	20-15-59	4.4	
8	07-17-30	4.3	Felt near Fallon.
9	09-21-05	4.7	
9	22-31-38	4.4	
14	16-19-02		
23	08-12-19	3.8	

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
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° 34.6'	124° 15.7'	15	50	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 20.8	121° 36.1'	1195	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:

- 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:

- 2 - Horizontal-component Wood-Anderson torsion.

Reno:

- 3 - Components short-period Sprengnether.

Corvallis:

- 3 - Components short-period Slichter.

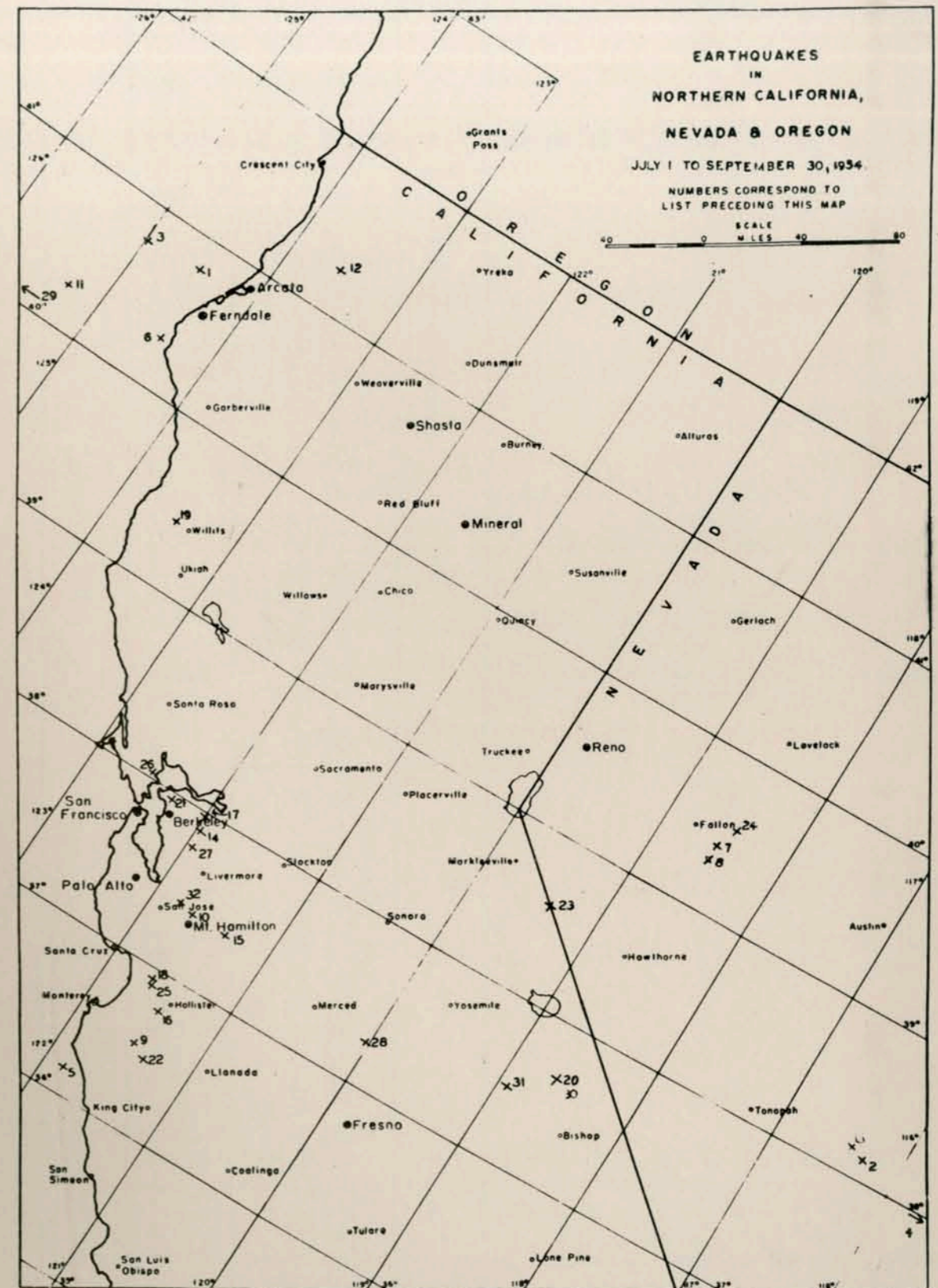
Shasta:

- 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
1954			h. m. s.		
July 1	M	ePZ	00 21 57.5	d	
		eZ	23 17.2	c	
July 1	MH	iZ	03 24 54.5	d	USCGS: 52°N, 159½° E
		iZ	25 10.1		0 = 03 15 16
		iZ	26 00.1		Off east coast of Kamchatka
	F	eZ	03 25 07.2	c	
	M	eZ	03 24 36.4	c	
		eZ	24 41.3	d	
	R	Z	03 24 55.0	d	
	SH	iZ	03 24 31.7	c	
		iZ	24 36.7	c	
		iZ	24 48.6	d	
July 1	MH	eZ	05 37 10.1	d	
		iZ	37 47.3	d	
	M	eZ	05 37 13.5	c	
	S	iZ	05 37 10.9		
July 1	M	iPnZ	14 40 24.9		Berkeley: 40°8N, 124°5W.
		eS	40 52.4		0 = 14 39 48, M = 2.9
	A	iPE	14 39 57.6		22 miles southwest of Arcata.
		iS	40 01.7		
July 2	Fe	eS	14 40 03.4		
	B	ePZ	02 58 55.		USCGS: 13½°N, 123½°E,
		ePPZ	03 02 59.		0 = 02 45 09
		eSKSE	09 29.		Southeastern Luzon, Philippine Islands
		ePSZ	11 39		Pas.: Magnitude 6-3/4.
		eSS	17.5		
	MH	eZ	02 59 00.6		
		eZ	03 03 05		
	F	eZ	02 59 10		
	M	ePZ	02 58 51.6	c	
		eZ	03 02 03.3		
		eZ	02 59.7		
	R	ePZ	02 59 00.8		
		eZ	03 03 10		
	SH	ePZ	02 58 50.4	d	
		iZ	59 31.3		
		PP	03 02 51		
		SKS	09 25		
		PS	11 46		
		e	12 48		
	C	e	03 02 38		
		e	09 14		
July 2	M	eZ	09 16 34		USCGS: 5°S, 77°W. 0 = 09 06 19
	P	eZ	09 16 31		Northern Peru.
July 2	B	ePZ	10 44 25.9	c	Berkeley: 38°10'N, 116°22'W,
		eZ	44 34.6		0 = 10 43 13, Berk.Mag. 5¼
		iZ	45 34.8		45 miles east of Tonopah, Nevada.
		eSNE	45 40.1		
		eN	45 45.2		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 2	MH	ePZ	10 44 19.4		
		iZ	44 21.0		
		iZ	44 28.2		
		eE	45 23.7		
	PA	iEN	45 26.0		
		ePZ	10 44 25.2		
	SF	eS	45 39.8		
		eE	10 44 38.8		
	M	eE	45 40.0		
		iPZ	10 44 23.4	c	
		eN	44 40.4		
	Fe	eN	45 36.7		
		ePZ	10 44 02.3		
		iE	44 13.5		
R	iNE	44 47.6			
	iPZ	10 44 00.5	c		
	iNZ	44 09.5			
C	iSE	44 53.0			
	e	10 45 17			
SH	ePZ	10 44 32.8	c		
	iNE	46 05.8			
July 2	B	ePZ	21 02 41		Berkeley: 40°45'N, 124° 59'W, Mag. 3.8 0 = 21 01 46 40 miles west of Ferndale.
		eSZ	03 23		
	MH	iPZ	21 02 51.7	c	
	M	iPZ	21 02 27.1		
		iE	02 32.6		
		iSE	02 57.5		
	R	ePZ	21 02 49.9		
	A	iPN	21 01 59.4		
		iSN	02 07.3		
	Fe	iS	21 02 08		
July 3	SH	eP	21 02 50		
	MH	iPZ	21 02 18.3	c	
	M	iPZ	16 03 32.3	c	
July 3	R	iPZ	16 03 37.9	d	
	SH	eZ	16 03 42.7		
July 3	SH	iZ	16 03 35.7	c	
	SH	eZ	21 28 29.5		
July 3	MH	eTZ	22 34 17		USCGS: 18°N, 121½°E; 0 = 21 14 56, Near northeast coast of Luzon, Philippine Is T phase from Hawaiian earthquake.
July 3	B	eP'Z	22 50 25.0	c	
		PP	52 07		USCGS: 6½°S, 106°E, 0 = 22 31 28 Pas. Mag. = 7. Near southwest coast of Java.
		iE	53 44		
		eE	54 02		
		ePS	23 01 40		
		ePPS	03 58		
		eZ	17 27		
		MH	iP'Z	22 50 25.7	
F	PPZ	52 11			
	eP'Z	22 50 28.5	c		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 3	M	ePPZ	52 06.		
		eP'Z	22 50 21.5	c	
	R	iZ	52 13		
		eP'Z	22 50 26.0	c	
		eZ	50 51.		
	PA	eNZ	52 22.		
		iZ	54 52		
		eP'Z	22 50 25.9		
	C	eP'Z	22 50 18		
		eZ	51 54		
SH	eE	23 01 54			
	iP'Z	22 50 21	c		
	PPZ	52 02			
July 4	MH	eE	57 15		
		eE	59 02		
	eZ	02 45 41.5		38°N, 115°5W 0 = 02 44 22 East of Tonopah, Nevada.	
	iZ	45 46.0			
F	ePZ	02 45 20.3			
S	46 00.7				
R	eZ	02 45 18.2			
	eS	46 00.2			
July 4	M	eZ	02 45 45.4		
	MH	iPZ	16 35 40.9	d	USCGS: 44°9N, 110°8 W 0 = 16 32 50 Felt in Yellowstone National Park.
	M	eZ	38 37.		
		ePZ	16 35 13.5		
	iZ	35 40.5			
R		eZ	37 39		
		eZ	16 35 20.8		
		e	37 15		
		eP	16 34(58)		
C		e	37 26		
		eZ	16 35 09.1	c	
	SH	B	eZ	19 14 37	
July 4		iZ	15 19		Pasadena: 35° 19'N, 118° 55'W, 0 = 19 13 31, Mag. = 3.8 Near Bakersfield, California
	July 4	MH	iPZ	19 14 16.8	
		iZ	14 25.2		
F		eSNE	14 56.3		
		iN	15 02.5		
		iZ	15 03.6		
		iPZ	19 13 57.3	c	
R		iSNEZ	14 16.8		
		eZ	19 14 52.7		
		eZ	15 44.3		
July 5	MH	eZ	15 58.8		
		ePZ	07 26 12.5		
		eN	26 15.0		
	F	eSNE	26 36.3		
ePZ		07 26 08.5			
	eS	26 30.5			
					Berkeley: 36°2N, 121°8W, 0 = 07 25 39, M = 2.9 30 miles south of Monterey, off the coast.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 5	M	eSZ	07 27 00.8		
	PA	iPZ	07 26 15.1		
July 5	B	ePZ	14 02 15		USCGS: 50 $\frac{1}{2}$ °N, 156 $\frac{1}{2}$ °E, 0 = 13 52 18, d = 60 Km. Near south coast of Kamchatka
	MH	eS	09 50		
		eZ	14 02 04	c	
		iZ	02 20	c	
	F	eZ	14 02 14.3	c	
		eZ	02 29		
	R	ePZ	14 02 02.9	c	
		iZ	02 18.1	c	
		eS	09 57		
	C	eP	14 01 25		
		eZ	01 40		
	SH	eZ	14 01 45.7	c	
		iZ	02 02		
		eE	10 26		
July 5	MH	iPZ	15 08 35.9	c	Pasadena: 35°20'N, 118°31'W, 0 = 15 07 42, East of Caliente.
July 5	F	eN	15 08 39.3		BCIS: 5°S, 151 $\frac{1}{2}$ °E, 0 = 16 24 37, New Britain region.
July 5	MH	ePZ	16 37 41		Berkeley: 40° 26'N, 124° 16'W, 0 = 19 18 52, Mag. 3.6 10 miles south of Ferndale.
July 5	SH	eZ	16 37 41		
July 5	B	eZ	19 19 51.0		
		iZ	20 03.1		
		Z	20 31.2		
	MH	ePZ	19 19 45.3	c	
		iZ	19 56.4		
		iSZ	20 21.5		
	PA	ePZ	19 19 47.3		
	M	iPZ	19 19 25.5		
		i	19 32.9		
		iSE	19 43.7		
	R	eZ	19 19 52.3		
	A	iN	19 19 01.3		
		eN	19 07.9		
	C	e	19 20 05		
July 6	SH	iZ	19 19 17.6	c	
July 6	B	ePZ	04 13 20		USCGS: 3°S, 148°E, 0 = 04 00 13 Bismark Sea.
		eSE	23 59		
		PPSE	25 34		
		SSE	30 44		
	MH	ePZ	04 13 26.5	d	
	M	ePZ	04 13 26		
	R	ePZ	04 13 34		
	SH	eZ	04 13 24	c	
		eE	23.8		
July 6	B	iPZ	08 14 46.7	c	USCGS: 46 $\frac{1}{2}$ °N, 153 $\frac{1}{2}$ °E, 0 = 08 04 42, d = 100 Km. Mag. Pas. 6-3/4 - 7; Berk. 6 $\frac{1}{2}$ - 6-3/4, Kurile Islands.
		ipPZ	15 31	d	
		iSE	22 59.9		
		eN	23 01.5		
		esS	24 02		
		iScS	24 38		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 6	MH	iPZ	08 14 51.0	d	
		iZ	14 59.1		
	F	iZ	08 15 01.6	c	
	M	ePZ	08 14 35.9	d	
		iZ	14 47	d	
	R	iPZ	08 14 51.0	c	
		ipPZ	15 10	c	
	PA	iPZ	08 14 48.4		
	C	eP	08 14 15		
		iS	22 01		
	SH	ePZ	08 14 31.6	d	
		pPZ	14 54	c	
		PP	16 37		
		SNE	22 37		
		e	24 18		
July 6	MH	eZ	08 31 48		USCGS: 46°N, 153°E, 0 = 08 21 23, Kurile Islands.
		e	32 33		
	M	eZ	08 31 30		
		i	32 52		
	SH	eZ	08 31 26	c	
July 6	MH	eZ	08 44 06		
	M	eZ	08 44 02		
	R	eZ	08 44 15		
	SH	eZ	08 43 47		
July 6	M	eZ	09 04 42		Kurile Islands. 0 = 08 54 32
	SH	eZ	09 04 37	c	
July 6	MH	eZ	10 24 20		USCGS: Kurile Islands aftershock. 0 = 10 14 00.
	F	eZ	10 24 34		
	M	eZ	10 24 08		
	R	eZ	10 24 23		
	SH	eZ	10 24 04	d	
	MH	eZ	10 57 16	d	USCGS: Kurile Islands aftershock. 0 = 10 46 46.
	M	eZ	10 56 55		
	R	eZ	10 57 13		
	SH	eZ	10 56 53		
July 6	B	iPZ	11 14 11.0	d	Berkeley: 39° 25'N, 118° 32'W, 0 = 11 13 20, Mag. = (Pas) 6.8. Near Fallon, Nevada. Felt.
		eN	14 57.4		
	MH	iPZ	11 14 10.2	d	
		iZ	14 56.6		
	PA	iPZ	11 14 13.5		
	SF	iPE	11 14 13.7		
	M	iPZ	11 14 00.6	c	
	F	iZ	11 14 05.8	d	
	R	iPZ	11 13 39.0	c	
	A	e	11 14 28.4		
		eN	15 17		
	F	eE	11 14 (36)		
	C	eP	11 14 55		
		e	17 43		
	SH	iP	11 14 09.9	c	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 6	B	ePZ	11 49 51.1	d	Berkeley: 39°N, 118½°W, 0 = 11 49 00, Mag. 5.5 Fallon, Nevada aftershock. Felt.
		eN	50 01.7		
	eSE	50 31.0			
	MH	ePN	11 49 51.0		
		iSE	50 28.7		
	PA	iN	50 29.3		
		ePZ	11 49 53.4		
	SF	eNE	50 03.3		
		iSN	50 48.4		
	M	eE	11 49 53.8		
		eE	50 02.3		
		eE	50 43.0		
	F	eNE	11 49 43.1		
		iSE	50 21.8		
R	eZ	11 49 45.1			
	eE	50 19.8			
C	iPZ	11 49 19.8			
	eP	11 50 38			
SH	iZ	11 49 51.9			
	ePZ	12 54 50.8			
July 6	B	iPZ	55 00.4	d	Aftershock of 11:14. Mag. 4.5 Fallon, Nevada.
		eS	55 31.1		
	iNE	55 45.7			
	MH	iPZ	12 54 50.4		
		eSE	55 32.8		
	PA	ePZ	12 55 01.2		
		eE	12 55 02.6		
	F	eE	55 46.9		
		iZ	12 54 49.5		
		eE	55 19.1		
	SH	eN	55 21.4		
		eZ	55 24.5		
		iZ	12 54 52.4		
		eE	55 39.4		
July 6	B	eN	55 41.4	c	Aftershock of 11:14. Mag. 4.9, Fallon, Nevada.
		ePZ	12 57 19.9		
	eSN	57 59.4			
	MH	eE	12 57 29.8		
		iE	58 01.1		
	PA	ePE	12 57 37.3		
		ePN	57 40.6		
	SF	eE	12 57 31.8		
		eE	58 04.3		
	F	iZ	12 57 19.5		
		eN	57 52.4		
		eZ	57 55.5		
		eE	57 55.8		
	July 6	SH	iZ		
iPZ			13 16 02.6		
B		eS	16 42.1		
		eN	16 52.2		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks			
1954			h. m. s.					
July 6	MH	iN	16 56.8	d	Fallon, Nevada aftershock Mag. 4.5 There are several aftershocks just at this time.			
		iPZ	13 16 02.0					
		iE	16 42.5					
		iN	16 48.6					
	PA	iE	16 50.5					
		iPZ	13 16 04.9					
	SF	eE	13 16 05.4					
		iE	16 58.2					
	M	iZ	13 15 54.2					
		iSE	16 33.0					
	F	eZ	13 15 56.3					
		eE	16 20.5					
	R	iPZ	13 15 31.0					
		eZ	13 16 03.5					
July 6	SH	eZ	13 16 03.5	c	Fallon, Nevada aftershock Mag. 4.5 There are several aftershocks just at this time.			
		ePZ	13 36 50.1					
	B	eSE	37 30.7					
		eNE	13 36 48.0					
	MH	ePZ	13 36 55.6					
		eE	13 36 53.9					
	PA	eE	13 36 44.4					
		eN	37 23.3					
	SF	eN	13 36 50.7					
		eN	37 24.7					
	July 6	SH	iE			13 36 53.1	c	Fallon, Nevada aftershock. Mag. 4.5.
			iPZ			14 56 06.9		
		B	iZ			56 16.7		
			eS			56 47.4		
MH		iPZ	14 56 08.7					
		eE	56 42.2					
SF		eE	14 56 19.3					
		eE	57 00.6					
F		iZ	14 56 05.9					
		eN	56 38.3					
SH		iZ	14 56 07.5					
		eN	56 54.9					
July 6		B	eE	56 56.8	c	Aftershock of Fallon, Nevada. Mag. 4.4		
			iZ	15 52 19.4				
	MH	eN	52 50.7					
		eNE	53 04.3					
	PA	eZ	15 52 08.6					
		eN	52 40.9					
	SF	ePZ	15 52 20.0					
		eE	15 52 22.9					
	F	eE	53 06.5					
		eN	15 52 07.1					
	M	eN	52 45.2					
		iZ	15 52 09.9					
	SH	eNE	52 34.0					
		iZ	15 52 12.9					
B	eZ	52 20.0						

Date	Sta.	Phase	Time(GCT)	Ground motion	Remarks
1954					
July 6	B	iZ	17 39 27.5	c	Aftershock of Fallon, Nevada. Mag. 4.2 This seems to be 2 shocks from the appearance of the Reno and Mineral records.
	MH	eZ	17 39 16.7	d	
		eE	39 43.7		
	PA	iPZ	17 39 28.7		
		eZ	39 50.2		
	M	iPZ	17 39 10.7	d	
	F	eZ	17 39 16.6	d	
		iZ	39 38.5		
	R	eZ	17 38 46.2	c	
		eS	39 00.3		
July 6	B	iZ	17 58 27.2	c	These are two aftershocks of Fallon, Nevada tremors at 11:14. Magnitude 4.1 and 4.3
		iZ	58 30.4		
		eN	59 15.3		
		eN	18 00 19.4		
	MH	iZ	17 58 27.9	d	
		eE	58 55.6		
		eE	59 17.1		
		iZ	59 19.4		
		eE	18 00 21.7		
	PA	ePZ	17 58 38.7		
	SF	eE	18 00 27.1		
	M	iPZ	17 58 18.2	c	
		eE	58 51.4		
		eN	59 02.2		
		eE	18 00 01.7		
	F	eZ	17 58 29.3	d	
		eNE	59 07.3		
		eE	18 00 10.9		
	R	iPZ	17 57 55.6	d	
		iSNE	58 10.3		
	iNE	58 34.7			
SH	iZ	17 58 27.2	c		
	eN	59 15.3			
	eN	18 00 19.4			
	B	iZ	18 42 52.8	c	Aftershock of Fallon, Nevada, Mag. = 4.2.
	MH	iPZ	18 42 52.3	d	
		eE	43 17.0		
PA	iPZ	18 43 02.8			
SF	eE	18 43 05.3			
	eE	43 50.0			
R	iPZ	18 42 22.4	c		
	iSN	42 37.0			
	SH	iZ	18 42 55.1		
	eN	43 42.9			
July 6	B	ePZ	22 08 32.7	d	Berkeley: 39°3N, 118°5W O = 22 07 41, Mag. = 6.0 Fallon, Nevada aftershock. Felt.
		eE	09 10.3		
	MH	eNE	22 08 33.6		
		iN	09 08.8		
		iE	09 11.6		
	PA	iPZ	22 08 35.4		
	SF	eE	22 08 35.7		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 6	M	ePZ	22 08 23.6	c	Nevada aftershock. Mag. = 4.1
	F	eZ	22 08 25.8	c	
		iZ	08 27.8		
	R	iPZ	22 08 00.8	c	
	A	eN	22 08 55.2		
		eN	09 19		
	Fe	eE	22 09 07		
	C	eP	22 09 19		
	SH	eZ	22 08 32.6	c	
	B	eZ	23 12 16.1	d	
July 6	MH	iPZ	23 12 08.9	c	Nevada aftershock. M = 4.1
		eE	12 47.6		
	PA	iPZ	23 12 18.4		
	SF	eE	23 12 24.3		
		eE	13 05.3		
	M	iZ	23 12 03.4	c	
		eE	12 32.8		
	F	eZ	23 12 07.5	c	
		eN	12 44.3		
		eE	12 46.7		
July 6	R	iPZ	23 11 36.9	c	Nevada aftershock. M = 4.1
		eS	11 51.0		
	SH	iZ	23 12 09.4	c	
	B	iZ	23 58 08.0	c	
	MH	eZ	23 57 57.9	d	
	PA	ePZ	23 57 55.2		
	M	iZ	23 57 47.6	d	
		eE	58 29.1		
	F	eZ	23 57 58.4	d	
		eNE	58 36.4		
July 7	R	iPZ	23 57 25.6	c	Nevada aftershock. Mag. 4.4
		eSN	57 39.8		
	SH	iZ	23 57 57.5	d	
		eE	58 48.3		
	B	eZ	00 23 56.3	d	
		eNE	24 27.9		
		iN	24 41.9		
	MH	iPZ	00 23 51.1	d	
		eE	24 15.3		
		eN	24 26.4		
July 7	PA	ePZ	00 23 52.6		Nevada aftershock. Mag. 4.4
	SF	eE	00 23 59.6		
		eE	24 44.4		
	M	iZ	00 23 40.6	c	
		iE	24 18.5		
		iN	24 20.7		
	F	ePZ	00 23 46.6	d	
		eNE	24 22.7		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 7	R	iPZ	00 22 34.7	c	
		eS	22 49.2		
July 7	B	ePZ	01 30 49.0	d	Nevada aftershock. Mag. 4.1
		eN	31 20.2		
	MH	ePZ	01 30 45.8	d	
		eN	31 12.0		
	PA	iPZ	01 30 52.0		
	SF	eE	01 31 35.9		
	F	eZ	01 30 39.2	d	
		eE	31 15.5		
	R	iPZ	01 30 10.1	c	
		iSN	30 24.1		
July 7	SH	iZ	01 30 43.3	d	Nevada aftershock. Mag. 4.1
	B	eZ	02 24 37.6		
		iZ	24 47.5		
	MH	iZ	02 24 36.8	d	
		iZ	24 44.1		
	PA	iPZ	02 24 40.1		
	SF	eE	02 24 47.4		
		eE	25 31.4		
	M	iPZ	02 24 27.6	d	
	F	eZ	02 24 38.2	d	
		eNE	25 17.1		
	R	iPZ	02 23 04.1	d	
		eSN	23 18.3		
	SH	iZ	02 24 36.6	c	
		eN	25 25.0		
July 7	MH	iZ	04 34 45.6	d	Nevada aftershock. Mag. 4.1
		eN	35 34.2		
	PA	iPZ	04 34 56.8		
	SF	eE	04 34 57.4		
		eE	35 42.8		
	M	ePZ	04 34 33.3	c	
		eE	35 05.2		
	F	iZ	04 34 47.4	c	
		eNE	35 27.0		
	R	iZ	04 34 12.3	c	
		iSN	34 26.7		
	SH	iZ	04 34 44.5	c	
		eN	35 23.1		
July 7	B	eZ	06 12 11.3	d	Aftershock of Nevada. Mag. 4.6.
		eN	13 02.9		
	MH	iPZ	06 12 08.5	d	
	PA	iPZ	06 12 11.7		
	USF	eE	06 12 21.3		
		iE	13 06.1		
	M	iPZ	06 12 00.8	c	
		iN	41.4		
	F	eZ	06 12 08.3	d	
		eE	12 37.7		
		eNE	12 44.4		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 7	R	iZ	06 11 37.3	c	
		iE	11 52.6		
	SH	iZ	06 12 10.7	c	
		eE	13 00.3		
July 7	B	eZ	10 32 30.0		Nevada aftershock. Mag. 4.1
	MH	ePZ	10 32 21.3	d	
		eNE	33 00.8		
	PA	ePZ	10 32 23.9		
	SF	eE	10 32 33.5		
		eE	33 16.6		
	M	iPZ	10 32 14.4	c	
		eE	32 58.5		
		iZ	32 59.2		
	F	eZ	10 32 20.5		
		eE	32 56.3		
	R	iPZ	10 31 51.0	c	
		iE	32 04.8		
	SH	iZ	10 32 24.1	c	
		eN	33 13.6		
July 7	B	eZ	10 53 39.6	c	Nevada aftershock. Mag. 4.4.
		eNE	54 31.8		
	MH	ePZ	10 53 37.1		
		eN	54 12.1		
	PA	iPZ	10 53 40.9		
	SF	eE	10 53 47.6		
	M	iZ	10 53 29.8	c	
		iZ	54 06.8		
	F	iZ	10 53 36.3		
		iE	54 15.1		
	R	iPZ	10 53 07.1	c	
			53 23.2		
	SH	iZ	10 53 39.8		
July 7	B	eZ	12 41 46.1		Nevada aftershock. Mag. 4.2.
	MH	eZ	12 41 41.5		
	PA	ePZ	12 41 36.8		
	SF	eE	12 41 55.0		
		eE	42 37.8		
	M	eZ	12 41 34.5		
		iNE	42 14.9		
	F	eZ	12 41 42.1		
		eNE	42 19.2		
	R	iZ	12 41 12.1	c	
		iN	41 37.7		
July 7	SH	iZ	12 41 45.1	c	
	B	iPZ	16 03 24.7	d	Nevada aftershock. Mag. 4.2.
		iNEZ	04 06.1		
	MH	ePZ	16 03 15.6	c	
	PA	ePZ	16 03 15.9		
	SF	eE	16 04 10.2		
	M	iZ	16 03 05.6	c	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 7	F	eZ	16 03 17.1	d	
		eNE	03 55.4		
	R	iZ	16 02 43.1	d	
	SH	iZ	16 03 15.5	c	
		eNE	04 05.2		
July 7	B	iPZ	18 01 06.6	d	Nevada aftershock. Mag. 4.3.
		iSE	01 53.5		
	MH	iPZ	18 00 57.2	d	
	PA	ePZ	18 00 59.0		
	SF	eE	18 01 08.7		
		eE	01 53.7		
	M	iZ	18 01 47.8	c	
		iE	02 25.9		
	F	iZ	18 00 58.0		
	R	iPZ	18 00 24.4	c	
	SH	iZ	18 00 57.6	d	
		iE	01 03.5		
July 7	B	iPZ	21 48 51.2	c	Nevada aftershock. Mag. 4.1.
		iZ	49 35.5		
	MH	eNE	21 48 43.6		
	PA	eZ	21 48 46.3		
	SF	eE	21 48 49.9		
		eE	49 39.6		
	M	iZ	21 48 29.4		
	F	eZ	21 48 42.1		
	R	iPZ	21 48 05.9	c	
	SH	eZ	21 48 38.9	d	
July 7	B	iPZ	23 52 09.9		Nevada aftershock. Mag. 4.3.
		iZ	52 57.4		
	MH	iPZ	23 52 05.3		
	PA	iPZ	23 52 16.9		
	SF	eE	23 52 13.7		
		eE	53 00.4		
	M	iZ	23 52 01.1	d	
	F	eZ	23 52 04.4		
	R	eZ	23 51 04.3	d	
	SH	eN	23 53 00.1		
July 8	B	iPZ	02 14 48.3	d	Nevada aftershock. Mag. 4.8.
		iZ	14 58.2		39 $\frac{1}{2}$ °N, 118 $\frac{1}{2}$ °W.
	MH	iPZ	02 14 47.8	d	0 = 02 13 56. Felt
	PA	iPZ	02 14 51.7		
		iSE	15 47.3		
	SF	eE	02 14 57.9		
	M	iPZ	02 14 37.1	c	
	F	eZ	02 14 42.7		
	R	eZ	02 14 14.1	c	
	A	eN	02 15 22.3		
	SH	eZ	02 14 46.2	c	
July 8	B	iPZ	04 09 08.1		Nevada aftershock. Mag. 4.5.
		eS	09 54.4		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 8	MH	iPZ	04 09 11.9		
	PA	iPZ	04 09 16.0		
	SF	eE	04 09 26.5		
	M	eN	04 09 13.1		
	F	eZ	04 09 08.6		
	R	iZ	04 08 38.1	c	
	SH	iZ	04 09 11.1	d	
July 8	B	iPZ	06 39 38.0		20 miles southwest of Hollister. Mag. 3.1.
		iS	39 56.6		
	MH	iPZ	06 39 28.1		
		iSE	39 39.5		
	PA	iPZ	06 39 32.2		
		eS	39 47.9		
	SF	eE	06 39 39.6		
	F	eZ	06 39 37.8		
		iN	39 56.3		
July 8	B	iPZ	06 59 33.1		Nevada aftershock. Mag. = 4.3.
		i	07 00 16.2		
	MH	ePZ	06 59 25.5		
		eN	59 59.4		
	PA	ePZ	06 59 27.8		
	SF	eE	06 59 38.2		
	M	eN	06 59 19.1		
		eN	59 52.8		
	F	iZ	06 59 24.4		
	R	iZ	06 58 54.7	c	
		i	59 09.1		
	SH	iZ	06 59 27.8	c	
July 8	B	iPZ	12 56 03.1		Nevada aftershock. Mag. = 4.7.
		iSNE	56 43.2		Felt.
	MH	iPZ	12 56 02.7		
		eE	56 32.9		
	PA	ePZ	12 56 06.9		
	SF	eE	12 56 15.1		
		eE	56 57.7		
	M	eN	12 55 54.4		
		iN	56 32.1		
	F	eZ	12 55 55.9		
		eN	56 39.1		
	R	iZ	12 55 30.8	c	
	C	eP	12 56 52		
	SH	eZ	12 56 03.2	c	
July 8	B	ePZ	19 32 49.1	c	Nevada aftershock. Felt.
		iS	33 28.9		USCGS: 39°N, 118°5W
	MH	ePZ	19 32 48.3	d	Mag. = 5.3
	PA	iPZ	19 32 51.9		
		eS	33 42.5		
	SF	eE	19 32 58.4		
	M	iPZ	19 32 40.7	c	
		iN	33 10.7		
	F	eZ	19 32 44.5		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 8	A	eN	19 33 14.4		
	R	iZ	19 32 17.0	c	
	C	eP	19 33 36		
July 9		e	35 17		
	SH	iZ	19 32 50.9	c	
	B	ePZ	08 50 53.2	c	Nevada aftershock. Felt.
		iNEZ	51 33.9		USCGS: 0 = 08 50 03.
	MH	iZ	08 50 42.9		Mag. 4.9.
		iN	51 23.8		
	PA	ePZ	08 50 51.9		
	SF	eE	08 51 05.3		
	M	eN	08 50 42.4		
	F	eZ	08 50 47.0		
July 9	R	iZ	08 50 19.5	c	
	SH	iPZ	08 50 51.5	c	
	C	eP	08 51 38		
	B	iPZ	12 32 02.2	c	USCGS: 16°S, 174½°W
		eZ	32 26.5		0 = 12 20 38, d = 100 Km.
	MH	iPZ	12 32 03.0	c	Tonga Islands region.
		iZ	32 26.6	d	
	F	eZ	12 32 07.3	c	
		eZ	32 30.6	d	
	R	eZ	12 32 07.1	c	
July 9		eZ	32 41.1	d	
	SH	iZ	12 32 11.8	c	
		iZ	32 33.6	d	
	B	iPZ	18 39 52.7	c	USCGS: 41°N, 138½°E.
	MH	iPZ	18 39 56.7	c	0 = 18 28 22.
	PA	iPZ	18 39 54.0		Off northwest coast of Honshu,
	M	iPZ	18 39 45.6	c	Japan.
	F	iPZ	18 40 05.1	c	
	C	iP	18 39 25		
	R	iPZ	18 39 56.6	c	
July 10	SH	iPZ	18 39 41.6	c	
	B	iPZ	01 23 13.1		Nevada aftershock. Mag. = 4.6.
		iE	23 58.7		
	MH	ePZ	01 23 12.3	c	
	M	ePZ	01 23 01.9		
	PA	iPZ	01 23 15.1		
	F	eZ	01 23 13.9		
	SF	eE	01 23 24.4		
	R	iZ	01 22 39.4	d	
		iZ	22 53.8		
July 10	SH	iZ	01 23 12.1	c	
	B	eP	15 07 47.8		Berkeley: 37° 25'N, 121°42'W.
	MH	eP	15 07 36.1		Mag. 1.7. 0 = 15 07 35
		eSE	07 41.4		6 miles northwest of Mt. Hamilton.
	PA	ePZ	15 07 42.7		
		e	07 56.5		
	SF	eE	15 08 03		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 10	MH	ePZ	16 13 39		USCGS: off coast of central Chile
					0 = 16 00 45
July 10	MH	ePZ	23 10 51		USCGS: 37°N 70½°E
	M	eZ	23 14 29		0 = 22 56 53 d = 200 Km
July 11					Hindu Kush.
	PA	eZ	00 19 05		Nevada aftershock
	M	ePZ	00 18 44.3		
July 11	R	ePZ	00 18 21.3	c	
	MH	ePZ	03 26 26.9		Berkeley: 40°22'N, 125° 16'W
	PA	iPZ	03 26 22.4		0 = 03 25 24
	M	ePZ	03 26 08.8		55 miles southwest of Ferndale
		S	26 41.5		
	R	eZ	03 26 28.8		
	A	iNE	03 25 43.5		
		eS	25 56.0		
	Fe	P	03 25 41.4		
			25 50.6		
July 11	B	eZ	04 58 44.7		
	MH	eZ	04 58 52.3		
	F	eZ	04 59 07.9		
	M	eZ	04 58 16.0		
	R	eZ	04 58 35.9		
	SH	eZ	04 58 06.0		
	B	eZ	07 05 36.1		Nevada aftershock. M = 4.6.
	MH	eZ	07 05 36.0		
	PA	iPZ	07 05 38.0		
	SF	eE	07 05 37.5		
July 11	M	ePE	07 05 25.1		
	F	eZ	07 05 31.1		
	R	eZ	07 04 15.9	d	
	SH	eZ	07 05 34.8		
	B	ePZ	09 59 02.8		Nevada aftershock. M = 4.6.
	MH	iPZ	09 59 02.1		
	PA	iPZ	09 59 05.1		
	SF	eE	09 59 14.1		
	M	iPZ	09 58 54.7		
	F	eZ	09 58 54.3		
July 11	R	iZ	09 58 31.8	c	
	C	eP	09 59 56		
	SH	iPZ	09 59 04.5		
	B	iPZ	10 37 21.7	c	BCIS: 13°N, 144°E
		iZ	37 31.7		0 = 10 24 45
	MH	iPZ	10 37 25.0	c	
	PA	iPZ	10 37 21.2		
	SH	iPZ	10 37 18.1	c	
	B	eZ	10 17 56.0		Nevada aftershock. M = 4.5.
	MH	iPZ	10 17 55.7		
July 12	PA	ePZ	10 17 56.1		
	SF	eE	10 18 09.4		
	M	iPZ	10 17 48.4		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks			
1954			h. m. s.					
July 12	F	eZ	10 17 50.2	c	Nevada aftershock. M = 4.6.			
	R	iZ	10 17 25.5					
	C	eP	10 18 49					
	SH	iZ	10 17 58.3					
July 12	B	eZ	16 06 12.1	d	Nevada aftershock. M = 4.6.			
	MH	eE	16 06 12.4					
	PA	ePZ	16 06 13.8					
	M	iPZ	16 06 01.3					
	F	eZ	16 06 07.0					
	R	iZ	16 05 39.2					
	C	eP	16 07 00					
	SH	iZ	16 06 10.6					
	July 12	M	eZ			22 05 14.1	c	USCGS: 46°N, 153°E O = 21 55 02 Kurile Islands
	F	eZ	22 05 40.1					
R	eZ	22 05 32.5						
July 13	B	ePZ	08 18 05.0	c	USCGS: 3°S, 151°E O = 08 04 44 New Britain region.			
		eSE	28 23.2					
	M	eZ	08 17 50.5					
		eZ	21 34					
July 14	F	eZ	08 17 57.1	c	Nevada aftershock. M = 3.9			
	R	eZ	08 17 58.0					
	SH	ePZ	08 17 48.4					
	B	ePZ	01 58 06.3					
	MH	iPZ	01 58 02.6					
	M	iPZ	01 57 53.5					
	F	iPZ	01 58 02.5					
July 14	R	iPZ	01 57 31.0	c	Kurile Islands. USCGS: 13°S, 177°W O = 00 03 44 Wallis Island region.			
	SH	iZ	01 58 03.8					
	July 14	M	iZ			23 53 48.3		
July 15	B	iPZ	00 15 15.1	c	Kurile Islands. USCGS: 13°S, 177°W O = 00 03 44 Wallis Island region.			
		eSN	24 45					
July 15		eN	33.8	c	Nevada aftershock. M = 3.9			
	MH	iPZ	00 15 11.9					
	M	iZ	00 15 23.1					
	F	eZ	00 15 21.9					
	R	eZ	00 15 30.3					
July 15	MH	eZ	00 46 03.4	c	Samoa Islands region O = 00 34 32			
	M	eZ	00 46 16					
July 15	F	eZ	00 46 09	c	Nevada aftershock. M = 3.9			
	B	ePZ	01 32 28.1					
	MH	eNE	01 32 28.8					
	PA	ePZ	01 32 32.2					
	M	ePZ	01 32 15.7					
	F	iZ	01 32 28.8					
	R	iZ	01 31 53.4					
	July 16	B	eZ			11 56 10.0	d	Nevada aftershock. M=4.0.
		MH	ePZ			11 56 10.0		
		PA	ePZ			11 56 21.5		
M		eZ	11 56 00.2					
F		eZ	11 56 10.8					
R		iZ	11 55 38.8					
SH		iZ	11 56 10.5					

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks			
1954			h. m. s.					
July 16	MH	ePZ	12 52 51.0	c	USCGS: 40°N, 144½°E O = 12 41 38 off east coast of Honshu, Japan.			
	M	ePZ	12 52 33.2					
	R	ePZ	12 52 51.0					
	SH	iZ	12 52 36.2					
July 17	B	eZ	00 03 13.0	c	Nevada aftershock. M = 4.2			
	MH	iPZ	00 03 00.6					
	PA	ePZ	00 03 16.3					
	SF	eE	00 04 02.9					
	M	ePZ	00 02 57.9					
	F	eZ	00 03 07.0					
	R	iPZ	00 02 34.7					
	C	eP	00 03 58					
	SH	eZ	00 03 06.9					
	July 17	B	iPZ			01 54 02.0	c	Nevada aftershock. M = 4.4.
MH	iPZ	01 54 00.1						
PA	iPZ	01 54 04.9						
SF	eE	01 54 12.8						
M	iZ	01 53 53.1						
F	eZ	01 53 57.5						
R	iPZ	01 53 30.4						
C	eP	01 54 46						
SH	iZ	01 54 02.8						
July 17	MH	ePZ	18 56 15.7	c	Berkeley: 41°18'N, 123°34'W O = 18 55 12 M = 4.2. 38 miles NE of Arcata			
PA	iPZ	18 56 23.2						
M	iPZ	18 55 41.7						
	eS	56 03.7						
F	eN	18 57 57.1						
R	eZ	18 56 10.6						
A	iPNE	18 55 23.1						
	iS	55 31.2						
Fe	iE	18 55 38.1						
C	eP	18 56 18						
July 17	SH	iPZ	18 55 31.9	c	Pasadena: 38°2N, 116°4 W, O = 22 02.7 M = 4.3 Nye County, Nevada.			
	MH	iZ	22 03 53.1					
	PA	ePZ	22 04 05.2					
	M	eZ	22 03 54.2					
	R	ePZ	22 03 35.7					
July 18	B	iPZ	01 01 37.4	c	USCGS: O = 00 56 50 Revilla Gigedo Islands region			
		eNE	05 44					
	MH	iPZ	01 01 29.3					
	M	eZ	01 01 59					
	F	eZ	01 01 14					
	R	eZ	00 01 42					
	July 18	B	eZ			06 44 00	c	USCGS: 55°N, 161½°E O = 06 34 35 Near east coast of Kamchatka.
		MH	iPZ			06 43 57		
		M	ePZ			06 43 41		
		F	eZ			06 44 07		
R		eZ	06 43 54					
July 18	SH	eZ	06 43 36	c	USCGS: 35½°N, 140½°E O = 09 07 44 Mag = 6½ (Pas) Near east coast of Honshu, Japan.			
	B	iPZ	09 19 16					
		eSNE	28 45					
	MH	ePZ	09 19 19					

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 18	PA	iPZ	09 19 17		Pasadena: 35°19'N, 118°30'W O = 13 58 51 M = 3.7. East of Caliente
	M	iZ	09 19 10		
	F	eZ	09 19 32		
	C	eP	09 18 55		
	SH	eZ	09 19 07		
		eE	28 31		
		eE	29 09		
July 18	MH	iPZ	13 59 42.0		USCGS: 30°S, 180° O = 19 53 22 d = 400 Km. Kermadec Islands.
		iZ	14 00 25		
July 18	PA	iPZ	13 59 47.0		USCGS: 0 = 02 15 16 d = 60 Km. Near coast of northern Chile.
	M	ePZ	14 00 18.8		
	R	eZ	14 00 14.2		
	MH	ePZ	15 20 13		
	M	iZ	15 20 17		
July 18	F	eZ	15 20 13		BCIS O = 17 21.2 Marianas Islands
	R	eZ	15 20 22		
	SH	iZ	15 20 16		
	B	eNE	20 15 38		
	MH	iPZ	20 05 27		
July 18	M	iPZ	20 05 36		Pasadena: 32°0 N, 116°0 W M = 4.8 Lower California Pasadena: 38°2 N, 116°4 W O = 00 11 38 M = 5.0 Nye County, Nevada.
	F	eZ	20 05 31		
	SH	ePZ	20 05 35		
	MH	ePZ	02 27 10.7		
		eZ	27 27		
July 19	M	eZ	02 27 29		Pasadena: 32°0 N, 116°0 W M = 4.8 Lower California Pasadena: 38°2 N, 116°4 W O = 00 11 38 M = 5.0 Nye County, Nevada.
	SH	eZ	02 27 14.3		
	MH	ePZ	17 33 27		
	M	eZ	17 33 23		
	SH	eZ	17 33 20		
July 19	MH	iPZ	20 03 48		Pasadena: 32°0 N, 116°0 W M = 4.8 Lower California Pasadena: 38°2 N, 116°4 W O = 00 11 38 M = 5.0 Nye County, Nevada.
	R	eZ	20 04 41		
July 20	B	eZ	00 12 59.6		Nevada aftershock. M = 4.1
	MH	iPZ	00 12 45.7		
	PA	ePZ	00 13 00.9		
	M	iZ	00 11 37.2		
	F	eZ	00 12 29.3		
July 20	R	ePZ	00 12 25.8		Nevada aftershock. M = 3.9
	C	eP	00 13 41		
	SH	iZ	00 12 58.6		
	B	eZ	01 42 47.7		
	MH	iPZ	01 42 46.1		
July 20	PA	ePZ	01 42 50.9		Nevada aftershock. M = 3.9
	M	eZ	01 42 29.0		
	F	eZ	01 42 42.3		
	C	eP	01 43 41		
	SH	eZ	01 42 46		
July 20	B	iZ	12 14 14.6		Nevada aftershock. M = 3.9
	MH	ePZ	12 14 12.6		
	PA	iPZ	12 14 24.1		
	M	iPZ	12 14 03.0		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
July 20	F	iPZ	12 14 15.2		Nevada aftershock. M = 4.1.
	R	iPZ	12 13 41.7	d	
	SH	eZ	12 14 12.9		
July 20	B	eZ	15 29 09.0		Nevada aftershock.
	MH	ePZ	15 29 00.7		
	PA	iPZ	15 29 11.5		
	M	iZ	15 28 54.2		
	F	iZ	15 28 59.9		
July 20	R	iZ	15 28 31.4		Nevada aftershock.
	SH	iZ	15 29 03.3		
	B	iZ	17 57 00.5		
	MH	eZ	17 57 53.1		
	PA	ePZ	17 57 03.7		
July 20	F	iZ	17 56 51.3		USCGS: 31°S, 70½°W O = 04 33 26 d = 60 Km. central Chile, Argentina border.
	R	iPZ	17 56 23.0	c	
	SH	eZ	17 56 54.9		
	MH	eZ	22 57 45		
	M	eZ	22 58 29		
July 20	F	eZ	22 57 50		USCGS: 31°S, 70½°W O = 04 33 26 d = 60 Km. central Chile, Argentina border.
	R	eZ	22 58 00		
	B	iPZ	04 45 54	c	
		iNS	56 13		
	MH	iPZ	04 45 51	c	
July 23	M	eZ	04 46 00.3	c	Nevada aftershock. M = 3.9
		iZ	46 11.9		
	F	eZ	04 45 41.7		
	R	ePZ	04 45 55		
	SH	iZ	04 46 03	c	
July 23	B	iPZ	06 34 29.3		USCGS: 14°S, 178°W. O = 15 03 48 Wallis Island region.
	MH	iPZ	06 34 28.3		
	PA	ePZ	06 34 33.3		
	M	eZ	06 34 18.0		
	F	eZ	06 34 32.3		
July 23	R	iPZ	06 33 55.7	d	USCGS: 14°S, 178°W. O = 15 03 48 Wallis Island region.
	SH	iZ	06 34 28.1		
	B	eZ	15 15 22	d	
	MH	iPZ	15 15 22	d	
	F	eZ	15 15 27		
July 23	R	eZ	15 15 36		Nevada aftershock. M = 3.6.
	SH	iPZ	15 15 30	d	
	B	eZ	20 42 58.3		
	MH	iPZ	20 42 49.9		
	PA	iPZ	20 42 49.0		
July 23	M	iZ	20 42 39.5		USCGS: 0 = 20 52 20 New Hebrides Islands.
	F	eZ	20 42 47.0		
	R	iPZ	20 42 16.7	c	
	SH	iZ	20 42 49.1		
	MH	eZ	21 05 06		
July 23	M	eZ	21 05 13		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks		
1954			h. m. s.				
July 30	F	eZ	02 00 55.2	d	USCGS: 36 $\frac{1}{2}$ °S 97°W O = 08 46 00 M = 6 $\frac{1}{2}$ (Pas) Pacific Ocean, South east of Easter Island		
	R	iPZ	02 00 27.9				
	A	eE	02 01 24.4				
	C	eP	02 01 43				
	SH	ePZ	02 01 00.5				
July 30	B	iPZ	08 58 03				
		iSNE	09 07 57				
		eSSN	13 02				
		eE	18 52				
		eZ	22.2				
	MH	iPZ	08 58 00				
	M	ePZ	08 58 10				
	F	eZ	08 57 52				
	R	ePZ	08 58 08				
	C	eP	08 58 42				
		eS	09 09 06				
July 31	SH	ePZ	08 58 15				
	B	ePZ	01 13 11	USCGS: 39°N 104°E O = 00 59 57 M = 6 $\frac{1}{2}$ (Pas) Ningsia Province, China			
		eSKS	23 41				
	M	iPZ	01 13 01				
	F	ePZ	01 13 20				
	PA	eZ	01 13 20				
	R	ePZ	01 13 10				
	C	eP	01 13 41				
	SH	iPZ	01 12 59				
July 31	B	ePZ	13 55 29.8		c	Nevada aftershock. M = 4.3	
	PA	iZ	13 55 32.7				
	M	iZ	13 55 17.0				
	F	iZ	13 55 30.7				
	R	ePZ	13 54 55.7				
	C	eP	13 56 14				
July 31	B	ePZ	17 25 05.9	c			Nevada aftershock. M = 4.5
	MH	iPZ	17 25 06.8				
	PA	ePZ	17 25 09.3				
	M	iPZ	17 24 56.0				
	F	eZ	17 25 06.6				
	SF	eE	17 25 17.8				
	R	iPZ	17 24 33.2				
	C	eP	17 25 52				
July 31	B	iZ	17 32 07.6		c	Nevada aftershock. M = 4.3	
	MH	iZ	17 32 07.8				
	PA	eP	17 32 12.4				
	SF	eE	17 32 18.6				
	M	iZ	17 31 56.4				
	F	eZ	17 32 08.0				
	R	iPZ	17 31 34.7				
Aug 1	M	eP'Z	09 35 36	c			USCGS: 12 $\frac{1}{2}$ °S 66°E O = 09 15 40 India Ocean.
		eZ	46 57				
Aug 1	B	ePZ	21 45 00				USCGS: O = 21 32 11 Loyalty Islands.
	MH	ePZ	21 45 02				

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks		
1954			h. m. s.				
Aug 2	M	iPZ	21 45 08	c			
	F	eZ	21 45 06				
	R	ePZ	21 45 13				
Aug 2	B	iPZ	10 19 44.9	d	USCGS: 39 $\frac{1}{2}$ °N 118 $\frac{1}{2}$ °W O = 10 18 53. M = 5.4 Near Fallon, Nevada. Felt		
	MH	iPZ	10 19 45.8				
	PA	iZ	10 19 47.1				
	SF	eE	10 19 47.8				
	M	eZ	10 19 34.2				
	F	eZ	10 19 39.6				
	R	iPZ	10 19 11.9				
	A	eN	10 20 07.5				
Aug 2	C	eP	10 20 33			c	
	B	ePZ	23 40 29				
		eN	50 24	USCGS: 37°S 99 $\frac{1}{2}$ °W O = 23 28 33 Southeast of Easter Island.			
	MH	ePZ	23 40 24				
	F	ePZ	23 40 19	Fallon, Nevada. M = 4.7			
Aug 3	B	ePZ	21 25 50.3				
	MH	iZ	21 25 49.1				
	PA	eZ	21 25 52.8				
	SF	eE	21 26 02.8				
	M	eNE	21 25 46.1				
	F	eZ	21 25 44.6				
	R	eZ	21 25 13.4				
	A	eE	21 27 26.5				
Aug 5	B	iPZ	05 04 01.9		c	Fallon Nevada aftershock. M = 4.7	
	MH	iPZ	05 04 00.5				
	PA	eZ	05 04 04.0				
	SF	eE	05 04 15.1				
	F	ePZ	05 03 55.5				
	R	iPZ	05 03 30.2				
	C	eP	05 04 44				
	SH	iPZ	05 04 00.9				
Aug 5	B	ePZ	08 58 04	USCGS: 52°N 176°E O = 08 49 52 d = 60 Km M = 6 (Pas) Rat Islands, Aleutian Islands.			
		eSE	09 04 39				
	MH	iPZ	08 58 08				
	F	eZ	08 58 19				
	R	ePZ	08 58 07				
	C	eP	08 57 28				
	SH	ePZ	08 57 47				
Aug 6	B	iPZ	15 42 07.9		d	Nevada aftershock. M = 4.2	
	MH	iPZ	15 42 07.2				
	PA	iPZ	15 42 19.0				
	SF	eE	15 42 19.6				
	F	iZ	15 42 08.8				
	R	iPZ	15 41 34.5				
	SH	eZ	15 42 07.9				
Aug 7	MH	eZ	02 13 25.0	c			Nevada aftershock?
	PA	ePZ	02 13 28.6				
	F	eN	02 14 10.0				
	R	iPZ	02 12 48.0				

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 7	SH	eZ	02 13 18.7		
Aug 7	B	iZ	09 49 40.5	c	USCGS: 18 $\frac{1}{2}$ °S 69°W O = 09 37 42 d = 200 Km. Bolivia, -Chile - Peru border.
	MH	iPZ	04 48 59.4	d	
		ipPZ	49 36.5	c	
	F	ePZ	09 48 50.1		
		epPZ	49 26.1		
	R	ePZ	09 49 01.7	d	
		eZ	49 38.0	d	
		iZ	49 56.9	d	
	SH	iPZ	09 49 11.8	c	
		iZ	49 49.4		
Aug 7	MH	eZ	18 06 29		USCGS: O = 17 57 00 East central Kamchatka.
	SH	iZ	18 06 08		
Aug 8	MH	iZ	16 41 42		
	M	eZ	16 41 50		
	F	eZ	16 41 46		
	SH	eZ	16 42 19		
Aug 9	MH	iZ	05 51 52		BCIS: 22 $\frac{1}{2}$ °S 172°E O = 05 39 23 d = 150 Km. Fiji Islands area.
	M	eZ	05 51 59		
	SH	eZ	05 51 58		Nevada aftershock.
Aug 9	MH	eZ	14 29 31.0		
	M	eZ	14 29 12.8		
	R	iZ	14 28 54.1	c	
	SH	eZ	14 29 24.7		
Aug 9	B	ePZ	19 26 08	d	USCGS: 53°N 161°E O = 19 16 48 d = 60 Km Off east coast of Kamchatka.
		iPcPZ	27 15		
		eSN	33 40		
		iE	33 59		
		iScSN	35 56		
	MH	iPZ	19 26 13	d	
		iZ	27 09		
	M	iPZ	19 25 59	d	
		iZ	26 24		
	F	eZ	19 26 24		
		iZ	26 47		
	R	ePZ	19 26 10		
		iZ	27 16		
	C	iP	19 25 30		
		i	26 57		
		e	32 50		
Aug 9	MH	iZ	21 34(50)		USCGS: O = 21 24 13 d = 150 Km Southern Kurile Islands
	M	iZ	21 34 38		
	F	eZ	21 34 59		
Aug 10	B	iPZ	01 38 22.0		Berk.: 36°50'N 121°29'W O = 01 38 01 8 miles southwest of Hollister, Calif.
	MH	iPZ	01 38(12.7)		
	PA	eZ	01 38 16.5		
	F	eZ	01 38(31.0)		
		S	38 48.9		
Aug 10	PA	eZ	06 24 10		Nevada aftershock.
	M	eZ	06 23 51		
	R	iPZ	06 23 29	c	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 10	B	iPZ	13 24 47.7		Berk. 37°57'N 121°59'W O = 13 24 42 M = 3.1 18 miles northeast of Berkeley.
	PA	iPZ	13 24 53.5		
	SF	ePE	13 24 50.3		
	MH	iPZ	13 24(55.9)		
Aug 10	B	eZ	13 57 42		USCGS: 32 $\frac{1}{2}$ °S 178°W O = 13 44 52 Kermadec Islands.
		eNE	14 08 28		
	MH	eZ	13 57(41)		
	M	eZ	13 57 52		
	F	eZ	13 57 50		
	R	eZ	13 57 59		
	SH	eZ	13 57 51		
Aug 10	B	ePZ	23 01 34.5		Nevada aftershock.
	MH	ePZ	23 01 33.0		
	M	eZ	23 01 23.2		
	F	eZ	23 01 30.4		
	R	iPZ	23 01 00.0	c	
	SH	iZ	23 01 41.2		
Aug 10	B	ePZ	23 04 36.9		Nevada aftershock.
	MH	eZ	23 04 34.7		
	PA	eZ	23 04 41.5		
	F	eZ	23 04 29.4		
	R	ePZ	23 03 58.9	d	
	SH	iZ	23 04 40.7		
Aug 11	B	iPZ	11 21 21		USCGS: 19 $\frac{1}{2}$ °N 69 $\frac{1}{2}$ °W O = 11 12 36 d = 100 Km Near north coast of Dominican Republic.
		iZ	21 57		
	MH	iZ	11 21 17		
		eZ	21 52		
	M	iPZ	11 21 18		
		eZ	21 54		
	F	ePZ	11 21 04		
	R	eZ	11 21 10		
	SH	eZ	11 21 22		
Aug 12	MH	iPZ	11 00 40		USCGS: O = 10 48 03 New Hebrides Islands
	M	iZ	11 00 46		
	F	eZ	11 00 44		
	R	eZ	11 00 51		
	SH	iZ	11 00 44		
Aug 12	MH	eZ	11 46 04		USCGS: O = 11 35 23 Central Peru.
	M	eZ	11 46 20		
	R	eZ	11 46 06		
Aug 12	B	iPZ	12 50 25.8	c	Berk. 36°54'N 121°39'W O = 12 50 06 M = 3.9 15 miles northwest of Hollister, Calif.
	MH	iPZ	12 50 15.9		
	PA	iZ	12 50 19.5		
	SF	eE	12 50 26.0		
	M	eZ	12 51 00.1		
	F	eZ	12 50 31.5		
	R	ePZ	12 50 56.8		
	SH	eZ	12 51 05.0		
Aug 12	B	iPZ	23 27 44		USCGS: 53°N 159°E O = 23 18 14 Near east coast of Kamchatka.
	MH	iZ	23 27 51		
	M	iZ	23 27 37		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 12	F	eZ	23 28 01		
	R	ePZ	23 27 49		
Aug 13	B	eZ	00 07 15		
		eN	31 22		
	MH	iZ	00 07 15		
	F	eZ	00 07 18		
	SH	eZ	00 06 52		
Aug 13	MH	iZ	01 29 42		
	SH	iZ	01 29 50		
Aug 14	B	iPZ	01 46 12		USCGS: 51°N 160½°E O = 01 36 43 Off southeast coast of Kamchatka.
	MH	eZ	01 46 18		
	M	iZ	01 46 03		
	F	eZ	01 46 28		
	R	eZ	01 46 15		
	SH	iZ	01 45 58		
Aug 14	MH	eZ	07 41 24		
	M	eZ	07 41 33		
	SH	eZ	07 41 32		
Aug 14	MH	eZ	14 12 02		USCGS: 18°S 179°W O = 14 01 01 d = 550Km Fiji Islands.
		eZ	14 12 02		
	F	eZ	14 14 08		
	R	eZ	14 14 18		
	SH	eZ	14 12 10		
		eZ	14 11		
Aug 14	MH	eZ	17 03 29		
	F	eZ	17 03 34		
	R	eZ	17 03 39		
	SH	eZ	17 03 29		
Aug 14	MH	eZ	20 33 56		
	SH	eZ	20 34 03		
Aug 14	MH	eZ(PP)	23 15 12		USCGS: O = 22 56 08 Ceram Sea
	SH	eZ	23 14 48		
Aug 15	B	iZ	05 51 04		USCGS: O = 05 38 40 Salta Province, Argentina.
	MH	iZ	05 51 00		
	M	iZ	05 51 10		
	F	iZ	05 50 52		
	R	iZ	05 51 03		
	SH	eZ	05 51 12		
Aug 15	MH	eZ	05 49 45		USCGS: O = 05 40 10 Near east coast of Kamchatka.
	M	eZ	05 49 30		
	F	eZ	05 49 56		
	R	eZ	05 49 41		
	SH	eZ	05 49 25		
Aug 15	B	iZ	00 10 16		
	MH	eZ	00 10 19		
	M	iZ	00 10 12		
	F	eZ	00 10 27		
	R	eZ	00 10 20		
	SH	iZ	00 10 09		
Aug 16	B	iZ	06 30 24.7		Pas. 39°N 119°W O = 06 29.7 M = 4.1 Nevada.
	MH	iZ	06 30 26.5		
	PA	eZ	06 30 29.9		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 16	SF	eE	06 31 23.9		
	M	eZ	06 30 20.3		
	F	iZ	06 30 25.4		
	R	iPZ	06 29 55.8	c	
Aug 16	M	eZ	11 02 18		
	SH	iZ	11 02 17		
Aug 16	B	iPZ	14 37 58		USCGS: 21°S 178½°W O = 14 26 44 d = 550 Km Fiji Islands.
	F	eZ	14 38 02		
	R	eZ	14 38 10		
	SH	iZ	14 38 06		
Aug 17	B	iPZ	04 54 06	c	USCGS: 21½°S 176°W O = 04 42 20 d = 150 Km Tonga Islands.
		ipPZ	54 43		
		ePPZ	56 58		
		eSZN	05 03 46		
		eE	07 07		
	MH	iPZ	04 54 06	c	
		ipPZ	54 43		
		iS	05 03 47		
	SF	eE	04 54 05		
		eE	05 03 44		
	M	iPZ	04 54 16	c	
		epPZ	54 53		
		eSZ	05 04 04		
		eZ	24 26		
	F	iPZ	04 54 10	c	
		eZ	54 48		
		iSNE	05 03 55		
	R	iPZ	04 54 20	c	
		ipPZ	54 59		
		iZ	57 03		
		iE	59 44		
		iSNE	05 04 13		
	A	eSN	05 03 55		
	Fe	eNE	05 03 54		
	C	iP	04 54 27		
		i	05 04 23		
	SH	iPZ	04 54 14	c	
		ipPZ	55 03		
		iPPZ	57 15		
Aug 18	MH	iPZ	15 12 31		USCGS: O = 15 04 48 About 350 miles northwest of Galapagos Islands.
	F	eZ	15 12 28		
	SH	eZ	15 12 55		
Aug 18	MH	eZ	18 07 33		USCGS: O = 17 58 06 Off southeast coast of Kamchatka.
	M	eZ	18 07 28		
	SH	eZ	18 07 23		
Aug 19	MH	iZ	20 15 53		
	SH	eZ	20 15 52		
Aug 19	B	ePZ	21 47 08.4		Berk.: 39°27'N 123°29'W O = 21 46 32 M = 3.2 6 miles northwest of Willits.
	MH	iPZ	21 47 13.2		
	PA	iPZ	21 47 08.7		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 19	SF	eE	21 47 11.2		
	M	iPZ	21 47 03.5		
	R	eZ	21 47 21.3		
	A	ePN	21 47 03.5		
Aug 20	SH	ePZ	21 46 58.3		
	B	ePZ	08 01 35.6		Pas. 37°40'N 118°40'W O = 08 00 45 M = 4.4 20 miles northwest of Bishop.
	MH	ePZ	08 01 27.8		
	PA	eZ	08 01 33.5		
	SF	eE	08 01 41.5		
	M	eZ	08 01 45.3		
	F	iZ	08 01 09.7		
	R	ePZ	08 01 25.4		
	SH	eZ	08 01 53.0		
Aug 21	B	iPZ	04 55 07.4		Berk.: 37°57'N 122°19'W O = 04 55 06 M = 2.1 Northwest of Berkeley.
	SF	iSE	04 55 13.9		
	MH	iPZ	04 55 22.2		
Aug 21	R	eZ	06 56 11		USCGS: 7°N 126½°E O = 06 38 33 Mindanao, Philippines
	SH	eZ	06 55 50		Chile.
Aug 21	MH	iZ	07 11 08		
	M	eZ	07 11 17		
	SH	iZ	07 11 20		
Aug 21	B	iZ	22 51 16.5		Berk.: 36°28'N 121°20'W O = 22 50 49 40 miles south of Hollister.
	PA	iPZ	22 51 11.1		
	SF	eS	22 51 37.6		
	F	ePZ	22 51 10.9		
Aug 21	B	iPZ	23 00 30		USCGS: 72°N 13°W O = 22 51 00 Jan Mayen Island region.
	M	iZ	23 00 35		
	F	eZ	23 00 22		
Aug 22	M	eZ	03 01 36		USCGS: O = 02 51 42 Jan Mayen aftershock.
	F	eZ	03 01 57		
	R	eZ	03 01 37		
	SH	eZ	03 01 35		
Aug 22	B	eZ	10 50 55.3		Nevada aftershock.
	PA	eZ	10 50 58.1		
	SF	eE	10 51 29.2		
	M	iPZ	10 50 57.5		
	F	ePZ	10 50 51.1		
	R	ePZ	10 50 27.5		
	SH	eZ	10 51 09.5		
Aug 22	B	eZ	13 38 03		Berk. O = 13 37 22 38°6'N 119°4'W East of Markleeville
	MH	ePZ	13 38 03		
	PA	ePZ	13 38 06.9		
	SF	eZ	13 38 38.9		
	M	iPZ	13 38 06.1		
	F	ePZ	13 37 59.6		
	R	iPZ	13 37 41.2		
Aug 22	M	eZ	14 20 35		USCGS: O = 14 09 05 Samoa Islands.
	F	eZ	14 20 26		
Aug 22	M	eZ	18 25 54		USCGS: 21°N 145°E O = 18 13 43 Marianas Islands.
	F	eZ	18 26 08		
	SH	eZ	18 25 46		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 23	B	ePZ	07 58 40.8		Berk.: O = 07 58 34 d = 10 Km 37°13'N 121°31'W M = 3¼
	PA	iPZ	07 58 34.8		15 miles south east of Mt. Hamilton.
	SF	ePZ	07 58 41.1		USCGS: 18°N 83°W O = 12 04 30 Near coast of Panama.
Aug 23	B	iPZ	12 13 00.2		
	M	ePZ	12 13 03		
	F	ePZ	12 12 40		
	R	ePZ	12 12 54		
	SH	eZ	12 13 06		
Aug 23	M	eZ	14 44 04		Panama aftershock.
Aug 23	M	eZ	15 03 09		USCGS: 61°N 148½°W O = 14 57 34 Kenai Peninsula, Alaska.
	F	eZ	15 03 45		Berk. 39°35'N 118°27'W O = 05 51 32 M = 6.8 Fallon, Nevada.
	SH	eZ	15 03 04		
Aug 24	B	iPZ	05 52 24.0	d	
		iSEN	53 01.3		
	MH	iPZ	05 52 23.2	d	
	PA	iPZ	05 52 26.3	d	
	SF	ePE	05 52 26.6		
	M	iPZ	05 52 13.7	c	
	F	iPZ	05 52 18.7	d	
	R	iPZ	05 51 51.3	c	
	A	eE	05 52 43.0		
	Fe	eE	05 52 48		
	C	iP	05 53 08		
	SH	iPZ	05 52 22.8	c	
Aug 24	B	iPZ	06 15 42.1		Fallon aftershock. M = 4.1
	MH	iPZ	06 15 42.6		
	PA	ePZ	06 15 51.6		
	M	iPZ	06 15 30.5	c	
	F	iPZ	06 15 42.3		
	R	iPZ	06 15 08.8		
	SH	ePZ	06 15 40.8		
Aug 24	B	ePZ	06 33 23.0		Fallon aftershock. M = 4.4
	MH	iPZ	06 33 24.0		
	SF	eE	06 34 21.2		
	M	iPE	06 33 16.8		
	F	iPZ	06 33 23.8		
	R	iPZ	06 32 50		
	SH	ePZ	06 33 22.2		
Aug 24	B	iPZ	06 36 55.1		Fallon aftershock. M = 4.4
	MH	iPZ	06 36 56.4		
	PA	iPZ	06 36 57.9		
	SF	iE	06 36 56.5		
	M	iPZ	06 36 42.7		
	F	iPZ	06 36 57.3		
	R	iPZ	06 36 21.4	c	
	SH	iPZ	06 36 53.0		
Aug 24	B	ePZ	06 55 02.8		Fallon aftershock. M = 4.3
	MH	iPZ	06 54 58.6		
	M	iPZ	06 54 50.7		
	SF	eE	06 55 13.0		
	F	iPZ	06 55 01.9		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 24	R	iPZ	06 54 29.4	c	
	SH	iPZ	06 55 00.5		
Aug 24	B	iPZ	14 48 18.9		Fallon aftershock. M = 4.0
	PA	ePZ	14 48 17.7		
	SF	eE	14 49 05.0		
	M	iPZ	14 48 00.1		
	F	ePZ	14 48 09.9		
	R	iPZ	14 47 37.3	c	
	SH	iPZ	14 48 09.4		
Aug 24	B	ePZ	21 21 46.1		Fallon aftershock. M = 4.4
	MH	iPZ	21 21 45.7		
	PA	ePZ	21 21 49.4		
	M	iPZ	21 21 34.4		
	F	ePZ	21 21 47.6		
	R	iPZ	21 21 12.5		
	SH	eZ	21 21 42.9		
Aug 25	B	ePZ	02 18 04.6		Fallon aftershock. M = 4.8
	MH	iPZ	02 18 04.0		0 = 02 17 13
	PA	iPZ	02 18 06.8		
	M	iPZ	02 17 51.6		
	F	PZ	02 18 00.0		
	R	iPZ	02 17 30.0	d	
	A	eE	02 18 34		
	C	eP	02 18 47		
	SH	iPZ	02 18 00.6		
Aug 25	B	ePZ	02 50 51.9		Fallon aftershock.
	MH	iPZ	02 50 51.5		
	PA	ePZ	02 50 53.6		
	M	iPZ	02 50 41.0		
	F	ePZ	02 50 53.0		
	R	iPZ	02 50 17.8		
	SH	ePZ	02 50 50.3		
Aug 25	B	ePZ	12 13 48.1		Fallon aftershock
	MH	iPZ	12 13 45.5		
	PA	ePZ	12 13 58.2		
	M	iPZ	12 13 33.7		
	F	ePZ	12 13 47.6		
	SH	ePZ	12 13 42.8		
Aug 25	B	iPZ	22 22 03.8		Fallon aftershock. M = 4.7
	MH	iPZ	22 22 02.0		
	PA	ePZ	22 22 05.7		
	SF	eE	22 22 15.1		
	M	iPZ	22 21 53.2		
	F	ePZ	22 22 01.3		
	R	ePZ	22 21 28.8	c	
	C	eP	22 22 55		
	SH	iPZ	22 22 03.2		
Aug 26	B	ePZ	09 25 49.6	c	Berk. 36°53'N 121°38'W
	MH	iPZ	09 25 39.5		0 = 09 25 30 M = 2-3/4
	PA	iPZ	09 25 42.4		15 miles northwest of Hollister.
	SF	ePE	09 25 49.5		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 26	B	ePZ	09 29 09.7		Berk., 36°53'N 121°38'W
	MH	iPZ	09 28 59.0		0 = 09 28 49 M = 2-3/4
	PA	iPZ	09 29 01.6		15 miles northwest of Hollister
	SF	ePE	09 29 09.4		
Aug 26	B	iPZ	12 45 20.5		Fallon aftershock. M = 4.2
	MH	iPZ	12 45 09.5		
	PA	iPZ	12 45 20.9		
	SF	eE	12 46 05.7		
	M	ePZ	12 44 59.3		
	F	ePZ	12 45 10.2		
	R	iPZ	12 44 35.7	c	
	SH	iPZ	12 45 09.3		
Aug 26	B	iPZ	12 57 06.8		Fallon aftershock. M = 4.6
	MH	iPZ	12 57 04.5		
	PA	iPZ	12 57 09.0		
	SF	eE	12 57 16.9		
	M	ePZ	12 56 54		
	F	ePZ	12 57 07.9		
	R	iPZ	12 56 30.2	d	
	A	eE	12 57 44.8		
	C	eP	12 57 47		
	SH	eZ	12 57 03.1		
Aug 26	B	iPZ	13 49 09.9		Pas. 33°55'N 119°30'W
	MH	iPZ	13 48 59.5		0 = 13 48 03 M = 4.8
	PA	iPZ	13 49 03.6		Near Los Angeles.
	SF	eE	13 49 59.6		
	M	ePZ	13 49 02.3		
	F	ePZ	13 48 47.3		
	SH	ePZ	13 49 46.8		
Aug 27	B	ePZ	07 05 56.3		Fallon aftershock. M = 4.0
	PA	ePZ	07 05 58.9		
	SF	eE	07 06 39.2		
	M	ePZ	07 05 41.6		
	F	iPZ	07 05 58.7		
	R	ePZ	07 05 21.8		
	SH	ePZ	07 05 52.0		
Aug 27	B	iPZ	11 06 58.7	d	USCGS: 24 1/2°N 143°E
		eSNE	16 59		0 = 10 55 02 d = 100 Km
		ePPS	18 22		Volcano Islands. M = 6.7(Pas)
		eL	31.0		
	M	ePZ	11 06 56	d	
	F	ePZ	11 07 10	d	
	R	ePZ	11 07 06	d	
	SH	iPZ	11 06 53	d	
Aug 27	M	ePZ	12 31 21		Jan Mayen aftershock
	F	ePZ	12 31 43		0 = 12 21 27
	R	ePZ	12 31 24		
Aug 28	MH	iPZ	04 00 04		USCGS: 24°N 142°E
	M	iPZ	03 59 59		0 = 03 47 58 d = 60 Km
	F	eZ	04 00 11		Volcano Islands
	R	eZ	04 00 06		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks	
1954			h. m. s.			
Aug 28	SH	eZ	03 59 56		Fallon aftershock. M = 4.0	
Aug 28	B	ePZ	04 52 27.6			
	MH	iPZ	04 52 25.3			
	PA	ePZ	04 52 31.5			
	F	ePZ	04 52 30.9			
	SF	eE	04 53 28.5			
	R	ePZ	04 51 52.6			
	SH	ePZ	04 52 24.7			
Aug 28	B	ePZ	10 12 54			USCGS: 37°N 141°E O = 10 01 20 Near east coast of Honshu, Japan.
	MH	ePZ	10 12 55			
	M	ePZ	10 12 47			
	F	ePZ	10 13 07			
	R	iPZ	10 12 59			
	SH	ePZ	10 12 44			
Aug 28	MH	ePZ	13 57 30			
	SH	ePZ	13 57 42			
Aug 28	B	iPZ	19 40 55.1		Berk. 38°02' 122°31' M = 1.7 O = 19 40 50 18 miles northwest of Berkeley	
	MH	iP*Z	19 41 04.1			
	PA	iP*Z	19 41 03.9			
	SF	ePE	19 40 55.5			
Aug 29	B	iPZ	03 10 43.6		Fallon aftershock. M = 4.2	
	MH	iPZ	03 10 38.4			
	PA	iPZ	03 10 46.5			
	SF	eE	03 10 50.3			
	M	eZ	03 10 31.5			
	F	iPZ	03 10 44.9			
	R	ePZ	03 10 10.1			
	C	eP	03 11 26			
	SH	ePZ	03 10 41.3			
Aug 29	B	iPZ	03 42 01.1			Fallon aftershock. M = 4.7
	MH	iPZ	03 41 55.8			
	PA	iPZ	03 42 03.4			
	SF	eE	03 42 04.6			
	M	iPZ	03 41 49.0			
	F	ePZ	03 41 56.2			
	R	ePZ	03 41 27.1	d		
	A	eE	03 42 29			
	C	eP	03 42 43			
	SH	ePZ	03 41 58.2			
Aug 29	B	iPZ	03 59 00.2		Fallon aftershock. M = 4.8	
	MH	iPZ	03 58 55.5			
	PA	iPZ	03 59 02.6			
	SF	eE	03 59 05.3			
	M	ePZ	03 58 47.7			
	F	ePN	03 59 01.6			
	A	ePE	03 59 38			
	R	iPZ	03 58 27.6	d		
	C	eP	03 59 42			
	SH	ePZ	03 58 57.3			
Aug 29	B	ePZ	01 10 40.4		Fallon aftershock. M = 3.8	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks	
1954			h. m. s.			
Aug 29	MH	ePZ	01 10 28.8		d	
	PA	ePZ	01 10 45.8			
	M	ePZ	01 10 18.1			
	F	ePZ	01 10 32.9			
	R	iPZ	01 09 56.8			
	SH	ePZ	01 10 28.5			
Aug 30	B	ePZ	08 08 03			USCGS: 44°N 147½°E O = 07 57 25 M = 6¼ d = 60 Km Kurile Islands.
		eZ	08 19			
		eNE	16 43			
	MH	ePZ	08 08 06			
		eZ	08 22			
	M	eZ	08 07 55			
	F	eZ	08 08 16			
	R	ePZ	08 08 07			
	C	eP	08 07 32			
	SH	ePZ	08 07 41			
Aug 30	B	ePZ	11 16 31.9		Fallon aftershock. M = 4.1	
	MH	ePZ	11 16 29.6			
	PA	ePZ	11 16 34.7			
	SF	eE	11 16 43.8			
	M	ePZ	11 15 19.7			
	F	iPZ	11 16 30.8			
	R	ePZ	11 15 57.3			
	SH	iPZ	11 16 29.8			
Aug 30	B	iPZ	19 12 49.6			Fallon aftershock. M = 4.1
	PA	ePZ	19 12 52.4			
	SF	eE	19 13 06.8			
	M	ePZ	19 12 36.9			
	F	iPZ	19 12 50.7			
	R	ePZ	19 12 16.4			
	SH	ePZ	19 12 47.4			
Aug 30	B	ePZ	19 57 54.8		Fallon aftershock. M = 4.1	
	PA	ePZ	19 58 06.8			
	SF	eE	19 59 00.5			
	M	iPZ	19 57 42.8			
	F	ePZ	19 57 56.2			
	R	ePZ	19 57 21.4			
	SH	ePZ	19 57 51.9			
Aug 31	B	ePZ	13 29 54.4			Fallon aftershock. M = 3.9
	PA	iPZ	13 30 06.4			
	SF	eE	13 30 06.2			
	M	ePZ	13 29 43.4			
	F	ePZ	13 29 55.6			
	R	iPZ	13 29 20.8			
	C	eP	13 30 58			
	SH	ePZ	13 29 53.0			
Aug 31	B	ePZ	13 35 06.0		Fallon aftershock. M = 4.0	
	PA	iPZ	13 35 09.3		d	
	SF	eE	13 35 09.1			
	M	ePZ	13 34 48.9			

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Aug 31	F	iPZ	13 35 00.6		
	R	ePZ	13 34 25.9		
	SH	ePZ	13 34 58.4		
Aug 31	B	iPZ	22 20 21.8		Fallon aftershock. M = 4.4
	PA	ePZ	22 20 24.5		
	SF	eE	22 20 33.4		
	M	ePE	22 20 10.3		
	F	ePZ	22 20 23.7		
	R	iPZ	22 19 48.2	d	
	A	eE	22 20 51		
	SH	ePZ	22 20 17.3		
	C	eP	22 21 02		
Aug 31	B	iPZ	22 21 27.3		USCGS: 39 $\frac{1}{2}$ °N 118 $\frac{1}{2}$ °W
	SF	eE	22 21 34.8		O = 22 20 32 M = 6 $\frac{1}{2}$ Pas.
	M	iE	22 21 19		Near Fallon, Nevada.
	F	iPZ	22 21 28.8		Readings overlap preceding tremor.
	A	eE	22 21 59.9		
	C	e	22 22 12		
Sept 1	B	ePZ	05 19 39.0	d	USCGS: 39 $\frac{1}{2}$ °N 118 $\frac{1}{2}$ °W
	PA	iPZ	05 19 42.1		O = 05 18 47 M = 5.7 (Pas)
	SF	eE	05 19 42.4		Near Fallon, Nevada.
	F	iPZ	05 19 35.2		
	R	iPZ	05 19 05.9	c	
	A	eN	05 20 00.5		
	M	eE	05 19 28.9		
	C	eP	05 20 24		
Sept 1	SH	iPZ	05 19 38.1		Fallon aftershock. M = 4.3
	B	ePZ	11 30 14.7		
	PA	ePZ	11 30 17.4		
	SF	eE	11 30 26.8		
	M	eE	11 30 03.6		
	F	ePZ	11 30 15.5		
	R	ePZ	11 29 41.1	d	
	C	eP	11 31 15.		
Sept 1	SH	ePZ	11 30 12.5		BCIS: 48 3/4°N 154°E
	SH	ePZ	12 35 31		O = 12 25 41
	C	e	12 46(56)		Kurile Islands
Sept 2	B	ePZ	07 54 15.3		Fallon aftershock. M = 3.9
	PA	ePZ	07 54 13.6		
	SF	eE	07 54 29.6		
	M	eE	07 53 59.3		
	F	ePZ	07 54 01.2		
	R	iPZ	07 53 36.2		
Sept 2	SH	ePZ	07 54 07.4		Fallon aftershock
	B	ePZ	13 27 45.7		
	PA	ePZ	13 27 48.3		
	SF	eE	13 27 54.9		
	M	eE	13 27 30.3		
	F	iPZ	13 27 44.9		
	R	iPZ	13 27 03.2	d	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 2	SH	eN	13 27 40.4		
	C	eP	13 28 32		
Sept 2	B	iPZ	19 03 47	c	USCGS: 10°S 166°E
	M	iPZ	19 03 52		O = 18 51 29 d = 100 Km
	F	iPZ	19 03 54		Santa Cruz Islands
	R	ePZ	19 03 59		
	C	iP	19 03 54		
Sept 3	SH	iPZ	19 03 50		
	M	iPZ	03 07 28		
	F	ePZ	03 07 23		
	R	ePZ	03 07 31		
	SH	iPZ	03 07 26		
Sept 4	B	ePZ	03 42 10		USCGS: 3°S 139 $\frac{1}{2}$ °E
		ePSZ	03 55 02		O = 03 28 32 d = 60 Km M = 6 $\frac{1}{4}$
		eLE	04 13		
	M	ePZ	03 42 09		
	F	ePZ	03 42 18		
	R	ePZ	03 42 16		
Sept 4	SH	ePZ	03 42 08		Fallon aftershock. M = 4.0
	B	iPZ	04 25 14.2		
	PA	ePZ	04 25 16.8		
	SF	eE	04 26 23		
	M	ePZ	04 25 00.9		
	F	ePZ	04 25 16.5		
	R	iPZ	04 24 40.6	d	
Sept 4	SH	ePZ	04 25 09.3		USCGS: 11 $\frac{1}{2}$ °S 166°E
	B	ePZ	13 24 14		O = 13 11 49
	M	ePZ	13 24 28		Santa Cruz Islands.
	R	ePZ	13 24 38		
Sept 4	SH	eZ	13 24 26		
	B	iPZ	18 33 45.5		Berk. O = 18 33 40 M = 3.1
		iS	52.0		37°46'N 121°57' W
					20 miles southeast of Berkeley.
	MH	S-P	7. ^s 1		
	PA	iPZ	18 33 48.1		
	SF	eE	18 33 47.9		
Sept 4	F	ePZ	21 18 05		
	R	ePZ	21 17 51		
	SH	ePZ	21 17 33		
Sept 5	B	ePZ	07 57 54		USCGS: 19°S 176°E
		eSE	08 08 13		O = 07 45 31 M = 6 $\frac{1}{2}$ (Pas)
		iN	09 04		Fiji Islands regions.
	M	ePZ	07 58 03		
	F	ePZ	07 58 00		
	C	eP	07 58 11		
Sept 5	SH	iPZ	07 58 01		Fallon aftershock. M = 4.4
	B	ePZ	20 16 52.9		
	PA	ePZ	20 16 52.1		
	SF	eE	20 17 03.1		
	M	iPZ	20 16 40.0		
	F	ePZ	20 16 51.5		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 5	R	iPZ	20 16 18.2	c	
	SH	iPZ	20 16 50.1		
Sept 6	F	eZ	18 06 58		
	SH	eZ	18 06 51		
Sept 6	B	ePZ	18 40 25	d	USCGS: 51°N 158°E
		ipPZ	41	c	O = 18 30 48 d = 60 Km M = 6½(Pas)
		eSN	48 08		Near southeast coast of Kamchatka.
		iE	54 24		
	F	ePZ	18 40 40		
		iZ	54		
	R	ePZ	18 40 28		
		iZ	45		
		eSE	48 17		
	C	eP	18 39 48		
	SH	ePZ	18 40 09		
		eZ	26		
		eSN	47 45		
Sept 6	F	eZ	19 10 15		Pasadena calls these P'P' from the preceding Kamchatka earthquake.
	SH	eZ	19 09 59		
Sept 7	F	ePZ	07 26 06		USCGS: O = 07 14 05
	R	ePZ	07 26 14		Fiji Islands.
	SH	iPZ	07 26 08		
Sept 8	B	iPZ	07 18 22.2		Fallon aftershock. M = 4.3
	MH	iPZ	07 18 21.1		
	PA	iPZ	07 18 24.7		
	SF	ePE	07 18 33.3		
	M	iPZ	07 18 09.2		
	F	ePZ	07 18 22.4		
	R	ePZ	07 17 48.4	d	
	SH	ePZ	07 18 18.6		
Sept 8	MH	iPZ	17 42 07		USCGS: O = 17 31 03
	F	ePZ	17 41 56		d = 100 Km Southern Peru
	R	ePZ	17 42 10		
	SH	ePZ	17 42 19		
Sept 9	B	ePZ	01 13 56	d	USCGS: 20½°S 177°W
		eZ	14 40	c	O = 01 02 16 d = 200 Km
		iPZ	01 13 56	c	Tonga Islands.
		iZ	14 42	c	
	M	iPZ	01 14 05		
		iZ	14 50		
	F	ePZ	01 13 59	c	
		eZ	14 46		
	R	ePZ	01 14 10		
		eZ	54		
	SH	iPZ	14 04		
		eZ	48		
Sept 9	B	ePZ	01 17 39	c	USCGS: 36°N 1½°E
		eZ	21 09		O = 01 04 37 M = 6 3/4(Pas)
		eSN	28 20		Northern Algeria.
	MH	ePZ	01 17 41		
	M	iPZ	01 17 29	c	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 9	F	ePZ	01 17 38		
	R	ePZ	01 17 29		
		eSE	28 07		
	C	iP	01 17 21		
		eS	27 53		
	SH	ePZ	01 17 29		
		eSE	27 59		
Sept 9	M	ePZ	03 51 58		USCGS: O = 03 43 55
					Central Nigeria.
Sept 9	B	ePZ	09 22 03.4		Fallon aftershock. M = 4.7
	MH	ePZ	09 22 03.2		
	PA	iPZ	09 22 06.5		
	SF	eE	09 22 14.1		
	M	iPZ	09 21 50.6		
	F	iPZ	09 22 05.4		
	A	eN	09 22 27.2		
	R	ePN	09 21 29.4		
	C	eP	09 22 45		
	SH	iPZ	09 21 59.9		
Sept 9	M	ePZ	09 11 33		Northern Algeria aftershock.
Sept 9	B	iPZ	14 31 59		
	MH	iPZ	14 32 01		
	M	ePZ	14 31 58		
	F	ePZ	14 32 10		
	R	ePZ	14 32 07		
	SH	iPZ	14 31 55		
Sept 9	MH	iPZ	15 11 59		
	SH	ePZ	15 11 52		
Sept 9	MH	ePZ	18 07 09		USCGS: O = 17 57 03
	M	ePZ	18 07 12		Near coast of Venezuela.
	SH	ePZ	18 07 15		
Sept 9	B	iPZ	22 32 31.0		Fallon aftershock. M = 4.4
	MH	iPZ	22 32 29.6		
	PA	ePZ	22 32 34.3		
	SF	eE	22 32 42.4		
	M	ePZ	22 32 12.4		
	F	ePZ	22 32 32.4		
	R	iPZ	22 31 57.4		
	A	eE	22 34 01.0		
	SH	iPZ	22 32 29.8		
Sept 10	B	ePZ	05 57 06		USCGS: 36°N 2°E
		eSN	06 07 38		O = 05 44 04
					Northern Algeria aftershock.
	MH	iPZ	05 57 07		
	M	iPZ	05 56 55		
	F	ePZ	05 57 04		
	R	iPZ	05 56 55		
	SH	iPZ	05 56 54		
Sept 12	B	iPZ	00 09 58		USCGS: O = 23 57 54(Sept 11)
	MH	iPZ	00 09 55		d = 60 Km Bonin Islands
	SH	iPZ	00 09 50		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks		
1954			h. m. s.				
Sept 12	B	iPZ	07 54 59	c	USCGS: 41°N 143°E 0 = 07 43 50 M = 6 1/4 Pas. Off south coast of Hokkaido, Japan.		
		eSNE	08 04 09				
	MH	iPZ	07 54 48	c			
	M	iPZ	07 54 52	c			
	F	ePZ	07 55 13				
Sept 13	R	ePZ	07 55 04	c	USCGS: 23 1/2°S 178°W 0 = 02 00 26 d = 150 Km. Tonga Islands region.		
	SH	iPZ	07 54 49	c			
	MH	iPZ	02 12 26				
	M	iPZ	02 12 34				
	F	ePZ	02 12 31				
Sept 13	SH	ePZ	02 12(35)		USCGS: 21°S 175 1/2°W 0 = 02 09 55 d = 150Km M = 6 3/4(Pas) Tonga Islands region.		
	B	ePZ	02 21 40	d			
		eZ	22 24				
		iZ	25 13				
		iSE	31 18				
	MH	iPZ	02 21 35	d			
	M	ePZ	02 21 49	d			
	F	ePZ	02 21 45	d			
		eSN	31 27				
	R	iPZ	02 21 54	d			
Sept 13	C	eSN	31 44		USCGS: 0 = 07 57 25 Southern Gulf of California		
		eP	02 22 01				
		eS	31 56				
	SH	iPZ	02 21 49	d			
	MH	iPZ	08 01 34				
Sept 14	M	ePZ	08 01 58		USCGS: 0 = 07 20 07 Ryukyu Islands region.		
	R	ePZ	07 32 56				
Sept 14	SH	iPZ	07 32 54		Fallon aftershock.		
	B	ePZ	16 19 52.0				
	MH	iPZ	16 19 51.0				
	PA	ePZ	16 19 55.0				
	SF	eE	16 20 02.4				
	M	iPZ	16 19 42.6				
	F	ePZ	16 19 46.7				
	R	iPZ	16 19 20.7				
	A	eN	16 21 28.3				
	C	eP	16 20 39				
	SH	iPZ	16 19 51.2				
	Sept 15	B	ePZ	06 47 49			USCGS: 4 1/2°S 82°W 0 = 06 38 04 d = 60 Km. Near coast of Peru.
		MH	ePZ	06 47 40			
M		ePZ	06 47 53				
F		ePZ	06 47 39				
SH		ePZ	06 47 56				
Sept 15	B	eZ	13 24 06		USCGS: 26°N 110°W 0 = 13 20 15 Gulf of California		
	MH	ePZ	13 23 53				
	M	ePZ	13 24 25				
	F	ePZ	13 23 38				
	R	iPZ	13 24 07				
Sept 15	SH	ePZ	13 24 34				
	MH	eZ	14 36 55				
	F	eZ	14 37 13				

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 15	R	eZ	14 37 23		
	SH	eZ	14 37 17		
Sept 15	B	iPZ	18 07 05	c	USCGS: 18°S 178 1/2°W 0 = 17 56 08 d = 600 Km. M = 7(Pas) Fiji Islands.
		iZ	09 06		
		iSZ	16 10		
	MH	iPZ	18 07 06	c	
		iZ	09 08		
		eSZ	16 09		
	M	iPZ	18 07 15		
	F	iPZ	18 07 11	c	
		iZ	08 10		
	R	iPZ	18 07 19	c	
Sept 16		iZ	09 21		Berk. 37°18'N 120°01'W 0 = 04 51 04 M = 2.5 25 miles east of Merced, Calif.
		iSZ	16 09		
	SF	eE	18 07 05		
		eE	08 04		
		eE	16 06		
	C	iP	18 07 19		
		eS	16 42		
	SH	iPZ	18 07 13	c	
		iZ	09 14		
		eSE	16 23		
Sept 17	MH	iPZ	04 51 27.3		USCGS: 4 1/2°S 153 1/2°E 0 = 01 13 08 New Ireland region.
		eS	51 44.1		
	PA	ePZ	04 51 38.6		
	M	ePZ	04 51 56.4		
	F	iPZ	04 51 14.9		
Sept 17	R	ePZ	04 51 43.3		USCGS: 25°N 122°E 0 = 07 33 25 Near north coast of Formosa.
	B	eZ	01 26 31		
	MH	eZ	01 26 11		
	M	eZ	01 26 11		
	F	eZ	01 26 33		
	R	eZ	01 26 38		
	SH	eZ	01 25 56		
	B	eZ	07 46 42		
	MH	iZ	07 46 45		
	M	eZ	07 46 37		
Sept 17	R	eZ	07 46 44		USCGS: 20 1/2°S 177 1/2°W 0 = 11 03 19 M = 7 - 7/4(Pas) Fiji Islands region d = 250 Km.
	C	eP	07 46 23		
	SH	eZ	07 46 34		
	B	iPZ	11 14 53	d	
		eZ	15 55		
		iSZ	24 35		
		iP'P'Z	41 52		
	MH	iPZ	11 14 54	d	
		iZ	15 55		
		eSN	23 34		
SF	eP'P'Z	41 51			
Sept 17		eE	11 14 53		
		eE	24 31		
	F	iPZ	11 14 58	d	

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 17	M	iZ	16 02	d	
		eSN	24 42		
		eP'P'Z	42 00		
		iPZ	11 15 04		
		iZ	16 07		
	R	iP'P'Z	41 44	d	
		ePZ	11 15 06		
		iZ	16 11		
	A	eSN	24 58		
		eN	24 39		
Fe	iE	11 24 44			
	iP	11 15 15			
C	iS	25 14			
	iPZ	11 15 03			
Sept 17	SH	eSN	24 47	d	
		eP'P'Z	41 53		
	B	ePZ	14 57 05		USCGS: 0 = 14 45 00
	MH	iPZ	14 57 10		Bonin Islands
Sept 18	M	eZ	14 57 02		
	F	eZ	14 57 25		
	SH	iZ	14 56 59		
	MH	ePZ	05 05 16		USCGS: 0 = 04 55 20
Sept 18	M	eZ	05 05 16		
	SH	eZ	05 05 20		
	B	ePZ	15 43 39		USCGS: 0 = 15 30 10
	MH	iPZ	15 43 43		Palau Island
Sept 18	M	eZ	15 43 39		
	F	eZ	15 43 49		
	R	ePZ	15 43 47		
	C	eP	15 43 33		
	SH	eZ	15 43 34		
	MH	ePZ	18 34 54		USCGS: 0 = 18 24 50
Sept 18	M	iZ	18 34 41		
	SH	eZ	18 34 36		
	MH	ePZ	00 20 12		USCGS: 53°N 35½°W
Sept 20	M	eZ	00 19 55		
	F	eZ	00 20 07		
	R	eZ	00 19 49		
	SH	eZ	00 19 59		
Sept 20	MH	eZ	00 57 40		
	M	eZ	00 58 08		
	F	eZ	00 58 17		
	R	eZ	00 58 13		
Sept 20	SH	eZ	00 57 24		
	B	eZ	08 17 08		USCGS: 20½°S 179½°W
	MH	iPZ	08 17 09		0 = 08 06 00 d = 600 Km
	M	eZ	08 17 17		Fiji Islands.
	F	eZ	08 17 13		
	R	ePZ	08 17 21		
	SH	ePZ	08 17 16		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 20	B	iPZ	17 16 51		USCGS: 21°S 178°W 0 = 17 05 40 d = 550 Km Tonga Islands
	MH	ePZ	17 16 51		
	M	ePZ	17 17 00		
	F	ePZ	17 16 56		
	R	ePZ	17 17 03		
Sept 21	SH	eZ	17 16 59		USCGS: 0 = 03 40 22 Sumbawa Island.
	MH	iPZ	03 58 55		
	M	iZ	03 58 53		
	F	eZ	03 58 58		
Sept 21	R	eZ	03 58 57		USCGS: 0 = 09 41 50 Marianas Island
	SH	eZ	03 58 50		
	MH	iPZ	09 54 21		
	M	iZ	09 54 18		
Sept 21	F	eZ	09 54 30		
	R	eZ	09 54 26		
	SH	eZ	09 54 14		
	MH	iPZ	14 43 47		
Sept 21	F	eZ	14 43 52		
	R	eZ	14 43 57		
	SH	eZ	14 43 50		
	B	iPZ	14 59 45		
Sept 22	MH	iPZ	14 59 50		
	M	eZ	14 59 58		
	F	eZ	14 59 57		
	R	ePZ	15 00 01		
Sept 22	SH	eZ	14 59 54		Berk. 40°1N 125°8W M = 3.5 0 = 06 58 43 110 miles southwest of Arcata
	MH	ePZ	06 59 47.6		
	PA	ePZ	06 59 42.7		
	SH	ePZ	06 59 26.1		
Sept 22	M	ePZ	06 59 33.7		Pas. 37°40'N 118°40'W 0 = 07 01 55 M = 4.1 35 miles northwest of Bishop
	B	ePZ	07 02 45.2		
	MH	ePZ	07 02 38.1		
	PA	ePZ	07 02 45.6		
Sept 22	M	ePZ	07 03 02.5		
	F	ePZ	07 02 19.3		
	R	ePZ	07 02 38.0		
	SH	ePZ	07 03 15.3		
Sept 22	MH	iPZ	13 40 32		
	M	ePZ	13 40 49		
	R	ePZ	13 40 38		
	SH	ePZ	13 40 53		
Sept 22	MH	iPZ	21 53 49.1		Berk. 37°29'N 118°57'W 0 = 21 53 08 M = 3.5 20 miles northwest of Bishop
	R	ePZ	21 53 46.5		
	F	ePZ	21 53 30.9		
	B	ePZ	08 13 01.3		
Sept 23	MH	iPZ	08 12 52.3		Fallon aftershock. M = 3.8
	PA	iPZ	08 13 05.3		
	SF	eE	08 13 51.0		
	M	ePZ	08 12 41.6		
	F	iPZ	08 12 54.4		
	R	iPZ	08 12 19.6		
	SH	iPZ	08 12 51.4		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 23	B	ePZ	21 53 34		USCGS: 49°N 156°E 0 = 21 43 36 Kurile Islands
		eSN	22 01 27		
	MH	ePZ	21 53 33		
	M	eZ	21 53 17		
	F	eZ	21 53 43		
	R	ePZ	21 53 32		
Sept 25	SH	eZ	21 53 15		Berk. 37°26'N 121°45'W 0 = 15 51 55 M = 2.8 8 miles northwest of Mount Hamilton
	B	iPZ	15 52 06.9		
	MH	iPZ	15 51 57.4		
	PA	iPZ	15 52 01.7		
Sept 25	SF	iPZ	15 52 07.8		USCGS: 19°N 70°W 0 = 19 22 17 Dominican Republic
	MH	iPZ	19 31 02		
	M	ePZ	19 31 04		
	F	ePZ	19 30 50		
	SH	ePZ	19 31 08		
Sept 27	B	iPZ	04 19 53		USCGS: 0 = 04 07 40 Fiji Islands regions
	MH	iPZ	04 19 53		
	M	ePZ	04 20 18		
	F	ePZ	04 19 57		
	R	iPZ	04 20 06		
	SH	ePZ	04 20 08		
Sept 27	MH	iPZ	16 49 28		USCGS: 42½°N 142°E 0 = 16 38 20 d = 60 Km. Southern Hokkaido, Japan.
	M	ePZ	16 49 16		
	F	ePZ	16 49 37		
	R	ePZ	16 49 27		
	SH	ePZ	16 49 12		
Sept 28	B	ePZ	00 34 36		USCGS: 52°N 160°E 0 = 00 25 00 Off south coast of Kamchatka.
	MH	ePZ	00 34 41		
	M	eZ	00 34 25		
	F	eZ	00 34 44		
	R	eZ	00 35 31		
	SH	ePZ	00 34 19		
Sept 28	B	ePZ	13 04 29		USCGS: 15½°S 173°W 0 = 12 53 06 Samoa Islands region.
	MH	ePZ	13 04 29		
	M	ePZ	13 04 40		
	F	ePZ	13 04 34		
	R	ePZ	13 04 46		
	SH	ePZ	13 04 08		
Sept 28	B	ePZ	23 36 42		USCGS: 0 = 23 25 10 Pacific Ocean. 500 miles south-east of Easter Island
	MH	ePZ	23 36 38		
	M	ePZ	23 36 54		
	R	ePZ	23 36 47		
Sept 29	SH	ePZ	23 36 25		Pas: 37°5N 115°8W 0 = 03 48.0 M = 4.4 Lincoln County, Nevada
	B	ePZ	03 49 31		
	MH	ePZ	03 49 08		
	PA	ePZ	03 49 31		
	F	ePZ	03 48 56		
	M	ePZ	03 49 15		
	R	ePZ	03 49 00		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Sept 29	B	iPZ	08 35 51		USCGS: 0 = 08 23 49 Tonga Islands
	MH	iPZ	08 35 51		
	M	iPZ	08 36 01		
	F	ePZ	08 35 55		
	R	ePZ	08 36 05		
	SH	iPZ	08 36 01		

Bulletin of the Seismographic Stations

Volume 24, No. 4, pp. 149-189

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

Earthquakes and the Registration of Earthquakes

From October 1, 1954 to December 31, 1954

BY
W. G. MILNE

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES

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EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

The list following this page gives the latitude and longitude of epicenters for earthquakes well enough recorded to permit such a determination.

Map No. refers to the map immediately following the epicenter list.

Date and Origin Time are given in Greenwich Civil Time. Subtract eight (8) hours to get Pacific Standard Time. This will change the date for some of the earthquakes.

M refers to the Richter Magnitude, determined from trace amplitudes of the Wood-Anderson Seismographs, and using the nomogram given by Nordquist in the "Bulletin of the Seismological Society of America," 32:164.

Q represents the excellence with which the epicenter has been located, "a" indicating excellent, "b" good, "c" fair, and "d" poor.

Under Remarks will be found a short descriptive location of the epicenter, as well as information on small foreshocks and aftershocks, and the intensity of shocks which were reported felt. Reports on felt earthquakes are chiefly those collected by the United States Coast and Geodetic Survey, which publishes a more complete summary of such reports in "Abstracts of Earthquake Reports for the Pacific Coast and the Western Mountain Region." Intensities are given by Roman numerals 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:

- 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.
- VIII General fall of chimneys; great damage to poorly built structures.

Map No.	Date 1954	Origin Time (G.C.T.)	M	Latitude North	Longitude West	Q	Remarks
20	Nov. 22	05-19-23	2.7	36.9°	121.2°	d	12 miles east of Hollister.
21	25	11-06-15	3.8	40.7°	121.3°	c	35 miles northeast of Mineral.
22	25	11-16-35	6.1	40° 16'	125° 38'	b	75 miles west-southwest of Ferndale. Felt over an area of 9000 square miles of Mendocino and Humboldt counties. Maximum intensity V at Bridgeville, Eureka, Ferndale, Scotia.
23	26	10-38-35	3.3	37.3°	118.9°	b	West of Bishop.
24	Dec. 1	06-30-41	2.7	36° 43'	121° 29'	c	South-southwest of Hollister. V at Hollister.
25	7	04-32-36	4.6	40.5°	126°	d	West of Eureka and perhaps an after-shock of #22.
26	8	18-46-24	1.5	37° 40'	122° 23'	b	South of San Francisco. Possibly a blast.
27	10	00-30-49	3.0	37° 18'	121° 15'	a	21 miles southeast of Mt. Hamilton.
28	10	17-13-00	3.3	40° 33'	121° 22'	b	13 miles northeast of Mineral.
29	12	14-04-34	2.3	37° 00'	121° 45'	a	25 miles southwest of Mt. Hamilton.
30	13	02-16-11	1.9	37° 46'	122° 32'	a	Northwest of San Francisco.
31	13	10-49-26	3.6	39° 17'	120° 10'	b	Near Truckee. V at Norden.
32	14	17-17-19	3.7	39.9°	124.1°	c	West of Garberville.
33	14	18-46-36	2.8	40.3°	124.5°	c	West of Ferndale.
34	16	11-07-13	7.2	39° 19'	118° 12'	a	Major Nevada earthquake. Epicenter near Frenchman's Station, about 30 miles east-southeast of Fallon. Felt over an area of approximately 200,000 square miles. Maximum intensity X assigned to surface rupture in Dixie Valley-Fairview Peak area.
	16	11-11-28	7.1				Epicenter probably about 30 miles north of #34.
34	16	13-15-03	5.0	39° 19'	118° 12'	b	Aftershock of #34.
34	16	14-16-57	5.8	39.5°	118°	b	Aftershock of #34.
34	16	15-09-42	5.1	39.5°	118°	b	Aftershock of #34.

NEVADA SERIES OF EARTHQUAKES 1954 (Continued)

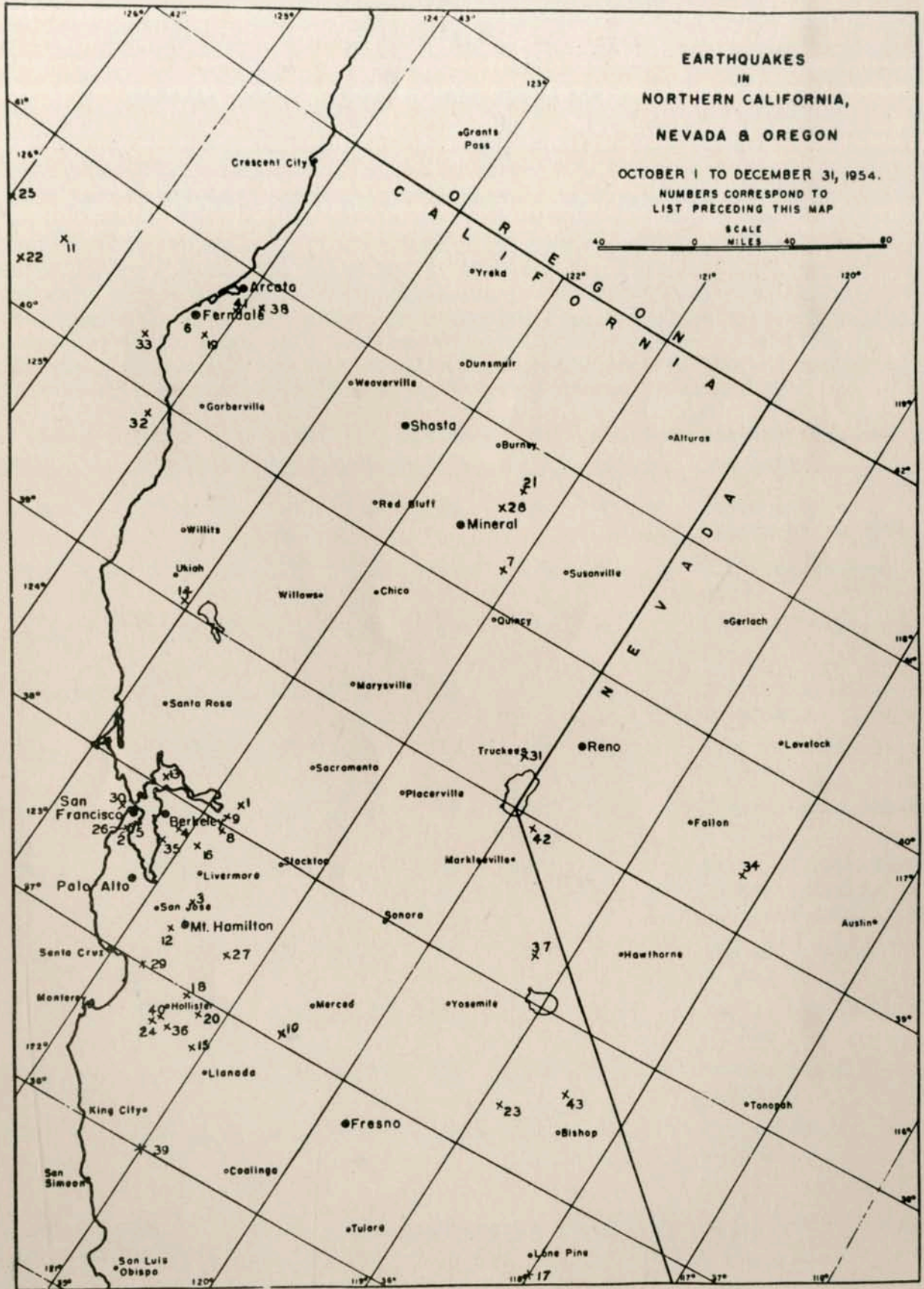
The following list of earthquakes in Nevada is a continuation of the series of shocks found in the preceding bulletin (Vol. 24, No. 3). These earthquakes are aftershocks of the two major Nevada earthquakes of July 6 and August 24, 1954. There are also some aftershocks of the December 16, 1954 earthquake listed following that date. The arbitrary lower limit of magnitude included in this list is approximately 4, so the current list cannot be considered a complete record of the aftershocks of the Nevada earthquake series.

Coordinates of Epicenter of the Major Earthquakes

<u>Date</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Magnitude</u>
July 6	39° 25' N	118° 32' W	6.8
Aug. 24	39° 35' N	118° 27' W	6.8
Dec. 16	39° 19' N	118° 12' W	7.2

Aftershock Series

<u>Date</u> 1954	<u>Origin Time</u> (G.C.T.)	<u>Magnitude</u>	<u>Remarks</u>
Oct. 2	22-15-34	3.8	
16	04-32-12	4.3	
20	19-54-05	4.4	
26	18-29-56	3.8	
Nov. 12	19-12-22	4.2	
13	22-06-25	4.2	
15	09-56-07	3.8	
Dec. 13	03-43-18	3.9	
16	11-07-13	7.2	Major Nevada earthquake. Felt over an area of 200,000 square miles of Nevada, California, Oregon, Idaho and Utah. Maximum intensity X assigned to the spectacular surface ruptures which occurred.
16	11-11-29	7.1	
16	13-15-03	5.0	
16	14-16-57	5.8	



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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.

<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</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° 34.6'	124° 15.7'	15	50	Fe	City of Ferndale - 1933
Fresno	36° 46.1'	119° 47.8'	88.4	290	F	Fresno State College - 1935
Mineral	40° 20.8'	121° 36.1'	1195	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:

- 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:

- 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
1954			h. m. s.		
Oct. 1	B	ePZ	03 07 59	d	USCGS: 11°S 166°E 0 = 02 55 31 M = 6-3/4-7(Pas.) Santa Cruz Islands.
	BG	ePPZ	11 18		
		eSN	18 11		
		iN	18 35		
		ePPSE	19 21		
		iSSE	24.1		
	MH	ePZ	03 08 01	d	
		eZ	11 21		
	F	ePZ	03 08 07		
		ePPZ	11 26		
		iSN	18 48		
		eN	19 43		
	M	ePZ	03 07 55		
		ePPZ	11 28		
	R	ePZ	03 08 12		
		ePPZ	11 38		
	C	eP	03 08 04		
		eS	18 44		
	SH	iPZ	03 08 36	d	
		eZ	11 57		
		eSNE	19 09		
Oct. 1	MH	iPZ	03 54 10	c	USCGS: 0 = 03 41 34 Solomon Islands region
	M	eZ	03 54 14		
Oct. 1	B	ePZ	07 01 39		USCGS: 14 1/2°S 173°W 0 = 06 50 24 d = 60 Km. Samoa Islands.
	MH	ePZ	07 01 38		
	F	ePZ	07 01 44		
	M	ePZ	07 01 49		
	R	ePZ	07 01 55		
	SH	iPZ	07 02 18		
Oct. 2	B	iPZ	10 12 09		
	MH	ePZ	10 12 11		
	M	ePZ	10 12 05	d	
	R	ePZ	10 12 14	d	
	SH	ePZ	10 12 01	d	
Oct. 2	B	ePZ	22 16 25.8		Fallon, Nevada aftershock. M = 3.8 39 1/2°N, 118 1/2°W, 0 = 22 15 34. Also at 03:15 on October 3.
	MH	ePZ	22 16 24.6		
	SF	eE	22 17 19.0		
	F	eZ	22 16 23.6		
	M	eZ	22 16 16.5		
	R	iPZ	22 15 52.6		
	SH	ePZ	23 16 25.8		
Oct. 2	C	iP	22 22 45		
Oct. 3	B	ePZ	02 59 47.4		
		iPZ	59 49.3	d	
	BG	eE	03 10 22		
		eScSN	10 36		
		ePPSE	11 15		
		eLN	21.2		
	MH	iPZ	02 59 49.5	d	
		iZ	03 00 08		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 3 (cont.)	F	eZ	02 59 56	d	
	M	eZ	02 59 54		
	R	eZ	03 00 00		
	C	eP	02 59 56		
Oct. 3	SH	eS	03 10 24	c	USCGS: 54°N 168½°E O = 08 50 45 Komandorsk Islands
	MH	ePZ	02 59 52		
	F	ePZ	08 59 35		
	M	ePZ	08 59 47		
Oct. 3	SH	ePZ	08 59 20	c	USCGS: 60°N 151°W O = 11 18 46 d = 100 Km. M = 6-3/4 - 7(Pas.) Kenai Peninsula, Alaska.
	B	ePZ	08 59 15		
	BG	eN	11 24 42		
		eSE	28 27		
		iSSZ	29 38	c	
			30 01		
	MH	iPZ	11 24 43		
		iZ	25 27		
	SF	eE	11 24 54		
	F	ePZ	11 25 00		
	M	iPZ	11 24 25		
		eZ	24 37		
		eZ	29 57		
	R	iZ	11 24 38		
		iZ	24 52		
	A	eN	11 24 12		
Fe	eE	11 24(32)			
	eE	29(20)			
	C	iP	11 23 46	c	
		eS	27 56		
	SH	iPZ	11 24 20		
		eS	28 50		
Oct. 3	B	ePZ	13 46 13	c	USCGS: 17½°N 145°E O = 13 34 14 d = 200 Km. Marianas Islands.
	MH	ePZ	13 46 16		
	R	ePZ	13 46 20		
Oct. 3	SH	ePZ	13 46 09	c	USCGS: ½°S 127°E O = 23 21 39 Molucca Islands.
	B	ePPZ	23 40 32		
	MH	iPPZ	23 40 31		
Oct. 4	SH	eZ	23 40 00	c	USCGS: 27°N 126°E O = 08 12 08 Ryukyu Islands region.
	B	ePZ	08 25 05		
	MH	iPZ	08 25 09		
Oct. 4	M	eZ	08 24 59	c	USCGS: 11°S 166°E O = 09 32 56 Santa Cruz Islands.
	R	eZ	08 25 08		
	SH	eZ	08 24 57		
	B	ePZ	09 46 24		
Oct. 4	MH	ePZ	09 45 25	c	
	F	eZ	09 45 31		
	M	eZ	09 45 30		
	R	eZ	09 45 36		
Oct. 4	SH	ePZ	09 45 28	c	
	MH	eZ	13 43 35		
Oct. 4	MH	ePZ	16 05 53		
Oct. 4	F	eZ	16 05 59		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 4	B	ePZ	22 52 02		USCGS: O = 22 39 20 Loyalty Islands region.
	F	eZ	22 52 08		
	M	iZ	22 52 10		
Oct. 5	SH	ePZ	22 52 08		Pasadena 35°19'N 118°39'W O = 02 38 03 M = 3.9 Near Caliente
	MH	iPZ	02 38 57.5		
	PA	eZ	02 39 04.9		
	F	eZ	02 38 37.8		
Oct. 5	M	eZ	02 39 35.1		USCGS: 33°N 141°E O = 04 18 13 Off south coast of Honshu, Japan.
	R	eZ	02 39 27.9		
	MH	ePZ	04 30 02		
	F	eZ	04 30 13		
Oct. 5	M	eZ	04 29 57		USCGS: 55°N 109°E O = 11 28 17 Lake Baikal, USSR.
	SH	eZ	04 29 49		
	MH	eZ	11 40 18		
Oct. 5	M	eZ	11 40 03		
	SH	eZ	11 39 59		
Oct. 5	SH	eZ	18 51 59		USCGS: 52°N 160½°E O = 08 20 09 Off southeast coast of Kamchatka.
	SH	eZ	08 29 33		
Oct. 6	B	eZ	08 29 33		
	MH	eZ	08 29 41		
Oct. 6	M	eZ	08 29 27		USCGS: 52°N 160°E O = 08 27 48 Off southeast coast of Kamchatka.
	R	eZ	08 29 39		
	SH	eZ	08 29 23		
	MH	eZ	08 37 20		
Oct. 6	M	eZ	08 37 01		
	R	eZ	08 37 19		
	SH	eZ	08 37 01		
	SH	eZ	08 37 01		
Oct. 6	MH	ePZ	23 19 31		
	F	eZ	23 19 36		
	SH	iZ	23 19 40		
Oct. 7	B	iPZ	00 00 54.7		Berk.: 38°09'N 121°48'W O = 00 00 49 M = 2.8 20 miles north east of Berkeley.
	MH	iPZ	00 01 06.5		
	PA	eZ	00 01 02.8		
Oct. 7	B	eZ	08 17 04		USCGS: O = 07 57 23 Chagos Archipelago, Indian Ocean.
	MH	ePZ	08 17 06		
	M	eZ	08 16 39		
	SH	eZ	08 16 54		
Oct. 7	MH	iZ	19 31 28		USCGS: O = 19 18 08 Off east coast of New Guinea.
	M	eZ	19 31 28		
	R	eZ	19 31 36		
Oct. 8	SH	iPZ	19 31 57		USCGS: 44½°N 148°E O = 10 46 04 Kurile Islands.
	F	eZ	10 57 02		
	M	eZ	10 56 35		
	SH	ePZ	10 56 31		
Oct. 8	B	iPZ	19 44 13		
	MH	iPZ	19 44 13		
	SH	iZ	19 44 22		
Oct. 9	MH	iPZ	01 58 28		
	F	eZ	01 58 28		
	R	eZ	01 58 42		
	SH	eZ	01 58 37		
Oct. 9	B	eZ	19 24 21		USCGS: 15½°S 173½°W

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 9 (cont)	MH	eZ	19 24 21		Tonga Islands region.
	R	eZ	19 24 36		
	SH	eZ	19 24 28		
Oct. 9	C	iP	22 26 15		
Oct. 10	B	ePZ	09 03 01.1		Fallon, Nevada aftershock. O = 09 02 08
	MH	iPZ	09 03 01.0		
	PA	eZ	09 03 03.9		
	F	eZ	09 03 03.3		
	R	eZ	09 02 26.9		
	SH	eZ	09 02 57.8		
Oct. 11	MH	iZ	06 58 14		
	SH	iZ	06 58 16		
Oct. 11	F	eZ	16 21 21		USCGS: 52°N 162°E O = 16 11 45
	R	eZ	16 21 08		Off southeast coast of Kamchatka.
	SH	eZ	16 20 50		USCGS: O = 17 11 17 d = 150 Km.
Oct. 11	B	iPZ	17 23 44		New Hebrides Islands.
	MH	iPZ	17 23 45		
	F	iPZ	17 23 50		
	R	iPZ	17 23 57		
	SH	iPZ	17 23 50		
Oct. 13	B	iPZ	18 29 10.0		Berk. 37°40'N 122°24'W O = 18 29 05
	SF	ePE	18 29 07.7		10 miles southeast of San Francisco.
	MH	iPZ	18 29 19.1		
Oct. 14	MH	eZ	01 50 05		USCGS: 7°S 128°E O = 01 35 00
	SH	eZ	01 50 43		Banda Sea.
Oct. 16	MH	iZ	00 38 25		USCGS: 71°N 14°W O = 00 28 11
	M	eZ	00 38 05		Jan Mayen Island.
Oct. 16	B	ePZ	04 33 03.0		Pas. 39.5°N 118.5°W O = 04 32 12 M = 4.3
	MH	iPZ	04 33 02.1		East of Fallon, Nevada.
	PA	ePZ	04 33 05.1		
	SF	eE	04 34 03.6		
	F	ePZ	04 33 05.2		
	M	ePZ	04 32 47.6		
	R	iPZ	04 32 27.7		
	SH	eE	04 32 56.8		
Oct. 16	MH	iZ	06 53 39		
	M	eZ	06 53 27		
	SH	eZ	06 53 29		
Oct. 16	MH	eZ	16 29 56		USCGS: O = 16 18 40 d = 250 Km.
	M	eZ	16 30 05		Tonga Islands region.
	R	eZ	16 30 10		
Oct. 17	B	iPZ	15 14 34		USCGS: O = 15 02 28
	MH	iPZ	15 14 30		Northern Chile.
	F	eZ	15 14 20		
	M	eZ	15 14 39		
	R	eZ	15 14 32		
	SH	eZ	15 14 42		
Oct. 17	MH	eZ	20 14 42		
	SH	eZ	20 14 49		

Date	Sta.	Phase	Time (GCT)	Ground Motion	Remarks
1954			h. m. s.		
Oct. 17	B	ePZ	22 59 12.0		USCGS: 31.5°N 116.5°W
	MH	iPZ	22 59 05.7		O = 22 57 18 m = 5.7(Pas.)
	PA	ePZ	22 59 07.4		Lower California. IV at San Diego.
	SF	eN	22 59 21.6		
	F	eZ	22 58 45.6		
	M	eZ	22 59 45.8		
	A	eE	23 03 01		
	Fe	eE	23 02(22)		
	C	eP	23 00 50		
	R	ePZ	22 59 25.9		
	SH	ePZ	22 59 54.0		
Oct. 18	MH	ePZ	10 58 29		USCGS: O = 10 55 10
	M	eZ	10 58 31		Andreanof Islands, Aleutians
	SH	eZ	10 58 36		
Oct. 18	B	iPZ	17 13 18.6		Berk. 37°41'N 122°24'W
	MH	iPZ	17 13 27.7		O = 17 13 14
	PA	iPZ	17 13 20.9		7 miles southeast of San Francisco.
	SF	ePZ	17 13 16.2		
Oct. 19	F	eZ	17 58 14		USCGS: 57½°N 32½°W
	R	eZ	17 58 00		O = 17 48 14
	SH	eZ	17 57 59		North Atlantic Ocean.
Oct. 20	B	iPZ	19 54 41.7		USCGS: 39°N 119°W
	MH	iPZ	19 54 41.5		O = 19 54 05 M = 4.4(Pas.)
	PA	eZ	19 54 44.1		East of Fallon, Nevada.
	SF	eE	19 54 46.5		
	F	eZ	19 54 43.5		
	M	iPZ	19 54 29.0		
	R	iPZ	19 54 07.8		
	SH	eZ	19 54 38.1		
Oct. 20	B	iPZ	23 53 35		USCGS: 31°N 141°E
	MH	eZ	23 53 42		O = 23 41 43
	F	eZ	23 53 50		South of Honshu, Japan.
	R	eZ	23 53 24		The readings from this and the
	SH	iZ	23 53 27		following Nevada earthquake overlap.
Oct. 20	MH	iZ	23 53 12		Fallon, Nevada. O = 23 52 25.
	M	iZ	23 53 10		
	R	iZ	23 52 44		
Oct. 21	B	eZ	00 30 25		USCGS: 41°S 80½°E
	MH	eP ₁ Z	00 30 15		O = 00 10 07 M = 7(Pas.)
		eP ₂ Z	31 12		South Indian Ocean.
	F	eP ₁ Z	00 30 17		
	M	eP ₁ Z	00 30 19		
	R	eP ₁ Z	00 30 18		
Oct. 21	M	iPZ	03 15 28.9		Berk. 40.4°N 124.3°W
	A	eN	03 15 05.3		O = 03 14 55 M = 2.5
	Fe	iE	03 15 04.7		South of Ferndale.
Oct. 21	B	iPZ	06 58 55	c	USCGS: 14°N 90½°W
		epPZ	59 12		O = 06 51 48 d = 60 Km.
		iPcPZ	07 01 16		Guatemala. M = 6½(Pas.)

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 21 (cont)		iSNE	04 40		
		iScSN	09 08		
		isScSN	09 43		
	MH	iPZ	06 58 54	d	
		iZ	59 06	d	
	F	ePZ	06 58 34		
		epPZ	58 52		
	M	ePZ	06 59 02	d	
		iZ	59 19		
	R	ePZ	06 58 50	d	
	C	iP	06 59 34		
	SH	ePZ	06 59 06	d	
		ipPZ	59 22		
		ePcPZ	07 01 19		
		eSN	05 02		
		eScSN	09 13		
		esScSN	09 46		
Oct. 21	MH	iZ	07 52 52		
	M	eZ	07 53 19		
Oct. 21	B	iPZ	20 13 36		USCGS: 10°S 75°W O = 20 03 00 d = 100 Km. Central Peru.
	MH	iPZ	20 13 32		
	M	iPZ	20 13 42		
	R	eZ	20 13 34		
	SH	iPZ	20 13 46		
Oct. 22	MH	ePZ	09 12 42.0		Berk. 40°14'N 121°06'W O = 09 11 54.6 M = 3.2 29 miles east of Mineral.
	M	iPZ	09 12 02.7		
	R	iP*Z	09 12 15.9		
	SH	iP*Z	09 12 14.1		
Oct. 22	SH	iPZ	16 41 02		USCGS: 33°N 138°E Off south coast of Honshu, Japan. O = 16 29 12
Oct. 22	SH	iPZ	17 24 06		As above. O = 17 13 09
Oct. 23	MH	ePZ	18 19 56		USCGS: 16°S 179°W O = 18 08 14 d = 100 Km. Fiji Islands.
	F	iZ	18 20 00		
	M	iZ	18 20 05		
	R	eZ	18 20 08		
	SH	eZ	18 20 03		
Oct. 24	B	ePZ	09 46 07.6		USCGS: 31½°N 116°W O = 09 44 05 M = 6.0 Lower California. Felt in San Diego.
	MH	ePZ	09 45 57.8		
	PA	iPZ	09 46 03.0		
	SF	eE	09 46 09.7		
	F	iPZ	09 45 40.2		
	M	iPZ	09 46 35.6		
	Fe	eE	09 50 02.3		
	C	eP	09 47 34		
	R	ePZ	09 46 18.4		
	SH	ePZ	09 46 46.3		
Oct. 24	B	ePZ	11 23 29.5		USCGS: 31.5°N 116°W O = 11 21.4 M = 5.4(Pas.) Lower California.
	MH	eZ	11 22 56.3		
		iZ	11 23 22.4		
	PA	eZ	11 23 24.1		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 24 (cont)	F	eZ	11 23 01.6		
	M	eE	11 26 12.2		
	R	eZ	11 23 21.9		
	SH	eZ	11 24 09.7		
Oct. 25	B	iPZ	04 24 40.9		Pas. 35°25'N 118°42'W O = 04 23 42 M = 3.8 Near Kern River Gorge.
	MH	ePZ	04 24 30.5		
	F	eZ	04 24 10.1		
	M	eZ	04 25 08.0		
	R	eE	04 25 58.0		
Oct. 25	B	iPZ	18 33 31.8		Berk. 37°57'N 121°48'W O = 18 33 24 M = 2.9 25 miles northwest of Berkeley.
	MH	iPZ	18 33 37.1		
	PA	iPZ	18 33 36.7		
	SF	eE	18 33 34.9		
Oct. 25	B	ePZ	21 48 39.8		Pas. 35°23'N 118°33'W O = 21 47 38 M = 3.5 Northeast of Caliente.
	MH	iPZ	21 48 29.0		
	PA	ePZ	21 48 35.9		
	F	eZ	21 48 08.1		
	SH	eZ	21 50 45.9		
	R	eZ	21 48 53.0		
Oct. 26	B	iPZ	02 49 27.5		Pas. 35°23'N 118°34'W O = 02 48 26 M = 3.8 Northeast of Caliente.
	MH	iPZ	02 49 16.2		
	PA	eZ	02 49 22.9		
	F	eZ	02 48 53.8		
	R	eZ	02 49 48.4		
	SH	eZ	02 50 49.6		
Oct. 26	B	ePZ	18 30 54.7		Berk. 40.1°N 118.5°W O = 18 29 56 M = 3.8 40 miles north of Fallon, Nevada.
	MH	iPZ	18 30 49.9		
	PA	eZ	18 30 55.3		
	F	eZ	18 30 44.3		
	R	iPZ	18 30 14.3		
Oct. 27	B	ePZ	02 25 49.9		Berk. 38°02'N 121°50'W O = 02 25 42 M = 3.1 25 miles northeast of Berkeley.
	MH	iPZ	02 25 56.1		
	PA	iPZ	02 25 55.6		
	SF	eE	02 25 53.1		
	M	eZ	02 26 21.5		
	R	eZ	02 26 26.0		
Oct. 27	MH	ePZ	03 30 38		USCGS: 51°N 176½°W O = 03 22 54 Andreanof Islands, Aleutian Islands.
	F	eZ	03 30 53		
	SH	eZ	03 30 20		
Oct. 27	MH	eZ	10 02 45		USCGS: 4°S 105°W O = 09 54 30 Pacific Ocean, southwest of Galapagos Islands.
	F	eZ	10 02 35		
	M	eZ	10 02 49		
	R	eZ	10 02 56		
	SH	eZ	10 02 59		
Oct. 27	SH	eZ	10 38 31		USCGS: 52°N 174°E O = 10 30 19 Near Islands, Aleutian Islands.
Oct. 27	SH	eZ	23 57 38		USCGS: O = 23 52 06 Kodiak Island region, Alaska.
Oct. 28	M	eZ	03 32 11		Tonga Islands region. O = 03 19.7
	SH	eZ	03 32 09		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 29	B MH F M R SH	ePZ iPZ eZ eZ eZ eZ	11 21 59 11 22 00 11 22 02 11 22 07 11 22 11 11 22 05		USCGS: 0 = 11 09 10 Loyalty Islands.
Oct. 29	MH M R SH	eZ eZ eZ eZ	14 05 30 14 06 05 14 05 44 14 05 54		
Oct. 29	B MH R	eZ iPZ eZ	21 47 29 21 47 34 21 47 32		
Oct. 30	SH MH F M SH	iZ eZ eZ eZ eZ	21 47 15 07 05 47 07 05 50 07 05 56 07 05 55		BCIS 0 = 06 53.2 Kermadec Islands region.
Oct. 30	MH M	iPZ eZ	14 15 24 14 15 33		
Oct. 30	MH F M R	eZ eZ eZ eZ	15 21 33 15 21 49 15 20 58 15 21 16		
Oct. 30	B MH F M R SH	iPZ eZ eZ eZ eZ eZ	16 14 48 16 14 52 16 15 03 16 14 40 16 14 15 16 14 35		USCGS: 50°N 157°E 0 = 16 05 02 Northern Kurile Islands.
Oct. 30	MH F SH	eZ eZ eZ	18 39 29 18 39 34 18 39 32		USCGS: 0 = 18 26 56 New Hebrides Islands region.
Oct. 30	M	eZ	22 10 01		USCGS: 38°N 104°E 0 = 21 56 50 Ningsia Province, China.
Oct. 31	B MH F M R SH	eZ eZ eZ eZ eZ eZ	08 09 41 08 09 32 08 09 32 08 09 15 08 09 24 08 09 07		USCGS: 51°N 176 $\frac{1}{2}$ °W 0 = 08 01 39 Andreanof Islands, Aleutian Islands.
Oct. 31	MH M	iPZ eZ	09 22 48 09 23 08		BCIS: 0 = 09 17.3 Mexico.
Oct. 31	B MH F M R SH	eZ iZ eZ eZ eZ eZ	20 56 46 20 56 47 20 56 52 20 56 50 20 57 01 20 56 53		BCIS: 15°S 173 $\frac{1}{4}$ °W 0 = 20 45 26 Samoa Islands.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Oct. 31	B BG MH F R SH	iPZ eSN iPZ iZ eZ iPZ	23 25 34 23 35 59 23 25 35 23 25 40 23 25 46 23 25 40	c	USCGS: 18 $\frac{1}{2}$ °S 170°E 0 = 23 12 52 New Hebrides.
Oct. 31	B MH F M R SH	eZ eZ eZ eZ eZ eZ	23 46 33 23 46 35 23 46 39 23 46 40 23 46 45 23 46 37	c	USCGS: 18 $\frac{1}{2}$ °S 170°E 0 = 23 33 52 New Hebrides.
Nov. 1	B MH M SH	ePZ iPZ ePZ iPZ	06 11 38 06 11 42 06 11 36 06 11 32		USCGS: 0 = 05 59 54 d = 300 Km. Marianas Islands region.
Nov. 1	B MH PA SF F M R SH	ePZ iPZ iPZ eE ePZ ePZ ePZ ePZ	06 43 07.2 06 42 58.1 06 43 02.7 06 43 07.9 06 42 53.0 06 43 32.3 06 43 21.3 06 43 46.0		Berk. 37°04'N 120°35'W 0 = 06 42 40 M = 4.0 15 miles south of Merced.
Nov. 1	B MH F R SH	ePZ eZ eZ eZ iPZ	21 03 23 21 03 16 21 03 03 21 03 19 21 03 04		USCGS: 14°N 92°W 0 = 20 56 22 d = 60 Km. Off coast of Guatemala.
Nov. 2	B BG SS MH F M R C SH	eP'Z ePPZ e(S)N SS eP'Z eP'Z eP'Z eP'Z ePP eP'Z ePPZ FKKP	08 43 00 44 18 52 05 09 00 25 08 43 00 08 43 05 08 42 59 08 43 02 08 44 50 08 42 59 44 06 53 25		USCGS: 7 $\frac{1}{2}$ °S 119°E 0 = 08 24 08 Sumbawa Island region.
Nov. 2	MH M SH	iZ eZ eZ	08 33 27 08 33 11 08 33 06		USCGS: 0 = 08 25 46 Andreanof Islands, Aleutian Islands.
Nov. 2	MH M SH	eZ eZ eZ	10 12 30 10 12 34 10 12 35		
Nov. 2	M SH	eZ eZ	10 18 36 10 18 33		USCGS: 38°N 104°E 0 = 10 05 26 Ningsia Province, China.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 2	M	eZ	15 26 22		
	SH	eZ	15 26 21		
Nov. 2	MH	eZ	17 39 45		BCIS: 22-3/4°S 70-3/4°W
	SH	eZ	17 39 58		0 = 17 27 53 Off coast of Chile
Nov. 2	MH	eZ	20 23 41		BCIS: 0 = 20 11.9 Region of northern Chile.
Nov. 3	MH	eZ	03 21 52		USCGS: 52°N 176°W
	M	eZ	03 21 36		0 = 03 14 20 d = 100 Km. Andreanof Islands, Aleutian Islands.
Nov. 3	MH	eZ	13 33 19		BCIS: Aleutian Islands.
	M	eZ	13 33 04		
	SH	eZ	13 32 59		
Nov. 3	B	eZ	18 19 42	d	USCGS: 24 1/2°N 142 1/2°E
	MH	eZ	18 19 44	c	0 = 18 07 25 Volcano Islands.
	F	eZ	18 19 54		
	M	iZ	18 19 39		
	R	eZ	18 19 48		
	SH	eZ	18 19 36	d	
Nov. 3	A	iPN	18 50 28.3		Berk. 40°29'N 125°28'W
	M	iPZ	18 50 54.0		0 = 18 50 07 M = 3.6
	SH	iPZ	18 50 46.0		80 miles southwest of Arcata.
Nov. 4	MH	eZ	07 31 41		
	M	eZ	07 31 28		
	SH	eZ	07 31 23		
Nov. 4	B	ePZ	14 45 00.9		Berk.: 37°18'N 121°44'W
	MH	iPZ	14 44 50.2		0 = 14 44 48 M = 2.1 d = 10 Km.
	PA	iPZ	14 44 55.4		6 miles southwest of Mt. Hamilton.
Nov. 4	MH	eZ	16 35 23		BCIS: 0 = 16 30.7
	F	eZ	16 35 03		Gulf of California.
	SH	eZ	16 35 55		
Nov. 4	MH	iPZ	19 23 28		
	F	eZ	19 23 32		
	M	eZ	19 23 35		
	SH	eZ	19 23 34		
Nov. 5	B	ePZ	09 21 40		USCGS: 39 1/2°N 142°E
	MH	iPZ	09 21 44		0 = 09 10 24
	F	eZ	09 21 53		Near coast of northern Honshu,
	M	eZ	09 21 33		Japan.
	R	eZ	09 21 44		
	SH	eZ	09 21 30		
Nov. 5	SH	eZ	13 16 50		USCGS: 0 = 13 07 05
					Northern Kurile Islands.
Nov. 5	B	eZ	18 29 34		USCGS: 18°N 105 1/2°W
	MH	iZ	18 29 22		0 = 18 24 04
	M	eZ	18 29 46		Near coast of Colima, Mexico.
	R	eZ	18 29 29		
Nov. 5	B	eZ	22 56 09		USCGS: 52 1/2°N 160 1/2°E
	MH	ePZ	22 56 14	d	0 = 22 46 44
	F	eZ	22 56 26		Off east coast of Kamchatka.
	R	eZ	22 56 13		
	SH	eZ	22 55 55		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 6	SH	ePZ	08 50 04		
Nov. 6	SH	ePZ	11 57 36		BCIS: 0 = 11 48 25
					Kamchatka.
Nov. 6	M	eZ	13 20 26		USCGS: 23 1/2°N 124°E
	SH	ePZ	13 20 23		0 = 13 07 14 Southern Ryukyu Islands.
Nov. 6	B	iPZ	18 25 03.8		Berk: 38°03'N 122°23'W
	MH	iPZ	18 25 17.1		0 = 18 25 59 M = 2.1
	PA	iPZ	18 25 11.3		14 miles north west of Berkeley.
	SF	iPZ	18 25 04.6		
Nov. 6	B	iPZ	05 31 04		USCGS: 24 1/2°S 176°W
	BG	eSE	41 00		0 = 05 18 57
	MH	ePZ	05 31 05		Tonga Islands region.
	F	eZ	05 31 08		
	M	iZ	05 31 14		
	R	iZ	05 31 18		
	C	eP	05 31 29		
	SH	iPZ	05 31 13		
Nov. 7	MH	eZ	07 15 30		USCGS: 52 1/2°N 160 1/2°E
	F	eZ	07 15 44		0 = 07 06 00
	M	eZ	07 15 15		Near coast of Kamchatka.
	R	eZ	07 15 31		
	SH	eZ	07 15 10		
Nov. 7	MH	eZ	08 48 56		USCGS: 52 1/2°N 160 1/2°E
	M	eZ	08 48 37		0 = 08 39 26
	SH	eZ	08 48 36		Near coast of Kamchatka.
Nov. 7	MH	iZ	10 52 36		
	M	eZ	10 52 44		
Nov. 10	B	iPZ	07 34 00	c	USCGS: 56 1/2°N 160°E
	MH	iPZ	07 34 05	c	0 = 07 24 52 d = 100 Km.
	F	iPZ	07 34 16	c	Kamchatka.
	M	iPZ	07 33 50	c	
	R	iPZ	07 34 02	c	
	SH	iPZ	07 33 45	c	
Nov. 10	M	eZ	08 16 55		BCIS: South Pacific.
Nov. 10	B	iPZ	18 07 44.5		Berk.: 39°04'N 123°02'W
	MH	iPZ	18 07 54.6		0 = 18 07 21 M = 4.4
	PA	iPZ	18 07 51.3		10 miles southeast of Ukiah.
	SF	ePN	18 07 46.1		
	F	ePZ	18 08 16.2		
	M	ePZ	18 07 49.7		
	R	ePZ	18 08 05.2		
	A	eN	18 07 52.9		
	Fe	eE	18 08(07)		
	C	eP	18 08 50		
	SH	iPZ	18 07 50.2		
Nov. 11	MH	eZ	02 01 05		Western Montana?
	M	iZ	02 01 38		
	SH	iZ	02 01 33		
Nov. 11	B	ePZ	16 25 39.4		Berk.: 36.7°N 121.1°W
	MH	iPZ	16 25 26.2		0 = 16 25 08 M = 2.8
	PA	iPZ	16 25 29.6		10 miles south of Llanada.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 11	MH	ePZ	19 41 57		
	M	eZ	19 41 31		
	SH	ePZ	19 41 28		
Nov. 12	B	ePZ	12 28 47.4		USCGS: 31 $\frac{1}{2}$ °N 116°W
	MH	ePZ	12 28 37.0		0 = 12 26 47 M = 6.3(Pas.)
	PA	ePZ	12 28 42.0		Lower California
	SF	eN	12 28 50.7		
	F	ePZ	12 28 18.9		
	M	ePZ	12 29 14.1		
	R	ePZ	12 28 57.2		
	A	eN	12 29 36		
	C	eP	12 30 16		
	SH	ePZ	12 29 21.9		
Nov. 12	MH	ePZ	13 18 15.5		Pas.: 31.5°N 116°W
	F	eN	13 18 18.2		0 = 13 16.7 M = 5.0
	R	eZ	13 19 06.6		Baja, California
	SH	eZ	13 22 04		
Nov. 12	B	eZ	19 13 22.3		Fallon, Nevada aftershock.
	MH	eZ	19 13 13.6		0 = 19 12 22 M = 4.2
	PA	iPZ	19 13 25.4		
	SF	eN	19 13 28.8		
	F	eZ	19 13 13.5		
	M	iPZ	19 13 03.2		
	R	iPZ	19 12 41.0		
	SH	ePZ	19 13 13.2		
Nov. 12	MH	iPZ	20 21 44.5		Lower California.
	M	ePZ	20 22 22.0		
	SH	eZ	20 25 23		
Nov. 12	B	iPZ	22 00 09		USCGS: 15°S 173 $\frac{1}{2}$ °W
	MH	iPZ	22 00 08		0 = 21 48 34
	F	iPZ	22 00 01		Tonga Islands.
	M	iPZ	22 00 19		
	R	ePZ	22 00 23		
	SH	eZ	22 00 17		
Nov. 13	C	eP	08 24 19		Oregon?
	M	iPZ	08 25 04		
Nov. 13	MH	ePZ	12 50 36		Apia: 17°S 172 $\frac{1}{2}$ °W
	F	eZ	12 50 41		0 = 12 39.2
	M	eZ	12 50 47		
	SH	iPZ	12 50 45		
Nov. 13	MH	iPZ	14 59 06		USCGS: 30°N 131 $\frac{1}{2}$ °E
	M	ePZ	14 58 53		0 = 14 46 31
	R	ePZ	14 59 07		Northern Ryukyu Islands.
	SH	ePZ	14 58 55		
Nov. 13	B	ePZ	18 36 33		USCGS: 45°S 79°W
	MH	ePZ	18 36 28		0 = 18 23 22
	M	ePZ	18 36 49		Off coast of Chile.
	R	ePZ	18 36 38		
	SH	ePZ	18 36 43		
Nov. 13	MH	ePZ	20 23 18		
	F	ePZ	20 23 42		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 13	M	ePZ	20 22 54		
(contd)	C	eP	20 22 18		
Nov. 13	B	ePZ	22 07 17.9		Fallon, Nevada aftershock.
	MH	iPZ	22 07 17.3		0 = 22 06 25 M = 4.2
	SF	eN	22 07 45.7		
	PA	ePZ	22 07 20.9		
	M	ePZ	22 07 05.8		
	F	ePZ	22 07 18.8		
	R	iPZ	22 06 44.2		
	SH	iPZ	22 07 15.9		
Nov. 14	B	ePZ	05 38 20.2		USCGS: 31 $\frac{1}{2}$ °N 116°W
	MH	iPZ	05 38 09.8		0 = 05 36 19 M = 5
	PA	iPZ	05 38 14.6		Baja California.
	SF	eN	05 39 45.0		
	F	iPZ	05 37 51.8		
	M	iPZ	05 38 47.8		
	R	ePZ	05 38 30.4		
Nov. 14	B	iPZ	10 54 40.0		Berk.: 37°44'N 121°55'W
	MH	iPZ	10 54 42.9		0 = 10 54 33 M = 1.8
	PA	iPZ	10 54 40.6		20 miles southeast of Berkeley.
Nov. 14	MH	iPZ	18 36 53		USCGS: 0 = 18 25 50 d = 550 Km.
	F	ePZ	18 36 58		Fiji Islands.
	SH	iPZ	18 37 02		
Nov. 15	MH	iPZ	05 05 27		USCGS: 20°S 68 $\frac{1}{2}$ °W
	F	ePZ	05 05 19		0 = 04 53 39
	M	ePZ	05 05 37		Chile-Bolivia border.
	SH	ePZ	05 05 39		
Nov. 15	B	ePZ	09 57 11.0		Fallon, Nevada aftershock.
	MH	iPZ	09 57 08.0		0 = 09 56 07 M = 3.8
	PA	ePZ	09 57 13.7		
	F	ePZ	09 56 59.1		
	M	ePZ	09 56 46.5		
	R	iPZ	09 56 26.0		
	SH	ePZ	09 56 57.9		
Nov. 15	B	iPZ	16 38 35	d	USCGS: 19°N 145 $\frac{1}{2}$ °E
		ipPZ	39 20		0 = 16 26 40 d = 200 Km.
		eSE	48 20		M = 6 $\frac{1}{2}$ - 6-3/4 Marianas Islands.
		eSN	48 24		
	MH	iPZ	16 38 39	d	
		ipPZ	39 25		
	F	iPZ	16 38 47	d	
		ipPZ	39 34		
		iSN	48 49		
	M	iPZ	16 38 34	d	
	R	iPZ	16 37 43		
		ipPZ	38 34		
		eSN	47 39		
	C	iP	16 38 28		
	SH	iPZ	16 38 30		
		ipPZ	39 10		
		SNE	48 15		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks	
1954			h. m. s.			
Nov. 17	B	iPZ	07 24 56.6		Pas.: 36°28'N 118°00'W 0 = 07 23 57 M = 4.1 South of Lone Pine, Calif.	
	MH	ePZ	07 24 46.8			
	PA	iPZ	07 24 53.8			
	SF	eE	07 25 00.4			
	F	iPZ	07 24 24.6			
	M	ePZ	07 25 18.0			
	R	iPZ	07 25 00.2			
	SH	ePZ	07 25 25.4			
Nov. 17	B	iPZ	09 50 57.6			Berk.: 36°59'N 121°19'W 0 = 09 50 35 M = 2.8 12 miles northeast of Hollister.
	MH	ePZ	09 50 45.9			
	PA	ePZ	09 50 50.2			
	SF	eE	09 50 58.4			
Nov. 17	MH	iPZ	11 57 05		USCGS: 31½°N 116°W 0 = 11 55 12 Lower California.	
	F	ePZ	11 56 47			
	M	eZ	11 57 16			
	R	eZ	11 57 27			
Nov. 17	B	iPZ	17 29 31	d	USCGS: 19°N 145°E 0 = 17 18 15 d = 600 Km. Marianas Islands.	
	MH	iPZ	17 29 34	d		
	F	iPZ	17 29 45			
	M	iPZ	17 29 30	d		
	R	iPZ	17 29 38			
	PA	iPZ	17 29 32			
	SH	iPZ	17 29 27	d		
Nov. 17	M	eZ	21 29 29			
Nov. 17	B	ePZ	23 04 53.7			Pas.: 34°30'N 119°07'W 0 = 23 03 51 M = 4.4 Near Ventura, southern California.
	MH	ePZ	23 04 43.9			
	PA	ePZ	23 04 48.7			
	SF	eE	23 04 55.4			
	F	eZ	23 04 28.6			
	M	iPZ	23 05 24.6			
	R	ePZ	23 05 17.6			
	SH	eZ	23 05 29.7			
Nov. 18	B	ePZ	05 29 50		USCGS: 49°N 155°E 0 = 05 20 04 d = 100 Km. Kurile Islands.	
	MH	ePZ	05 29 57			
	F	ePZ	05 30 06			
	M	ePZ	05 29 43			
	R	ePZ	05 29 54			
	SH	iPZ	05 29 38			
Nov. 18	B	ePZ	20 56 10		USCGS: 39°N 142°E 0 = 20 44 55 Honshu, Japan.	
	MH	ePZ	20 56 19			
	F	ePZ	20 56 30			
	R	ePZ	20 56 21			
	SH	ePZ	20 56 07			
Nov. 19	MH	iPZ	05 54 47.0		Berk.: 40.5°N 124.1°W 0 = 05 53 51 M = 3.5 Southeast of Ferndale.	
	PA	eZ	05 54 42.2			
	M	iPZ	05 54 23.0			
	SH	iPZ	05 54 14.4			
	R	eZ	05 54 53.3			
	A	(S-P)	6.3 secs.			
Nov. 19	B	iPZ	06 06 56	c	USCGS: 41°N 131½°E 0 = 05 56 03 M = 6½ - 6-3/4 Sea of Japan.	
		ipP	08 57			
	MH	iPZ	06 07 01	c		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 19 (contd)		ipPZ	09 01		
		eZ	36 39		
	F	iPZ	06 07 09		
		iZ	09 04		
	M	iPZ	06 06 50		
		iZ	08 52		
		eZ	36 49		
	R	iPZ	06 06 59		
		ipPZ	08 37		
		eZ	36 46		
	PA	iPZ	06 06 59		
	SF	eE	06 07 00		
	SH	iPZ	06 06 46		
		epPZ	08 42		
Nov. 19	MH	iPZ	14 57 05		Fallon, Nevada aftershock.
	R	ePZ	14 56 25		0 = 14 56 06
	M	ePZ	14 56 47		
Nov. 19	MH	iPZ	14 59 23		
Nov. 20	MH	iPZ	07 13 34		USCGS: 22°S 69°W
	M	iPZ	07 13 48		0 = 07 01 52 d = 150 Km.
	R	ePZ	07 13 36		Southern Peru.
Nov. 21	M	eZ	03 42 45		
Nov. 21	M	eZ	07 43 25		
Nov. 21	B	ePZ	07 50 07		USCGS: 29°S 178°W
	BG	eN	08 00 35		0 = 07 37 27
	MH	eZ	07 50 04		Kermadec Islands.
	F	eZ	07 50 11		
	M	ePZ	07 50 17		
	R	iPZ	07 50 23		
		eSN	08 01 16		
	SH	ePZ	07 50 14		
		eSNE	08 00 43		
Nov. 21	MH	iPZ	21 03 38		BCIS: South Atlantic
	M	iPZ	21 03 42		0 = 20 44.7
	R	ePZ	21 03 38		
	SH	ePZ	21 03 42		
Nov. 22	B	eZ	05 19 48.4		Berk.: 36.9°N 121.2°W
	MH	iPZ	05 19 36.2		0 = 05 19 23 M = 2.7
	SF	eSE	05 20 05		12 miles east of Hollister.
	PA	ePZ	05 19 40.3		
Nov. 22	B	iPZ	18 51 31		USCGS: 0 = 18 40 25 d = 650 Km.
	MH	iPZ	18 51 31		Fiji Islands.
	F	iPZ	18 51 36		
	M	ePZ	18 51 44		
	R	ePZ	18 51 45		
	SH	iPZ	18 51 40		
Nov. 22	MH	iPZ	23 33 07		
	M	iPZ	23 33 18		
Nov. 23	B	ePZ	02 28 46		BCIS: 14½°N 144½°E
	MH	iPZ	02 28 49		0 = 02 16 15
	F	eZ	02 28 56		Marianas Islands.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 23 (contd)	M	iZ	02 28 46		
	R	ePZ	02 28 55		
	PA	iPZ	02 28 50		
	SH	eZ	02 28 43		
Nov. 23	SH	eZ	06 33 57		USCGS: 0 = 06 24 10 Northern Kurile Islands.
Nov. 23	M	eZ	06 42 14		USCGS: 0 = 06 30 45 Samoa Islands.
Nov. 23	MH	iPZ	10 09 24		USCGS: 53°N 159½°E 0 = 09 59 45 d = 60 Kms. Off coast of Kamchatka.
	F	eZ	10 09 22		
	M	eZ	10 08 57		
	R	eZ	10 09 09		
	PA	eZ	10 09 17		
	SH	eZ	10 08 53		
Nov. 23	M	eZ	13 12 48		USCGS: 38°N 15°E 0 = 12 59 36 Near north coast of Sicily.
Nov. 23	B	iPZ	16 04 20		USCGS: 19½°S 69°W 0 = 15 52 29 Chile-Bolivia border.
	MH	iPZ	16 04 16		
	F	eZ	16 04 04		
	M	eZ	16 04 24		
	R	eZ	16 04 18		
	PA	iPZ	16 04 18		
	SH	iPZ	16 04 28		
Nov. 23	MH	eZ	16 58 52		
	M	eZ	16 58 36		
	SH	iZ	16 58 30		
Nov. 23	B	iPZ	21 22 37		USCGS: 52°N 160½°E 0 = 21 12 55 d = 60 Km. M = 6 - 6¼ Off southeast coast of Kamchatka.
	MH	ePZ	21 22 27		
	F	eZ	21 22 38		
	M	eZ	21 22 14		
	R	eZ	21 22 24		
	PA	eZ	21 22 30		
	SH	eZ	21 22 06		
Nov. 24	B	eZ	00 46(20)		USCGS: 20°S 169°E 0 = 00 33 42 Loyalty Islands.
	MH	iPZ	00 46 32		
	F	eZ	00 46 36		
	M	eZ	00 46 44		
	R	eZ	00 46 54		
	SH	eZ	00 46 37		
Nov. 24	B	eZ	09 56 57		USCGS: 09 45 11 Fiji Islands.
	MH	iPZ	09 56 58		
	F	eZ	09 57 02		
	M	iPZ	09 57 07		
	R	ePZ	09 57 11		
	SH	iPZ	09 57 05		
Nov. 24	M	ePZ	11 29 41		
Nov. 24	MH	ePZ	11 18 37		
	M	eZ	11 18 44		
	SH	eZ	11 18 41		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 25	M	eZ	03 49 44		
	R	eN	03 50 09		
Nov. 25	MH	iPZ	09 11 46		BCIS: 21½°S 69¼°W 0 = 09 00 06 d = 100 Km. Off coast of northern Chile.
	F	eZ	09 11 40		
	M	iPZ	09 12 00		
	R	ePZ	09 11 53		
	SH	iPZ	09 12 03		
Nov. 25	MH	ePZ	11 07 11.9		Berk.: 40.7°N 121.3°W 0 = 11 06 15 M = 3.8 35 miles northeast of Mineral.
	R	ePZ	11 06 41.0		
	M	iPZ	11 06 26.0		
Nov. 25	B	iPZ	11 17 30.4		Berk.: 40°16'N 125°38'W 0 = 11 16 35 M = 6.1 75 miles southwest of Ferndale.
	MH	ePZ	11 17 38.8		
	PA	ePZ	11 17 35.9		
	SF	eE	11 17 29.7		
	M	iPZ	11 17 23.9		
	F	ePZ	11 18 04.3		
	R	ePZ	11 17 45.2		
	Fe	eN	11 16 56.1		
	C	eP	11 17 44		
	SH	iPZ	11 17 15.4		
Nov. 25	MH	iPZ	14 08 36		
	M	ePZ	14 09 15		
	R	eZ	14 11 17		
Nov. 25	B	ePZ	20 55 35		USCGS: 15°N 94½°W 0 = 20 48 50 Off coast of Chiapas, Mexico.
	BG	eE	21 05.6		
	MH	ePZ	20 55 36		
	F	eZ	20 55 14		
	M	eZ	20 55 44		
	R	eZ	20 56 30		
Nov. 25	B	eP	21 44 53		USCGS: 21½°S 179°E 0 = 21 33 38 M = 6½ d = 650 Km. Fiji Islands region.
	BG	eE	47 08		
	MH	iPZ	54 13		
	F	iPZ	21 44 45		
	M	iPZ	21 44 58		
	R	iPZ	21 45 02		
	R	iPZ	21 45 06		
	PA	iPZ	21 44 53		
Nov. 26	M	eZ	08 23 25		USCGS: 0 = 08 11 22 d = 200 Km. Fiji Islands.
Nov. 26	B	ePZ	10 38 18.0		Pas. & Berk.: 37.3°N 118.9°W 0 = 10 38 35 M = 3.3 West of Bishop, Calif.
	MH	iPZ	10 38 11.6		
	PA	iPZ	10 38 17.2		
	F	iPZ	10 37 53.0		
	M	iPZ	10 38 35.2		
	R	ePZ	10 38 10.7		
Nov. 27	M	eZ	05 17 02.5		USCGS: 53°N 161½°E 0 = 05 07 40 Off east coast of Kamchatka.
	SH	eZ	05 16 46.0		
Nov. 27	MH	eZ	08 15 03		USCGS: 21°S 68°W 0 = 08 03 09 Chile-Bolivia border.
	M	iZ	08 15 12		
	SH	iZ	08 15 15		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Nov. 27	MH	eZ	12 05 13		
	M	eZ	12 05 03		
	SH	eZ	12 05 01		
Nov. 27	B	iPZ	16 12 07		USCGS: 12°N 87°W
	MH	ePZ	16 10 01		0 = 16 02 22
	M	eZ	16 10 14		Near coast of Nicaragua.
	R	eZ	16 10 01		
	SH	eZ	16 10 19		
Nov. 29	B	ePZ	01 48 30		USCGS: 53½°N 160°E
	MH	iPZ	01 48 35		0 = 01 39 02
	F	eZ	01 48 46		Near east coast of Kamchatka.
	M	iZ	01 48 19		
	R	eZ	01 48 31		
	C	eP	01 47 48		
	SH	iPZ	01 48 14		
Nov. 29	M	eZ	21 53 36		USCGS: 0 = 21 39 50
					Sinkiang Province, China.
Nov. 30	F	eZ	06 53 50		
	M	eZ	06 53 25		
Nov. 30	MH	iPZ	20 38 02		USCGS: 0 = 20 25 54
	F	iPZ	20 38 08		300 miles off south coast of Honshu,
	SH	ePZ	20 37 41		Japan.
Nov. 30	MH	iPZ	23 35 25		BCIS: Tonga region.
	R	eZ	23 36 06		0 = 23:24.0
	SH	ePZ	23 35 45		
Dec. 1	B	ePZ	06 31 04.0		Berk.: 36°43'N 121°29'W
	MH	ePNE	06 30 58.5		0 = 06 30 41 M = 2.7
	PA	ePE	06 30 57.2		South southwest of Hollister, Calif.
	SF	eE	06 31 21.2		
	F	iN	06 31 22.4		
Dec. 2	B	ePZ	09 06 24		USCGS: 43½°N 125°W
	MH	iPZ	09 06 35		0 = 09 05 00
	F	ePZ	09 06 55		Off coast of Oregon.
	M	iPZ	09 06 05		
	R	ePZ	09 06 46		
	C	iP	09 05 33		
	SH	ePZ	09 05 58		
Dec. 2	MH	iPZ	23 21 04		USCGS: 12°N 86½°W
	M	ePZ	23 21 15		0 = 23 13 29 d = 100 Km.
	SH	ePZ	23 21 20		Near coast of Nicaragua.
Dec. 2	MH	iPZ	02 18 36		USCGS: 0 = 02 10 45
	M	ePZ	02 18 31		Off coast of Nicaragua.
Dec. 3	M	iZ	02 57 23		
Dec. 3	B	iPZ	08 47 43.2		Berk.: 43.5°N 128.5°W
	MH	iPZ	08 47 53.2		0 = 08 45 50 M = 4.9
	PA	iPZ	08 47 48.6		Off coast of Oregon.
	SF	eE	08 49 05		
	M	iPZ	08 47 22.8		
	F	ePZ	08 48 12.8		
	R	ePZ	08 47 47.9		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 3	A	eN	08 46 50		
(contd)	C	iP	08 46 49		
	SH	ePZ	08 47 15.5		
Dec. 3	M	ePZ	19 15 03		USCGS: 67½°N 136°W
					0 = 19 09 02
					Yukon, Canada.
Dec. 3	M	iPZ	22 40 52		USCGS: 3½°S 148°E
					0 = 22 27 38
					Bismark Sea.
Dec. 4	MH	eZ	02 08 05		
	M	eZ	02 08 02		
Dec. 4	B	ePZ	07 13 30		USCGS: 5°S 152½°E
	BG	eSE	24 15		0 = 07 00 29 M = 6½
	MH	ePZ	07 13 31		New Britain region.
	F	eZ	07 13 38		
	M	eZ	07 13 32		
	R	ePZ	07 13 34		
		eSN	24 32		
	SH	ePZ	07 13 29		
		ePPZ	17 08		
Dec. 4	MH	iPZ	18 19 11		USCGS: 20°N 69°W
	F	eZ	18 18 59		0 = 18 10 23
	M	eZ	18 19 12		Near north coast of Dominican
	SH	eZ	18 19 16		Republic.
Dec. 4	B	ePZ	18 41 18		USCGS: 11°N 61°W
	BG	eSN	49 31		0 = 18 31 07 d = 60 Km.
		eN	50 04		Near Trinidad.
		eN	51 07		
	MH	ePZ	18 41 14		
	F	iPZ	18 41 02		
		eE	49 01		
		eN	49 26		
	M	iPZ	18 41 16		
	A	eZ	18 41 15		
	R	ePZ	18 41 07		
		eSN	49 25		
	PA	ePZ	18 41 16		
	C	iP	18 41 35		
	SH	ePZ	18 41 19		
		eE	45 29		
		iNE	51 08		
Dec. 5	M	eZ	00 40 49		BCIS: Volcano Island region.
					0 = 00 27.8
Dec. 5	MH	iPZ	01 47 19		Pas.: Apia Fiji-Tonga region.
	M	eZ	01 47 34		0 = 01 35.7
	SH	eZ	01 47 28		
Dec. 5	MH	iPZ	07 38 06		BCIS: 0 = 07 27.3 d = 60 Km.
	SH	eZ	07 38 20		Bolivia.
Dec. 6	M	eZ	03 04 54		USCGS: 3½°S 151°E
	SH	eZ	03 04 48		0 = 02 51 40
					New Ireland region.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 6	MH F M SH	iPZ eZ eZ iZ	04 26 22 04 26 27 04 26 28 04 26 26		USCGS: 0 = 04 13 40 New Hebrides Islands.
Dec. 6	MH F M R SH	iPZ eZ iZ eZ iZ	12 05 47 12 05 58 12 05 34 12 05 44 12 05 27		USCGS: 54 $\frac{1}{2}$ °N 161°E 0 = 11 56 24 Near coast of Kamchatka.
Dec. 6	MH F M R	iPZ iZ iZ iZ	23 58 20 23 58 27 23 58 26 23 58 32		USCGS: 11°S 166°E 0 = 23 45 51 Santa Cruz Islands.
Dec. 7	B MH PA M R A	iPZ iPZ ePZ iPZ eE eE	04 23 32.6 04 23 42.2 04 23 37.4 04 23 26.4 04 23 51.2 04 23 00.8		Berk.: 40.5°N 126°W 0 = 04 22 36 M = 4.6 West of Ferndale.
Dec. 7	B MH F M SH	ePZ iPZ eZ eZ eZ	06 28 21 06 28 22 06 28 33 06 28 00 06 27 54		USCGS: 54°N 164 $\frac{1}{2}$ °W 0 = 06 21 33 Near Unimak Islands, Alaska.
Dec. 7	MH F M C	iPZ eZ eZ iP	14 46 37 14 46 55 14 46 14 14 45 43		
Dec. 7	MH M SH	eZ eZ eZ	15 06 34 15 06 50 15 06 18		USCGS: 3-1/2°N 125-1/2°E 0 = 14 48 30 d = 100 Km. Celebes Sea region.
Dec. 8	MH M R SH	eZ eZ eZ eZ	08 49 49 08 50 44 08 50 50 08 50 37		
Dec. 8	B MH PA	iPZ iPZ iPZ	18 46 30.7 18 46 39.9 18 46 33.3		Berk: 37° 40'N 122°23'W 0 = 18 46 24 M = 1.5 South of San Francisco. Blast?
Dec. 8	MH	iZ	20 50 05		
Dec. 9	B MH M SH	iPZ iPZ eZ iPZ	12 25 40 12 25 25 12 25 42 12 25 43		
Dec. 9	M R	eZ eZ	14 24 46 14 24 35		USCGS: 15-1/2°S 76°W 0 = 14 13 27 Off coast of Peru.
Dec. 9	M SH	eZ iZ	14 43 11 14 43 01		USCGS: 12°N 144°E 0 = 14 30 26 Marianas Islands.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 10	B MH PA	iP $\frac{1}{2}$ iPZ ePZ	00 31 08.2 00 30 55.1 00 31 02.2		Berk: 37°18'N 121°15'W 0 = 00 30 49 M = 3.0 21 miles south east of Mt. Hamilton.
Dec. 10	MH F M	ePZ ePZ eZ	00 43 49 00 42 55 00 42 58		USCGS: 12°S 172-1/2°W 0 = 00 31 40 Samoa Islands.
Dec. 10	MH M	iPZ ePZ	07 57 07 07 57 02		
Dec. 10	M R	eZ eZ	10 05 01 10 05 16		USCGS: 13°S 171°W 0 = 09 53 43 Samoa Islands.
Dec. 10	B BG MH	iPZ eSE eZ	13 08 09 13 39 13 08 03		USCGS: 18-1/2°N 81-1/2°W 0 = 13 00 27 M = 6-1/4 - 6-1/2 West of Jamaica.
	F M R C	iZ ePZ ePZ eP	08 04 13 07 51 13 08 11 13 08 00 13 08 35		
Dec. 10	MH M R SH	iPZ iPZ ePZ iPZ	17 13 51 17 13 04.0 17 13 27.7 17 13 15.1		Berk: 40°33'N 121°22'W 0 = 17 13 00 M = 3.3 13 miles northeast of Mineral.
Dec. 10	M	eZ	17 36 29		
Dec. 11	M	eZ	02 13 45		
Dec. 11	M	eZ	03 46 27		USCGS: 1-1/2°S 13-1/2°W 0 = 03:32:15 off coast of Liberia.
Dec. 11	M	eZ	04 57 08		
Dec. 11	MH F M R SH	iPZ eZ iPZ eZ iPZ	12 29 22 12 29 23 12 29 24 12 29 34 12 29 28		USCGS: 0 = 12 17 52 Tonga Islands Region.
Dec. 11	B	iPZ ePPZ eSNE	13 07 27 09 39 15 38	c	USCGS: 52-1/2°N 32°W 0 = 12 57 07 M = 6-1/2 North Atlantic Ocean.
	MH F	iPZ ePP iPZ	13 07 26 09 37 13 07 24	c	
	M R	iPZ iPZ	13 07 08 13 07 11	c	
	PA C SH	eN iPZ ePZ iPZ	15 18 13 07 27 13 06 57 13 07 12		
		ePP iPZ	09 05 22 30 55		
Dec. 11	C	iPZ	22 30 55		
Dec. 12	MH F	eZ eZ	10 52 27 10 52 28		USCGS: 0 = 10 39 32 Kermadec Islands.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 12	M	eZ	10 52 45		
(contd)	SH	eZ	10 52 37		
Dec. 12	MH	eZ	13 40 33		
	F	eZ	13 40 27		
	M	eZ	13 40 20		
Dec. 12	B	iP*Z	14 04 52.0		Berk: 37°00'N 121°45'W O = 14 04 34 M = 2.3 25 miles south west of Mt. Hamilton.
	MH	iPZ	14 04 41.2		
	PA	iPZ	14 04 44.8		
Dec. 12	MH	iPZ	17 22 04		
	M	eZ	17 22 08		
	SH	iPZ	17 22 06		
Dec. 13	MH	iZ	01 42 48		USCGS: 0 = 01 29 50 Southern Kurile Islands.
	F	eZ	01 43 09		
	M	eZ	01 40 18		
		iZ	42 43		
	SH	iZ	01 42 41		
Dec. 13	B	iPZ	02 16 15.7		Berk: 37°46'N 122°32'W O = 02 16 11 M = 1.9 North west of San Francisco.
	MH	iP*Z	02 16 27.0		
	PA	iPZ	02 16 20.4		
Dec. 13	B	ePZ	03 44 16.0		Berk: Nevada aftershock. O = 03 43 18 M = 3.9
	MH	iPZ	03 44 11.4		
	PA	iPZ	03 44 19.3		
	SH	iPZ	03 44 12.5		
	M	iPZ	03 44 00.6		
	R	iPZ	03 43 36.9		
Dec. 13	F	eZ	04 12 58		USCGS: 0 = 04 06 46 Off south coast of Kodiak Islands.
	M	eZ	04 12 25		
	R	eZ	04 12 43		
	SH	eZ	04 12 19		
Dec. 13	M	eZ	09 41 40		USCGS: 7°N 126-1/2°E O = 09 20 09 Near east coast of Mindanao, Philippine Islands.
Dec. 13	B	ePZ	10 50 03.8		Berk: 39°17'N 120°10'W O = 10 49 26 M = 3.6 Near Truckee, Calif.
	MH	ePZ	10 50 05.4		
	SH	ePZ	10 50 03.7		
	PA	ePZ	10 50 06.1		
	M	iPZ	10 49 52.2		
	F	ePZ	10 50 13.6		
	R	iE	10 49 33.2		
Dec. 13	MH	iPZ	12 56 19		USCGS: 13-1/2°S 173-1/2°W O = 12 45 02 Samoa Islands.
	F	eZ	12 56 24		
	M	eZ	12 56 41		
	R	eZ	12 56 34		
	SH	eZ	12 55 58		
Dec. 13	R	eZ	16 15 47		USCGS: 19°N 101°W O = 16 10 10 Guerrero, Mexico.
Dec. 13	M	eZ	19 27 17		
	R	eZ	19 26 27		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 14	MH	eZ	02 03 51		USCGS: 0 = 01 51 55 Tonga Islands.
	F	eZ	02 03 55		
	M	eZ	02 04 01		
	SH	eZ	02 03 33		
Dec. 14	B	iPZ	17 17 59.5		Berk: 39.9°N 124.1°W O = 17 17 19 M = 3.7 In Pacific Ocean west of Garberville, Calif.
	MH	iPZ	17 18 09.9		
	SH	iPZ	17 17 45.4		
	PA	iPZ	17 18 04.1		
	M	ePZ	17 17 53.8		
	F	eZ	17 18 37.7		
	R	eZ	17 18 23		
Dec. 14	MH	iPZ	18 46 31.7		Berk: 40.3°N 124.5°W O = 18 46 36 M = 2.8 Off west coast from Ferndale, Calif.
	SH	iPZ	18 46 07.1		
	PA	iPZ	18 46 28.0		
	M	iPZ	18 46 15.1		
	A	eE	18 45 48.6		
Dec. 15	B	iPZ	06 31 42.2		Pas: 39.5°N 118°W O = 06 30 40 Nevada foreshock.
	SH	iPZ	06 31 33.4		
	PA	ePZ	06 31 39.2		
	M	ePZ	06 31 22.8		
	F	iPZ	06 31 31.8		
	R	iPZ	06 31 00.3		
Dec. 16	B	iPZ	07 10 07	d	USCGS: 24°S 175°W O = 06 57 57 Tonga Islands.
	MH	ePZ	07 10 02	d	
	F	ePZ	07 10 10		
	M	iPZ	07 10 18		
	R	eZ	07 10 21		
	PA	iZ	07 10 06		
	SH	iPZ	07 10 19	d	
Dec. 16	B	iPZ	11 08 06.4		Berk: 39°19'N 118°12'W O = 11 07 13 M = 7.2 East of Fallon, Nevada, ad now named Fairview Peak-Dixie Valley Earthquake.
	MH	iPZ	11 08 02.9		
	A	ePNE	11 08 23.9		
	F	iPZ	11 07 55.8		
	PA	ePZ	11 08 08.8		
	SH	iPZ	11 08 07.9		
	C	iPZ	11 08 51		
	M	iFZ	11 07 57.9		
	Fe	eP	11 08 34		
	R	iPZ	11 07 35.9		
Dec. 16					An aftershock of magnitude 7.1 occurred at 11-11-29 but the records overlapped the first earthquake so that individual readings are impossible.
Dec. 16	C	ePZ	12 00 49		Nevada aftershock.
	A	eN	12 00 35		
Dec. 16	PA	ePEN	13 16 07.8		Nevada aftershock. O = 13 15 03 M = 5.0
	C	eP	13 16 44		
	F	iZ	13 15 59.6		
	M	eNE	13 15 50.7		
	A	eN	13 16 34.4		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 16	PA	ePZ	14 17 53.7		Nevada aftershock.
	C	eP	14 18 37		0 = 14 16 57 M = 5.8
	F	eZ	14 17 47.6		
	M	eE	14 17 44.5		
	A	eN	14 18 24.3		
Dec. 16	PA	ePZ	15 10 37.3		Nevada aftershock.
	C	eP	15 11 24		0 = 15 09 42 M = 5.1
	F	eZ	15 10 35.7		
	M	eNE	15 10 30.4		
	A	eN	15 11 03.9		
Dec. 16	B	ePZ	21 49 33.2		Nevada aftershock.
	MH	iPZ	21 49 31.3		0 = 21 48 43 M = 4-1/2
	PA	ePZ	21 49 39.8		
	F	iPZ	21 49 28.9		
	M	ePNE	21 49 27.8		
	SH	iPZ	21 49 38		
	R	iPZ	21 49 06		
Dec. 17	MH	eZ	05 37 27		
	F	eZ	05 37 11		
	M	eZ	05 37 53		
Dec. 17	B	iPZ	07 09 01.3		Berk: 37°43'N 122°08'W
	MH	iPZ	07 09 07.8		0 = 07 08 58 M = 4.5
	SH	ePZ	07 09 42.4		12 miles south east of Berkeley.
	PA	iPZ	07 09 04.1		
	F	ePZ	07 09 30.9		
	M	iPZ	07 09 26.0		
Dec. 17	SH	ePZ	10 16 19.1		Nevada aftershock.
	PA	ePZ	10 16 30.3		0 = 10 15 26 M = 4.5
	R	iPZ	10 15 46.7		
Dec. 17	B	ePZ	10 34 29.3		Nevada aftershock.
	MH	iPZ	10 34 25.3		0 = 11 33 29 M = 4.7
	C	ePE	10 36 53		
	SH	iPZ	10 34 27.0		
	PA	ePZ	10 34 31.8		
	F	ePZ	10 34 23.9		
	M	iPZ	10 34 16.9		
	A	eE	10 34 46.4		
	R	iPZ	11 33 45.2		
Dec. 17	MH	iPZ	15 22 43.8		Berk: 36°44'N 121°20'W
	PA	ePZ	15 22 49.1		0 = 15 22 31 M = 2.6
					South east of Hollister.
Dec. 17	B	ePZ	15 59 11.1		Nevada aftershock.
	MH	iPZ	15 59 06.2		0 = 15 57 56
	SH	iPZ	15 59 01.8		
	F	ePZ	15 58 57.4		
	R	iPZ	15 58 16.3		
Dec. 17	B	ePZ	20 27 56.5		Nevada aftershock.
	MH	iPZ	20 27 54.9		0 = 20 27 06 M = 5.0
	C	ePE	20 28 41		
	SH	ePZ	20 27 58.7		
	PA	ePZ	20 28 02.3		
	F	eZ	20 27 48.6		
	R	iPZ	20 27 26.0		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 18	B	ePZ	01 46 38.1		Nevada aftershock.
	MH	ePZ	01 46 35.7		0 = 01 45 36 M = 4.7
	C	ePE	01 47 25		
	PA	ePZ	01 46 38.3		
	F	ePZ	01 46 31.0		
	SH	iPZ	01 46 35.4		
	M	ePZ	01 46 24.4		
	R	iPZ	01 46 03.7		
Dec. 18	B	ePZ	22 24 11.2		Nevada aftershock.
	MH	iPZ	22 24 01.5		0 = 22 23 05 M = 4.0
	F	ePZ	22 24 00.5		
	M	iPZ	22 23 53.5		
	SH	iPZ	22 24 04.4		
	R	iPZ	22 23 30.8		
Dec. 19	B	ePZ	02 03 14.6		Nevada aftershock.
	MH	iPZ	02 03 14.2		0 = 02 02 17 M = 4.0
	PA	ePZ	02 03 18.3		
	F	ePZ	02 03 13.6		
	SH	iPZ	02 03 16.6		
	M	eZ	02 03 04.9		
	R	iPZ	02 02 43.2		
Dec. 19	B	ePZ	04 00 55.4		Nevada aftershock.
	MH	iPZ	04 00 53.4		0 = 03 59 56 M = 4.2
	PA	ePZ	04 00 58.7		
	F	ePZ	04 00 49.1		
	SH	ePZ	04 00 55.2		
	M	ePZ	04 00 44.2		
	R	iPN	04 00 22.2		
Dec. 19	B	iPZ	05 02 28.3		Nevada aftershock.
	MH	ePZ	05 02 23.2		0 = 15 01 27 M = 4.0
	PA	ePZ	05 02 29.8		
	F	ePZ	05 02 25.2		
	SH	ePZ	05 02 25.1		
	M	ePZ	05 02 13.4		
	R	ePZ	05 01 51.3		
Dec. 19	F	eZ	05 23 14		
	M	iZ	05 23 06		
	SH	iZ	05 23 00		
Dec. 19	B	ePZ	10 35 27		USCGS: 23°S 66-1/2°W
		pP	36 13		0 = 10 23 40 M = 6-1/2 - 6-3/4
		S NE	45 13		Argentina d = 250 Km.
	MH	iPZ	10 35 24		
		pP	36 25		
	F	ePZ	10 35 15		
		pP	36 05		
		SN	44 49		
	M	iPZ	10 35 33		
		pP	36 36		
	A	eN	10 45 45		
	R	ePZ	10 35 27		
	C	eP	10 35 53		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 19 (contd)	SH	iPZ pP S N	10 35 37 36 40 45 31		
Dec. 19	MH PA M	iPZ iPZ eZ	19 27 11.9 19 27 14.5 19 27 19.7		Berk: 38.3°N 119.3°W O = 19 26 35 California-Nevada border.
Dec. 20	MH F M R	iPZ eZ iZ eZ	01 50 27 01 50 17 01 50 38 01 50 32		USCGS: O = 01 38 01 d = 100 Km. Central Argentina-Chile border.
Dec. 20	SH B MH PA F SH M R	eZ ePZ iPZ ePZ ePZ eZ eZ iPZ	01 50 41 02 28 31.2 02 28 30.7 02 28 43.0 02 28 31.6 02 28 30.2 02 28 20.2 02 27 59.5		Nevada aftershock. O = 02 27 33 M = 4.0
Dec. 20	MH M SH	iZ eZ iZ	09 47 32 09 47 39 09 47 38		New Hebrides region.
Dec. 20	B MH PA	iPZ iPZ iPZ	10 29 18.6 10 29 28.3 10 29 22.3		Aftershock of Dec. 17 (07:09) M = 0.7
Dec. 20	F M	ePZ iPZ	12 42 58 12 43 02		USCGS: 17°S 178-1/2°W O = 12 31 58 d = 600 Km. Fiji Islands.
Dec. 20	B MH PA F M SH R	iPZ iPZ eZ eZ iPZ iPZ iPZ	15 49 49.4 15 49 46.8 15 49 56.5 15 49 38.9 15 49 43.5 15 49 53.7 15 49 20.8		Nevada aftershock. O = 15 48 54 M = 4.2
Dec. 20	MH F M R SH	iZ eZ eZ eZ eZ	17 47 59 17 48 08 17 48 14 17 48 18 17 48 11		USCGS: 24°S 175°W O = 17 35 54 d = 600 Tonga Islands region.
Dec. 20	B MH C PA SH F A M R	iPZ iPZ eP ePZ iPZ ePZ eN iPZ iPZ	17 37 50.4 17 37 47.5 17 38 25 17 37 47.5 17 37 44.3 17 37 42.7 17 38 19.2 17 37 33.7 17 37 14.5		Nevada aftershock. O = 17 36 47 M = 5.0
Dec. 21	MH F M R	eZ eZ eZ eZ	10 13 02 10 12 44 10 13 15 10 13 03		USCGS: O = 10 06 10 d = 150 Km. Near coast of Guatemala.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 21	B M MH PA SH C A F R	iPZ iPZ iPZ iPZ iPZ iP iP iPZ iPZ	19 57 18.4 19 56 59.5 19 57 28.4 19 57 24.6 19 56 50.4 19 57 26 19 56 31.7 19 57 47.1 19 57 22.7		Berk: 40°47'N 123°52'W O = 19 56 29 M = 6.5 9 miles south east of Arcata.
Dec. 21	MH M SH	iPZ eZ iPZ	22 16 04 22 15 59 22 15 57		USCGS: 22-1/2°N 146°E O = 22 04 05 Marianas Islands region.
Dec. 21	B MH PA F M R	ePZ iPZ eS eZ eZ iPZ	23 33 28.0 23 33 22.8 23 33 48.9 23 33 21.5 23 33 06.8 23 32 47.5		Nevada aftershock. O = 23 37 17
Dec. 22	B MH F M R SH R	ePZ iPZ eZ iPZ iPZ iPZ iPZ	01 45 27.5 01 45 16.8 01 45 14.7 01 45 10.8 01 45 21.8 01 44 49.4 03 59 30.5		Nevada aftershock. O = 01 44 19
Dec. 22	MH M SH R	iPZ iPZ ePZ iPZ	03 59 27.9 03 59 14.1 03 59 26.8 03 58 57.7		Nevada aftershock. O = 03 58 38
Dec. 22	MH M	eZ iZ	04 31 12 04 31 18		USCGS: 5-1/2°S 154-1/2°E O = 04 18 16 Solomon Islands.
Dec. 22	B MH F M SH R	iPZ ePZ eZ iPZ iPZ iPZ	06 44 48.3 06 44 17.3 06 44 33.7 06 44 33.4 06 44 42.8 06 44 10.0		Nevada aftershock. O = 06 43 40
Dec. 22	B MH PA F SH M R	ePZ iPZ eN eZ iPZ iPZ iPZ	07 15 13.7 07 15 08.6 07 16 11.7 07 15 07.9 07 15 11.2 07 15 00.7 07 14 38.8		Nevada aftershock. O = 07 14 12 M = 4.1
Dec. 22	B MH C PA F SH	ePZ iPZ ePE eFN ePZ iPZ	10 40 13.7 10 40 09.7 10 41 07 10 40 23.0 10 40 01.6 10 40 17.2		Nevada aftershock. O = 10 39 18 M = 4.2

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 22 (contd)	M	ePZ	10 40 07.1		
	R	iPZ	10 39 44.0		
Dec. 22	B	ePZ	11 32 27.3		Nevada aftershock.
	MH	iPZ	11 32 18.4		0 = 11 31 18
	F	eZ	11 32 18.8		
	M	iPZ	11 32 09.9		
	R	ePZ	11 31 47.7		
Dec. 22	SH	iPZ	18 33 24.4		Berk: 40°47'N 123°52'W
	A	iNE	18 33 37.0		0 = 18 33 02 M = 3.5
	M	eNE	18 33 37.0		Eureka aftershock.
Dec. 22	B	ePZ	21 12 59.1		Berk: 36.0°N 121.0°W
	F	iPZ	21 12 47		0 = 21 12 24 M = 3.7
					Southeast of King City.
Dec. 23	SH	iPZ	10 41 23		
Dec. 23	M	eZ	16 41 44		USCGS: 38°N 21°E
					0 = 16 27 16
					Near west coast of Greece.
Dec. 23	B	iPZ	19 05 22.0		Berk: 36°47'N 121°26'W
	MH	iPZ	19 05 10.2		0 = 19 04 59 M = 3.4
	PA	ePE	19 05 14.9		South of Hollister, Calif.
	F	eSN	19 05 43.6		
	M	ePZ	19 06 01.0		
Dec. 23	B	iPZ	21 03 21.9		Nevada aftershock.
	MH	iPZ	21 03 10.8		0 = 21 02 12
	C	ePZ	21 03 52		
	F	eZ	21 03 10		
	SH	iPZ	21 03 14.4		
	M	iPZ	21 03 04.0		
	R	iPZ	21 02 41.5		
Dec. 23	B	ePZ	21 20 45.2		Nevada aftershock.
	MH	iPZ	21 20 43.7		0 = 21 19 44
	F	eZ	21 20 43.0		
	M	iPZ	21 20 36.0		
	SH	iPZ	21 20 45.9		
	R	iPZ	21 20 13.9		
Dec. 24	B	iPZ	01 08 25.1		USCGS: 0 = 00 56 17 d = 150 Km.
	MH	iPZ	01 08 27.4		Santa Cruz Islands.
	F	eN	01 08 35		
	M	iPZ	01 08 31.7		
	R	iPZ	01 08 38.2		
Dec. 24	M	eZ	02 46 49.3		USCGS: 0 = 02 34 53
					Bonin Islands.
Dec. 24	SH	ePZ	09 10 34.8		Berk: 40°44'N 124°04'W
	A	iN	09 10 13.6		0 = 09 10 11 M = 3.5
	M	ePZ	09 10 42.7		Eureka aftershock.
	R	eZ	09 11 15.7		
Dec. 24	B	ePZ	18 19 59.7		Nevada aftershock.
	MH	iPZ	18 19 50.8		0 = 18 18 53
	M	iPZ	18 19 45.6		
	R	iPZ	18 19 23.5		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 24	B	ePZ	20 09 38.5		Nevada aftershock.
	MH	iPZ	20 09 28.7		0 = 20 09 26
	F	eN	20 09 35.5		
	SH	eZ	20 09 32.2		
	R	iPZ	20 08 55.7		
	M	iPZ	20 09 15.9		
Dec. 25	B	ePZ	02 59 33.3		Nevada aftershock.
	MH	ePZ	02 59 23.6		0 = 02 58 22
	F	eZ	02 59 21.5		
	R	iPZ	02 58 51.7		
	SH	iPZ	02 59 23.3		
	M	ePZ	02 59 13.1		
Dec. 26	B	ePZ	03 53 21		USCGS: 30°N 141-1/2°E
	MH	iPZ	03 53 30		0 = 03 41 01 d = 200 Km.
	F	eZ	03 53 15		Japan.
	M	eZ	03 52 28		
	SH	eZ	03 52 26		
Dec. 26	B	ePZ	05 27 27.7		Nevada aftershock.
	MH	iPZ	05 27 19.3		0 = 05 26 23
	PA	ePZ	05 27 26.3		
	F	eZ	05 27 18.0		
	R	iZ	05 26 53.0		
	M	iPZ	05 27 15.4		
Dec. 26	M	eZ	09 59 56		USCGS: 0 = 09 55 15
					Southern Gulf of California.
Dec. 26	M	eZ	18 18 02		USCGS: 0 = 18 10 35 d = 200 Km.
					El Salvador.
Dec. 26	B	ePZ	20 38 37.8		Nevada aftershock.
	MH	iPZ	20 38 29.8		0 = 20 37 28
	F	eZ	20 38 29.4		
	R	iPZ	20 37 58.0		
	SH	ePZ	20 38 29.1		
	M	iPZ	20 38 20.1		
Dec. 26	B	iPZ	22 07 37.9		Nevada aftershock.
	MH	iPZ	22 07 35.6		0 = 22 06 45 M = 4.1
	F	eZ	22 07 22.0		
	R	eZ	22 07 10.6		
	SH	ePZ	22 07 42.7		
	M	iPZ	22 07 32.8		
Dec. 27	MH	iPZ	05 43 52		USCGS: 19°S 178°W
	F	eZ	05 43 56		0 = 05 32 45 d = 500 Km.
	M	iPZ	05 44 02		Fiji Islands.
	R	ePZ	05 44 05		
	SH	iPZ	05 44 00		
Dec. 27	B	iPZ	05 49 33.7		Nevada aftershock.
	MH	iPZ	05 49 32.5		0 = 05 48 37
	F	ePZ	05 49 31.2		
	SH	iPZ	05 49 43.7		
	R	ePZ	05 49 06.9		
	M	iPZ	05 49 32.6		
Dec. 27	F	eZ	07 06 30		USCGS: 5-1/2°S 130°E
	M	eZ	07 06 08		0 = 06 47 23
	R	eZ	07 06 20		Banda Sea.

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 27 (contd)	SH	eZ	07 06 07		
Dec. 27	M	eZ	07 32 08		USCGS: 30-1/2°N 141°E 0 = 07 19 16 Japan.
Dec. 27	F	eZ	19 15 15		USCGS: 12°N 146-1/2°E
	M	iZ	19 14 25		0 = 19 03 06
	R	iZ	19 13 59		Marianas Islands.
	SH	iZ	19 15 38		
Dec. 28	B	eZ	01 14 04.9		USCGS: 5°S 152-1/2°E
		eNE	01 24 17		0 = 01 00 37
	MH	ePZ	01 13 43		New Britain region.
	F	eZ	01 13 54		
	M	eZ	01 14 04		
	R	eZ	01 13 50		
	SH	eZ	01 13 21		
Dec. 28	MH	eZ	02 27 15		USCGS: 0 = 02 14 13
	M	iZ	02 27 38		New Britain aftershock.
Dec. 28	MH	iPZ	07 18 23		
	M	eZ	07 18 35		
Dec. 28	MH	eZ	22 25 00		USCGS: 0 = 22 18 20
	M	eZ	22 25 23		100 miles off coast of Chiapas, Mexico.
Dec. 29	MH	ePZ	09 49 24		USCGS: 0 = 09 39 59
	F	eZ	09 49 36		56°N 160-1/2°E
	M	eZ	09 50 07		Kamchatka.
	R	eZ	09 49 20		
Dec. 29	SH	ePZ	09 49 03		
	MH	eZ	10 15 54		
	M	eZ	10 16 04		
	SH	eZ	10 16 04		
Dec. 29	B	iPZ	10 50 23.6		Berk: 38°59'N 119°54'W
	MH	iPZ	10 50 11.8		0 = 10 49 32
	F	ePZ	10 50 11.4		20 miles north of Markleeville.
	R	ePZ	10 49 42.7		
	SH	ePZ	10 50 13.1		
	M	iPZ	10 50 04.1		
Dec. 30	B	iPZ	09 17 01.4		Berk: 40°47'N 123°52'W
	MH	iPZ	09 17 11.5		0 = 09 16 13 M = 4.7
	C	iPZ	09 17 07		9 miles south east of Arcata.
	PA	ePN	09 17 05		
	SH	iPZ	09 16 33.8		
	F	eZ	09 17 36.4		
	Fe	iNE	09 16 20		
	SF	eE	09 17 03.7		
	R	eZ	09 17 09.4		
	M	iPZ	09 16 43.9		
Dec. 30	B	iPZ	10 48 36		USCGS: 15°S 174°W
	MH	iPZ	10 49 38		0 = 10 37 13
	F	eZ	10 48 02		Tonga Islands.
	M	eZ	10 48 48		
	SH	ePZ	10 48 57		

Date	Sta.	Phase	Time (GCT)	Ground motion	Remarks
1954			h. m. s.		
Dec. 30	B	iPZ	11 39 17	d	USCGS: 53°N 168°W
		iSNE	45 24		0 = 11 32 28 M = 6-1/2 - 6-3/4
	MH	iPZ	11 39 24	d	d = 60 Km.
	F	iPZ	11 39 37		Fox Island, Aleutian Islands.
	M	iPZ	11 39 08		
	R	iPZ	11 39 22		
	SF	eE	11 39 20		
	C	iPZ	11 38 28		
	SH	iPZ	11 39 03	d	
Dec. 30	B	iPZ	14 21 09.3		Nevada aftershock.
	MH	iPZ	14 20 58.1		0 = 14 20 00
	F	eZ	14 20 56.4		
	SF	eE	14 21 11.6		
	R	ePZ	14 20 30.4		
	SH	ePZ	14 21 02.7		
	M	ePZ	14 20 32.9		
Dec. 31	B	iPZ	02 28 43.3		Nevada aftershock.
	MH	ePZ	02 28 32.5		0 = 02 27 31
	F	eZ	02 28 31.9		
	SF	eE	02 30 33.9		
	R	iPZ	02 28 01.5		
	SH	iPZ	02 28 32.5		
	M	ePZ	02 28 22.9		
Dec. 31	F	eZ	14 37 11		USCGS: 52°N 159°E
	M	eZ	14 36 45		0 = 14 27 21
	R	eZ	14 36 57		Kamchatka.
Dec. 31	B	iPZ	16 57 46.1		Pas: 37.6°N 118.5°W
	MH	iPZ	16 57 39.7		0 = 16 56 53 M = 4.0
	PA	ePZ	16 57 41.4		Northern Owens Valley, Calif.
	F	iPZ	16 57 19.4		
	R	eZ	16 57 42.2		
	M	iPZ	16 58 03.4		