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Department of Commerce
Charles Sawyer, Secretary

U. S. Coast and Geodetic Survey
R. F. A. Studds, Director

SEISMOLOGICAL BULLETIN

October, November, December, 1949

MSI - 140

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DEPARTMENT OF COMMERCE

Charles Sawyer, Secretary

U. S. COAST AND GEODETIC SURVEY

R. F. A. Studds, Director

S E I S M O L O G I C A L . B U L L E T I N

October, November, December, 1949
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Issued by the U. S. Coast and Geodetic Survey
Washington 25, D. C.

A-4290-4(92)+

The instrumental results of the following stations are tabulated in this report.

**Balboa Heights, C. Z. (BH)
The Panama Canal
*Bermuda (BER)
Meteorological Station and International Union Geodesy and Geophysics
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
Honolulu, T. H. (HONO)
*Huancayo, Peru (HUAN)
Geophysical Institute of Huancayo
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
**New Kensington, Pa. (NK)
Private station
*Overton, Nev. (OV)
Bureau of Reclamation and
National Park Service
**Philadelphia, Pa. (PHIL)
The Franklin Institute
*Pierce Ferry, Ariz. (PF)
Bureau of Reclamation and
National Park Service
*Rapid City, S. Dak. (RC)
South Dakota State School of Mines
and Technology
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
*Shasta, Calif. (SH)
Bureau of Reclamation
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

*Indicates a station maintained by a local institution in cooperation with the U. S. Coast and Geodetic Survey.

**Indicates a station operating on an independent basis.

Other stations are observatories of the U. S. Coast and Geodetic Survey.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights. All epicenters located in northern and southern California are determined by Berkeley and Pasadena respectively, and the magnitudes by Pasadena unless otherwise stated.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicate probable error of one-quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

***

PROVISIONAL EPICENTERS

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
1	07 03 10**			Pacific Ocean, 150 miles south of Bonin Islands. h = about 200 km.
1	18 00 42*	8 S.	31½ E.	Tanganyika, South Africa.
2	02 29 25*	17 N.	49 W.	North Atlantic Ocean.
2	11 46 38*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
3	02 23 43*	52 N.	175 W.	.....Do.
3	09 15 38*	56 S.	27 W.	Sandwich Islands.
3	12 44 27**			Off east coast of New Guinea.
3	23 51 52*	55 N.	157 W.	Alaska Peninsula.
4	04 28 30**			Samoa Islands.
	09 58 24*	30 S.	70 W.	Northern Chile. Felt.
	10 20 23*	1 S.	21 W.	Atlantic Ocean. Mag. 6¼
4	17 13 04	33 59 N.	116 51 W.	North of Banning, Calif. Mag. 2.6
5	02 33 47.5	44.8 N.	70.5 W.	West-central Maine. Felt in Maine, New Hampshire, and Vermont.
5	16 20 35*	39 N.	22½ E.	Near east coast of Greece. Felt at Agrinion.
5	19 07 00**			New Britain region.
5	21 04 34**			Ryukyu Islands region.
5	21 55 47**			Bonin Islands region.
6	04 12 20	33 54 N.	115 48 W.	Pinto Basin, Calif. Mag. 3.4
6	08 59 53**			Tonga Islands.
7	12 02 19*	33 S.	56½ E.	Indian Ocean. h = about 60 km. Mag. 6-3/4
7	22 36 00**			Indian Ocean aftershock.
8	03 08 46*	36 N.	16 E.	Off south coast of Sicily. Felt at Catania and Acreale.
8	20 34 19**			Off east coast of Formosa.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
9	03 51 12**			Fiji Islands region. h = about 600 km.
9	13 44 30**			Samoa Islands region.
10	21 23 55**			Kamchatka.
10	23 44 14**			Hokkaido, Japan.
11	00 25 55	34 00 N.	116 26 W.	Northeast of Seven Palms Well, Calif. Mag. 3.0
11	03 35 30**			Fox Islands, Aleutian Islands.
11	09 05 18*	43 N.	144 E.	Near east coast of Hokkaido, Japan. Felt. h = about 100 km.
11	11 36 54*	33½ S.	178½ W.	Kermadec Islands region.
13	03 35 44*	16 S.	176 W.	Fiji Islands region. h = about 200 km.
13	04 20 40	33 51 N.	115 51 W.	Pinto Basin, Calif. Felt at Indio. Mag. 4.0
13	12 47 20*	17½ N.	100 W.	Near coast of Guerrero, Mexico.
14	00 29 25	33 11 N.	116 23 W.	Near Borego, Calif. Felt in Borego Valley, Dulzura, and Mount Helix. Mag. 4.1
14	00 46 36	33 11 N.	116 23 W.	Borego, Calif., aftershock. Mag. 3.2
14	01 02 36	33 11 N.	116 23 W.	Borego, Calif., aftershock. Mag. 3.4
15	23 15 01	34 58 N.	116 57 W.	Northeast of Barstow, Calif. Mag. 2.8
16	16 05 22	37 40 N.	118 40 W.	Northern Owens Valley, Calif. Felt at Long Valley Dam. Mag. 3.1
16	16 22 00**			Southern Alaska.
16	23 33 44.8	40.4 N.	74.8 W.	Canada, near Alexandria, Ontario. Felt.
17	02 41 45	37 00 N.	121 13 W.	East of Gilroy, Calif. Mag. 3.8
17	03 44 15*	19 S.	174 W.	Tonga Islands region. h = about 200 km.
17	13 20 57	33 57 N.	116 58 W.	Northeast of Whitewater, Calif. Felt at Palm Springs and Snow Creek Canyon. Mag. 3.5
19	06 53 37**			Fox Islands, Aleutian Islands.
19	21 00 17*	6 S.	154½ E.	Solomon Islands. h = about 60 km. Two-foot sea wave recorded at Rabaul, New Britain. Mag. 7¼

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° ′	° ′	
20	03 26 35	37 40 N.	118 40 W.	Northern Owens Valley, Calif. Felt at Long Valley Dam. Mag. 3.5
20	11 41 58*	5 S.	151 E.	New Britain.
20	12 44 54*	5½ S.	154 E.	Solomon Islands aftershock. Mag. 6½
20	18 12 48*	19 S.	178½ W.	Fiji Islands. h = about 500 km.
21	03 32 15**			Fox Islands, Aleutian Islands.
21	06 09 01*	21½ N.	121 E.	Off south coast of Formosa.
21	21 34 33*	5½ S.	153½ E.	Solomon Islands foreshock. h = about 100 km.
22	03 42 32	40.5 N.	126.6 W.	Off coast of Cape Mendocino, Calif. Mag. 4.4
22	21 45 21*	36½ N.	121½ W.	Near coast of California. Felt at Hollister, Big Sur, and Morgan Hill. Mag. 4.7
23	05 12 44*	4 S.	144 E.	Near north coast of New Guinea. h = about 150 km.
24	02 22 33	37 40 N.	118 18 W.	Southeast of Benton, Calif. Mag. 4.1
25	03 05 08	35 44 N.	118 05 W.	North of Walker Pass, Calif. Mag. 2.7
25	03 56 30**			Fox Islands, Aleutian Islands.
25	04 18 52	40.6 N.	125.2 W.	Off coast of Cape Mendocino, Calif. Mag. 3.9
25	13 07 38*	36 N.	140 E.	Honshu, Japan. Felt. h = about 100 km.
26	00 02 31*	10½ N.	41 W.	North Atlantic Ocean.
26	09 13 11*	6 S.	153 E.	Solomon Islands.
27	04 37 55**			Arizona-Mexico border.
27	08 24 15*	30 N.	112 W.	Gulf of California. Mag. 5
27	10 05 37**			Gulf of California aftershock.
27	10 02 22*	24½ S.	180	South of Fiji Islands.
27	18 35 58*	49 N.	155 E.	Kurile Islands.
27	21 23 45**			Cape Mendocino foreshock.
28	00 12 08*	34 N.	142 E.	Off east coast of Honshu, Japan.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
28	02 29 15*	41 N.	124 W.	Off coast of Cape Mendocino, Calif. Mag.4.5
28	13 22 33	34 03 N.	115 48 W.	Pinto Basin, Calif. Mag. 3.2
28	16 26 12*	6 S.	153 E.	New Britain region.
28	18 48 01*	20 S.	179 W.	Fiji Islands region. h = about 450 km.
28	22 18 08**			Banda Sea.
29	00 06 20	37.5 N.	121.0 W.	Near Modesto, Calif. Mag. 3.4
29	00 21 43*	17 S.	174 W.	Samoa Islands region.
29	06 31 46*	10 S.	160 E.	Solomon Islands.
29	14 12 57**			Fiji Islands region. h = about 500 km.
29	22 27 40	34 01 N.	115 59 W.	Northeast of Pinto Basin, Calif. Mag. 2.9
30	05 33 20*	19 S.	169 E.	New Hebrides Islands.
30	05 34 13*	52½ N.	168 W.	Fox Islands, Aleutian Islands.
30	23 54 05*	33 S.	180	Kermadec Islands region. h = about 60 km.
31	00 02 27**			Tonga Islands region.
31	01 39 32*	56 N.	135 W.	Near coast of southeastern Alaska. Felt in Sitka. Mag. 6-3/4
31	02 32 11*	56 N.	135 W.	Southeastern Alaska aftershock.
31	02 50 37**			New Hebrides Islands region.
31	07 44 01*	49 N.	156 E.	Kurile Islands.
31	17 55 39*	5½ S.	154 E.	Solomon Islands region. h = about 100 km. Mag. 6-3/4
Nov. 1	07 32 49*	5 S.	153½ E.	New Britain region. h = about 100 km.
1	10 58 34	33 59 N.	115 45 W.	Pinto Basin, Calif. Mag. 3.2
1	11 55 50*	40½ N.	127 W.	Off coast of Cape Mendocino, Calif. Mag.4.7
1	12 04 24**			About 100 miles off east coast of Mindanao, Philippine Islands.
1	13 04 25*	48 N.	93 E.	Mongolia.
1	19 09 58*	31½ N.	112 W.	Northwestern Mexico.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
2	02 07 15**			Near south coast of Dominican Republic.
2	02 29 36*	36½ N.	113 W.	Northwestern Arizona. Felt in Arizona and Utah. Mag. 4.7
2	02 32 32*	3 S.	135 E.	Northwestern New Guinea.
2	03 27 43**			New Britain region.
2	23 08 21	33 46 N.	120 29 W.	Southwest of Santa Rosa Island. Mag. 3.6
3	01 12 37*	48½ N.	154 E.	Kurile Islands. h = about 200 km. Mag. 6.9
4	06 17 27**			East China Sea, about 100 miles northeast of Formosa.
4	20 42 40	32.2 N.	116.6 W.	Near Guadalupe, Lower California. Felt from southern California to Guadalupe, Mexico. Mag. 5.7
5	04 35 24	32 12 N.	116 33 W.	Lower California aftershock. Felt at San Diego. Mag. 5.1
5	15 05 38*	37 N.	55 E.	Northern Iran.
5	20 02 07	32 12 N.	116 33 W.	Lower California aftershock. Felt at San Diego and Jamul, Mexico. Mag. 4.0
6	01 11 25**			About 150 miles off south coast of Guatemala.
6	12 12 36**			Central Mexico. h = about 100 km.
6	23 05 10	32 12 N.	116 33 W.	Northern Mexico. Felt in Dulzura, Hipass, and Campo, Calif. Mag. 4.0
7	04 31 17**			Near coast of Vera Cruz, Mexico.
7	05 59 41*	14 S.	167 E.	New Hebrides Islands. h = about 60 km. Mag. 6-3/4
7	14 34 37**			Samoa Islands region. Felt in Apia.
9	23 03 29**			Pacific Ocean, about 1100 miles north of Easter Island.
10	05 16 35	36 38 N.	121 08 W.	Near Pinnacles, Calif. Mag. 3.9
11	10 57 36*	9 S.	119 W.	Pacific Ocean, west of Galapagos Islands.
11	13 54 00	32 12 N.	116 38 W.	Lower California aftershock. Felt in Carrizo Gorge, Coronado, San Diego, and Campo, Calif. Mag. 4.2

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
11	14 34 21	35 45 N.	118 06 W.	North of Walker Pass, Calif. Mag. 3.2
11	15 44 18*	23 N.	121 E.	Formosa.
11	16 59 28*	15½ N.	93 W.	Off coast of northern Guatemala.
11	17 57 28**			Fiji Islands region. h = about 500 km.
12	19 28 27	39.8 N.	119.0 W.	Western Nevada. Mag. 3.2
12	20 42 34	39.8 N.	119.0 W.	Western Nevada. Mag. 3.1
13	04 42 40*	11 N.	85½ W.	Southwestern Nicaragua. h = about 60 km.
13	16 58 05	34 06 N.	115 46 W.	Pinto Mountains, Calif. Mag. 3.4
13	20 43 20*	15 S.	168½ E.	New Hebrides Islands.
13	21 28 33**			Kurile Islands region.
14	00 21 26	34 55 N.	116 46 W.	East of Yermo, Calif. Mag. 3.7
14	02 10 10*	2 S.	80 W.	Near coast of Ecuador.
14	02 48 18**			Samoa Islands region.
14	10 41 59	39 23 N.	119 43 W.	Western Nevada. Mag. 3.5
14	13 31 23*	39 N.	145 E.	Near Honshu, Japan.
14	17 12 43	37 29 N.	118 25 W.	North of Bishop, Calif. Mag. 3.8
15	13 19 54*	17 S.	177½ E.	Fiji Islands. h = about 400 km.
16	08 04 20	40 32 N.	121 35 W.	Near Mt. Lassen, Calif. Mag. 3.2
17	05 08 25**			Eastern Turkistan.
17	19 20 35**			Burma-Assam border.
17	22 28 58**			Near Shikoku, Japan. Felt. h = about 400 km.
18	01 19 52	32 45 N.	118 15 W.	Terminal Island, Calif. $9 million damage to oil wells. Felt at Long Beach and San Pedro. Mag. 3.7
18	07 58 09*	14 S.	167 E.	New Hebrides Islands.
19	07 25 34**			Tonga Islands region. h = about 60 km.
20	00 53 50**			Samoa Islands region.

Date 1949	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	° '		° '		
20	04 43 56*	11	S.	75	W.	Central Peru.
20	07 09 47*	28	N.	112	W.	Gulf of California. Felt in Sonora, Mexico. Mag. 6-3/4 to 7
22	00 51 48*	28½	S.	178½	W.	Kermadec Islands. h = about 150 km. Mag.7.4
22	03 33 44**					Central Peru-Brazil border. h = about 200 km.
22	15 21 12*	28	N.	56	E.	Near south coast of Iran.
23	06 14 40*	19½	N.	78½	W.	Near south coast of Cuba.
23	16 51 00*	39	N.	26	E.	Aegean Sea.
25	05 44 22*	19	S.	178	W.	Fiji Islands. h = about 400 km.
25	17 35 17**					Off east coast of Honshu, Japan.
26	01 10 25**					Fiji Islands. h = about 500 km.
26	04 24 30*	15	N.	94½	W.	Off south coast of Mexico.
26	06 24 09*	7	N.	83	W.	Off south coast of Panama.
26	07 43 35**					Pacific Ocean, 400 miles off coast of Colombia.
26	21 52 46*	48	N.	133	E.	Kurile Islands. h = about 150 km.
27	08 42 20*	18½	S.	173	W.	Tonga Islands region. h = about 60 km. Felt in Nukualofa and Apia. Mag. 7.2
28	16 27 49**					Kurile Islands.
28	16 53 21*	8	N.	83	W.	Off south coast of Panama.
28	18 47 10**					Near north coast of Turkey.
29	09 18 57**					Tonga Islands region.
30	08 31 45*	38	N.	124	W.	Off coast of northern California. Mag. 4.4
Dec.						
2	02 43 45*	22½	S.	172	E.	Loyalty Islands region.
2	19 42 30**					Samoa Islands region.
2	22 30 34*	50½	N.	129½	W.	Off northeast coast of Vancouver Island, British Columbia.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° ′	° ′	
3	12 01 54*	18 S.	70 W.	Chile-Peru border. Felt in Chile.
4	22 38 54	40.3 N.	124.3 W.	Near Cape Mendocino, Calif. Felt in Ferndale and Petrolia. Mag. 3.8
5	11 21 34**			Pacific Ocean foreshock.
5	12 42 13*	6 N.	84½ W.	Pacific Ocean, south of Panama.
5	14 51 50**			Off northeast coast of Honshu, Japan. Felt.
5	17 36 47**			Kurile Islands region.
5	23 48 40**			Northern Chile. Felt.
6	13 32 58**			New Hebrides Islands.
6	14 27 40**			Tonga Islands region.
6	16 13 20**			Northern Chile. Felt.
6	22 07 04*	39 N.	118½ W.	Western Nevada.
6	22 24 42*			About 150 miles south of Bonin Islands. h = about 300 km.
7	16 13 35*	35 N.	24½ E.	Off south coast of Crete.
7	16 44 16**			Pacific Ocean, about 150 miles south of Panama.
7	18 44 40	39.0 N.	119.8 W.	Western Nevada. Felt at Carson City. Mag. 3.8
7	23 54 18**			Northern Chile. Depth about 100 km.
8	20 44 41	36 55 N.	117 15 W.	North of Death Valley, Calif. Mag. 3.3
9	04 34 49	36 04 N.	117 40 W.	Near Coso Hot Springs, Calif. Mag. 3.1
9	05 02 35**			Central Chile. Felt.
9	08 41 18	37 28 N.	118 22 W.	Bishop, Calif., foreshock. Mag. 4.1
9	11 04 57**			Tonga Islands region.
9	12 39 02	37 28 N.	118 22 W.	North of Bishop, Calif. Felt at Bishop, Big Pine, and June Lake. Mag. 4.6
10	14 50 15	33 58 N.	116 29 W.	Northeast of Palm Springs, Calif. Mag. 3.2

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° ′	° ′	
10	15 46 53	34 03 N.	118 30 W.	Near Santa Monica, Calif. Felt. Mag. 3.2
10	17 19 54**			Samoa Islands. Felt at Apia. h = about 60 km.
10	19 16 04*	4½ N.	128½ W.	Pacific Ocean. h = about 150 km.
10	19 37 05**			Eastern India.
11	11 33 49*	21 S.	169 E.	Loyalty Islands.
12	03 32 33	33 53 N.	115 35 W.	Eagle Mountain, Calif. Mag. 3.1
12	03 36 53	34 03 N.	115 53 W.	Southeast of Twentynine Palms, Calif. Mag. 3.1
12	05 18 04	34 03 N.	115 53 W.	Twentynine Palms, Calif., aftershock. Mag. 3.0
13	05 05 16	38 40 N.	119 50 W.	Near Markleeville, Calif. Felt. Mag. 3.4
13	14 32 56	34 53 N.	116 38 W.	Southwest of Manix, Calif. Mag. 2.9
14	14 40 00**			Off coast of Colima, Mexico.
14	17 32 21	37 52 N.	116 20 W.	Kawich Valley area, Nev. Mag. 3.9
15	03 32 20**			Off coast of Colima, Mexico.
15	09 48 52	34 25 N.	116 55 W.	Lucerne Valley, Calif. Mag. 3.0
15	10 27 22**			Kermadec Islands.
15	10 52 00**			.....Do.
15	14 30 45**			Near coast of northern Chile. Felt.
16	02 01 39*	50 N.	129 W.	Off Vancouver Island, British Columbia.
16	14 06 38*	27 S.	177½ W.	Kermadec Islands region.
17	06 53 23*	54½ S.	70 W.	Southern Magellanes Province, Chile. Destructive in Punta Arenas. One killed. Mag. 7-3/4
17	12 55 43*	54½ S.	70 W.	Southern Chile aftershock. Felt.
17	15 07 48*	54½ S.	70 W.	Southern Magellanes Province, Chile. Felt. Mag. 7-3/4
18	01 46 00**			Southern Chile aftershock.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° ′	° ′	
18	05 38 59*	34 S.	179½ E.	Kermadec Islands region. Felt from Opotiki to Wellington, New Zealand. h = about 150 km. Mag. 6-3/4
18	19 12 40	35 02 N.	116 53 W.	Northeast of Barstow, Calif. Mag. 3.4
19	07 24 00**			Fiji Islands region. h = about 500 km.
19	09 39 32**			Eastern New Guinea.
19	11 55 27**			Solomon Islands.
20	04 16 39*	21 S.	179 E.	Fiji Islands region. h = about 650 km.
21	04 30 37**			New Hebrides Islands.
21	12 31 19*	18½ N.	67 W.	Near coast of Puerto Rico. Felt in San Juan. h = about 100 km.
21	13 18 06*	18½ S.	168 E.	New Hebrides Islands.
21	17 45 31**			Fiji Islands.
21	19 33 00*	20 S.	64 W.	Southern Bolivia. Felt in Chile. h = about 600 km. Mag. 6-3/4 to 7
22	09 09 27**			New Britain region.
22	09 30 47*	16 N.	93 W.	Chiapas, Mexico. Felt. h = about 100 km. Mag. 6½
22	11 28 48**			Near north coast of Vancouver Island, British Columbia.
22	21 29 18*	31½ S.	69½ W.	San Juan Province, Argentina. h = about 100 km. Felt in Chile.
23	14 32 46*	76 N.	6 E.	East of Greenland.
23	21 33 30**			About 100 miles south of Formosa.
24	22 01 49**			New Hebrides Islands.
25	01 52 16**			North Atlantic Ocean, 600 miles north of the Azores.
25	06 07 04**			About 150 miles south of Fiji Islands.
25	22 40 45*	19½ N.	104 W.	Colima, Mexico. Felt in Manzanillo. Mag. 6
25	23 17 28**			Honshu, Japan, foreshock. Felt.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° '	° '	
25	23 24 52*	36 N.	139 E.	Honshu, Japan. 8 killed, 163 injured. Several thousand houses damaged. Mag. 6-3/4
26	05 32 09**			Fiji Islands region.
26	06 24 00*	16 S.	180	Fiji Islands region. h = about 100 km. Mag. 6.9
26	14 27 40	34 00 N.	118 20 W.	Southern California. Felt in Inglewood and southwestern Los Angeles. Mag. 2.8
27	02 42 59**			Honshu, Japan.
27	08 56 06**			Honshu, Japan. Felt.
27	10 52 28**			Andreanof Islands, Aleutian Islands.
27	16 41 55**			Honshu, Japan.
27	21 03 50**			Tonga Islands. Felt in Apia. h = about 100 km.
27	23 57 13*	59½ S.	21 W.	Sandwich Islands. Mag. 7.2
28	03 50 59**			Azores region foreshock.
28	06 25 25*	41 N.	29 W.	Azores region.
28	11 58 39	39.4 N.	118.0 W.	Western Nevada. Mag. 2.9
28	13 41 32*	51½ N.	176 W.	Andreanof Islands, Aleutian Islands. Felt in Adak. h = about 60 km.
29	03 03 50*	17½ N.	121½ E.	Northern Luzon, Philippine Islands. Heavy property damage along northwest coast of Isabella Province, and minor damage in Manila. One killed by sea wave near Mercedes. Mag. 7.2
29	06 22 54**			Northern Luzon aftershock.
29	10 17 53**			.....Do.
29	16 42 56*	27 S.	176½ W.	Kermadec Islands region. h = about 200 km. Mag. 6½
29	22 05 34**			Java Sea.
30	01 41 06**			Fiji Islands region.
30	10 41 01**			Kermadec Islands region.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° '	° '	
31	04 08 10**			Kermadec Islands region.
31	08 41 42**			Fiji Islands region.

Date and Station		Phase (GCT)
		h m s
Oct. 1		
BC	eP	03 43 03
	e	43 41
OV	iP	03 43 06.5
PF	iP	03 43 06.8
SH	iP	03 42 54
	e	43 05
TUC	eP	03 43 06
Oct. 1		
BC	e	03 53 23
OV	e	03 53 15
PF	e	03 53 17
	e	53 38
TUC	e	03 53 22
Oct. 1, H = 07 03 10** Pacific Ocean, 150 miles south of Bonin Islands. h = about 200 km.		
BC	eP	07 15 27.5
	epP	16 14
COL	e	07 15 07
HH	iP	07 15 05
	ipP	15 51
	ePP	18 09
	eS	24 59
OV	iP	07 15 27.5
	epP	16 14
PF	iP	07 15 31
	ipP	16 18
SH	iP	07 14 49
	ipP	15 36
	iPP	17 50
TUC	eP	07 15 49
	epP	16 36

Date and Station		Phase (GCT)
		h m s
Oct. 1		
BC	e	07 37 57
COL	e(P)	07 38 36
	e	38 48
HH	iP	07 38 46
OV	eP	07 37 56
PF	iP	07 38 01
	i	38 14
	e	39 30
	e	08 07 17
SH	eP	07 37 51
	i	38 09
Oct. 1		
TUC	eP	07 53 04
Oct. 1		
HH	iP	16 29 55
	e	30 29
PF	e	16 30 35
Oct. 1		
OV	eP	17 38 59
PF	iP	17 39 03
SH	iP	17 38 48
TUC	iP	17 39 04
Oct. 1, H = 18 00 42* 8°S, 31½°E. Tanganyika, South Africa.		
HUAN	eL	18 56 10
HH	eP'	18 19 58
	i	20 10
	i	20 39
OV	eP'	18 20 15
PHIL	eL	18 58 23
PF	eP'	18 20 16

Date and Station		Phase (GCT)
		h m s
Oct. 1, cont.		
SH	e(P')	18 20 16
TUC	eP'	18 20 13
Oct. 1		
PF	e	22 35 30
RC	eL	22 58 53
TUC	eP	22 35 28
Oct. 1		
COL	eP	23 23 54
Oct. 2, H = 02 29 25* 17°N, 49°W. North Atlantic Ocean.		
BC	iP	02 39 47.2
HH	iP	02 39 46
OV	eP	02 39 47
PF	iP	02 39 43.8
SJ	eL	02 36 07
SH	iP	02 40 22
	i	40 29
	i(PP)	42 34
TUC	iP	02 39 23
	i	39 33
Oct. 2		
HH	iP	03 06 54
Oct. 2, H = 11 46 38* 51°N, 177°W. Andreanof Islands, Aleutian Islands.		
BC	eP	11 55 05.5
COL	e	11 51 17
HH	iP	11 54 11
	i	54 21

Date and Station		Phase (GCT)
		h m s
Oct. 2, cont.		
OV	iP	11 55 05
	e	56 20
PF	iP	11 55 10
	e	55 44
SH	iP	11 54 04
TUC	iP	11 55 43
	e	55 52
Oct. 2		
COL	eL	13 49 36
Oct. 2		
HH	eP	14 08 23
	i	08 34
Oct. 2		
BH	eP	18 08 57
	iS	09 28
Oct. 2		
COL	iP	19 17 30.5
	eL	17 54
Oct. 2		
HH	iP	22 33 27
OV	iP	22 35 06
PF	iP	22 35 14
TUC	eP	22 36 02
Oct. 3, H = 02 23 43 52°N, 175°W. Andreanof Islands, Aleutian Islands.		
COL	eP	02 28 07
HH	iP	02 31 07
	i	31 16
	e	31 26
OV	iP	02 32 00.3
PF	eP	02 32 04
SH	iP	02 31 00

Date and Station		Phase (GCT)
		h m s
Oct. 3		
TUC	e	06 56 10
Oct. 3		
OV	e	07 41 48
PF	e	07 41 47
	e	44 48
TUC	eP	07 40 38
	i	40 45
	e	43 41
Oct. 3		
TUC	eP	07 53 56
Oct. 3		
COL	iP	08 09 57
	e(S)	10 41
	eL	11 01
Oct. 3, H = 09 15 38* 56°S, 27°W. Sandwich Islands.		
BER	e	09 40 22
BC	eP'	09 34 22
	ePP	35 43
COL	eP'	09 35 17.5
	i	35 25
HUAN	e	09 25 37
	eS	29 41
	eL	33 13
HH	iP'	09 34 37
	i	37 06
	e	37 38
NK	eL	10 40 01
OV	iP'	09 34 21.9
	ePKKP	44 43
	e	48 02
PHIL	e	09 48 32
	eL	10 12 26
PF	iP'	09 34 21
	ePP	35 36

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
SJ	eL	09 37 46
SH	iP'	09 34 34
TUC	eP'	09 34 12
	ePP	35 17
	e(PKKP)	45 01
Oct. 3, H = 12 44 27** Off east coast of New Guinea.		
BC	eP	12 58 13
	e	58 52
	e	13 01 46
COL	iP	12 56 58
	e	59 54
	e	13 03 33
HH	eP	12 58 09
	i	58 47
	e	59 15
OV	eP	12 58 13
	e	13 01 46
PF	eP	12 58 16
	i	58 25
	e	13 02 03
SH	iP	12 57 55
TUC	eP	12 58 22
	e	13 02 05
Oct. 3		
COL	eP	13 18 21
	eL	19 52
Oct. 3		
COL	eP	13 49 06
	e	49 46
HH	eP	13 50 57
	e	52 50
OV	eP	13 51 04
PF	eP	13 51 16
	e	54 18

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
SH	iP	13 50 58
Oct. 3		
BC	eP	13 54 16
LOG	eP	13 54 05
OV	eP	13 54 15
PF	eP	13 54 18
TUC	eP	13 54 31
	e	55 28
Oct. 3		
HH	eP	16 06 38
OV	e(P)	16 06 06.5
PF	e(P)	16 05 42
	e	06 00
TUC	eP	16 05 10
	e	05 28
Oct. 3		
COL	iP	16 48 39
	i	48 50
	i(S)	49 39
	iL	50 05
Oct.3		
HUAN	iP	16 55 55
	i(S)	56 13
	iL	56 58
Oct. 3		
COL	iP	17 31 41
	i(S)	32 44
	eL	33 02
Oct. 3		
PF	e	18 14 47
Oct. 3		
PF	iP	21 47 36
SH	iP	21 47 19
Oct. 3		
PF	eP	22 33 53
	e	34 20

Date and Station		Phase (GCT)
		h m s
Oct. 3		
BC	eP	23 40 41
PF	eP	23 40 44
TUC	eP	23 40 42
Oct. 3, H = 23 51 52* 55°N, 157°W. Alaska Peninsula.		
BC	iP	23 58 44.5
COL	e(P)	23 54 52
	eL	57 06
HH	iP	23 57 39
	i	00 00 58
OV	iP	23 58 42.5
PHIL	eL	00 20 07
PF	eP	23 58 47
	e	00 00 02
SH	iP	23 57 36
SIT	eL	23 59 36
TUC	iP	23 59 26
	e	59 46
Oct. 4		
PF	e	03 19 53
Oct. 4, H = 04 28 30** Samoa Islands.		
BC	eP	04 40 17
HH	eP	04 40 54
OV	eP	04 40 19
PF	eP	04 40 20
SH	iP	04 40 03
	i	40 14
TUC	eP	04 40 23

Date and Station		Phase (GCT)
		h m s
Oct. 4		
OV	iP	07 04 25
PF	iP	07 04 25
TUC	eP	07 04 26
Oct. 4		
BC	e	07 11 52
COL	eP	07 12 30
HH	eP	07 12 26
OV	eP	07 11 53
PHIL	eL	07 58 47
PF	iP	07 11 56
SH	eP	07 11 36
	i	11 42
	e	12 03
TUC	eP	07 11 55
Oct. 4, H = 09 58 24* 30°S, 70°W. Northern Chile. Felt.		
BC	eP	10 10 22
HUAN	e	10 02 38
	eS	06 07
	eL	07 32
HH	iP	10 11 11
	e(PP)	14 31
OV	iP	10 10 25
PF	eP	10 10 22
SH	iP	10 11 01
	i	11 04
TUC	eP	10 09 55
	iP	09 58
	e	10 37
Oct. 4, H = 10 20 23* 1°S, 21°W. Atlantic Ocean. Mag. 6¼		

Date and Station		Phase (GCT) h m s
Oct. 4, cont.		
BC	iP	10 33 44
	ePP	37 24
BOZ	eS	10 44 02
	eSS	50 23
	e	55 23
	eL	59 11
BUT	e(S)	10 44 32
	eL	11 01 44
CHI	eP	10 31 55
	iS	41 25
	eL	51 21
COL	eL	11 03 14
COLU	e(P)	10 31 13
	eS	40 02
	eL	48 09
HUAN	eP	10 29 53
	ePP	32 08
	iS	37 32
	eSS	41 10
	eL	43 30
HH	eP	10 33 38
	e	35 10
	e	38 04
LOG	e(P)	10 33 27
	ePP	36 52
	e	40 51
	eS	44 23
	eSS	50 25
	eL	11 00 03
OV	iP	10 33 43
	i	35 51
	ePP	37 21
	ePS	45 53
PHIL	iP	10 30 56
	e(pP)	31 15
	iS	39 32
	iScS	40 47
	eL	46 35

Date and Station		Phase (GCT) h m s
Oct. 4, cont.		
PF	eP	10 33 40
	ePP	37 19
RC	iP	10 33 03
	ePP	37 39
	iS	43 27
	eSS	49 09
	eL	11 02 26
SLC	iS	10 44 32
	eSS	50 22
	eL	11 02 22
SJ	eP	10 29 07
	e(S)	35 58
	eL	39 36
SH	eP	10 34 06
	e	34 20
SIT	eL	11 07 05
TUC	iP	10 33 28
	e	33 42
	ePP	37 10
	iS	44 04
	ePS	45 29
	eSS	49 57
	eL	11 01 48
UK	eL	11 00 12
Oct. 4		
BC	e	10 45 54
Oct. 4		
OV	e	10 59 29
Oct. 4		
HH	iP	15 28 34
SH	iP	15 28 27
Oct. 4, H = 17 13 04 By Pasadena, 33°59'N, 116°51'W. North of Banning, Calif. Mag. 2.6		
OV	i	17 14 12
	iL	14 47

Date and Station		Phase (GCT) h m s
Oct. 4, cont.		
PF	eP	17 13 55
	e(S)	14 28
	iL	14 45
Oct. 4		
HH	iP	17 45 57
Oct. 4		
TUC	eP	20 20 20
Oct. 4		
OV	e	23 47 37
TUC	eP	23 46 56
Oct. 5, H = 02 33 47.5 By NESA, 44.8°N, 70.5°W. West-central Maine. Felt in Maine, New Hampshire, and Vermont.		
BC	iP	02 39 01.5
OV	iP	02 39 02.9
TUC	iP	02 38 37
	e	39 46
Oct. 5		
TUC	eP	04 13 50
Oct. 5		
PF	e	06 20 09
TUC	eP	06 19 43
Oct. 5		
COL	eP	10 24 07
	i	24 17
	e(S)	25 25
	eL	26 00
HH	iP	10 28 40
OV	eP	10 27 52
PF	iP	10 27 50
SH	iP	10 25 29

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
TUC	eP	10 27 23
Oct. 5		
TUC	eP	10 39 11
Oct, 5, H = 16 20 35* 39°N, 22½°E. Near east coast of Greece. Felt at Trichonis.		
HH	iP	16 33 17
	i	33 21
	i	33 34
Oct. 5		
HH	iP	18 50 43
SH	eP	18 50 41
Oct. 5		
HH	iP	18 52 34
SH	iP	18 52 46
Oct. 5, H = 19 07 00** New Britain region.		
BER	e	19 30 52
	e	42 00
	eL	20 11 05
COL	e	19 19 43
HH	iP	19 20 28
	e(PP)	24 29
PHIL	eL	20 05 16
SH	eP	19 19 45
	i	20 01
	e	20 21
	e	20 34
	ePP	23 30
TUC	e	19 21 02
	e	23 49
	e	24 37
	eL	51 33

Date and Station		Phase (GCT) h m s
Oct. 5		
HH	iP	20 04 10
SH	eP	20 04 06
TUC	e(P)	20 05 58
	eS	06 19
	eL	06 28
Oct. 5		
HH	iP	20 33 15
	ipP	33 50
SH	eP	20 33 12
	ipP	33 49
TUC	eP	20 34 17
Oct. 5, H = 21 04 34** Ryukyu Islands region.		
HH	eP	21 17 07
	iP	17 08
	epP	17 37
SH	eP	21 17 04
TUC	eP	21 18 07
Oct. 5		
COL	eP	22 05 44
HH	iP	22 07 57
	e	08 16
Oct. 6, H = 04 12 20 By Pasadena, 33°54'N, 115°48'W. Pinto Basin, Calif. Mag. 6-3/4		
BC	eL	04 13 28
OV	eL	04 13 30
PF	e	04 13 07
	i	13 13
	iL	13 41
Oct. 6		
BC	e	04 34 40
TUC	e	04 35 13

Date and Station		Phase (GCT) h m s
Oct. 6		
TUC	eP	05 44 20
Oct. 6, H = 08 59 53** Tonga Islands.		
BC	e	09 12 12
COL	iP	09 12 45
OV	eP	09 12 07
PF	e	09 12 38
SH	eP	09 11 47
	i	12 03
TUC	e	09 12 08
Oct. 7		
COL	e	02 28 10
HH	iP	02 30 03
SH	iP	02 29 45
TUC	eP	02 30 41
Oct. 7		
COL	eP	08 40 16
HH	iP	08 40 33
SH	eP	08 40 20
	e	47 47
TUC	e	08 40 53
Oct. 7		
TUC	e	09 38 16
	eL	43 41
Oct. 7		
COL	e	11 05 53
	eL	06 57
Oct. 7, H = 12 02 19* 33°S, 56½°E. Indian Ocean. h = about 60 km. Mag. 6-3/4		

Date and Station		Phase (GCT) h m s
Oct. 7, cont.		
HER	e(PP)	12 24 35
	iPPP	26 10
	e	42 37
	eL	13 08 28
BC	e(P')	12 22 34
	i	24 03
	ePP	28 44
	ePPP	31 48
	e(SKKS)	35 02
BOZ	eP'	12 22 28
	e(pP)	23 27
	ePP	27 08
	ePPP	30 42
	eL	13 26 28
BUT	eP'	12 22 28
	e(pP)	23 24
	ePP	27 06
	ePPP	30 45
	eL	13 19 06
CHI	iP'	12 22 05
	ePP	25 37
	eL	13 02 15
COL	iP'	12 21 58
	e(PP)	25 34
	eSKSP	35 30
	e(SS)	43 54
	eL	13 10 02
COLU	iP'	12 22 04
	e(PP)	35 40
	e	44 25
	eL	13 07 10
HONO	eP'	12 22 09
	e(SKS)	29 05
	eL	13 14 53
HUAN	eP'	12 21 08
	ePP	22 19
	eSKS	28 47
	ePS	31 56
	i	33 10
	eSS	38 06
	eSSS	42 05
	eL	49 00

Date and Station		Phase (GCT) h m s
Oct. 7, cont.		
HH	eP'	12 22 24
	iP'	22 25
	i	23 17
	iPP	27 07
LOG	eP'	12 22 24
	e	23 41
	iPP	27 29
	eSKKS	34 11
	e	37 55
	e(SS)	48 52
	eL	13 21 25
OV	i(P')	12 22 33
	iPP	27 49
PHIL	eP'	12 21 46
	iPP	25 00
	ePPS	37 34
	e	44 35
	eSSS	48 00
	eL	13 12 07
PF	i(P')	12 22 34
	i	24 01
	iPP	27 51
	e	32 15
	e	34 35
RC	iP'	12 22 25
	i	23 09
	e	26 59
	eL	13 23 19
SLC	eP'	12 22 30
	ePP	27 22
	e	29 31
	eL	32 26
SJ	e(PP)	12 24 20
	e(SKS)	29 12
	eL	13 05 07
SH	i(P')	12 22 31
	i	23 58
	iPP	27 49
	i	31 08
	e	34 37
SIT	eP'	12 22 25
	ePP	26 20

Date and Station		Phase (GCT) h m s
Oct. 7, cont.		
SIT, cont.		
	e(SS)	12 45 47
	eL	13 01 45
TUC	iP'	12 22 31
	e(pP')	22 40
	e	25 24
	e(SKS)	29 30
	eSKKS	34 27
	eSS	48 08
	eL	13 29 12
UK	e	12 22 32
	e	27 08
	eSKKS	34 40
	eL	13 30 52
Oct. 7		
COL	iP	12 50 06
	e(S)	50 25
	eL	50 51
Oct. 7, H = 22 36 00** Indian Ocean aftershock.		
BC	eP'	22 56 09
COL	iP'	22 55 39
HH	iP'	22 56 05
	e	56 21
	i	57 00
LOG	eP'	22 56 09
SH	eP'	22 56 11
TUC	e	22 56 12
	e	56 38
	e	23 04 11
Oct. 8, H = 03 08 46* 36°N, 16°E. Off south coast of Sicily. Felt at Catania and Acreale.		
COL	e(P)	03 20 53

Date and Station		Phase (GCT)
		h m s
Oct. 8, cont.		
HH	eP	03 21 23
	e	21 35
	e	23 22
	e	24 00
SH	e	03 20 48
TUC	e	03 22 36
Oct. 8, H = 20 34 19** Off east coast of Formosa.		
COL	e	20 45 41
HH	eP	20 47 40
SH	eP	20 47 43
Oct. 8		
HH	e(P)	22 51 54
	e	52 06
	e	52 50
SH	e	22 52 04
Oct. 9, H = 03 51 12** Fiji Islands region. h = about 600 km.		
COL	iP	04 02 52
	epP	04 53
HH	eP	04 02 58
PF	eP	04 02 31
	epP	04 29
SH	eP	04 02.14.5
	epP	04 13
Oct. 9		
HUAN	eP	07 24 22
	e	25 43
Oct. 9		
PF	e	10 34 03
SH	e	10 33 37

Date and Station		Phase (GCT)
		h m s
Oct. 9, cont.		
TUC	eP	10 33 14
	i	33 16
Oct. 9, H = 13 44 30** Samoa Islands region.		
COL	iP	13 56 50
HH	eP	13 56 41
	e	57 06
	e	59 40
OV	eP	13 56 14
PF	eP	13 56 22
SH	eP	13 55 59
Oct. 9		
COL	e	15 27 08
HH	eP	15 24 01
	i	24 20
PF	e	15 22 41
TUC	iP	15 21 59
	i	22 17
	e	23 03
Oct. 9		
OV	i	21 37 34
PF	e	21 37 35
SH	eL	21 41 07
TUC	eP	21 37 35
Oct. 9		
PF	e	23 50 22
	e	50 46.5
Oct. 10		
HH	iP	02 21 50
SH	eP	02 21 43
Oct. 10		
TUC	eP	06 13 23

Date and Station		Phase (GCT)
		h m s
Oct. 10, cont.		
COL	e	08 13 21
Oct. 10, H = 21 23 55** Kamchatka.		
BC	eP	21 33 59
COL	e	21 29 45
	e	30 18
HH	iP	21 32 58
	e	44 18
OV	iP	21 34 01
PF	iP	21 34 06
SH	iP	21 33 08
TUC	eP	21 34 35
Oct. 10, H = 23 44 14** Hokkaido, Japan.		
COL	eP	23 51 58
PF	eP	23 55 39
Oct. 11, H = 00 25 55 By Pasadena, 34°00'N, 116°26'W. Northeast of Seven Palms Well, Calif. Mag. 3.0		
PF	eP	00 26 44
	e(S)	27 28
Oct. 11		
PF	e	00 32 45
Oct. 11		
BC	i	00 43 20
OV	i	00 43 03
PF	e	00 43 04
Oct. 11, H = 03 35 30** Fox Islands, Aleutian Islands.		

Date and Station		Phase (GCT)
		h m s
Oct. 11, cont.		
BC	iP	03 43 10.5
COL	e	03 39 10
OV	iP	03 43 09
PF	iP	03 43 15
SH	eP	03 42 05
TUC	eP	03 43 51
Oct. 11		
SH	eP	03 44 08
	eL	45 03
Oct. 11		
COL	eP	07 58 24
HH	e(P)	07 58 36
OV	e	07 57 53
PF	e	07 57 49
SH	eP	07 57 34
TUC	e	07 57 46
	e	58 14
Oct. 11, H = 09 05 18* 43°N, 144°E. Near east coast of Hokkaido, Japan Felt. h = about 100 km.		
BC	iP	09 16 45
	e	17 16
COL	iP	09 13 12
	i	13 43
HH	iP	09 16 00
LOG	eP	09 16 34
OV	iP	09 16 46
	e	17 21
PF	iP	09 16 49

Date and Station		Phase (GCT)
		h m s
Oct. 11, cont.		
SH	iP	09 15 59
TUC	iP	09 17 14
	e	17 47
Oct. 11		
TUC	eP	10 19 48
Oct. 11		
TUC	e	10 57 06
Oct. 11, H = 11 36 54* 33½°S, 178½°W. Kermadec Islands region.		
BC	iP	11 50 02.9
	e	50 41
COL	eP	11 50 44
	iP	50 46
HUAN	eL	12 21 30
OV	iP	11 50 05.5
	e	50 44
PF	iP	11 50 06
	i	50 21
SH	iP	11 49 56
TUC	iP	11 50 04
	i	50 20
Oct. 11		
COL	iP	20 15 17
SH	eP	20 11 29
	i	11 57
Oct. 12		
BC	e	00 52 54
COL	e	00 53 59
HH	iP	00 53 05
SH	eP	00 53 09
	e	53 34.5

Date and Station		Phase (GCT)
		h m s
Oct. 12		
PF	iP	01 58 21
	e	59 03
Oct. 12		
BER	eL	03 12 39
BC	iP	03 02 24
HH	e(P)	03 01 43
OV	iP	03 02 31
SJ	e	03 04 47
SH	e	03 02 15
Oct. 12		
HH	iP	07 23 56
Oct. 12		
TUC	e	10 39 11
Oct. 12		
COL	eP	12 03 08
Oct. 12		
PF	e	17 07 00
TUC	eP	17 06 51
Oct. 12		
PF	e	18 13 37
Oct. 12		
PF	e	20 31 37
	e	32 44
Oct. 12		
PF	e	21 03 48
TUC	iP	21 03 07
	i	03 12
	i	03 15
	e(S)	03 35
	i	03 43
	i	03 56
	iL	04 06
Oct. 13		
BC	e	00 02 48

Date and Station		Phase (GCT)
		h m s
Oct. 13, cont.		
HH	eP	00 01 51
	iP	01 56
	i	02 06
OV	e	00 02 48
PF	e	00 02 51
TUC	e	00 03 20
Oct. 13		
BC	e	01 14 24
OV	e	01 13 25
	e	14 14.5
PF	e	01 13 32
	e	14 31
Oct. 13		
OV	e	02 43 02
PF	e	02 41 22
	e	43 05
TUC	eP	02 41 23
	e	43 06
Oct. 13, H = 03 35 44* 16°S, 176°W. Fiji Islands region. h = about 200 km.		
BER	eL	04 35 06
BC	e	03 47 25
CHI	eL	04 22 03
HUAN	eSKS	03 59 22
	ePS	04 01 13
	eSS	06 00
	eL	19 10
HH	e(P)	03 47 59
OV	eP	03 47 28
	epP	48 12
PHIL	e	04 09 46
	eL	31 43

Date and Station		Phase (GCT)
		h m s
Oct. 13, cont.		
PF	e	03 47 27
	e	49 57
SJ	e	04 00 36
	eL	31 39
SH	eP	03 47 09
TUC	eP	03 47 28
	e	47 53
	e	55 43
	eL	04 13 09
Oct. 13, H = 04 20 40 By Pasadena, 33°51'N, 115°51'W. Pinto Basin, Calif. Felt at Indio. Mag. 4.0		
BC	eP	04 21 17
	i	21 22
	i	21 48
	i(S)	21 51
OV	eP	04 21 29
	i	21 34
	i(S)	22 16
PF	eP	04 21 24
	i	21 30
	i(S)	22 07
	eL	22 32
TUC	eP	04 21 47
	i	21 56
	i	22 08
	i	22 11
	e(S)	22 43
	i	23 06
	iL	23 38
Oct. 13		
OV	e	09 27 36
PF	e	09 27 31
Oct. 13		
HH	iP	10 39 46
SH	e(P)	10 40 29

Date and Station		Phase (GCT)
		h m s
Oct. 13		
PF	e	10 44 49
Oct. 13, H = 12 47 20* 17½°N, 100°W. Near coast of Guerrero, Mexico.		
BC	eP	12 52 22
	iP	52 24
HH	iP	12 53 50
LIN	eL	13 00 17
OV	iP	12 52 26
PF	iP	12 52 20.5
TUC	iP	12 51 29
	e	51 50
	eS	54 27
	eL	55 49
Oct. 13		
HH	iP	12 56 29
Oct. 13		
PF	e	21 51 06
Oct. 14, H = 00 29 25 By Pasadena, 33°11'N, 116°23'W. Near Borego, Calif. Felt in Borego Valley, Dulzura, and Mount Helix. Mag. 4.1		
BC	e	00 30 23
	i	30 27
	iL	31 06
OV	eP	00 30 25
	i	30 33.5
	iL	31 23.5
PF	iP	00 30 21
	i	30 24.5
	i	31 05
	iL	31 20

Date and Station		Phase (GCT)
		h m s
Oct. 14, cont.		
TUC	iP	00 30 37
	i	30 42.5
	i	30 50
	e	30 58
	eS	31 34
	e	31 45
	iL	32 02
Oct. 14, H = 00 46 36 By Pasadena, 33°11'N, 116°23'W. Borego aftershock.		
BC	eL	00 48 20
PF	eL	00 48 17
Oct. 14, H = 01 02 36 By Pasadena, 33°11'N, 116°23'W. Borego aftershock. Mag. 3.4		
BC	e	01 03 39
	eL	03 52
OV	e	01 03 41
	iL	04 34
PF	e	01 03 32
	i	03 42
	eL	04 27
Oct. 14		
PF	eP	01 11 17
	i	11 24
	iS	11 47
Oct. 14		
BC	e	01 27 38
	i	28 25.5
PF	eP	01 27 32
	e	27 41
	i	27 56
	e	28 17
	e(L)	28 46
Oct. 14		
TUC	e	06 58 34

Date and Station		Phase (GCT)
		h m s
Oct. 14		
SH	e	20 40 11
TUC	e	20 40 09
	e	40 20
Oct. 15		
BC	e	01 39 18
OV	e	01 39 27
PF	e	01 38 56
	e(S)	39 29
Oct. 15		
BC	e	05 54 30
PF	iP	05 54 06.5
	i	54 17
	e	55 25
TUC	eP	05 53 49
	i	54 07
	i	54 20.5
	e(S)	54 43
	i	55 04.5
	eL	55 13
Oct. 15		
COL	e	11 23 54
Oct. 15		
PF	eP	15 36 47
	iP	36 59
	i	38 01
Oct. 15		
PF	e	20 03 28
SH	e(P)	20 04 17
TUC	eP	20 03 04
Oct. 15, H = 23 15 01 By Pasadena, 34°58'N, 116°57'W. Northeast of Barstow, Calif. Mag. 2.8		
BC	eP	23 15 40
	e(S)	16 07
	eL	16 22

Date and Station		Phase (GCT)
		h m s
Oct. 15, cont.		
OV	e	23 16 00
PF	eP	23 15 45
	i	15 52
	eS	16 20
	i(L)	16 28.5
Oct. 16		
BC	e	04 02 02
COL	iP	03 56 40
	e(S)	57 08
	eL	57 40
HH	iP	04 00 39
	i	00 47
	i	01 01
OV	i	04 02 14
PF	i	04 02 03
TUC	eP	04 02 43
Oct. 16		
COL	e	13 23 43
Oct. 16		
HH	iP	15 09 13
Oct. 16, H = 16 05 22 By Pasadena, 37°40'N, 118°40'W. Northern Owens Valley, Calif. Felt at Long Valley Dam. Mag. 3.1		
OV	e(P)	16 06 28
	i	06 41
	i(S)	06 58
	e(L)	07 11.5
PF	iP	16 06 39
	e	06 49
	e(S)	07 05
	e(L)	07 31
Oct. 16, H = 16 22 00** Southern Alaska.		
BC	e	16 28 31

Date and Station		Phase (GCT)
		h m s
Oct. 16, cont.		
COL	iP	16 23 01
	i	23 09
	e(S)	23 52
	eL	24 26
HH	iP	16 27 02
	i	27 16
	i	28 02
PF	i	16 28 33
SH	e	16 27 38
TUC	e	16 29 11
	e	29 46
Oct. 16		
COL	eP	17 54 28
HH	eP	17 51 30
OV	e	17 50 38
PF	e	17 50 32
TUC	eP	17 50 07
Oct. 16		
COL	eP	22 22 47
HH	eP	22 25 43
	e	25 55
	e	26 19
SH	eP	22 25 41
TUC	e	22 27 17
Oct. 17, H = 02 41 45 By Berkeley, 37°00'N, 121°31'W. East of Gilroy, Calif. Mag. 3.8		
BC	e	02 43 07
SH	eP	02 42 18
	eL	43 25

Date and Station		Phase (GCT)
		h m s
Oct. 17, H = 03 44 15* 19°S, 174°W. Tonga Islands region. h = about 200 km.		
BC	eP	03 55 52
COL	eP	03 56 34
OV	iP	03 55 56
PF	iP	03 55 57
	i	56 09
TUC	eP	03 55 58
Oct. 17		
TUC	e	04 53 24
	e	55 22
Oct. 17		
BC	eP	06 14 22
HH	iP	06 15 10
	e	15 24
OV	iP	06 14 23
	e	14 47
	e	15 15
PF	eP	06 14 20
TUC	eP	06 13 53
Oct. 17		
COL	eP	08 28 53
HH	iP	08 28 11
SH	e	08 29 09
Oct. 17		
SH	e	10 41 35
Oct. 17		
COL	eP	11 33 33
Oct. 17		
COL	iP	11 46 14
	eL	47(15)

Date and Station		Phase (GCT)
		h m s
Oct. 17		
COL	eP	11 57 32
	e	12 00 33
	eL	12 07 23
HH	iP	12 00 28
	i	00 38
	i	01 24
OV	iP	12 01 20
SH	eP	12 00 22
	iP	00 30
TUC	eP	12 01 59
	(e)	02 42.5
Oct. 17, H = 13 20 57 By Pasadena, 33°57'N, 116°58'W. Northeast of Whitewater, Calif. Felt at Palm Springs and Snow Creek Canyon. Mag. 3.5		
OV	iP	13 21 56
	iS	22 38
	i(L)	23 26
PF	iP	13 21 45
	i	21 53.5
	iS	22 33
	i(L)	23 08.5
Oct. 17		
COL	eP	16 24 34.5
	eL	25 16
Oct. 17		
TUC	e	17 43 39
Oct. 17		
COL	eP	19 36 40
HH	iP'	19 42 16.5
PF	eP	19 41 57
	e	42 40.5
	e	43 26.5
TUC	eP'	19 42 35
	e	42 45

Date and Station		Phase (GCT) h m s
Oct. 17		
BER	eL	22 18 00
Oct. 18		
HH	iP	00 31 43
Oct. 18		
HH	e(P)	00 53 48
Oct. 18		
TUC	iP	05 33 31
	e	33 47
Oct. 19, H = 06 53 37** Fox Islands, Aleutian Islands.		
COL	iP	06 57 18
HH	iP	07 00 25
	i	00 34
	e	01 06
SH	eP	07 00 22
TUC	iP	07 02 06
Oct. 19		
HH	iP	07 03 06
Oct. 19		
COL	e	08 11 25
	e	11 47
Oct. 19		
COL	e	10 43 03
Oct. 19		
COL	i	13 52 58
	e	53 24
Oct. 19, H = 21 00 17* 6°S, 154½°E. Solomon Islands. h = about 60 km. 2-foot sea waves recorded at Rabaul, New Britain. Mag. 7¼		
BER	e	21 21 20
	ePKS	23 40
	eSKS	27 00
	ePPS	34 30

Date and Station		Phase (GCT) h m s
Oct. 19, cont.		
BER, cont.		
	i	21 36 16
	eSS	40 18
	i	41 40
	eL	56 30
BC	eP	21 13 32
	epP	13 53
	e	25 06.5
BOZ	eP	21 14 23
	ePP	17 53
	ePPP	20 14
	eSKS	24 18
	eS	25 39
	ePS	26 56
	eSS	32 08
	eSSS	35 56
	eL	41 31
BUT	e	21 15 07
	ePP	18 55
	eSKS	24 48
	e(S)	26 05
	eSS	32 24
	eL	40 27
CHI	ePP	21 20 02
	e	24 44
	eS	27 12
	iPS	29 48
	eSS	35 42
	eSSS	40 28
	eL	49 55
COL	e	21 14(00)
	ePP	17 32
	ePPP	19 44
	eL	37 00
	e(P'P')	39 27.5
	eL	43 12
COLU	e(PP)	21 21 18
	ePS	30 43
	eSS	37 34
	eL	53 05
HONO	eP	21 10 05
	i	10 30
	ePP	11 54
	ePPP	13 06

Date and Station		Phase (GCT) h m s
Oct. 19, cont.		
HONO, cont.		
	eS	21 17 21
	iS	17 22
	eSS	21 16
	eL	23 38
HUAN	e	21 20 01
	i	22 18
	e(SKS)	26 10
	i	27 25
	ePS	31 33
	i	32 07
	iSS	39 15
	eL	51 20
HH	iP	21 13 35
	ipP	14 00
	i	14 17
	e(PP)	18 12
LIN	e(PP)	21 19 13
	eSKS	26 22
	eSS	33 28
	eSSS	38 10
	eL	50 50
OV	iP	21 13 39
	i(PP)	17 35
	e	20 17
	ePS	25 37
PHIL	ePP	21 21 18
	e(SKS)	26 08
	e	26 41
	iPS	31 20
	e	32 28
	eSS	37 11
	eSSS	42 45
	eL	50 40
PF	eP	21 13 38
	epP	13 57.5
	e	18 25
	e	25 29
	e(PS)	26 30
SLC	eP	21 13 34
	ePP	17 33
	e	20 59
	e	23 23
	eSS	31 39
	eL	39 57

Date and Station		Phase (GCT) h m s
Oct. 19, cont.		
SJ	e	21 20 19
	i	20 51
	ePP	22 46
	eSS	41 15
	eL	57 02
SH	eP	21 13 14
	iP	13 20
	ePP	16 55
	e(PPP)	18 45
	ePS	24 41
	i(PKKP)	31 24.5
	e	33 03
	eP'P'	39 29
	eL	41 00
SIT	iP	21 13 11
	iS	23 00
	eSS	28 40
	eL	35 03
TUC	eP	21 13 52
	e	14 07
	iPP	17 54
	e	18 17
	ePPP	19 51
	e(SKS)	24 11
	eS	25 16
	ePS	26 31
	ePKKP	30 51
	eSS	31 53
	eSSS	35 24
	eL	40 42
UK	e	21 13 27
	e	15 11
	eS	23 19
	e	25 39
	eL	36 31
Oct. 19		
COL	iP	22 09 54
	eL	11 00
Oct. 19		
COL	eP	22 41 46
	e(S)	51 28
Oct. 20		
COL	e(P)	02 31 30

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
HH	eP	02 33 51
	e	39 20
SH	iP	02 34 17
Oct. 20, H = 03 26 35 By Pasadena, 37°40'N, 118°40'W. Northern Owens Valley, Calif. Felt at Long Valley Dam. Mag. 3.5		
BC	e	03 27 39
	e	28 28.5
OV	e	03 27 35
	e	27 42
	e	28 22
PF	eP	03 27 39
	eS	27 50.5
	e	28 40
SH	eP	03 28 16
	eL	28 46
Oct. 20		
COL	e	08 01 14
	e	01 34
Oct. 20		
COL	eP	08 45 27
	e	46 07.5
HH	eP	08 50 30
Oct. 20		
BC	e	10 26 37
	i	26 47
HH	eP	10 27 50
PF	e	10 26 32.5
	i	26 40
TUC	eP	10 25 57
Oct. 20		
BC	e	10 38 29

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
OV	eP	10 38 20
	e	38 45
PF	eP	10 38 28
	eS	38 51
Oct. 20		
COL	e(P)	11 41 20
Oct. 20, H = 11 41 58* 5°S, 151°E. New Britain.		
COL	eP	11 54 23
HH	eP	11 55 32
	e	58 21
OV	eP	11 55 58
PF	eP	11 55 31
	e	56 04
Oct. 20, H = 12 44 54* 5½°S, 154°E. Solomon Islands aftershock. Mag. 6½		
BER	e	13 08 14
	eSKKS	13 00
	e	18 05
	e	26 02
	eL	41 32
BC	eP	12 58 17
	i	58 40
	e(PP)	13 02 03
	ePPP	03 56
	e(S)	09 55
	ePS	10 36
	eSS	15 19
BOZ	e	13 03 20
	iSKS	09 00
	iS	10 03
	eSS	16 44
	eSSS	20 42
	eL	25 29
BUT	e(SKS)	13 08 56
	eS	09 54
	eL	24 34

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
CHI	ePP	13 04 50
	e(SKS)	11 24
	ePS	13 58
	eSS	19 45
	eSSS	24 36
	eL	37 55
COL	eP	12 57 13
	iP	57 14
	e	57 33
	iS	13 07 13
	e	08 00
	e(SS)	12 30
	eL	17 40
COLU	eSKS	13 10 42
	ePS	15 19
	eSS	21 07
	eL	40 29
HONO	eP	12 54 29
	ePP	56 26
	ePPP	57 31
	eS	13 01 47
	iS	01 53
	eScS	04 18
	eSS	05 31
	eL	07 23
HUAN	e	13 05 00
	ePP	06 00
	e	13 10
	ePS	15 40
	e(SS)	23 24
	e	23 25
	e	34 42
	eL	37 10
HH	eP	12 58 18
	i	58 39
	i	59 15.5
	eS	13 10 39
LIN	ePP	13 03 40
	eSKS	09 45
	e(S)	10 42
	ePS	13 00
	eSS	19 00
	eSSS	23 10
	eL	33 32

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
LOG	eP	12 58 23
	e	13 02 56
	e	06 30
	iSKS	08 55
	iPS	11 03
	eSS	16 05
	e	19 08
	eL	25 00
NK	ePP	13 05 33
	ePS	14 57
	e(SS)	22 01
	eL	34 09
OV	eP	12 58 11
	i	58 28
	ePP	13 01 51
	ePPP	04 03
	e	09 56
PHIL	e(PP)	13 05 42
	e(SKS)	10 46
	e	12 23
	eS	13 21
	ePS	16 11
	eSS	22 35
	eSSS	26 11
	eL	42 14
PF	eP	12 58 19
	e	58 42
	ePP	13 02 04.5
	e(PPP)	04 19.5
	ePS	10 02
SLC	e(SKS)	13 08 56
	e(PS)	10 58
	eSS	16 24
	eL	29 00
SJ	e	13 05 18
	ePP	07 50
	eSS	25 32
	eL	46 53
SH	eP	12 57 57
	e	58 35
	e	59 18
	e(PP)	13 01 47
	eSKS	08 07.5
	ePS	09 33

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
SH, cont.		
	e(PKKP)	13 15 29
	e(P'P')	22 58
	eL	26 00
SIT	eP	12 57 30
	iS	13 07 43
	eSS	13 08
	eL	22 40
TUC	e	12 58 35
	i	59 43
	ePP	13 02 21
	e	05 12
	e(SKS)	08 45
	iS	09 57
	ePS	11 04
	eSS	16 31
	e(SSS)	20 06
	eL	26 14
UK	e	12 57 50
	iS	13 08 10
	eSS	13 28
	eL	21 15
WASH	e	13 19 14
	iSS	21 05
	eL	42 02
Oct. 20		
COL	e	15 36 38
HH	e(P)	15 34 36
	i	34 39
Oct. 20, H = 18 12 48* 19°S, 178½°E. Fiji Islands. h = about 500 km.		
BC	e	18 24 18
COL	eP	18 24 45
HH	iP	18 24 50
PF	iP	18 24 21
	i	24 34
	e	26 08
	e	37 45

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
SH	iP	18 24 06
	e	26 04
TUC	iP	18 24 23
Oct. 21, H = 03 32 15** Fox Islands, Aleutian Islands.		
BC	iP	03 40 02
COL	eP	03 35 55
	iP	35 56
	e(S)	40 00
	eL	41 46
HH	eP	03 39 01
	i	39 11
	i	39 27
	e	40 11
OV	iP	03 40 03
	i	41 23
	i	42 08
PF	iP	03 40 05
	e	41 17
	e	50 10
SH	iP	03 38 56
	e(PcP)	40 45
	e	45 29
	e(L)	48 00
TUC	iP	03 40 42
	i	41 03
	i	42 41
Oct. 21		
HH	iP	03 41 51
	i(pP)	42 01
	e	45 32
Oct. 21		
COL	e	04 30 49
Oct. 21, H = 06 09 01* 21½°N, 121°E. Off south coast of Formosa.		
COL	eP	06 20 21

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
HH	eP	06 22 25
SH	eP	06 22 24
Oct. 21		
HH	iP	10 05 40
Oct. 21		
COL	e(P)	18 08 37
Oct. 21		
COL	iP	21 18 35.5
	e(S)	19 16
	iS	19 24
	eL	20 00
Oct. 21, H = 21 34 33 5½°S, 153½°E. Solomon Islands foreshock. h = about 100 km.		
BER	e	21 58 12
	e	22 07 23
	eSS	14 25
	eL	32 37
BC	e(P)	21 47 51
	ePP	51 21.5
BOZ	ePP	21 51 52
	eSKS	58 30
	eL	22 20 24
CHI	eL	22 28 24
COL	iP	21 46 37
	ipP	47 01
	ePP	49 52
	e	50 33.5
	eS	56 31
	e(PS)	57 01
	e	58 59
	eL	22 05 06
COLU	eL	22 23 21
HONO	eL	21 57 06
HUAN	e	22 10 27
	eSS	13 09
	eL	35 30

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
HH	eP	21 47 47
	e	47 58
	e(PP)	51 46
	eP'P'	22 12 45
LOG	e	21 48 23
	e	50 35
	e(S)	22 00 43
	eSS	06 30
	eL	19 23
OV	iP	21 47 40.5
	ipP	48 20
	iPP	51 27.5
PHIL	e	22 04 53
	eSS	12 07
	e	17 19
	eL	30 29
PF	eP	21 47 42
	i	47 53
	e	50 57
	ePP	51 48
SLC	eL	22 18 28
SJ	e	21 56 19
	eL	22 32 35
SH	eP	21 47 13
	iP	47 19
	e	48 14
	ePP	50 53
	e	55 13
	eL	22 17 15
SIT	e	21 47 14
	eL	22 11 54
TUC	e	21 48 13
	ePP	51 52
	e(S)	59 24
	e(SS)	22 06 05
	e(SSS)	09 49
	eL	16 07
UK	e	21 57 58
	eL	22 10 57

Date and Station		Phase (GCT)
		h m s
Oct. 22		
COL	e	01 18 16
Oct. 22		
TUC	eP	01 30 18
Oct. 22, H = 03 42 32 By Berkeley, 40.5°N, 126.6°W. Off coast of Cape Mendocino, Calif. Mag. 4.4		
SH	eP	03 43 21
	iP	43 22
	i(S)	43 55
	iL	45 15
TUC	e	03 46 09
Oct. 22		
COL	iP	05 16 18
	i	16 41
HH	iP	05 16 47
PF	e	05 16 43
Oct. 22		
COL	e	06 06 06
Oct. 22		
BC	e	07 58 30
OV	i	07 59 58
PF	i	07 58 33
	e	59 54
Oct. 22		
BH	iP	08 41 46
	iS	41 58
Oct. 22		
COL	eP	09 03 51
	e	07 55
HH	e(P)	09 03 57
SH	e	09 02 58
TUC	e	09 03 13

Date and Station		Phase (GCT)
		h m s
Oct. 22, H = 21 45 21* 36½°N, 121½°W. Near coast of California. Felt at Hollister, Big Sur, and Morgan Hill. Mag. 4.7		
BC	e	21 46 44
	i	46 50
	i	47 06.5
	eL	48 16
BOZ	eL	21 51 38
HH	iP	21 48 31
	eL	52 11
LOG	e	21 47 34
	e	49 40
	eL	50 10
OV	iP	21 46 47
	iL	50 03
PF	iP	21 46 53
	i	47 06
	i	47 12
	eL	48 33
SLC	eL	21 49 43
SH	eP	21 46 27
	e(S)	47 22
	eL	47 29
TUC	e	21 47 44
	i	47 51
	e	48 34
	eS	49 16
	eL	50 03
UK	e(S)	21 47 08
	eL	47 28
Oct. 22		
HH	iP	23 24 07
	iS	24 44
Oct. 23		
COL	e	05 16 38
OV	i	05 15 11

Date and Station		Phase (GCT)
		h m s
Oct. 23, cont.		
PF	e	05 15 01
Oct. 23, H = 05 12 44* 4°S, 144°E. Near north coast of New Guinea. h = about 150 km.		
BC	eP	05 25 59
	ePP	30 17
COL	iP	05 24 41
	epP	25 25
	ePKKP	42 51
HH	iP	05 25 57
OV	i	05 27 32
	i	28 05
PF	iP	05 26 02.5
	iPP	30 13
SH	iP	05 25 31
	e(pP)	26 00
	ePP	29 21
TUC	eP	05 26 16
	ePP	30 26
Oct. 23		
TUC	eP	05 42 16
Oct. 23		
TUC	eP	09 21 29
Oct. 23		
COL	e	12 42 47
Oct. 23		
SH	eP	15 31 24
	e	31 34
	e	31 46
	e	32 39
TUC	iP	15 31 47
Oct. 23		
HH	e(P)	21 05 01
	e	05 06

Date and Station		Phase (GCT)
		h m s
Oct. 24		
BC	iP	01 54 02
	e	54 45
OV	iP	01 54 05
	i	54 45
PF	e(P)	01 54 02
	i	54 11
	i	54 15
	i	55 03
	i	55 29
SH	e	01 55 19
Oct. 24		
OV	e	02 10 10
PF	e	02 10 19
Oct. 24, H = 02 22 33 By Pasadena, 37°40'N, 118°18'W. Southeast of Benton, Calif. Mag. 4.1		
OV	iP	02 23 36
	i	24 19
PF	iP	02 23 35
	i	23 44
	iL	24 39.5
SH	eP	02 23 49
	e	24 19
	e(S)	24 41
	e(L)	24 57
TUC	e	02 24 37
	e	25 11
	eL	27 02
Oct. 24		
COL	eP	02 39 57
	i	40 07
HH	eP	02 35 58
	i	36 02
	i(pP)	36 10
	i	36 15
	e	39 53

Date and Station		Phase (GCT)
		h m s
Oct. 24, cont.		
SH	e	02 36 36
Oct. 24		
BC	e	02 57 56
	i	58 00
OV	e	02 58 00
	e	58 44
PF	e	02 58 15
Oct. 24		
OV	e	04 44 06
PF	e	04 44 23
SH	e	04 47 25
	e	47 53
Oct. 24		
COL	eP	15 46 10
Oct. 24		
BC	e	19 12 39
OV	e	19 13 48
PF	e	19 12 32
	i	13 33
Oct. 24		
BC	e	21 09 13
PF	i	21 09 03
	e	10 11
Oct. 24		
OV	e	21 30 20
PF	e	21 29 48
Oct. 24		
PF	e	23 05 43
	e	06 18
Oct. 25		
BC	e	00 55 17
PF	e	00 54 23
	e	55 24

Date and Station		Phase (GCT)
		h m s
Oct. 25, H = 03 05 08 By Pasadena, 35°44'N, 118°05'W. North of Walker Pass, Calif. Mag. 2.7		
BC	e	03 05 59
OV	e	03 06 05
	i	06 10
PF	e	03 06 11
	e	06 54
Oct. 25, H = 03 56 30** Fox Islands, Aleutian Islands.		
BC	e	04 04 15
COL	eP	04 00 20
	e	01 01
	e	06 17
HH	e(P)	04 03 15
OV	e	04 04 15
	i	04 32
PF	i	04 04 18
SH	e	04 03 09
TUC	eP	04 04 54
Oct. 25, H = 04 18 52 By Berkeley, 40.6°N, 125.2°W. Off coast of Cape Mendocino, Calif. Mag. 3.9		
SH	iP	04 19 31.5
	e(S)	19 52
	eL	20 09
Oct. 25		
SH	e(P)	09 59 12
	eL	10 00 17
Oct. 25		
PF	e	10 27 23
	e	27 45
	e	28 04

Date and Station		Phase (GCT)
		h m s
Oct. 25, H = 13 07 38* 36°N, 140°E. Honshu, Japan. Felt. h = about 100 km.		
BC	eP	13 19 42
	epP	20 03
COL	iP	13 16 28.5
	ipP	16 52
HH	iP	13 19 02
	ipP	19 27
	i	19 34
	i	20 10
	i	20 29
OV	iP	13 19 42
	ipP	20 09
	e	23 40
PF	iP	13 19 45
	ipP	20 12
SH	iP	13 18 58
	epP	19 27
TUC	iP	13 20 08
	ipP	20 35
Oct. 25		
COL	eP	13 49 21
Oct. 25		
PF	e	15 46 01
Oct. 25		
SH	e(P)	16 34 41
Oct. 25		
PF	e	18 09 37
Oct. 26, H = 00 02 31* 10½°N, 41°W. North Atlantic Ocean.		
BER	eL	00 16 50
BC	eP	00 13 50
	iP	13 54
COL	eP	00 15 25
	e	15 57

Date and Station		Phase (GCT)
		h m s
Oct. 26, cont.		
HUAN	eL	00 24 07
HH	iP	00 13 52.5
	i	13 59
OV	iP	00 13 52
PF	iP	00 13 50
SJ	eP	00 08 07
	eS	12 25
	eL	13 41
SH	iP	00 14 25
	e	14 59
TUC	iP	00 13 32
	e(PP)	16 14
	e(S)	22 25
	eL	40 07
Oct. 26		
COL	e(P)	01 45 51
	e	46 25
Oct. 26		
COL	eP	08 02 43
	iP	02 46
	e	04 28
SH	e	08 03 25
Oct. 26, H = 09 13 11* 6°S, 153°E. Solomon Islands.		
BER	eL	10 26 20
BC	ePP	09 30 24
COL	eP	09 25 34
	e	26 04
	i	26 15
HONO	eL	09 45 32
HH	e(P)	09 26 55
OV	e	09 28 14
PHIL	eL	10 18 51

Date and Station		Phase (GCT)
		h m s
Oct. 26, cont.		
PF	e	09 27 15
SH	e	09 26 20
	e	26 56
	ePP	29 54
TUC	eL	10 03 41
UK	eL	10 01 12
Oct. 26		
BC	e	19 06 37
	e(S)	07 21
	e(L)	07 26
OV	iP	19 06 27
PF	iP	19 06 28
	iS	06 58
	i	07 32
Oct. 26		
COL	e	20 15 24
SH	e(P)	20 19 18
Oct. 27		
OV	e	00 53 10
PF	e	00 52 08.5
Oct. 27, H = 04 37 55** Arizona-Mexico border.		
BER	e	04 49 12
BC	e(P)	04 39 12
	eL	41 32
OV	e	04 39 14
	i	39 26
	iL	41 54
PF	e	04 39 08
	i	39 19.5
	e	40 04
	iL	40 25
SLC	eL	04 44 08

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
TUC	eP	04 38 20
	i	38 34
	i	38 41
	i(L)	38 57.5
Oct. 27		
BC	e	05 47 41
	e	53 06
OV	e	05 47 54
	i	48 39
	e	53 20
PF	e	05 45 06
	e	47 21
	i	47 52
	e	53 16
Oct. 27		
TUC	eP	05 50 02
	e	50 14.5
	i	50 21.5
	i(S)	50 30
	iL	50 52
Oct. 27, H = 08 24 15* 30°N, 112°W. Gulf of California. Mag. 5		
BC	e(P)	08 25 47
BOZ	eP	08 28 00
	e(S)	31 27
	eL	33 02
BUT	e(S)	08 31 38
	eL	33 47
CHI	eL	08 36 13
COL	e	08 30 56
	e	31 55
HH	eP	08 28 24
	iP	28 28.5
	e	28 35
	i	32 21
	eL	34 54
LIN	eL	08 33 27

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
LOG	e	08 27 00
	e(S)	29 33
	eL	30 42
NK	e(S)	08 35 45
	eL	37 32
OV	iP	08 25 52.5
	i	26 22.5
	iL	28 00
PHIL	eL	08 40 53
PF	iP	08 25 46
	i	27 07.5
	iL	28 06
SLC	eL	08 30 28
SH	e(P)	08 27 25
	e	28 13
	eL	31 11
TUC	eP	08 24 57.5
	i	24 59
	i	25 09
	eS	25 31
	iS	25 32
	i	25 53
	i	26 05
	iL	27 10
Oct. 27		
BC	e	09 04 59
COL	eP	09 05 37
	iP	05 49
OV	iP	09 05 01
	e	05 52
PF	e	09 05 01
SH	e	09 04 50
TUC	e	09 05 02
Oct. 27		
TUC	e	09 19 55
	i	20 11
	i	20 17

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
TUC, cont.		
	iS	09 20 29.5
	i	20 50
	i(L)	20 57
Oct. 27, H = 10 02 22* 24½°S, 180. South of Fiji Islands.		
BC	iP	10 14 47
COL	iP	10 15 14
	e	17 09.5
	e(SKS)	25 13
HH	iP	10 15 18
	i	15 29
	e	15 45
LOG	eP	10 15 07
NK	e	10 31 47
	e(SS)	38 17
OV	iP	10 14 49
	i	15 15
	epP	15 44
PF	iP	10 14 48
SH	iP	10 14 35
	e	15 56
	e	16 31
	e	19 36
TUC	iP	10 14 52
	e	17 16
	e	33 12
	eL	41 21
UK	eL	10 39 35
Oct. 27, H = 10 05 37** Gulf of California aftershock.		
BC	e	10 07 08.5
	e	08 04.5
	i(L)	09 24.5
HH	eP	10 09 47

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
OV	iP	10 07 12
	i	07 40
	i(L)	09 52
PF	eP	10 07 05
	i	07 42
	i	09 34
	i(L)	09 54
SLC	eL	10 12 04
SH	e	10 08 47
TUC	eP	10 06 17
	i	06 30
	i	06 32
	e(S)	06 39
	i(S)	06 42
	i	07 02
	eL	07 08
	iL	07 23
Oct. 27		
COL	e(P)	14 15 55
Oct. 27		
COL	eP	14 58 31
Oct. 27, H = 18 35 58* 49°N, 155°E. Kurile Islands.		
BC	iP	18 46 36
COL	iP	18 42 43
HH	iP	18 45 44
	i	54 59
	i	55 39
OV	iP	18 46 35
	i	46 49
	i	47 30
PF	iP	18 46 39.5
	i	46 52
	i	47 17
SH	iP	18 45 45
	e	50 14

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
TUC	iP	18 47 08
Oct. 27		
OV	e	20 27 00
PF	i	20 26 56.5
SH	eP	20 27 48
TUC	iP	20 26 24
Oct. 27, H = 21 23 45** Cape Mendocino fore-shock.		
BC	e	21 25 55
HH	e	21 25 21
LOG	eP	21 24 07
OV	e	21 25 53
PF	e	21 26 00
SH	e	21 24 09
TUC	e	21 26 59
Oct. 28		
BC	e	00 19 23
HH	iP	00 20 14
	i	20 44
OV	i	00 19 27
	i	19 57
PF	i	00 19 24
SH	e	00 20 06.5
	e	20 36
Oct. 28, H = 00 12 08* 34°N, 142°E. Off east coast of Honshu, Japan.		
BC	iP	00 24 20
COL	iP	00 21 13
	e	22 23

Date and Station		Phase (GCT)
		h m s
Oct. 28, cont.		
HH	iP	00 23 45
	i	23 57
	i	24 04
OV	iP	00 24 19
PF	iP	00 24 22
	i	24 35
SH	iP	00 23 36
TUC	iP	00 24 45
	i	24 58
Oct. 28		
PF	e	01 45 45
Oct. 28, H = 02 29 15* 41°N, 124°W. Off coast of Cape Mendocino, Calif. Mag. 4.5		
BC	e	02 31 27.5
HH	eP	02 31 50
OV	e	02 31 24
	i	31 39
	i	32 17
PF	e	02 31 31
	e	32 24
SH	iP	02 29 39
	e(S)	29(52)
	eL	30(03)
TUC	eP	02 32 33
	e	32 41
	eL	36 48
Oct. 28, H = 13 22 33 By Pasadena, 34°03'N, 115°48'W. Pinto Basin, Calif. Mag. 3.2		
OV	e	13 23 18
	i(S)	24 08
	e(L)	24 41

Date and Station		Phase (GCT)
		h m s
Oct. 28, cont.		
PF	e	13 23 22
	i	23 32
	eS	24 02
	i(L)	24 27.5
Oct. 28		
OV	eP	13 55 17
	i	55 25.5
	i(S)	55 48
	eL	56 16.5
PF	eP	13 55 11
	iP	55 12.5
	i	55 38
	eS	55 46
	iL	55 48
Oct. 28		
COL	eP	15 01 21
HH	iP	15 03 51
	e	04 04
SH	iP	15 03 45
TUC	iP	15 04 53
Oct. 28, H = 16 26 12* 6°S, 153°E. New Britain region.		
BC	i	16 39 40
COL	iP	16 38 38
	e	38 59
	e(PP)	41 14
HH	iP	16 39 43
PF	e	16 39 42
	e	40 28
SH	e(P)	16 39 12
	e	42 37
Oct. 28, H = 18 48 01* 20°S, 179°W. Fiji Islands region. h = about 450 km.		

Date and Station		Phase (GCT)
		h m s
Oct. 28, cont.		
BC	iP	18 59 35
	ipP	19 01 18
	iS	09 18
COL	iP	19 00 01
	epP	01 48
	e(SKKS)	10 12
HH	iP	19 00 07
	i	00 34
	ipP	01 59
OV	iP	18 59 36.5
	ipP	19 01 21
PF	iP	18 59 38
	i	19 00 07.5
	ipP	01 20.5
SH	iP	18 59 23
	epP	19 01 04
	ePP	02 44
	epPP	04 13
TUC	iP	18 59 39
	ipP	19 01 25
	i	02 15
Oct. 28, H = 22 18 08** Banda Sea.		
BC	iP'	22 36 54
COL	e(P)	22 31 27
	e(PP)	35 20
	e	40 30
HH	iP'	22 36 52
PF	eP'	22 36 55
	ePP	38 02.5
Oct. 29		
BH	eP	00 00 25
	eS	01 07
Oct. 29, H = 00 06 20 By Berkeley, 37.5°N, 121.0°W. Near Modesto, Calif. Mag. 3.4		

Date and Station		Phase (GCT)
		h m s
Oct. 29, cont.		
BC	e	00 07 59.5
OV	e	00 07 59
	i	08 04
	i	09 09
PF	e(P)	00 08 05
	e	09 10
	i	09 38
SH	eP	00 07 15
	e	07 22
	e	07 37
	e(S)	07 51
	eL	08 04
Oct. 29, H = 00 21 43* 17°S, 174°W. Samoa Islands region.		
BC	eP	00 33 35
COL	iP	00 34 12
HH	i(P)	00 34 12
	e	34 36
OV	iP	00 33 38
	i	34 08
PF	eP	00 33 36
	i	33 54
SH	eP	00 33 24
TUC	e	00 33 23
	e	33 38
Oct. 29		
COL	eP	00 41 48
OV	e	00 41 17
	e	42 05.5
PF	e	00 41 18
SH	i(P)	00 41 04
TUC	iP	00 41 19

Date and Station		Phase (GCT)
		h m s
Oct. 29		
PF	e	01 39 30
Oct. 29		
PF	e	01 45 04
	i	45 45
	e	48 42
Oct. 29		
COL	e	03 08 14.5
Oct. 29		
PF	i	04 18 37
Oct. 29		
HUAN	e	06 22 12
	eS	28 30
	eL	34 18
Oct. 29		
COL	e	06 41 01
	eL	56 10
Oct. 29, H = 06 31 46* 10°S, 160°E. Solomon Islands.		
BC	eP	06 45 00
	ePP	48 36
COL	iP	06 44 22
	e	45 24.5
HH	iP	06 45 17
OV	eP	06 45 02
	i	45 31
	e	48 58
SH	eP	06 44 38
	e	47 01
TUC	e(P)	06 45 12
	e	46 07
Oct. 29		
COL	eP	07 18 36
	e(S)	19 21
	eL	19 33

Date and Station		Phase (GCT)
		h m s
Oct. 29, H = 14 12 57** Fiji Islands region. h = about 500 km.		
BC	iP	14 24 46.5
COL	eP	14 25 12
HH	iP	14 25 17
OV	iP	14 24 49.0
	i	25 18
PF	i	14 24 49
SH	iP	14 24 34
	epP	26 18
	e	27 57
	e	32 21
TUC	iP	14 24 51
	e	26 07
Oct. 29		
COL	eP	14 36 45
TUC	e	14 36 09
Oct. 29		
COL	e	15 35 29
OV	e	15 34 53
Oct. 29		
PF	e	19 53 25.5
Oct. 29, H = 22 27 40 By Pasadena, 34°01'N, 115°59'W. Northeast of Pinto Basin, Calif. Mag. 2.9		
BC	e	22 28 20.5
PF	e(P)	22 28 28
	i	28 30
	e(S)	29 03
Oct. 30		
BC	iP	00 28 00
COL	e	00 23 58

Date and Station		Phase (GCT)
		h m s
Oct. 30, cont.		
HH	iP	00 29 53
OV	iP	00 27 58
PF	iP	00 28 03
SH	eP	00 26 53
TUC	iP	00 28 40
Oct. 30		
HH	e	02 51 25
SH	iP	02 47 56
	i(L)	48 28
Oct. 30		
COL	e(P)	03 55 12
Oct. 30, H = 05 33 20* 19°S, 169°E. New Hebrides Islands.		
BC	eP	05 41 54
	e	42 14.5
COL	eP	05 38 01
	iP	38 04
	e	39 20
HH	iP	05 40 59
	i	42 21
OV	iP	05 41 58
	i	42 22
	i	43 09
PF	e	05 42 02
	i	42 16
SH	eP	05 40 51
TUC	e	05 42 35
Oct. 30, H = 05 34 13* 52½°N, 168°W. Fox Islands, Aleutian Islands.		
BC	iP	05 46 25

Date and Station		Phase (GCT)
		h m s
Oct. 30, cont.		
COL	eP	05 46 34
OV	iP	05 46 26
	e	47 15
	i	47 47.5
PF	iP	05 46 27
	e	47 30
SH	iP	05 46 08
TUC	iP	05 46 32.5
	e	48 06
Oct. 30		
COL	eP	07 54 13
HH	iP	07 55 38
TUC	iP	07 51 57
Oct. 30		
TUC	eP	12 26 07
Oct. 30		
PF	e	17 56 45
	i	56 58.5
TUC	eP	17 56 04
	e	56 17
Oct. 30		
HH	iP	20 24 20
SH	eP	20 24 15
Oct. 30, H = 23 54 05* 33°S, 180. Kermadec Islands region. h = about 60 km.		
BC	iP	00 07 09.5
COL	eP	00 07 54
	epP	08 09
HONO	eP	00 03 50
	iP	03 54
	eL	20 34
HH	eP	00 07 26

Date and Station		Phase (GCT)
		h m s
Oct. 31, cont.		
OV	iP	00 07 13.5
	i	07 21
	i	08 48
	i	10 46
PF	iP	00 07 12
	i	08 16
	e	10 49.5
SH	iP	00 07 03
TUC	iP	00 07 10
	ipP	07 25
	e	08 17
Oct. 31, H = 00 02 27** Tonga Islands region.		
BC	iP	00 14 42
	i	15 06
COL	iP	00 15 15
	e	15 57
HUAN	e	00 25 50
	e(S)	27 40
	eSS	34 17
	eL	43 13
HH	eP	00 15 18
	i	15 32
	ePP	18 37
LOG	eP	00 15 06
	e(PP)	18 15
OV	iP	00 14 45
	i	14 53
	e	15 29
PHIL	eL	00 51 13
PF	iP	00 14 46
	i	14 51
SH	eP	00 14 29
	iP	14 31
TUC	eP	00 14 48
	e	16 05
	ePP	18 05
	eL	38 37

Date and Station		Phase (GCT)
		h m s
Oct. 31, cont.		
UK	eL	00 32 07
Oct. 31, H = 01 39 32* 56°N, 135°W. Near coast of southeastern Alaska. Felt in Sitka. Mag. 6-3/4		
BER	e	01 50 00
	e(S)	57 37
	eL	02 01 26
BC	iP	01 44 54
	i	45 10
	i	46 31
	eL	51 21
BOZ	iP	01 43 50
	eS	47 10
	eL	48 58
BUT	iP	01 43 38
	iS	47 05
	eL	48 16
CHI	eP	01 46 11
	ePP	47 27
	eS	51 31
	eL	53 26
COL	iP	01 42 04
	i(S)	44 32
	eL	45 27
COLU	e	01 49 19
	eS	54 00
	eL	57 20
HONO	eP	01 46 54
	eS	53 08
	eL	55 56
HUAN	e(P)	01 52 12
	ePP	55 13
	eS	02 02 31
	e	03 36
	eL	18 45
HH	eP	01 43 07
	i	43 52
	iS	46 02
	e	46 12
	eL	47 16

Date and Station		Phase (GCT)
		h m s
Oct. 31, cont.		
LIN	eP	01 45 44
	iS	50 32
	eL	52 18
LOG	eP	01 44 13
	i	45 00
	i	45 32
	eS	48 12
	iS	48 21
	iL	50 10
OV	iP	01 44 49
	i	47 48
	iS	49 01
PHIL	eP	01 47 27
	ePP	49 02
	eS	53 47
	eL	56 50
PF	iP	01 44 53
	i	44 57
	i	46 41
	eL	49 44
SLC	e(P)	01 44 28
	iS	48 36
	eL	50 28
SJ	eP	01 50 04
	e(PPP)	53 56
	eS	58 21
	eL	02 08 35
SH	iP	01 43 38
	eS	46 56
	iS	47 16
	eL	49 00
SIT	iP	01 39 51
	iS	40 00
TUC	eP	01 45 36
	e	45 42
	ePP	46 34
	e(S)	50 36
	eL	52 21
UK	iP	01 43 54
	eS	47 29
	eL	48 01

Date and Station		Phase (GCT)
		h m s
Oct. 31		
COL	eP	02 03 24
Oct. 31, H = 02 32 11* 56°N, 135°W. South-eastern Alaska after-shock.		
BC	eP	02 37 31
BUT	eP	02 36 20
	eL	41 21
CHI	e	02 44 03
	eL	49 24
COL	iP	02 34 46
	eL	38 00
COLU	eL	02 54 00
HH	eP	02 35 49
	e(S)	39 57
LIN	e	02 47 52
	iL	50 32
LOG	eP	02 36 55
	eL	43 27
OV	iP	02 37 30
PF	iP	02 37 34
	i	38 46
	e	39 41
SH	eP	02 36 20
	e	37 27
	e	39 33
SIT	iP	02 32 32
	iS	32 46
	iL	33 16
TUC	iP	02 38 17
Oct. 31, H = 02 50 37** New Hebrides Islands region.		
BC	eP	03 03 42

Date and Station		Phase (GCT)
		h m s
Oct. 31, cont.		
COL	e	03 03 33
OV	iP	03 03 54
PF	eP	03 03 46
SH	eP	03 03 25
TUC	eP	03 03 42
Oct. 31		
COL	e	04 00 26
HH	e(P)	04 02 38
Oct. 31		
SH	e	07 10 40
Oct. 31, H = 07 44 01* 49°N, 156°E. Kurile Islands.		
BC	iP	07 54 37
	i	54 51
COL	iP	07 50 41
	e(S)	53 18
	eS	53 33
HH	iP	07 53 42.5
	i(pP)	53 55
	i	55 42
OV	iP	07 54 36
	i	54 50
	e	56 37
PF	iP	07 54 39
	i	55 04
	i	55 26
SH	iP	07 53 44
	e	53 56
TUC	iP	07 55 08
Oct. 31		
TUC	eP	07 59 29
Oct. 31		
BH	iP	07 59 47
	iS	08 00 18

Date and Station		Phase (GCT)
		h m s
Oct. 31, H = 17 55 39* 5½°S, 154°E. Solomon Islands region. h = about 100 km. Mag. 6-3/4		
BER	e	18 19 03
	e	30 32
	eSS	35 42
	eL	19 03 20
BC	eP	18 08 52
	e	09 12
	i	09 41.5
	ePP	12 28
BOZ	iSKS	18 19 39
	eSS	26 55
	eL	34 35
COL	iP	18 07 54
	e	08 10
	epP	08 16
	iS	17 53
	eSS	22 24
	eL	29 20
HONO	eP	18 05 04
	i(pP)	05 23
	i	05 40
	eS	12 26
	eL	19 24
HUAN	e	18 15 38
	ePKS	18 02
	ePS	26 41
	eSS	33 01
	eL	47 21
HH	iP	18 08 56
	epP	09 19
	iPP	13 01
	i	13 17
	ePKKP	26 11
OV	iP	18 08 54.5
	ipP	09 16.5
	i	10 42.5
	i	13 09
PHIL	ePP	18 16 35
	eSKS	21 26
	e	23 08

Date and Station		Phase (GCT)
		h m s
Oct. 31, cont.		
PHIL, cont.		
	eSS	18 33 13
	e	41 31
	eL	47 46
PF	e	18 09 19
	i(pP)	09 20
	i	09 29
SLC	eSKS	18 19 32
	eL	39 56
SJ	ePP	18 17 28
	eL	53 10
SH	eP	18 08 29
	iP	08 30
	epP	08 49
	ePP	11 55
	e(pPP)	12 49
	eS	19 12
	e(sS)	19 55
TUC	e(P)	18 09 06
	i(pP)	09 32
	ePP	13 05
	e	19 44
	ePS	21 46
	eSS	27 26
	e(SSS)	30 58
	eL	35 13
UK	e(S)	18 18 51
	e(SS)	25 21
	eL	31 27
Oct. 31		
BC	e	21 58 14
COL	iP	21 54 29
	e(pP)	56 01
HH	iP	21 57 42
PF	e	21 58 25
SH	e	21 57 26
	e	59 15
Oct. 31		
OV	i	23 34 45

Date and Station		Phase (GCT)
		h m s
Oct. 31		
PF	e	23 37 01
Nov. 1		
COL	eP	01 54 10
	e(S)	55 50
	eL	57 40
HH	eP	01 55 13
PF	e	01 56 58
SH	e	01 55 49
SIT	iP	01 51 55
	eS	52 04
	eL	52 15
Nov. 1, H = 07 32 49* 5°S, 153½°E. New Britain region. h = about 100 km.		
BC	eP	07 46 02
	e(pP)	46 42
	e	50 18
COL	iP	07 45 01
	e(pP)	45 25
	eS	54 47
HH	eP	07 46 07
	epP	46 31
	e	48 49
OV	eP	07 46 04
	epP	46 29
	e	46 52
	ePP	49 48
PF	eP	07 46 05
	epP	46 30.5
	i	46 47.5
	e	50 22
TUC	eP	07 46 06
	e	49 41
Nov. 1, H = 10 58 34 By Pasadena, 33°59'N, 115°45'W. Pinto Basin, Calif. Mag. 3.2		

Date and Station		Phase (GCT)
		h m s
Nov. 1, cont.		
BC	e(P)	10 59 13
	i	59 18
	i(S)	59 48
	eL	11 00 04
OV	e	10 59 21.5
	i	59 28.5
	i	59 58
	i	11 00 09
	iL	00 53
PF	eP	10 59 16
	i	59 26
	i(S)	59 58
	i	11 00 24
Nov. 1, H = 11 55 50* 40½°N, 127°W. Off coast of Cape Mendocino, Calif. Mag. 4.7		
BC	eP	11 58 24
	i	58 42
HH	e(P)	11 58 44
OV	iP	11 58 25
	i	58 44
	i	59 03
	i	59 54
	i	12 01 19.5
PF	iP	11 58 33
	i	58 40
	i	59 26.5
SH	eP	11 56 44
	iP	56 45
	e	57 08
	iS	57 27
	eL	57 33
TUC	eP	11 59 31
	iP	59 34
UK	eS	11 57 17
	eL	57 33

Date and Station		Phase (GCT)
		h m s
Nov. 1, H = 12 04 24** About 100 miles off east coast of Mindanao, Philippine Islands.		
COL	iP	12 16 36
	ePcP	17 19.5
	ePP	19 03
	ePPP	20 22
	e(S)	24 55
HH	eP	12 18 21
SH	eP	12 18 05
	e	18 10
Nov. 1, H = 13 04 25* 48°N, 93°E. Mongolia.		
BC	eP	13 17 41
COL	iP	13 14 22.5
	e	20 47
	eL	37 30
COLU	eL	14 41 51
HH	iP	13 16 44
	i	16 50
OV	eP	13 17 39
PF	eP	13 16 57
SH	iP	13 17 09
TUC	e	13 18 02
Nov. 1		
BC	i	15 37 35
PF	i	15 37 38
TUC	e	15 37 43
Nov. 1		
OV	e	18 34 44
PF	e	18 33 58
	e	34 25

Date and Station		Phase (GCT)
		h m s
Nov. 1, H = 19 09 58* 31½°N, 112°W. Northwestern Mexico.		
BC	eP	19 11 16
	eS	12 14
	iL	13 41
HH	iP	19 13 58
	i	14 02
OV	iP	19 11 22
	iL	13 17
PF	iP	19 11 16.5
	iS	12 14.5
	iL	13 12.5
TUC	iP	19 10 26
	i	10 31
	e(S)	10 40
	i	10 49
	iL	11 08
Nov. 2, H = 02 07 15** Near south coast of Dominican Republic.		
BC	eP	02 15 19
HH	iP	02 15 42
	ipP	16 06
OV	iP	02 15 17
	e	15 39
	e	15 53
PF	iP	02 15 14
SJ	iP	02 08 13
	e	08 19
	e	08 35
	eS	08 47
	eL	09 20
SH	iP	02 16 08
Nov. 2, H = 02 29 36* 36½°N, 113°W. Northwestern Arizona. Felt in Arizona and Utah. Mag. 4.7		

Date and Station		Phase (GCT)
		h m s
Nov. 2, cont.		
BC	iP	02 30 05.5
	iS	30 27
	iL	31 20.5
HH	eP	02 32 26
	i	35 47
	iL	35 57
OV	iP	02 29 58
PF	iP	02 29 55.5
SH	e	02 31 41
	e(S)	33 18
TUC	iP	02 30 48
	i(S)	31 02
	i	31 14
	iL	31 28
Nov. 2, H = 02 32 32* 3°S, 135°E. Northwestern New Guinea.		
BER	eP'	02 53 15
	eL	03 41 10
BC	e	02 46 58
	e	48 25
	eP'	51 04
COL	eP	02 45 18
	iP	45 20
	e(pP)	46 45.5
	ipP	46 47.5
HONO	iP	02 43 49
	i	45 17
HUAN	eP	02 43 29
	iP	43 30
	iS	52 22
	i	53 52
	e	58 06
	eL	03 15 06
HH	e(P)	02 46 46
	e	47 11
	iPP	51 00
	i(PPP)	52 43

Date and Station		Phase (GCT)
		h m s
Nov. 2, cont.		
HH, cont.		
	e(PKKP)	03 02 47
	eP'P'	11 37
OV	e	02 53 16
PHIL	eL	03 43 31
PF	e(P)	02 47 01
	e	51 10
SLC	eL	03 27 25
SJ	eP'	02 52 45
	ePP	56 19
	e(SS)	03 16 42
	eL	49 33
SH	iP	02 46 28
	e(pP)	47 44
TUC	eP'	02 51 11
	eL	03 24 02
Nov. 2		
COL	e(P)	03 00 30
	e	04 38
OV	e	03 02 28
PF	e	03 01 39
Nov. 2, H = 03 27 43** New Britain region.		
BC	e	03 41 25
	e	41 50
COL	eP	03 40 15
PF	e	03 41 29
SH	e	03 41 00
Nov. 2		
COL	e	14 20 43
Nov. 2		
BC	e	21 14 09

Date and Station		Phase (GCT)
		h m s
Nov. 2, cont.		
OV	e	21 14 15
	e	14 42
PF	e	21 14 07
	i	14 11
TUC	e	21 13 10
Nov. 2, H = 23 08 21 By Pasadena, 33°46'N, 120°29'W. Southwest of Santa Rosa Island. Mag. 3.6		
BC	e	23 10 00
	e	10 49
PF	e	23 09 47
	i	10 13
	i	11 46
Nov. 3		
BC	e	00 20 45
	i	21 06
COL	e(P)	00 19 27
	e	19 49
	e	19 58
HH	e(P)	00 20 56
PF	e	00 20 51
SH	e	00 20 10.5
	i	20 38
Nov. 3, H = 01 12 37* 48½°N, 154°E. Kurile Islands. h = about 200 km. Mag. 6.9		
BER	ePP	01 30 18
	eSKS	37 28
	iSKS	37 30
	i	38 40
	eL	50 00
T_S = 12 sec. A = 2 mm.		

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
BC	iP	01 23 01.5
	i	23 12.5
	iPcP	23 32
	ipP	23 49.5
	i	24 17
	iPP	25 33
	e(pPP)	26 19
	e(S)	31 39
BOZ	eP	01 22 31
	epP	23 29
	iS	30 38
	isS	31 43
	eL	35 33
BUT	iP	01 22 30
	ipP	23 32
	iS	30 31
	e(sS)	31 29
CHI	eS	01 33 17
	eSSS	41 20
	eL	43 33
COL	iP	01 19 10
	epP	19(42)
	e(PcP)	21 28.5
	eS	24 18
	e(PcS)	25 11
	eP'P'	49 55
COLU	e(S)	01 35 05
	e	36 07
HONO	iP	01 20 53
	i	21 08
	ePP	22 37
	e	28 23
	eSS	31 31
	eL	34 19
HUAN	e	01 32 07
	eSKKS	40 26
	e(PS)	43 11
	e	46 32
	eSS	49 42
HH	iP	01 22 10
	ipP	23 00
	isP	23 09
	ePP	24 27

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
HH, cont.		
	eS	01 29 50
	e(sS)	31 43
	e(ScS)	31 51
	e(P'P')	51 45
LIN	iS	01 32 39
	eL	45 44
LOG	eP	01 22 45
	iP	23 21
	e	25 36
	iS	31 00
	isS	32 06
	eSS	35 15
	eL	38 26
OV	iP	01 23 00.5
	i(PcP)	23 35.5
	e(pP)	23 46.5
	iPP	25 28
	i(pPP)	26 18
	e(S)	32 06
PHIL	eS	01 34 3[illegible]
	e	35 3[illegible]
	eL	48 45
PF	iP	01 23 04
	i(PcP)	23 53
	iPP	25 30.5
	ipPP	26 06.5
	e(S)	31 37
	e(sS)	32 46
RC	iP	01 23 10
	i(pP)	24 02
	iS	31 41
	esS	32 50
	eL	42 04
SJ	eP	01 26 35
	ePP	31 07
	eSKS	37 47
	eS	39 07
	eSS	45 16
	eL	55 12
SH	iP	01 22 10
	i(PcP)	22 49.5
	ipP	23 00
	e(sP)	23 22

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
SH, cont.		
	e(PP)	01 24 19
	e(PcS)	27 54
	eS	29 56.5
	e(sS)	31 04
	e	32 42
	eP'P'	51 45
SIT	iP	01 20 12
	iS	26 22
	eL	29 40
TUC	iP	01 23 33
	ipP	24 10
	iPP	26 09
	eS	32 30
	iS	32 32
	eL	41 28
	eP'P'	51 24
Nov. 3		
BC	e	01 51 05
	e	51 43
OV	e	01 51 44
PF	e	01 51 20
	e	51 42
	e	54 07
Nov. 3		
COL	iP	05 27 01
Nov. 3		
SH	iP	07 13 25
Nov. 3		
BC	eP	11 39 06
COL	iP	11 34 59
HH	iP	11 38 08
	e	39 26
OV	iP	11 39 05
	i	39 45
	i	40 06
PF	iP	11 39.09
SH	iP	11 38 10.5

Date and Station		Phase (GCT) h m s
Nov. 3, cont.		
TUC	eP	11 39 39
Nov. 3		
PF	e	16 46 33
Nov. 3		
COL	iP	19 21 53
	i	21 58
HH	eP	19 23 56
	i	23 58
SH	e	19 24 26
Nov. 3		
BH	iP	23 29 15
	iS	29 39
Nov. 4		
COL	e	00 07 43
HH	iP	00 03 51
	i	03 56
	e	07 42.5
PF	e	00 05 31
SH	e	00 04 19
Nov. 4		
OV	e	04 18 06
PF	e	04 18 12
TUC	e	04 19 10
Nov. 4		
PF	e	05 02 27
	e	04 34
Nov. 4, H = 06 17 27** East China Sea, about 100 miles northeast of Formosa.		
COL	eP	06 28 25
	e(PcP)	29 25
HH	iP	06 30 35
	i	30 40
	i	30 47

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
SH	e(P)	06 30 32
	e(PcP)	30 41
Nov. 4		
COL	eP	07 03 42
Nov. 4		
BC	e	08 00 51
Nov. 4		
BC	eP	12 14 35
COL	e	12 20 55
HH	e(P)	12 15 26
LOG	eP	12 14 54
OV	iP	12 14 37
	i	14 50
	i	15 07
PF	e(P)	12 14 34
	i	14 47
	e	15 26
	e	17 56
SH	e(P)	12 15 08
TUC	e	12 14 09
	e	15 34
	e(PP)	17 14
Nov. 4		
OV	e	12 48 31
PF	e	12 48 33
Nov. 4		
HH	eP	14 44 55
	i	45 00
SH	e	14 43 38
Nov. 4, H = 20 42 40 By Pasadena, 32.2°N, 116.6°W. Near Guadalupe, Lower California. Felt from southern California to Guadalupe, Mexico. Mag. 5.7		

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
BER	eL	21 02 15
BC	eP	20 43 44
	iP	43 45
	i	43 57
BOZ	iP	20 46 06
	eS	49 04
	eL	50 02
BUT	iP	20 46 06
	eS	49 10
	eL	50 19
CHI	e	20 48 07
	eS	52 24
	eL	55 06
COL	eL	21 03 06
COLU	eL	20 56 10
HH	iP	20 46 31
	eL	51 15
LIN	iP	20 46 58
	e(S)	50 30
	eL	51 14
LOG	iP	20 45 10
	i	45 28
	i(S)	47 19
	iL	47 54
OV	iP	20 43 52
PHIL	eS	20 54 55
	eL	56 21
PF	eP	20 43 49
	iP	43 49.5
SLC	iP	20 44 51
	i	45 22
	e(S)	46 54
	eL	47 34
SH	iP	20 45 05
	i	45 30
	i	45 50
	iL	47 14

Date and Station		Phase (GCT)
		h m s
Nov. 4, cont.		
SIT	eL	20 57 08
TUC	iP	20 43 52
	i	44 17
	eS	44 30
	eL	45 09
UK	e	20 45 12
	eL	46 48
Nov. 4		
TUC	iP	20 51 32
Nov. 4		
OV	e	22 07 39
PF	i	22 06 18
	e	07 39
Nov. 4		
PF	e	22 18 30
Nov. 4		
BC	e	22 57 06
	e	57 59
OV	e	22 58 22
PF	iP	22 56 57
	e	57 18
Nov. 5		
HH	iP	01 19 08
	i	19 15
	i	21 18
Nov. 5		
BC	e	02 16 25
PF	e	02 16 14
Nov. 5		
BC	e	02 26 54
OV	i	02 26 57
PF	i	02 26 57
SH	iP	02 26 44
TUC	iP	02 26 59

Date and Station		Phase (GCT)
		h m s
Nov. 5		
OV	i	02 48 18
Nov. 5, H = 04 35 24 By Pasadena, 32°12'N, 116°33'W. Lower California aftershock. Felt in San Diego. Mag. 5.1		
BC	iP	04 36 29.5
	i	36 44
	i	37 01
	i	37 39
	eL	40 00
BOZ	eL	04 42 52
BUT	eL	04 42 47
CHI	eL	04 49 06
HH	eP	04 39 15
	eL	43 25
LOG	eP	04 37 56
	e	38 18
	e	40 34
	eL	40 54
OV	iP	04 36 38
	eL	37 54
PHIL	eL	04 53 19
PF	iP	04 36 35
	i	37 31.5
SLC	e(P)	04 37 51
	eS	39 51
	eL	40 25
SH	e(P)	04 37 57
	e	38 46
	e	39 07
	e(L)	40 25
TUC	iP	04 36 38
	i	36 50
	i	37 08
	i(S)	37 24
	i	37 52.5

Date and Station		Phase (GCT)
		h m s
Nov. 5, cont.		
TUC, cont.	i	04 38 12
	iL	38 31
UK	eL	04 39 59
Nov. 5		
BC	e	06 44 21
OV	e	06 44 34
	e(S)	45 34
PF	iP	06 44 09
	i	44 12
	i(S)	45 25
	i	45 45
Nov. 5		
COL	e	12 07 32
Nov. 5		
OV	e	13 10 00
PF	i	13 10 05
TUC	iP	13 10 43
	i	10 53
Nov. 5		
COL	eP	13 13 46
HH	iP	13 19 25
OV	e	13 19 35
	e	19 50.5
	e	20 59.5
PF	e	13 19 36
SH	e	13 18 58
TUC	eP	13 19 44
	e	21 01
	e	21 15
Nov. 5, H = 15 05 38* 37°N, 55°E. Northern Iran.		
COL	eP	15 17 33
HH	iP	15 19 01

Date and Station		Phase (GCT) h m s
Nov. 5		
PF	e	17 38 19
SH	e(P)	17 37 39
Nov. 5		
BC	e	19 56 57
OV	iP	19 55 56
	i	56 16
PF	eP	19 55 56.5
	e(S)	56 28
Nov. 5, H = 20 02 07 By Pasadena, 32°12'N, 116°33'W. Lower California aftershock. Felt in San Diego, Calif. and Jamul, Mexico. Mag. 4.0		
BC	eP	20 03 13
	e	04 23
OV	iP	20 03 22
	i	03 57
	iS	04 42
PF	iP	20 03 19
	i	03 24
	e	04 16
	e(S)	04 30
	i	04 45
Nov. 5		
HH	iP	20 31 37
PF	e	20 32 23
SH	e	20 31 35
Nov. 5		
LOG	eP	22 37 13
	i(S)	37 32
	i	37 40
	eL	37 58
PF	e	22 38 59
Nov. 6, H = 01 11 25** About 150 miles off south coast of Guatemala.		
Nov. 6, cont.		
BC	i	01 17 51
COL	iP	01 22 07
	i(PcP)	22 45
OV	iP	01 17 51
	e	19 32
PF	iP	01 17 46
TUC	eP	01 17 06
Nov. 6		
COL	e	02 34 33
SH	e	02 37 35
TUC	e	02 41 35
Nov. 6		
HH	iP	04 12 19
Nov. 6		
SH	e(P)	09 26 50
TUC	iP	09 27 05
Nov. 6, H = 12 12 36** Central Mexico. h = about 100 km.		
BC	e	12 17 23
COL	eP	12 22 04
	e	22 26
HH	eP	12 18 43
	i	18 47
	i	19 07
OV	e	12 17 25
	i	17 44
	i	17 59
PF	i	12 17 19
TUC	eP	12 16 29
	iP	16 31
	e	22 02
Nov. 6		
PF	eP	19 18 58
	e	20 10
Nov. 6		
TUC	i(P)	20 54 05
Nov. 6		
COL	e(P)	21 55 53
Nov. 6		
BC	eP	22 34 38
PF	eP	22 34 34
TUC	eP	22 33 54
	epP	34 35
Nov. 6, H = 23 05 10 By Pasadena 32°12'N, 116°33'W. Northern Mexico. Felt in Dulzura, Hipass, and Campo. Mag. 4.0		
BC	eP	23 06 16.5
	i	06 32
	i	07 19.5
	iL	07 29
OV	eP	23 06 24.5
	i	06 44.5
	i(S)	06 52.5
	iL	07 42.5
	i	07 56.5
PF	iP	23 06 22.5
	i	06 26
	e	06 43
	iL	07 31
TUC	e	23 06 24
	i	06 41
	e(S)	07 07
	e	07 32
	i	07 54
	eL	08 06
Nov. 7, H = 04 31 17** Near coast of Vera Cruz, Mexico.		
BC	eP	04 36 38
	ePP	37 12
COL	e(P)	04 41 10

Date and Station		Phase (GCT)
		h m s
Nov. 7, cont.		
HH	e(P)	04 37 45
	i	37 57
OV	iP	04 36 39.5
PF	iP	04 36 49
	i	36 55
	i	37 03.5
	e	37 50.5
TUC	iP	04 35 46
	e	36 37
	e(S)	39 37
	eL	42 00
Nov. 7, H = 05 59 41* 14°S, 167°E. New Hebrides Islands. h = about 60 km. Mag. 6-3/4		
BC	eP	06 12 34
	iP	12 36
	ePP	16 09.5
BOZ	e	06 13 00
	eSKS	23 28
	eSS	29 49
	e(SS)	30 07
	eL	43 32
BUT	e	06 15 04
	eL	34 23
CHI	e(PP)	06 19 33
	eSKS	24 43
	ePS	28 17
	eSS	34 35
	eL	43 20
COL	iP	06 12 15
	ePP	15 41
	e	20 08
	eS	22 38
	e(SS)	28 46
	eL	35 20
	eP'P'	38 26
COLU	ePS	06 29 08
	eSS	35 22
	eL	47 30

Date and Station		Phase (GCT)
		h m s
Nov. 7, cont.		
HONO	e	06 08 43
	i	08 57
	e	09 14
	eS	15 40
	eL	20 09
HUAN	ePP	06 19 02
	e	24 35
	eSKS	25 02
	ePS	28 32
	eSS	34 09
	eL	45 48
HH	eP	06 12 53
	iP	12 55
	i	13 20
	ePP	17 00
	eSKS	23 28
	eS	23 48
	eSS	30 01
	eP'P'	38 08
LIN	e(PP)	06 18 10
	eSKS	24 22
	ePS	27 18
	eSS	32 30
	eL	47 10
LOG	eP	06 12 33
	ePP	16 25
	ePS	25 07
	eL	39 31
OV	eP	06 12 36
	iP	12 38
	i	12 54
	e(PP)	16 27
PHIL	ePP	06 19 57
	eSKS	25 23
	ePS	29 28
	e	30 51
	eSS	36 15
	e	41 53
	eL	50 50
PF	eP	06 12 37
	iP	12 39.5
	ePP	16 13.5
	e	21 33.5

Date and Station		Phase (GCT)
		h m s
Nov. 7, cont.		
PF, cont.	i	06 30 15
	eP'P'	38 19
SLC	e(P)	06 13 18
	e(S)	23 36
	ePS	25 10
	eL	37 46
SJ	e	06 19 12
	e(PP)	22 08
	eSSS	42 15
	eL	07 00 15
SH	eP	06 12 13
	iP	12 16
	e	14 08
	ePP	15 44.5
	e(S)	22 38
	ePPS	23 48
	e(P'P')	38 39.5
	eL	39 47
SIT	eP	06 12 17
	eS	22 31
	e	23 41
	eSS	28 26
	eL	34 56
TUC	eP	06 12 44
	iP	12 46
	i	13 09
	i	13 30
	ePP	16 35
	e(SKS)	23 18
	e(S)	23 47
	i	25 11
	e(SS)	29 48
	e(PS)	30 09
	eP'P'	38 20
	eL	41 18
UK	eP	06 12 03
	e(S)	22 31
	e	23 41
	e(SS)	28 36
	eL	34 24
WASH	ePP	06 19 49
	e	22 31
	e	28 30

Date and Station		Phase (GCT)
		h m s
Nov. 7, cont.		
WASH, cont.		
	ePS	06 29 35
	eSS	36 10
	eL	58 35
Nov. 7		
BC	i	06 30 18
Nov. 7		
BC	e	06 38 15
Nov. 7		
HH	eP	09 59 01
Nov. 7		
BC	e	11 46 43
OV	e	11 46 29
PF	eP	11 46 26
	eS	46 59
	e(L)	47 03
Nov. 7		
COL	e(P)	11 57 31
OV	e	11 57 52
PF	e	11 57 51
SH	e	11 57 31
Nov. 7		
COL	e(P)	12 36 25
SH	e	12 36 26
Nov. 7		
COL	e	12 58 27
Nov. 7		
SH	e(P)	13 47 55
TUC	iP	13 48 17
Nov. 7, H = 14 34 37** Samoa Islands region. Felt in Apia.		
COL	eP	14 47 01

Date and Station		Phase (GCT)
		h m s
Nov. 7, cont.		
HH	eP	14 47 01
OV	e	14 46 27
TUC	e	14 46 28
Nov. 7		
HH	e(P)	22 35 44
Nov. 8		
COL	eP	08 56 48
	e	59 21
	eS	09 06 25
HH	eP	08 58 42
	i	59 27
SH	eP	08 58 41
Nov. 8		
COL	eP	13 44 45
	iP	44 47
OV	e	13 44 59
Nov. 8		
COL	e(P)	16 05 45
HH	iP	15 58 03
	i	58 15
Nov. 9		
TUC	e	09 18 54
Nov. 9		
PF	e	10 19 19
Nov. 9		
COL	eP	13 22(24)
	eL	24(08)
Nov. 9		
COL	e(P)	20 11(46)
Nov. 9		
HUAN	e	20 31 03
	eL	32 56
HH	eP	20 28 45
	iP	28 50
	e	29 03

Date and Station		Phase (GCT)
		h m s
Nov. 9, cont.		
PF	e	20 28 21
TUC	e	20 26 53
Nov. 9, H = 23 03 29** Pacific Ocean, about 1100 miles north of Easter Island.		
BER	e(S)	23 22 46
	eL	33 12
BC	eP	23 11 56
	iP	11 58
COL	e(P)	23 15(37)
HONO	eL	23 30 41
HUAN	e	23 10 06
	eS	15 20
	eL	17 22
HH	eP	23 13 13
	e	13 19
	i	13 22
	e	15 53
PHIL	eL	23 30 45
PF	e	23 11 56
	i	12 05
SLC	eL	23 28 30
SJ	eL	23 22 44
SH	eP	23 12 33
	iP	12 35
TUC	eP	23 11 18
	e(S)	17 40
	eL	22 55
Nov. 10, H = 05 16 35 By Berkeley, 36°38'N, 121°08'W. Near Pinnacles, Calif. Mag. 3.9		

Date and Station		Phase (GCT)
		h m s
Nov. 10, cont.		
SH	eP	05 17 36
	e(S)	18 29
	eL	18 42
Nov. 10		
TUC	eP	07 31 21
	e	31 37
Nov. 10		
COL	e	10 31(13)
Nov. 10		
BC	i	15 43 31
Nov. 11		
HH	iP	04 09 27
	i	09 31
	i	09 40
PF	e	04 09 00
	i	09 20
TUC	eP	04 08 49
Nov. 11		
BC	e	05 35 58
OV	e	05 35 38
	e(L)	37 03
PF	e	05 35 36
Nov. 11		
COL	eP	09 33 45
Nov. 11		
HUAN	e	10 48 38
	eL	55 00
Nov. 11, H = 10 57 36* 9°S, 119°W. Pacific Ocean, west of Galapagos Islands.		
BC	eP	11 05 54
COL	eP	11 09(42)
HONO	eL	11 27 07
HUAN	e	11 03 42
	eS	09 43
	eL	11 58

Date and Station		Phase (GCT)
		h m s
Nov. 11, cont.		
HH	iP	11 07 24
	i	07 34
OV	iP	11 05 58
	e	07 45
	e(S)	12 19
PHIL	eL	11 27 54
PF	iP	11 05 54
	e	07 55
SH	eP	11 06 37
TUC	iP	11 05 21
	e	07 19
	e	11 38
	eL	18 13
Nov. 11		
HH	eP	11 49 50
	i	50 03
Nov. 11		
HH	iP	12 20 24
	i	20 43
Nov. 11, H = 13 54 00 By Pasadena, 32°12'N, 116°38'W. Lower California. Felt in Carrizo Gorge, Coronado, San Diego, and Campo, Calif. Mag. 4.2		
BC	eP	13 55 05
	i	55 22
	i	55 24
	e	56 03
OV	iP	13 55 13.5
	i	55 30.5
	i	56 10.5
	i	56 29.5
PF	iP	13 55 11
	i	55 29.5
	i	55 58
	i(S)	56 20
TUC	eP	13 55 14
	i	55 27

Date and Station		Phase (GCT)
		h m s
Nov. 11, cont.		
TUC, cont.	i	13 55 41
	i(S)	56 12
	i	56 26
	i	56 37
	iL	57 06
Nov. 11, H = 14 34 21 By Pasadena, 35°45'N, 118°06'W. North of Walker Pass, Calif. Mag. 3.2		
BC	e(P)	14 35 10
	e	35 48
OV	eP	14 35 16
	i	35 22
	i(S)	36 00
PF	eP	14 35 18
	i	35 37
	i	35 53
	i(S)	36 08
Nov. 11		
COL	e	14 39 05
Nov. 11, H = 15 44 18* 23°N, 121°E. Formosa.		
COL	eP	15 55(35)
HH	iP	15 57 37
	i	58 06
	i	58 30
PHIL	eL	16 44 33
Nov. 11		
PF	e	16 46 50
Nov. 11, H = 16 59 28* 15½°N, 93°W. Off coast of northern Guatemala.		
BC	iP	17 05 27
	i	05 35
	e	06 26
COL	iP	17 09(50)
	iPcP	10 29

Date and Station		Phase (GCT)
		h m s
Nov. 11, cont.		
COL, cont.		
	e(PP)	17 12 10
	e(S)	18 13
HH	iP	17 06 45
	i	06 50
OV	eP	17 05 28
	i	06 00
PHIL	eL	17 17 24
PF	iP	17 05 23
SJ	eL	17 11 40
TUC	iP	17 04 41
	e(PP)	05 28
	e(S)	09 04
	eL	11 52
Nov. 11, H = 17 57 28** Fiji Islands region. h = about 500 km.		
BC	e	18 08 55
COL	iP	18 09(23)
	e(PP)	11(37)
PF	iP	18 09 00
SH	iP	18 08 44
Nov. 12		
COL	eP	03 11(53)
	e	12(03)
OV	e	03 11 21
PF	e	03 11 14
Nov. 12		
PF	e	18 30 06
Nov. 12, H = 19 28 27 By Berkeley, 39.8°N, 119.0°W. Western Nevada. Mag. 3.2		
SH	eP	19 29 26
	e(S)	29 54

Date and Station		Phase (GCT)
		h m s
Nov. 12		
COL	eP	20 39(55)
Nov. 12, H = 20 42 34 By Berkeley, 39.8°N, 119.0°W. Western Nevada. Mag. 3.1		
SH	iP	20 43 21.5
	e(S)	43 51.5
Nov. 12		
BC	e	22 20 35
OV	e(P)	22 20 07
	e	20 36
PF	e(P)	22 20 15
Nov. 13		
HH	iP	00 59 42
Nov. 13, H = 04 42 40* 11°N, 85½°W. Southwestern Nicaragua. h = about 60 km.		
BH	eP	04 44 19
	eS	45 42
BER	eL	04 49 54
BC	eP	04 49 41
	ePP	51 22
	e	52 07
BOZ	eP	04 50 19
	eS	56 26
	eL	05 01 36
BUT	eP	04 50 27
	eL	05 01 33
CHI	eP	04 48 53
	ePP	49 45
	ePPP	50 06
	eS	53 51
	eL	55 42
COL	iP	04 53(37)
COLU	iP	04 47 48
	eS	52 05
	eL	54 03

Date and Station		Phase (GCT)
		h m s
Nov. 13, cont.		
HUAN	eP	04 48 07
	e	48 39
	eS	52 22
HH	iP	04 50 45
	i	51 06
	iPP	52 30
LIN	eP	04 50 00
	eS	56 11
	eL	05 01 46
LOG	iP	04 49 55
	ePP	51 21
	eL	59 55
OV	iP	04 49 44
	i	49 53
	i	50 41
	e(PPP)	51 34
	e(S)	55 58
PHIL	iP	04 48 52
	ePP	49 43
	eS	53 58
	eL	56 04
PF	eP	04 49 36
	iP	49 37.5
	i(PP)	51 34
	e	52 06
	i	53 07
SLC	eP	04 49 50
	e(S)	55 22
	eL	59 04
SJ	eP	04 47 20
	eS	51 17
	eL	53 10
SH	iP	04 50 40
	iPP	52 28
SIT	eL	05 13 28
TUC	iP	04 48 57
	iPP	50 10
	ePPP	50 27
	e(S)	54 22
	eL	55 49

Date and Station		Phase (GCT)
		h m s
Nov. 13, cont.		
UK	eL	05 04 42
Nov. 13		
COL	eP	10 20 40
	e(S)	21 16
Nov. 13		
COL	eP	11 13 40
	e(S)	15 06
	eL	15 28
Nov. 13		
COL	eP	12 52(41)
OV	e	12 57 49
Nov. 13, H = 16 58 05 By Pasadena, 34°06'N, 115°46'W. Pinto Mountains, Calif. Mag. 3.4		
BC	eP	16 58 47
	e(S)	59 12
	iL	59 19
OV	e(P)	16 59 00
	e(S)	59 49
PF	eP	16 58 53
	i	58 58
	iS	59 32
Nov. 13		
HH	iP	19 05 52
	e	09 22
	e(S)	09 36
	i	10 00
OV	e	19 07 37
Nov. 13		
HH	iP	19 48 44
Nov. 13		
COL	e(P)	20 42(21)
PF	e	20 42 57
SH	e	20 42 13

Date and Station		Phase (GCT)
		h m s
Nov. 13, H = 20 43 20* 15°S, 168½°E. New Hebrides Islands.		
BC	eP	20 56 29
	iP	56 34
COL	iP	20 56(02)
	e	56(27)
HH	eP	20 56 34
OV	iP	20 56 17
	i	56 32
	e	57 10
PF	iP	20 56 17
	e	57 47
SH	iP	20 55 56
	e	56 30
	e	21 00 25
TUC	iP	20 56 24
Nov. 13, H = 21 28 33** Kurile Islands region.		
BC	eP	21 39 42
	e	39 56
COL	iP	21 36 03
HH	iP	21 38 54
	e	39 05
PF	eP	21 39 45
SH	eP	21 38 53
Nov. 13		
COL	e	23 05(43)
HH	eP	23 08 12
PF	e	23 08 53
SH	e	23 08 06
Nov. 14, H = 00 21 26 By Pasadena, 34°55'N, 116°46'W. East of Yermo, Calif. Mag. 3.7		

Date and Station		Phase (GCT)
		h m s
Nov. 14, cont.		
BC	e(P)	00 21 59
	iP	22 02
	i	22 21
	iS	22 28
	iL	22 45
OV	eP	00 22 08
	iP	22 16
	i(S)	22 43
PF	iP	00 22 08
	i	22 14
	i(S)	22 37
	i	22 44
	iL	23 13
Nov. 14, H = 02 10 10* 2°S, 80°W. Near coast of Ecuador.		
BC	e	02 18 56
	e	19 24
HUAN	e	02 12 48
	eS	14 48
	iL	15 52
HH	iP	02 19 57
	i	20 09
	i	20 16
OV	e	02 19 26
PF	e	02 18 23
	e	18 49
	i	19 14
SJ	eL	02 15 24
SH	e	02 20 03
TUC	eP	02 18 26
Nov. 14, H = 02 48 18** Samoa Islands region.		
BC	e	03 00 06
COL	i(P)	03 00(42)
OV	iP	03 00 08

Date and Station		Phase (GCT)
		h m s
Nov. 14, cont.		
PF	iP	03 00 09
SH	iP	02 59 52
TUC	iP	03 00 12
Nov. 14		
COL	iP	03 59(29)
OV	eP	03 59 05
PF	iP	03 59 06
SH	iP	03 58 51
TUC	eP	03 59 08
Nov. 14		
HUAN	iP	05 49 09
	iS	49 36
	iL	50 28
Nov. 14		
COL	i	09 45(10)
OV	e	09 44 39
Nov. 14, H = 10 41 59 By Berkeley, 39°23'N, 119°43'W. Western Nevada. Mag. 3.5		
OV	eL	10 44 19.5
PF	eL	10 45 06
SH	iP	10 42 41
	iS	43 11
	eL	43 23
Nov. 14		
OV	iP	13 05 18.5
PF	eP	13 05 15
TUC	eP	13 04 50
	e	05 33
Nov. 14, H = 13 31 23* 39°N, 145°E. Near Honshu, Japan.		
Nov. 14, cont.		
BC	i	13 43 10
COL	iP	13 39(48)
	i	40(04)
PF	i	13 43 42.5
SH	iP	13 42 24
Nov. 14		
COL	e	15 15 11
Nov. 14, H = 17 12 43 By Pasadena, 37°29'N, 118°25'W. North of Bishop, Calif. Mag. 3.8		
BC	eP	17 13 44
	iP	13 45.5
	i	13 48
	i(S)	14 31
	i	14 45
OV	iP	17 13 48
	i	14 16
	i(S)	14 36
PF	eP	17 13 44
	i	13 56
	i	14 17
	iS	14 27.5
	i	14 47.5
	eL	15 01.5
Nov. 14		
BC	eP	20 45 12
HH	eP	20 44 38
	i	45 53
OV	eP	20 45 13.5
PF	eP	20 45 19.5
SH	eP	20 43 31
Nov. 15		
BC	e	03 20 11
OV	e	03 20 35
Nov. 15, cont.		
PF	eP	03 19 17.5
	e	20 36
SH	e(P)	03 16 50
	eL	17 45
Nov. 15		
COL	eP	11 48(47)
	e(S)	49(26)
	eL	49(33)
Nov. 15		
BC	eP	13 31 19
Nov. 15, H = 13 19 54* 17°S, 177½°E. Fiji Islands. h = about 400 km.		
COL	iP	13 31(46)
	epP	33(17)
	eS	42(34)
HH	iP	13 31 52
	i	32 10
OV	iP	13 31 23
	e	31 49
	epP	32 52
PF	iP	13 31 22.5
SH	iP	13 31 07
TUC	iP	13 31 25
Nov. 16		
BC	e	03 11 41
COL	e	03 07 38
HH	iP	03 10 45
OV	e	03 11 52
PF	e	03 11 45
SH	eP	03 10 43.5

Date and Station		Phase (GCT)
		h m s
Nov. 16		
BC	eP	05 27 20.5
	epP	27 34
HH	eP	05 27 01
OV	eP	05 27 19
	ipP	27 32
PF	eP	05 27 24
	ipP	27 37
SH	iP	05 26 28
TUC	eP	05 28 02
	ipP	28 15
Nov. 16, H = 08 04 20 By Berkeley, 40°32'N, 121°35'W. Near Mt. Lassen, Calif. Mag.3.2		
OV	e	08 06 35
SH	iP	08 04 33
	e(S)	04 41
Nov. 16		
OV	e	08 46 19
SH	e(P)	08 46 10
TUC	eP	08 46 16
Nov. 16		
COL	iP	10 25 00
	e(S)	26 16
	eL	26 40
HH	eP	10 28 52
	i	28 56
OV	e	10 30 11
PF	e	10 29 59
	i	30 26
SH	e	10 29 03
Nov. 16		
OV	e	10 55 57

Date and Station		Phase (GCT)
		h m s
Nov. 16		
COL	iP	14 51 25
Nov. 16		
PF	e	15 00 54
Nov. 16		
COL	e	19 11(24)
HH	e	19 12 22
	i	12 36
	i	12 40
PF	e	19 13 21
SH	e	19 13 16.5
	i	13 20.5
Nov. 16		
PF	e	23 48 47
SH	e	23 49 51
Nov. 17, H = 05 08 25** Eastern Turkistan.		
COL	iP	05 19 43
	e	20 02
HH	iP	05 21 31.5
Nov. 17		
COL	e	08 51 30
Nov. 17		
COL	e(P)	16 14 54
Nov. 17, H = 19 20 35** Burma-Assam border.		
COL	e(P)	19 32 25
HH	iP	19 34 47.5
OV	e	19 40 06
Nov. 17, H = 22 28 58** Near Shikoku, Japan. Felt. h = about 400 km.		
COL	i(P)	22 37 59

Date and Station		Phase (GCT)
		h m s
Nov. 17, cont.		
HH	iP	22 40 20.5
PF	e	22 40 59
SH	iP	22 40 17.5
	epP	41 54
Nov. 17		
COL	eP	23 02 38
	e(PP)	04 56
PF	e(P)	22 59 52
Nov. 18		
HH	eP	00 27 42
PF	eP	00 24 32
	e(S)	25 15
Nov. 18, H = 01 19 52 By Pasadena, 32°45'N, 118°15'W. Terminal Island, Calif. $9 million damage to oil wells on Terminal Island. Felt in Long Beach and San Pedro, Calif. Mag. 3.7		
BC	e(P)	01 20 46.5
	e	21 11.5
	i	22 02.5
OV	e	01 23 27
PHIL	eL	01 38 33
PF	e(P)	01 20 57
	iP	21 08
	i	21 15
	i	22 13
	i	24 04
SLC	eL	01 24 18
TUC	eL	01 23 19
Nov. 18		
BH	eP	01 44 31
	iS	45 13

Date and Station		Phase (GCT) h m s
Nov. 18		
COL	e(P)	05 33 26
	i(P)	33 28
Nov. 18		
SH	e	06 25 24
Nov. 18		
PF	e	07 37 21
SH	e	07 37 06
TUC	eP	07 37 23
Nov. 18, H = 07 58 09* 14°S, 167°E. New Hebrides Islands.		
BC	eP	08 11 06
	e	11 36.5
	e	12 10
	ePP	14 37.5
COL	e(P)	08 10 50
	e	11 26
HH	i(P)	08 11 23
	i	12 04
OV	eP	08 11 07
	iP	11 08
	iPP	14 42
PF	iP	08 11 09
	ePP	14 41
SH	iP	08 10 46
	e	11 24
	e	16 55
TUC	iP	08 11 16
Nov. 18		
COL	e	13 20 47
OV	i	13 20 28
PF	e	13 20 28
TUC	eP	13 20 32
Nov. 18		
HH	iP	15 27 48

Date and Station		Phase (GCT) h m s
Nov. 18, cont.		
SH	e	15 27 14
Nov. 18		
HH	iP	20 58 55
OV	eP	20 59 17
PF	eP	20 59 19
SH	eP	20 58 39
Nov. 19		
COL	e(P)	00 38 58
	e	39 15
	e(S)	40 07
	iS	40 15
	eL	41 00
Nov. 19		
OV	e	05 25 59
PF	e	05 26 51
Nov. 19		
BC	eP	06 08 08
	e	09 29
OV	iP	06 08 06
	i	09 11
	eS	09 36
	i	10 01
PF	eP	06 07 59
TUC	eP	06 08 44
	i	08 59
	i	09 33
	i	09 45
	eL	10 29
Nov. 19, H = 07 25 34** Tonga Islands region. h = about 60 km.		
BC	eP	07 37 43
COL	iP	07 38 19
HH	eP	07 38 19
	i	38 40

Date and Station		Phase (GCT) h m s
Nov. 19, cont.		
OV	iP	07 37 46
	i	38 06
PF	iP	07 37 46
SH	iP	07 37 31
TUC	iP	07 37 47
	e	38 07
Nov. 19		
COL	e(P)	09 28 52
	e(L)	30 23
HH	eP	09 31 30
Nov. 19		
SH	e(P)	13 25 08
TUC	eP	13 25 26
Nov. 19		
HH	e(P)	17 05(52)
PF	e	17 05 43
Nov. 19		
HUAN	iP	17 05 46
	iS	06 13
	iL	06 52
HH	iP	17 16 17
PF	e	17 15 29
TUC	eP	17 14 47
Nov. 19		
BC	eP	17 55 46
COL	eP	17 52 10
HH	iP	17 54 58
PF	eP	17 55 50
SH	eP	17 55 02
TUC	eP	17 56 13

Date and Station		Phase (GCT)
		h m s
Nov. 19		
COL	iP	22 59 19
	eS	23 00 01
	eL	00 15
Nov. 20, H = 00 53 50** Samoa Islands region.		
BC	eP	01 05 28
COL	iP	01 06 04
HH	eP	01 06 03
OV	eP	01 05 32
	i	05 50
PF	iP	01 05 33
SH	iP	01 05 15
TUC	eP	01 05 34
Nov. 20, H = 04 43 56* 11°S, 75°W. Central Peru.		
BC	e(P)	04 54 07
COL	iP	04 57 11
HUAN	iP	04 44 19
	i	45 31
	iL	47 11
HH	iP	04 55 03
OV	iP	04 54 09
	i	54 53
PF	eP	04 54 06
SH	iP	04 54 55
TUC	e	04 53 32
	e	55 44
Nov. 20		
HH	iP	05 15 41
Nov. 20		
COL	e(P)	06 36 43
	e	37 08

Date and Station		Phase (GCT)
		h m s
Nov. 20, cont.		
OV	i	06 36 02
Nov. 20, H = 07 09 47* 28°N, 112°W. Gulf of California. Felt in Sonora, Mexico. Mag. 6-3/4 to 7.		
BER	iP	07 20 24
	eS	27 21
	i	28 15
	eSS	31 40
	iL	35 05
T_P = 4 sec. A = 2.4 mm. T_S = 12 sec. A = 2.5 mm. T_L = 20 sec. A = 6 mm. $T_{L\ max.}$=12 sec. $A_{max.}$= 10 mm.		
BC	eP	07 11 42
	i	11 55
	i	12 35.5
	iL	13 57.5
BOZ	iP	07 13 58
	iS	17 26
	eL	18 22
BUT	iP	07 13 59
	eS	17 25
	eL	19 05
CHI	iP	07 15 08
	ePP	15 43
	eS	19 17
	e	20 18
	eL	21 23
COL	eP	07 17 45.5
	i	17 49.5
	e(S)	24 38
	eL	32 30
COLU	e(P)	07 15 37
	ePP	16 20
	eS	20 18
	eL	23 44
HONO	iP	07 17 42
	ePP	19 23

Date and Station		Phase (GCT)
		h m s
Nov. 20, cont.		
HONO, cont.		
	eS	07 24 10
	eL	27 12
HUAN	eP	07 19 16
	e(S)	26 43
	i	26 57
	e(SS)	30 40
	iL	33 35
HH	iP	07 14 20
	e	14 31
	e(S)	18 11
	eL	21 06
LIN	iP	07 14 01
	i	14 37
	iS	17 25
	eL	18 08
LOG	eP	07 12 57
	iP	13 02
	i	13 28
	i	14 05
	iS	15 00
	i	15 21
	iL	16 05
OV	iP	07 11 48.5
PHIL	iP	07 16 19
	ePP	17 31
	iS	21 36
	eL	24 17
PF	iP	07 11 42.5
	i	12 08.5
	i	12 28.5
	iS	14 02.5
RC	eP	07 12 55
	eS	16 10
SLC	eP	07 12 47
	eS	15 09
	eL	15 46
SH	iP	07 13 19
	e	15 03
	eS	16 15
	eL	17 08

Date and Station		Phase (GCT) h m s
Nov. 20, cont.		
SIT	eP	07 16 22
	iP	16 26
	ePP	17 38
	iS	21 44
	eL	24 30
TUC	iP	07 10 47
	i	10 52
	iS	11 15
	e(S)	11 21
	eL	11 50
WASH	eP	07 16 07
	iL	24 08
Nov. 20		
PF	e(P)	07 19 34
TUC	eP	07 19 53
Nov. 20		
COL	e	11 33 12
PF	e	11 32 55
TUC	eP	11 32 57
Nov. 20		
TUC	eP	11 33 37.5
	i	33 42.5
	i	33 55
	i(S)	34 22
	i	34 48
	i	34 55
	iL	35 09
Nov. 20		
PF	e	16 25 25
Nov. 20		
BC	e	19 52 47
PF	eP	19 50 27
	e	52 19.5
SH	iP	19 50 14
TUC	eP	19 49 40.5
	i	49 56
	i	50 00

Date and Station		Phase (GCT) h m s
Nov. 20, cont.		
TUC, cont.		
	i(S)	19 50 24
	iL	50 50
Nov. 20		
BH	eP	19 52 24
	iS	52 46
Nov. 21		
PF	e	00 04 11
Nov. 21		
HH	e(P)	07 32 25
Nov. 21		
HH	eP	09 17 21
Nov. 21		
COL	e(P)	09 50 34
HH	iP	09 49 46
SH	e	09 49 43
Nov. 21		
HH	e(P)	10 20 14
Nov. 21		
COL	e(P)	10 59 05
HH	iP	11 01 59
OV	e	11 02 59
PF	e	11 02 49
Nov. 21		
BC	e	18 38 00
COL	eP	18 41 31
	i	41 48
	i	42 46
HH	e(P)	18 36 14
	iP	36 25
PF	eP	18 37 58
TUC	e	18 38 18
Nov. 21		
COL	eP	19 48 00
	eL	51 00

Date and Station		Phase (GCT) h m s
Nov. 21		
COL	e(P)	21 20 35
HH	e(P)	21 21 55
Nov. 21		
COL	eP	22 10 53
	e(S)	12 02
	e	12 30
	eL	12 40
Nov. 21		
PF	e	23 00 23
Nov. 22, H = 00 51 48* 28½°S, 178½°W. Kermadec Islands. h = about 150 km. Mag. 7 4		
BER	e	01 14 19
	e(SKKS)	19 55
	e	24 18
	eSS	29 58
	eL	42 34
BC	iP	01 04 24.5
	i	05 27
	iPP	07 57
	iS	14 38
	e	16 06
	ePKKP	22 08
BOZ	eP	01 05 05
	ePP	08 40
	eSKS	15 21
	e(S)	16 04
	eSS	22 21
	eSSS	26 43
	eL	32 34
BUT	eP	01 05 02
	e(PP)	08 50
	iSKS	15 17
	e(S)	16 08
	e(SS)	22 20
	eL	30 32
CHI	ePP	01 10 32
	eSKS	17 16
	ePS	20 02
	eSS	26 37
	eSSS	29 32
	eL	36 20

Date and Station		Phase (GCT)
		h m s
Nov. 22, cont.		
COL	iP	01 04 59
	ePP	08 55
	ePPP	11 00
	iS	15 14
	eL	30 20
COLU	e(SKS)	01 16 29
	ePS	20 13
	eSS	26 07
	eL	37 27
HONO	eP	01 00 54
	ePP	02 55
	eS	08 10
	eSS	12 26
	eL	17 24
HUAN	eP	01 05 06
	e(PP)	08 48
	iSKS	15 24
	i	16 08
	i	16 56
	iSS	22 43
	eL	32 21
HH	iP	01 04 59
	ePP	08 44
	iPP	08 51
	iSKS	15 14
	eS	15 56
	ePKKP	21 44
	e(P'P')	32 29
LIN	ePP	01 09 29
	e(S)	16 25
	ePS	17 13
	e(SS)	23 43
	eL	35 03
LOG	eP	01 04 46
	iPP	08 31
	i	09 47
	iSKS	15 02
	iS	15 44
	iPS	16 36
	eSS	21 49
	eL	29 11
OV	iP	01 04 27
	i	07 38.5
	iPP	08 03.5

Date and Station		Phase (GCT)
		h m s
Nov. 22, cont.		
OV, cont.		
	i(PKKP)	01 22 13.5
PHIL	e	01 07 01
	eP'	10 45
	ePP	11 34
	e	16 48
	e	17 48
	eSKS	18 07
	e	19 43
	ePS	21 24
	eSS	27 27
	eL	38 35
PF	iP	01 04 26.5
	i	05 46.5
	iPP	08 04.5
	eS	15 38.5
	ePKKP	22 10
	eP'P'	30 13.5
RC	eP	01 05 17
	ePP	08 26
	iSKS	15 37
	i(PS)	17 15
	eL	34 18
SLC	eP	01 04 37
	ePP	08 33
	i(SKS)	15 05
	iS	15 43
	eSS	21 05
	eL	30 15
SJ	eP'	01 10 31
	e(PP)	11 43
	e	17 05
	e	20 49
	e(SS)	27 17
	eL	40 04
SH	iP	01 04 16
	i	05 25
	ePP	07 46
	iS	14 22
	i	14 43
	e(PKKP)	21 28.5
	e(P'P')	30 19.5
SIT	ePP	01 08 16
	eSKS	15 12

Date and Station		Phase (GCT)
		h m s
Nov. 22, cont.		
SIT, cont.	i	01 15 40
	eSS	21 38
	eL	29 26
TUC	iP	01 04 26
	i	04 32
	i	05 18
	i	08 01
	epPP	10 11
	iS	15 05
	iPS	16 06
	eSS	20 55
	ePKKP	22 07
	eL	27 54
	eP'P'	30 08
UK	eP	01 04 10
	ePP	07 30
	eS	14 09
	e	15 42
	eSS	19 26
	eL	27 00
WASH	e(P')	01 11 11
	ePP	12 07
	ePS	20 53
	eSS	27 04
	eL	49 12
Nov. 22		
BC	e	01 30 12
	e	31 42
Nov. 22, H = 03 33 44** Central Peru-Brazil border. h = about 200 km.		
BC	e	03 43 22
COL	e	03 46 28
HUAN	iP	03 34 58
	iS	35 28
	iL	36 36
OV	eP	03 43 23
PF	eP	03 43 19
SH	e	03 41 18

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
TUC	eP	03 42 45
Nov. 22		
HH	iP	04 36 58
PF	eP	04 37 06
TUC	eP	04 37 15
Nov. 22		
COL	eP	06 38 41
HH	eP	06 40 46
SH	eP	06 40 33
Nov. 22		
BC	eP	06 42 37
OV	e(P)	06 42 45
PF	eP	06 42 38
	i	43 24
TUC	eP	06 42 07
	i	42 16
	i	42 19.5
	iS	42 42
	i	42 56
	iL	43 05
Nov. 22		
COL	eP	07 17 01
	i	17 27
	e(S)	17 47
	eL	18 00
HH	e(P)	07 20 30
Nov. 22		
COL	e(P)	09 01 11
Nov. 22		
BC	e	09 33 28
OV	eP	09 31 13
	eL	33 51
PF	e(P)	09 31 06
	e	33 39
	eL	33 56

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
TUC	iP	09 30 13
	i	30 26
	i	30 29
	i(S)	30 55
	iL	31 23
Nov. 22		
COL	iP	10 03 52.5
	eL	05(30)
HH	iP	10 07 53
Nov. 22		
HH	iP	10 09 24
Nov. 22		
HH	e(P)	12 03 33
Nov. 22		
BH	iP	13 11 54
	eS	12 45
Nov. 22, H = 15 21 12* 28°N, 56°E. Near south coast of Iran.		
COL	eP	15 33 54
HH	eP	15 35 14
TUC	e	15 40 08
Nov. 22		
COL	eP	23 24 57
	e(S)	25 43
Nov. 23		
COL	e	01 31 58
Nov. 23		
HUAN	iP	02 41 14
	e(S)	42 52
	eL	43 09
TUC	e	02 47 49
Nov. 23, H = 06 14 40* 19½°N, 78½°W. Near south coast of Cuba.		
BER	eL	06 23 51

$T_{Lmax.}$=15sec. $A_{Lmax.}$=3mm.

Date and Station		Phase (GCT) h m s
Nov. 23, cont.		
BC	eP	06 21 44
BOZ	eL	06 35 13
BUT	eL	06 36 18
CHI	eL	06 25 14
COL	e(P)	06 25 21
COLU	e	06 19 05
	eS	22 13
	eL	22 40
HUAN	eL	06 26 53
HH	eP	06 22 19
	i	22 27
	e	24 01
LIN	eL	06 28 55
LOG	eP	06 21 40
	e	22 14
	eL	36 31
OV	iP	06 21 42
	i	21 50
	i	22 12
PHIL	iP	06 19 23
	e(S)	23 22
	eL	25 32
PF	eP	06 21 49
	i	24 49
RC	eL	06 30 52
SLC	eL	06 34 55
SJ	eP	06 17 30
	eS	19 30
	eL	20 10
SH	eP	06 22 35
	i	22 42
	e	24 31
TUC	eP	06 21 06

Date and Station		Phase (GCT) h m s
Nov. 23, cont.		
WASH	eP	06 19 10
	eS	22 50
	eL	25 20
Nov. 23		
PF	eP	06 37 19
	i	37 48.5
	i	39 07
Nov. 23		
BC	e	06 53 07
PF	eP	06 51 37
	i	52 06
Nov. 23		
BC	e	07 07 17
	e	09 01
OV	eP	07 07 23
	e(S)	09 29
PF	e	07 06 07
Nov. 23		
TUC	eP	10 17 53
Nov. 23		
COL	iP	10 30 12
	eL	32(30)
HH	e(P)	10 35 25
Nov. 23		
COL	iP	11 03 47.5
	eS	04 56
	eL	05 14
Nov. 23, H = 16 51 00* 39°N, 26°E. Aegean Sea.		
COL	iP	17 02 49
HH	iP	17 03 41
PF	iP	17 04 30.5
SH	iP	17 04 25
TUC	iP	17 04 39

Date and Station		Phase (GCT) h m s
Nov. 23		
PF	iP	22 20 10
SH	eP	22 19 58
TUC	iP	22 20 11
Nov. 24		
COL	e	08 19 57
Nov. 24		
BC	e	21 32 56
HH	iP	21 32 49
OV	i	21 32 57
PF	e	21 32 52
TUC	e	21 33 03
Nov. 25		
BC	e	02 25 21
TUC	eP	02 24 36
	e	25 05
Nov. 25		
COL	e(P)	03 28 03
HH	iP	03 29 02
PF	eP	03 29 57
Nov. 25		
COL	e	05 02 30
Nov. 25, H = 05 44 22* 19°S, 178°W. Fiji Islands. h = about 400 km.		
BC	eP	05 55 57
COL	iP	05 56 25
	e	56 43
	e(pP)	58 04
HH	eP	05 56 30
OV	eP	05 56 01
	ipP	57 38

Date and Station		Phase (GCT) h m s
Nov. 25, cont.		
PF	iP	05 56 01
	ipP	57 15
SH	eP	05 55 45
	epP	57 21
TUC	iP	05 56 03
	e	56 10
	epP	57 42
Nov. 25		
HH	iP	06 14 14
TUC	eP	06 14 29
Nov. 25		
BC	e(P)	09 12 34
	e	12 37.5
OV	iP	09 12 39
	e	13 44
PF	eP	09 12 27
TUC	iP	09 11 36
	i	11 46
	i	12 17
Nov. 25		
OV	iP	09 25 45
PF	eP	09 25 44
Nov. 25		
OV	i	09 58 17
TUC	eP	09 57 13
Nov. 25		
COL	eP	14 06 22
	e(S)	07 26
	eS	07 36
	eL	08 06
Nov. 25		
HH	iP	14 19 05
Nov. 25		
COL	e(P)	14 53 19

Date and Station		Phase (GCT)
		h m s
Nov. 25		
COL	e	14 59 36
HH	e(P)	15 00(10)
Nov. 25, H = 17 35 17** Off east coast of Honshu, Japan.		
BC	eP	17 47 09
COL	e(P)	17 43 56
HH	iP	17 46 26
PF	eP	17 47 09
SH	eP	17 46 23
	i	46 29
TUC	e	17 47 43
Nov. 25		
COL	eP	21 55 06
	e(S)	56 19
	eL	56 51
Nov. 26, H = 01 10 25** Fiji Islands. h = about 550 km.		
BC	iP	01 22 04.5
COL	iP	01 22 31.5
	epP	24 44
	iS	32 18
HH	iP	01 22 37
OV	iP	01 22 08
	i	22 34
	epP	24 14
PF	iP	01 22 08
SH	iP	01 21 52
	epP	23 56
TUC	iP	01 22 11
	epP	24 14

Date and Station		Phase (GCT)
		h m s
Nov. 26		
OV	e	01 31 09
PF	e	01 31 12
SH	e	01 30 07
TUC	iP	01 31 47
Nov. 26, H = 04 24 30* 15°N, 94½°W. Off south coast of Mexico.		
BC	e	04 30 21
	e	30 45
	e	30 59
COL	e	04 34 47
HH	i(P)	04 31 40
OV	e	04 30 10
	e	31 12.5
PF	e	04 30 17
SH	e	04 34 04.5
TUC	eP	04 29 32
	iP	29 35
	e	31 13
	eL	36 39
Nov. 26		
BC	e	04 49 13
	eL	52 07
OV	e	04 49 21
	iL	51 38
PF	eP	04 49 13
	iL	51 29.5
TUC	iP	04 48 19
	i	48 33
	i	48 38
	i(S)	48 45.5
	i	49 13
	iL	49 25.5
Nov. 26		
BC	e(P)	05 14 51.5

Date and Station		Phase (GCT)
		h m s
Nov. 26		
OV	e(P)	05 14 25
PF	e(P)	05 14 49
TUC	e	05 14 10
Nov. 26		
BC	eP	05 44 28
HUAN	eL	05 52 00
HH	iP	05 46 01
PF	eP	05 44 28
TUC	eP	05 43 48
Nov. 26, H = 06 24 09* 7°N, 83°W. Off south coast of Panama.		
BH	eP	06 25 13
	eS	25 55
BC	eP	06 31 53
COL	e(P)	06 35 39
HH	eP	06 32 52
	e	32 57
	i	33 25
	iPcP	34 20
PF	iP	06 31 49
SH	eP	06 32 51
TUC	eP	06 31 11
	e	31 44
	ePcP	32 47
Nov. 26		
BC	e	06 49 51
HUAN	eL	06 57 25
HH	e(P)	06 51 23
OV	e	06 50 05
PF	e	06 49 50

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
TUC	e	06 49 12
Nov. 26		
PF	eP	07 31 49
Nov. 26, H = 07 43 35** Pacific Ocean, 400 miles off coast of Colombia.		
BH	eP	07 45 03
	eS	45 45
BC	eP	07 51 44
OV	eP	07 51 44
PF	eP	07 51 41
Nov. 26		
OV	eP	15 25 36
PF	eP	15 25 36
SH	eP	15 25 26
TUC	eP	15 25 36
Nov. 26		
BC	e	18 41 31
PF	e	18 41 30
TUC	eP	18 40 42
	e	41 48
	eL	47 36
Nov. 26, H = 21 52 46* 48°N, 133°E. Kurile Islands. h = about 150 km.		
COL	iP	21 59 31
	epP	59 58
HH	iP	22 02 28
	i(pP)	02 43
OV	iP	22 03 14
PF	iP	22 03 21
	ipP	03 54.5
Nov. 26, cont.		
SH	iP	22 02 28
TUC	iP	22 03 49
	epP	04 23
	e	04 34
Nov. 27		
BC	e	00 04 09
Nov. 27, H = 08 42 20* 18½°S, 173°W. Tonga Islands region. h = about 60 km. Felt in Nukualofa and Apia. Mag. 7.2		
BER	e(SKS)	09 08 50
	e	12 36
	eSS	18 10
	eL	29 40
BC	iP	08 54 10.5
	ePP	57 02.5
	e	58 53.5
	eS	09 04 02
BOZ	eP	08 54 50
	iS	09 05 13
	i	06 13
	eL	20 47
BUT	iP	08 54 48
	iS	09 05 08
	eL	20 29
CHI	e	08 56 13
	eSKS	09 06 30
	ePS	08 29
	eSS	13 20
	eL	27 48
COL	iP	08 54 50
	i	56 02
	iS	09 05 10
	e(ScS)	05 34
	e(PPS)	06 35
	eSS	10 44
	eP'P'	21 06
COLU	i(SKS)	09 06 48
	eL	28 57
Nov. 27, cont.		
HONO	iP	08 50 03
	e(PP)	51 18
	ePPP	52 27
	i	55 15
	eS	56 11
	e(L)	58 56
HUAN	eP	08 55 38
	i	56 58
	ePPP	59 36
	iSKS	09 06 13
	i	08 14
	eSS	13 18
	eL	22 02
HH	iP	08 54 48.5
	iPP	58 03
	ePPP	09 00 01
	eS	05 11
LIN	e	08 58 22
	iS	09 05 55
	eL	24 30
OV	eP	08 54 15
	e	54 38
	ePP	56 58
	e(PPP)	58 53
	eS	09 04 09
	e	14 29
	eP'P'	21 12
PHIL	e	08 58 23
	iSKS	09 07 14
	e	07 44
	eS	08 39
	iPS	10 17
	e	11 14
	eSS	16 17
	eSSS	20 29
	eL	25 27
PF	iP	08 54 14
	i	54 33.5
	ePP	56 58
	eS	09 04 11
RC	eP	08 55 11
	ePP	58 36
	iS	09 05 41
	eL	22 44

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
SLC	eP	08 54 33
	iP	54 34
	ePP	57 37
	iS	09 04 45
	eL	16 30
SJ	e	09 01 33
	eS	10 36
	eL	32 26
SH	iP	08 53 59
	e	56 28.5
	e	58 19.5
	eL	09 16 01
SIT	eL	09 28 46
TUC	iP	08 54 15
	i	55 21
	ePP	57 04
	eS	09 03 56
	iScS	04 35
	eSS	09 04
	e(SSS)	12 00
	e	13 21
	eL	16 53
	eP'P'	21 23
	e(SKPP)	24 58
UK	eP	08 53 44
	eS	09 03 16
	eL	13 00
Nov. 27		
COL	iP	08 58 02
Nov. 27		
COL	iP	09 12 30
	e(S)	13 01.5
	eL	13 28
Nov. 27		
BC	e	09 13 02
HH	e(P)	09 13 01
Nov. 27		
BC	e	09 21 08
PF	e	09 21 29

Date and Station		Phase (GCT)
		h m s
Nov. 27		
HH	iP	12 35 34
Nov. 27		
HH	eP	16 29 14
OV	iP	16 24 13
Nov. 27		
HH	iP	17 19 38
Nov. 28		
COL	e(P)	00 27 14
HH	eP	00 29 36
PF	e	00 30 04
Nov. 28		
COL	e(P)	01 49 15
Nov. 28, H = 16 27 49** Kurile Islands.		
COL	eP	16 34 37
HH	eP	16 37 36
OV	e	16 38 19
PF	e	16 38 33
TUC	e	16 39 03
Nov. 28, H = 16 53 21* 8°N, 83°W. Off south coast of Panama.		
BH	eP	16 54 22
	eS	54 56
BC	eP	17 01 03
COL	e(P)	17 04 49
HUAN	e	16 58 20
	eL	17 02 00
HH	iP	17 02 03
	i	03 29

Date and Station		Phase (GCT)
		h m s
Nov. 28, cont.		
OV	iP	17 01 05
PF	iP	17 01 59
	e	02 10
TUC	eP	17 00 21
Nov. 28, H = 18 47 10** Near north coast of Turkey.		
COL	eP	18 59 03
HH	iP	18 59 51
Nov. 28		
BC	eP	20 02 55
COL	eP	20 07 15
HH	iP	20 04 09
PF	iP	20 02 53
TUC	eP	20 02 11
	iP	02 13
	e	02 37
Nov. 29		
BC	e	01 58 30.5
HH	iP	01 59 35
PF	e	01 58 28
TUC	e	01 57 50
Nov. 29		
TUC	iP	14 22 37
Nov. 29		
COL	e	03 25 09
Nov. 29		
COL	e	06 02 45
Nov. 29, H = 09 18 57** Tonga Islands region.		
COL	iP	09 31 38
	e	31 57

Date and Station		Phase (GCT)
		h m s
Nov. 29, cont.		
OV	e	09 31 04
PF	e	09 31 05
TUC	e	09 31 07
Nov. 29		
BC	e	10 09 19
COL	eP	10 09 59
HH	e(P)	10 09 52
	i	09 58
	e	10 15
OV	iP	10 09 22
PF	eP	10 09 23
SH	eP	10 09 11
TUC	eP	10 09 25
	e	10 43
Nov. 29		
HH	iP	13 04 23
	e	04 53
	e	04 58
	e	05 32
	e(L)	05 58
Nov. 29		
COL	eP	17 27 14
	eS	29 22
	eL	29 31
Nov. 29		
BC	e	20 12 46
	i	15 32
OV	e	20 15 25
	i	15 38
PF	e	20 12 57
	i	15 18
TUC	iP	20 12 02
	i	12 13
	i	12 17
	i	12 28
	i(S)	12 41

Date and Station		Phase (GCT)
		h m s
Nov. 29, cont.		
TUC, cont.	i	20 13 02
	iL	13 09
Nov. 30		
OV	e	00 58 16
PF	e	00 55 21
	e	57 37
TUC	eP	00 54 32
	e	54 43
	e	54 48
	i	55 05
	e	55 12
	i	55 34
	iL	55 59
Nov. 30, H = 08 31 45* 38°N, 124°W. Off coast of northern California. Mag. 4.4		
BC	e(P)	08 33 47
	e	33 59
OV	eP	08 33 43
	i	34 03
	e(S)	35 18
PF	e(P)	08 33 47
	e(S)	35 44
SH	eP	08 32 28
	e(S)	33 13
TUC	eL	08 37 25
Nov. 30		
COL	e	13 02 51
Nov. 30		
HH	eP	15 22 10
Dec. 1		
COL	iP	10 03 52
Dec. 1		
PF	i	11 28 43
Dec. 1		
COL	e	14 50 46

Date and Station		Phase (GCT)
		h m s
Dec. 1		
BC	eP	23 19 57
COL	eP	23 16 52
HH	iP	23 19 20
	i	19 50
	i	20 00
OV	eP	23 19 56
PF	eP	23 19 58
SH	eP	23 19 13
TUC	e	23 20 37
Dec. 2		
BC	eP	01 59 23
HH	iP	02 01 59
OV	eP	01 59 26
	iP	59 30
	e	02 01 56
PF	eP	01 59 23
	iP	59 23.5
	i	02 00 18
SH	e	02 00 50
TUC	iP	01 58 46
	i	58 52
	i	59 14
	e	59 28
	i	59 32
	e	59 47.5
	iS	02 00 16.5
	i	00 31.5
	iL	00 53
Dec. 2, H = 02 43 45* 22½°S, 172°E. Loyalty Islands region.		
BC	iP	02 56 35.5
	e	57 07
COL	iP	02 56 41
	e	57 11
OV	iP	02 56 37

Date and Station		Phase (GCT)
		h m s
Dec. 2, cont.		
PF	iP	02 56 37.5
SH	eP	02 56 21
TUC	iP	02 56 41
Dec. 2		
BC	e	07 23 02
OV	e	07 23 12
PF	e	07 23 11
TUC	e	07 22 28
Dec. 2		
OV	e	10 00 57
PF	e	10 00 52
Dec. 2		
OV	i(P)	13 39 34
PF	e(P)	13 39 33
Dec. 2		
BC	e	14 45 55
OV	iP	14 45 55
PF	iP	14 45 50
TUC	eP	14 44 57
	e	45 11
	eL	49 36
Dec. 2		
COL	iP	19 49 06
Dec. 2, H = 19 42 30** Samoa Islands region.		
BC	eP	19 54 17
	i	54 24
COL	eP	19 54 48
OV	eP	19 54 21
PF	eP	19 54 20
	i	54 30

Date and Station		Phase (GCT)
		h m s
Dec. 2, cont.		
SH	eP	19 54 05
TUC	eP	19 54 23
	i	54 32
	eL	20 18 10
Dec. 2, H = 22 30 34* $50\frac{1}{2}$°N, $129\frac{1}{2}$°W. Off northeast coast of Vancouver Island, British Columbia.		
COL	eP	22 34 36
HH	iP	22 33 05
	eL	36 07
LOG	eP	22 34 09
OV	iP	22 34 43
PF	iP	22 34 49
SLC	eL	22 37 27
SH	eP	22 33 15
TUC	eP	22 35 40
Dec. 3		
BC	eP	02 59 40.5
COL	iP	03 00 45.5
HH	iP	02 59 56
	i	03 00 02
OV	i(P)	02 59 40.5
PF	eP	02 59 38
SH	iP	02 59 54
TUC	eP	02 59 30
Dec. 3, H = 12 01 54* 18°S, 70°W. Chile-Peru border. Felt in Chile.		
BC	iP	12 12 43

Date and Station		Phase (GCT)
		h m s
Dec. 3, cont.		
COL	e	12 15 28
HUAN	e	12 04 00
	eL	05 47
HH	iP	12 13 31
	i	14 20
OV	iP	12 12 45
	i	13 23
PF	iP	12 12 41
	i	12 55
	i	13 05
SH	iP	12 13 26
TUC	eP	12 12 11
	e	12 46
	e	13 06
Dec. 3		
COL	e	20 26 48
PF	e	20 30 45
SH	e	20 29 41
Dec. 4		
COL	iP	00 20 45
	eL	22 00
HH	eP	00 25 39
Dec. 4		
BC	eP	00 54 12
HH	e(P)	00 55 32
OV	eP	00 54 18
PF	eP	00 54 15
SH	e(P)	00 54 49
TUC	eP	00 53 48
Dec. 4		
COL	e	01 07 36

Date and Station		Phase (GCT)
		h m s
Dec. 4		
HUAN	eL	12 36 00
Dec. 4		
COL	e	18 54 56
OV	i	18 58 50
PF	i	18 58 55
Dec. 4		
COL	eP	20 58 02
	eS	59(00)
Dec. 4, H = 22 38 54 By Berkeley, 40.3°N, 124.3°W. Near Cape Mendocino, Calif. Felt in Ferndale and Petrolia. Mag. 3.8		
SH	iP	22 39 20.5
	eS	39 41
Dec. 5, H = 11 21 34** Pacific Ocean fore-shock.		
BER	eL	12 57 08
BC	e	11 29 20
CHI	eL	12 56 04
COL	eP	11 33 16
HUAN	e	11 28 39
	eL	32 00
HH	eP	11 30 23
	i	30 40
	ePP	32 05
LOG	e	11 29 32
OV	iP	11 29 21
PF	iP	11 29 17
SJ	e(S)	11 31 41
	eL	34 14

Date and Station		Phase (GCT)
		h m s
Dec. 5, cont.		
TUC	eP	11 28 36
	e	28 43
Dec. 5, H = 12 42 13* 6°N, 84½°W. Pacific Ocean, south of Panama.		
BH	eP	12 44 44
	e	46 33
BC	eP	12 49 59.5
COL	eP	12 53 56
COLU	eP	12 48 07
	e(S)	52 40
	eL	55 28
HUAN	eL	12 37 05
HH	iP	12 51 04
	iPP	52 49
LOG	eP	12 50 13
OV	iP	12 50 00
	i	51 01
	iPP	51 12
	eS	55 59
PHIL	e	12 49 18
	e(S)	54 15
	eL	56 00
PF	iP	12 49 57
	i	50 21
	i	51 08
SJ	eP	12 47 28
	e(PP)	47 53
	e(S)	50 42
	eL	51 30
SH	iP	12 50 59.5
	e	52 47.5
TUC	iP	12 49 16
	ePP	50 22
	e	52 12
	e(S)	54 44
	eL	13 00 12

Date and Station		Phase (GCT)
		h m s
Dec. 5, H = 14 51 50** Off northeast coast of Honshu, Japan. Felt.		
COL	eP	15 00 08
	e	00 35
HH	iP	15 02 49
OV	eP	15 03 32
	iP	03 34
	i	04 02
	e	05 20
PF	iP	15 03 36
SH	eP	15 02 49
Dec. 5, H = 17 36 47** Kurile Islands region.		
BC	eP	17 47 46
COL	iP	17 44 08
HH	iP	17 46 53
OV	iP	17 47 46
PF	iP	17 47 49
TUC	iP	17 48 16
Dec. 5		
HH	i(P)	22 08 51
Dec. 5, H = 23 48 40** Northern Chile. Felt.		
HH	iP	00 00 55
OV	iP	00 00 08
PF	iP	00 00 05
SH	i(P)	00 00 47
TUC	iP	23 59 36
	e	59 42
Dec. 6		
COL	iP	07 58 45

Date and Station		Phase (GCT)
		h m s
Dec. 6, cont.		
HH	iP	08 03 04.5
OV	e	08 04 32
PF	e	08 04 40
Dec. 6		
COL	e	12 02 07
PF	e	12 05 27
TUC	eP	12 04 29
Dec. 6, H = 13 32 58** New Hebrides Islands.		
BC	iP	13 46 02
COL	iP	13 45 53
OV	iP	13 46 05.5
PF	iP	13 46 05
SH	eP	13 45 45
TUC	eP	13 46 11
	e	46 25
Dec. 6, H = 14 27 40** Tonga Islands region.		
BC	eP	14 39 33
COL	iP	14 40 11.5
HH	iP	14 40 10
	e	40 22
LOG	eP	14 40 00
OV	iP	14 39 36
	i	39 40
	i	40 10
PF	iP	14 39 34
	i	39 39
SH	e(P)	14 39 20
TUC	iP	14 39 37

Date and Station		Phase (GCT)
		h m s
Dec. 6, cont.		
TUC, cont.	i	14 39 41
	e	41 42
Dec. 6, H = 16 13 20** Northern Chile. Felt.		
BC	iP	16 24 40
HH	eP	16 25 27
OV	iP	16 24 48
PF	iP	16 24 38
Dec. 6		
PF	e(P)	16 31 12
TUC	eP	16 31 11
	e	31 27
Dec. 6		
PF	eP	19 51 48
TUC	eP	19 51 04
Dec. 6		
BC	e	20 25 30
HH	eP	20 24 58
	i(pP)	25 01
PF	e	20 24 24
	i	25 34
SH	e	20 25 00
TUC	e	20 24 25
Dec. 6, H = 22 07 04* 39°N, 118½°W. Western Nevada.		
BC	eP	22 08 16.5
	eS	09 12.5
OV	iP	22 08 19
	iS	09 11
PF	eP	22 08 14
	i	08 31
	i	08 45
	iS	19 09

Date and Station		Phase (GCT)
		h m s
Dec. 6, cont.		
SH	eP	22 08 01
	i	08 10
	e(S)	09 17
Dec. 6, H = 22 24 42* About 150 miles south of Bonin Islands. h = about 300 km.		
BC	eP	22 36 47
	epP	37 58.5
COL	eP	22 34 22
HH	eP	22 36 19
	epP	37 29
OV	iP	22 36 47
	epP	38 07
PF	iP	22 36 50
	ipP	38 02
SH	iP	22 36 09
	epP	37 19
Dec. 7		
COL	e	07 46 52
PF	e(P)	07 46 28
TUC	eP	07 46 31
Dec. 7		
COL	eP	13 43 27
HH	iP	13 45 42.5
OV	i(P)	13 46 14
PF	e(P)	13 46 16
Dec. 7		
HH	iP	14 46 18.5
Dec. 7, H = 16 13 35* 35°N, 24½°E. Off south coast of Crete.		
COL	iP	16 25 49

Date and Station	Phase	(GCT)
		h m s
Dec. 7, cont.		
HH	iP	16 26 33
	i(pP)	26 38
	i	26 48
PF	eP	16 27 13
Dec. 7, H = 16 44 16** Pacific Ocean, about 150 miles south of Panama.		
BC	eP	16 52 23
HUAN	e	16 48 32
	e	51 32
	eL	53 26
HH	iP	16 53 28
OV	eP	16 52 52
PF	eP	16 52 21
TUC	eP	16 51 49
Dec. 7		
COL	e	17 58 58
Dec. 7, H = 18 44 40 By Berkeley, 39.0°N, 119.8°W. Western Nevada. Felt at Carson City. Mag. 3.8		
BC	e	18 46 20
OV	e	18 47 22
PF	e(P)	18 46 26
	eS	47 32.5
	i	47 35
SH	eP	18 45 23
	eS	45 55
Dec. 7		
PF	e	21 39 17
Dec. 7, H = 23 54 18** Northern Chile. h = about 100 km.		

Date and Station	Phase	(GCT)
		h m s
Dec. 8, cont.		
BC	iP	00 05 23.5
	epP	05 48.5
HH	iP	00 06 07
	ipP	06 36.5
OV	iP	00 05 23
	ipP	05 51
	i	06 04
PF	iP	00 05 19
	ipP	05 46
TUC	eP	00 04 50
	epP	05 17
Dec. 8		
PF	e(P)	03 24 11
TUC	eP	03 22 58
Dec. 8		
BC	eP	19 30 55
OV	iP	19 30 59
PF	iP	19 30 59
SH	i(P)	19 31 11
Dec. 8, H = 20 44 41 By Pasadena, 36°55'N, 117°15'W. North of Death Valley, Calif. Mag. 3.3		
BC	eP	20 45 26
	iP	45 26.5
	iS	45 57.5
	i	46 22.5
OV	eP	20 45 20
	i(S)	46 00
PF	eP	20 45 32
	iP	45 37
	iS	46 16
Dec. 8		
PF	iP	21 47 32

Date and Station	Phase	(GCT)
		h m s
Dec. 9		
HH	eP	00 30 13
SH	e	00 30 20
Dec. 9, H = 04 34 49 By Pasadena, 36°04'N, 117°40'W. Near Coso Hot Springs, Calif. Mag. 4.1		
BC	eP	04 35 32
	iP	35 32.5
	i	36 14
	e(S)	36 26.5
OV	eP	04 35 36
PF	eP	04 35 39
	iP	35 45
	iS	36 24
Dec. 9, H = 05 02 35** Central Chile. Felt.		
HH	iP	05 15 19
OV	iP	05 14 31
PF	eP	05 14 27
Dec. 9		
OV	eP	07 58 47
PF	eP	07 58 22
Dec. 9, H = 08 41 18 By Pasadena, 37°28'N, 118°22'W. Bishop, Calif., foreshock. Mag. 4.1		
BC	eP	08 42 16
	iP	42 20.5
	i	42 29
	i(S)	43 11.5
	i	43 34.5
LOG	e	08 44 55
	e(L)	45 16

Date and Station		Phase (GCT)
		h m s
Dec. 9, cont.		
OV	eP	08 42 17
	iP	42 23
	i(S)	43 12
PF	iP	08 42 21
	i(S)	43 22
SH	e	08 42 45
	e(S)	43 37
TUC	e(P)	08 43 22
	e(S)	45 10
	iL	45 45
Dec. 9, H = 11 04 57** Tonga Islands region.		
BC	eP	11 17 00
	e	17 10
COL	iP	11 17 41
OV	iP	11 17 03
PF	iP	11 17 03
TUC	iP	11 17 04
Dec. 9, H = 12 39 02 By Pasadena, 37°28'N, 118°22'W. North of Bishop, Calif. Felt in Bishop, Big Pine, and June Lake. Mag. 4.6		
BC	eP	12 39 59
	iP	40 04
	i	40 17
	iL	40 44
LOG	e	12 40 51
	e	41 13
	eL	42 38
OV	eP	12 40 00
	iP	40 06
PF	eP	12 40 02
	iP	40 07
	i	41 08
	iL	41 17

Date and Station		Phase (GCT)
		h m s
Dec. 9, cont.		
SH	eP	12 40 16
	eL	41 24.5
TUC	e(P)	12 41 07
	e(S)	42 47
	eL	43 24
Dec. 9		
BC	eP	13 52 12
OV	iP	13 52 09
PF	iP	13 52 08
	i(pP)	52 24
SH	eP	13 51 57.5
	e	52 14
TUC	iP	13 52 08
	epP	52 24
Dec. 9		
COL	eP	16 26 48
	iP	26 49.5
	eS	27 50
	eL	28 15.5
Dec. 9		
BC	(e)	19 02 07
OV	iP	19 02 16
PF	iP	19 02 16
	ipP	02 34
SH	eP	19 02 23
TUC	eP	19 02 15
	ipP	02 32
Dec. 10		
BC	eP	09 54 48
	i(S)	55 12
OV	iP	09 54 36
	i	54 55
TUC	e(P)	09 55 52
	i	56 09
	e(S)	56 29
	e	56 43
	eL	57 08

Date and Station		Phase (GCT)
		h m s
Dec. 10, H = 14 50 15 By Pasadena, 33°58'N, 116°29'W. Northeast of Palm Springs, Calif. Mag. 3.2		
OV	eP	14 50 58
	iS	51 54
PF	e	14 51 09
	eS	51 52
Dec. 10, H = 15 46 53 By Pasadena, 34°03'N, 118°30'W. Near Santa Monica, Calif. Felt. Mag. 3.2		
OV	eP	15 47 59
Dec. 10, H = 17 19 54** Samoa Islands. Felt in Apia. h = about 60 km.		
BC	i(P)	17 31 24
COL	iP	17 32 01
	ipP	32 25
HH	iP	17 32 02
	i	32 09
	i	32 21
LOG	eP	17 31 48
OV	iP	17 31 27.5
	ipP	32 05.5
PF	iP	17 31 28
SH	iP	17 31 11
TUC	iP	17 31 30
	e	31 54
	e	32 06
Dec. 10		
HH	eP	18 06 12.5
Dec. 10, H = 19 16 04* 4½°N, 128½°W. Pacific Ocean. h = about 150 km.		

Date and Station		Phase (GCT)
		h m s
Dec. 10, cont.		
BC	iP	19 22 35.5
	ipP	23 11.5
CHI	eS	19 32 24
	eL	41 11
COL	iP	19 26 07
	epP	26 47
HUAN	e	19 25 32
	e	32 55
	eL	41 50
HH	iP	19 24 09
	i	25 45
LIN	e	19 24 18
	eS	30 57
	eL	34 46
LOG	eP	19 23 24
	ePP	25 05
	eL	38 00
OV	iP	19 22 40
	i	24 18
	iPcP	25 13
PHIL	iP	19 25 56
	e	27 49
	eS	34 02
	e(SS)	37 58
	eL	43 02
PF	iP	19 22 38
SJ	e	19 26 33
	e(S)	34 22
	eL	43 49
SH	iP	19 22 57
	i	25 18
SIT	eL	19 32 42
TUC	e	19 22 21
	i	22 38
	ePP	23 32
	eL	30 22

Date and Station		Phase (GCT)
		h m s
Dec. 10, H = 19 37 05** Eastern India.		
BC	iP	19 42 03
COL	iP	19 49 16.5
	e	55 24
HH	iP	19 44 24
OV	i	19 42 09
Dec. 10		
HH	iP	23 54 13
Dec. 11		
HH	iP	03 38 11
	e(L)	39 13
Dec. 11, H = 11 33 49* 21°S, 169°E. Loyalty Islands.		
BC	iP	11 46 57.5
COL	eP	11 47 02
HH	eP	11 47 21
OV	iP	11 46 59.5
	i	47 22
PHIL	eL	12 36 07
PF	iP	11 47 00
	i	48 17
SH	iP	11 46 42
TUC	iP	11 47 05
Dec. 11		
OV	i	11 59 18
Dec. 11		
BC	eP	17 59 23
HH	iP	17 56 02.5
PF	iP	17 59 26
TUC	iP	17 59 40

Date and Station		Phase (GCT)
		h m s
Dec. 11		
BC	eP	18 21 10
COL	iP	18 17 36.5
HH	eP	18 20 23
OV	iP	18 21 11
PF	eP	18 21 10
SH	eP	18 20 22
Dec. 11		
HH	iP	23 15 03
SH	e(P)	23 15 01
Dec. 12		
OV	e	01 23 23
Dec. 12, H = 03 32 33 By Pasadena, 33°53'N, 115°35'W. Eagle Mountain, Calif. Mag. 3.1		
BC	e(P)	03 33 14
PF	e	03 33 23
	i(S)	33 56
Dec. 12, H = 03 36 53 By Pasadena, 34°03'N, 115°53'W. Southeast of Twentynine Palms, Calif. Mag. 3.1		
BC	eP	03 37 29
	iS	37 59
OV	e(P)	03 37 41
	iS	38 17
PF	eP	03 37 33
	i(S)	38 09
TUC	e(P)	03 38 14.5
	i	38 19
	i	38 38
	e	39 05

Date and Station		Phase (GCT)
		h m s
Dec. 12		
HH	eP	04 23 21
Dec. 12, H = 05 18 04 By Pasadena, 34°03'N, 115°53'W. Twentynine Palms aftershock. Mag. 3.0		
BC	eP	05 18 40
	i	19 11
OV	e(P)	05 18 56
	eL	19 35
PF	e(P)	05 18 49
	iS	19 20
Dec. 12		
BC	e	08 09 01
HH	iP	08 09 10
	e	09 34
SH	e	08 14 06
TUC	eP	08 08 49
Dec. 12		
OV	eP	20 56 32
	i	57 11
PF	iP	20 56 32
	i	57 12
TUC	iP	20 56 32
Dec. 13		
BC	eP	04 05 58
COL	e	04 02(30)
HH	eP	04 04 34
OV	eP	04 06 05
PF	eP	04 06 07
SH	e(P)	04 05 38
TUC	iP	04 06 32

Date and Station		Phase (GCT)
		h m s
Dec. 13, H = 05 05 16 By Berkeley, 38°40'N, 119°50'W. Near Markleeville, Calif. Felt. Mag. 3.4		
OV	eP	05 06 38
SH	eP	05 06 09
	eS	06 45
Dec. 13, H = 14 32 56 By Pasadena, 34°53'N, 116°38'W. Southeast of Manix, Calif. Mag. 2.9		
BC	eP	14 33 30
	eS	33 57
OV	e(P)	14 33 43
	iS	34 16
PF	i(P)	14 33 37
	eS	34 07
Dec. 13		
HH	e	17 44 54
Dec. 13		
BC	e	19 21 30
	i	21 40
	i	22 14
	i	22 26
OV	iP	19 21 46
PF	eP	19 21 39
TUC	e(P)	19 22 00
	i	22 10
	e	23 04
	eL	23 12
Dec. 13		
HH	e	22 04 40
	eP	04 41.5
Dec. 14		
COL	iP	02 14(45)
	e(S)	16(52)

Date and Station		Phase (GCT)
		h m s
Dec. 14		
COL	eP	03 55 45
Dec. 14		
OV	e	05 11 58
PF	e	05 12 01
Dec. 14		
COL	iP	10 21 24
HH	eP	10 21 26
OV	eP	10 20 57
PF	iP	10 20 58
SH	e	10 20 44
Dec. 14, H = 14 40 00** Off coast of Colima, Mexico.		
BC	eP	14 44 45.5
COL	eP	14 49 37
HH	iP	14 46 22
PF	e(P)	14 44 56
TUC	eP	14 43 48
	ePP	44 19
	eL	48 39
Dec. 14, H = 17 32 21 By Pasadena, 37°52'N, 116°20'W. Kawich Valley area, Nev. Mag. 3.9		
BC	e(P)	17 33 04.5
	i(S)	33 34.5
OV	i(P)	17 33 04
	eS	33 29
PF	e(P)	17 33 11
	eS	33 42
TUC	e	17 34 42
	eL	36 13

Date and Station		Phase (GCT)
		h m s
Dec. 14		
HH	eP	17 32 21
TUC	iP	17 36 13
Dec. 15, H = 03 32 20** Off coast of Colima, Mexico.		
BC	e(P)	03 37 19
BOZ	eL	03 48 16
BUT	eL	03 50 55
COL	eP	03 42 06.5
	e(PcP)	43 06
HH	iP	03 38 53
LOG	eL	03 45 32
OV	iP	03 37 19
	e(S)	41 32
	eL	43 43
PF	iP	03 37 13
RC	eL	03 45 13
TUC	eP	03 36 18
	ePP	36 37
	e	37 57
	e(S)	39 44
	eL	40 43
Dec. 15		
SH	e(P)	05 35 14
	e(S)	36(39)
Dec. 15, H = 09 48 52 By Pasadena, 34°25'N, 116°55'W. Lucerne Valley, Calif. Mag. 3.0		
BC	eP	09 49 32
	i	49 39
	iS	50 06
OV	e(P)	09 49 48
PF	e(P)	09 49 41
	e(S)	50 22

Date and Station		Phase (GCT)
		h m s
Dec. 15		
COL	eP	10 22 35
Dec. 15, H = 10 27 22** Kermadec Islands.		
COL	eP	10 40 54
OV	eP	10 40 18
PF	iP	10 40 18
TUC	eP	10 40 17
Dec. 15, H = 10 52 00** Kermadec Islands.		
COL	eP	11 05 30
OV	iP	11 04 55
PF	iP	11 04 54
TUC	eP	11 04 53
	e	05 04
	ePcP	05 29
Dec. 15		
HH	e(P)	13 37 56
Dec. 15, H = 14 30 45** Near coast of northern Chile. Felt.		
HH	iP	14 42 44
OV	iP	14 41 58
TUC	eP	14 41 25
Dec. 15		
COL	i	18 28 06
Dec. 15		
COL	iP	21 43 51
	e(S)	45(00)
	eL	45 26
HH	iP	21 47 54
SH	e(P)	21 48 36

Date and Station		Phase (GCT)
		h m s
Dec. 15		
HH	eP	22 17 14
	iL	17 59
Dec. 15		
HUAN	eP	23 46 09
	iP	46 11
	i(S)	46 46
	i	46 59
	i(L)	47 02
OV	e	23 55 40
PF	e	23 55 50
Dec. 16, H = 02 01 39* 50°N, 129°W. Off Vancouver Island, British Columbia.		
BC	eP	02 05 48
HH	eP	02 04 08
OV	i(P)	02 05 44
PF	i(P)	02 05 50.7
SH	eP	02 04 15
TUC	e(P)	02 06 40
Dec. 16		
COL	eP	02 21 02
OV	e	02 25 13
PF	e	02 24 07
Dec. 16		
PF	iP	03 30 34
Dec. 16		
PF	e	04 27 20
Dec. 16		
COL	eP	04 32 41
OV	iP	04 32 08
PF	iP	04 32 08

Date and Station		Phase (GCT) h m s
Dec. 16		
COL	e	06 23 56
PF	i	06 22 24
TUC	e	06 22 01
Dec. 16		
OV	e	06 35 51
Dec. 16		
BC	e	07 04 08
COL	i(P)	07 05 42
OV	eP	07 04 04
PF	e	07 04 03
SH	e	07 04 54
Dec. 16		
COL	e	07 32 21
Dec. 16, H = 14 06 38* 27°S, 177½°W. Kermadec Islands region.		
BC	eP	14 19 18
COL	eP	14 19 57
HUAN	eSKS	14 30 28
	eSS	38 00
	eL	54 00
HH	eP	14 19 54
LOG	eP	14 19 42
OV	iP	14 19 21
PHIL	eL	15 01 30
PF	iP	14 19 21
	i	19 48
SLC	eL	14 50 50
SH	iP	14 19 10
TUC	eL	14 49 43

Date and Station		Phase (GCT) h m s
Dec. 16		
PF	e	18 25 46
Dec. 17		
COL	eP	01 25 02.5
HH	eP	01 26 32
Dec. 17		
BC	iP	03 30 31
COL	eP	03 28 06
HH	iP	03 30 08
OV	iP	03 30 31
SH	iP	03 29 54
Dec. 17		
COL	e	05 39 38
HH	iP	05 46 54
OV	iP	05 46 09
SH	e(P)	05 46 48
Dec. 17, H = 06 53 23* 54½°S, 70°W. Southern Magallanes Province, Chile. Destructive in Punta Arenas. One killed. Mag. 7-3/4		
BH	e(P)	07 04 10
	e	13 00
BER	e(P)	07 07 10
	e	10 36
	i	17 49
	i	23 45
	eL	29 07
T_S = 16 sec. A_S = 7 mm. T_L = 20 sec. $A_{max.}$=35 mm.		
BC	eP	07 06 59
	i	09 24
	ePP	11 32
	e	15 00

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
BOZ	ePP	07 12 02
	eSKS	18 29
	e(S)	20 05
	e(PS)	21 41
	eSS	27 09
	e(SSS)	32 07
	eL	41 05
BUT	e(PP)	07 12 26
	e(PPP)	14 28
	eSKS	18 21
	eL	37 28
CHI	e(P)	07 06 54
	ePP	10 36
	eSKS	17 26
	e(SS)	23 42
	eL	35 02
COL	e	07 12 25
	eP'	12 54
	e	13 54
	ePP	15 18
	iPKS	16 15
	ePPP	17 12
	eSKS	20 01
	i	23 30
	ePS	25 33
	iP'P'	34 00
	eL	42 26
COLU	e(P)	07 06 21
	ePP	09 39
	eS	17 11
	eL	28 13
HONO	eP	07 17 32
	ePP	22 30
	eSS	37 21
HUAN	eP	07 01 20
	iP	01 28
	iPP	02 37
	i(S)	07 50
	iL	11 00
HH	e(P)	07 07 59
	ePP	12 09
	eSKKS	18 52
	ePKKP	23 12

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
LIN	ePP	07 11 11
	eSKS	17 31
	ePS	19 07
	eSS	24 55
	eSSS	28 51
	eL	32 51
LOG	e(P)	07 07 04
	ePP	11 32
	e	16 56
	e	19 51
	ePKKP	23 18
	e(L)	41 08
NK	e(P)	07 07 09
	ePP	10 46
	ePPP	12 54
	eSKS	17 09
	e(PS)	18 34
	eL	32 04
PHIL	eP	07 06 57
	ePP	10 49
	iS	17 33
	i	18 30
	i	19 50
	eSS	23 55
	e(SSS)	28 28
	eL	31 33
PF	e(P)	07 07 05
	iPP	11 04
	eSKKS	17 58
	e(S)	18 43
OV	e(P)	07 07 03
	iPP	11 10
	eSKKS	17 58
SLC	ePP	07 11 23
	eSKS	17 46
	e(PS)	20 41
	e(SS)	26 29
	e(SSS)	29 47
	eL	37 11
SJ	e(P)	07 05 02
	i	05 46
	e(PP)	07 23
	ePPP	09 09
	eS	13 47

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
SJ, cont.		
	eSS	07 18 30
	eL	22 47
SH	e	07 08 03
	e(PP)	12 37
	eSKS	18 25
	e(S)	19 23
	eP'P'	42 05
SIT	eP'	07 12 20
	e(PP)	13 42
	eS	21 30
	e(SS)	31 10
	eL	46 00
TUC	eP	07 06 39
	i	06 45
	i	07 00
	ePP	10 06
	ePPP	12 02
	eSKS	17 06
	eS	17 34
	ePS	18 57
	eSS	23 20
	eSSS	27 10
	eL	31 30
UK	ePP	07 11 44
	eSKS	18 06
	eSP	20 18
	eSS	26 02
	eL	38 19
WASH	i(P)	07 06 43
	iPP	10 19
	ePPP	12 25
	eS	17 28
	i	18 12
	iSS	23 32
	eSSS	27 24
	iL	35 22
Dec. 17		
COL		08 38 20
HH	i(P)	08 37 52

Dec. 17, H = 12 55 43*
54½°S, 70°W. Southern Chile aftershock. Felt.

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
COL	eP'	13 14 58
	iPKS	18 24
HUAN	eP	13 03 41
	e(S)	09 57
	eL	13 32
HH	ePP	13 14 16
OV	e(P)	13 09 23
PHIL	eL	13 34 02
PF	e(P)	13 09 23
TUC	i(P)	13 09 00
	i	09 30
	eL	41 00
Dec. 17		
HH	e	13 25 15
	i	25 33

Dec. 17, H = 15 07 48*
54½°S, 70°W. Southern Chile. Felt. Mag. 7-¾

BH	eP	15 18 28
	e(S)	27 00
BER	e(P)	15 20 45
	i	31 20
	i	32 35
	iSS	36 10
	iL	43 24

T_S = 15 sec. A_S = 7.5 mm.
T_L = 20 sec. $A_{max.}$ = 38mm.

BC	e(P)	15 21 31
	i	22 42
	ePP	25 06
	e	30 20
BOZ	ePP	15 26 23
	i(SKS)	32 45
	eS	35 09
	eSS	40 54
	e(SSS)	45 27
	eL	52 31

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
BUT	ePP	15 26 34
	eSKS	32 48
	ePS	35 32
	eL	49 26
CHI	e(P)	15 21 24
	ePP	25 20
	iSKS	32 00
	eL	46 52
COL	e(P')	15 27 41
	ePP	29 20
	eSKSP	39 32
COLU	e(P)	15 20 45
	eS	31 09
	e(SS)	37 15
	eL	43 09
HONO	eSKKS	15 32 52
	eS	33 59
	eSS	41 06
	eSSS	45 04
	eL	51 47
HUAN	eP	15 15 47
	iP	15 53
	i	16 43
	i(S)	22 12
	iL	26 00
HH	ePP	15 26 50
	eSP	35 32
	e	36 20
	iPKKP	37 32
LIN	e(P)	15 21 30
	ePP	25 25
	eSKS	32 05
	e	32 46
	e	34 31
	eSS	39 21
	eL	47 21
LOG	e(P)	15 21 42
	ePP	25 58
	e	35 06
	eSS	39 37
	eL	47 50
NK	e(P)	15 21 38
	ePP	25 02

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
NK, cont.		
	eSKKS	15 31 49
	eL	48 24
OV	e(P)	15 21 28
	ePP	25 33
PHIL	e(PP)	15 25 16
	eSKS	31 36
	e	33 54
	e(SS)	38 49
	e(SSS)	42 39
	eL	45 52
PF	e(P)	15 21 25
	iPP	25 38
SLC	ePP	15 25 49
	e(SKS)	32 23
	e(PS)	34 57
	ePPS	35 19
	e(SSS)	44 15
	eL	50 23
SJ	e(P)	15 19 20
	ePP	21 49
	eS	28 11
	e(SS)	33 19
	eL	36 38
SH	e(P)	15 22(05)
	eL	50 00
SIT	ePP	15 28 40
	eSKKS	35 00
	ePS	38 16
	e(SS)	45 30
	e(SSS)	49 30
	eL	58 22
TUC	e(P)	15 21 04
	i	21 53
	ePP	24 31
	i	25 20
	ePPP	26 30
	eSKS	31 35
	ePPS	33 30
	eSS	38 00
	e(SSS)	42 00
	eL	46 00

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
UK	ePP	15 26 18
	e(SKS)	32 37
	e(PS)	35 17
	eSS	41 02
	eL	51 06
WASH	iP	15 21 08
	e(PP)	25 05
	eSKS	31 21
	i	32 32
	iSS	38 12
	i	41 06
	i	43 10
Dec. 17		
OV	iP	15 28 14
PF	iP	15 28 08
	i(S)	30 23
Dec. 17		
COL	e	17 52 05
TUC	eP	17 46 06
	iP	46 07
Dec. 17		
TUC	eP	19 12 43
Dec. 17		
COL	iP	19 44 35
Dec. 17		
HH	eP	21 24 32
Dec. 17		
HUAN	e(P)	22 38 45
	eL	51 42
TUC	iP	22 43 52
Dec. 18		
HUAN	eL	01 08 07
Dec. 18, H = 01 46 00** Southern Chile aftershock.		
COL	eP'	02 05 12
TUC	iP	01 59 12

Date and Station		Phase (GCT)
		h m s
Dec. 18		
COL	e	02 41 48
TUC	iP	02 41 30
Dec. 18		
COL	e	03 34 05
PF	e	03 34 10
Dec. 18, H = 05 38 59* 34°S, 179½°E. Kermadec Islands region. Felt from Opotiki to Wellington, New Zealand. h = about 150 km. Mag. 6-3/4		
BC	iP	05 52 00
	i	52 55
COL	e(P)	05 52 38
	ePP	56 40
HUAN	e	05 52 06
	i	06 02 33
	e(PPS)	07 07
	e(SS)	11 00
	e	14 32
HH	eP	05 52 36
	e	06 03 00
	ePKKP	08 44
LOG	eP	05 52 24
	ePP	56 27
OV	eP	05 52 03
PF	iP	05 52 04
	e(S)	06 03 04
SH	iP	05 51 54.5
TUC	iP	05 52 03
	i	52 49
	e(PP)	55 30
	e(S)	06 02 55
	i	03 00
	ePKKP	06 09
Dec. 18		
TUC	e(P)	06 09 09

Date and Station		Phase (GCT)
		h m s
Dec. 18		
COL	e	09 02 01
PF	e	08 55 35
TUC	iP	08 56 01
Dec. 18		
COL	eP	11 50 28
HH	eP	11 53 38
SH	eP	11 53 50
TUC	e(P)	11 55 19
Dec. 18		
HH	iP	17 05 07
Dec. 18		
LOG	eP	19 05 54
PF	i	19 04 55
SH	e(P)	19 05 47
TUC	iP	19 04 18
Dec. 18, H = 19 12 40 By Pasadena, 35°02'N, 116°53'W. Northeast of Barstow, Calif. Mag. 3.4		
BC	e(P)	19 13 16
	i	13 17
	i	13 20
	iS	13 41.5
	iL	13 54
PF	eP	19 13 24
	e(S)	14 07
Dec. 18		
COL	eP	19 24 52
Dec. 18		
COL	eP	22 22 07
	i	22 25
	e(S)	22 49
	e(L)	23 00

Date and Station		Phase (GCT)
		h m s
Dec. 18, cont.		
HH	iP	22 27 18
Dec. 19, H = 07 24 00** Fiji Islands region. h = about 500 km.		
COL	eP	07 35 42
	epP	37 42
HUAN	epP	07 48 37
	esS	08 01 00
HH	iP	07 35 53
PHIL	eL	08 22 43
PF	iP	07 35 26
SJ	eL	08 21 00
TUC	iP	07 35 28
	epP	37 23
	eL	08 27 16
Dec. 19		
COL	e	08 00 01
	e	03 32
Dec. 19		
HH	e(P)	08 10 17
Dec. 19, H = 09 39 32** Eastern New Guinea.		
COL	iP	09 52 14
HH	iP	09 53 28
	i	53 57
SH	iP	09 53 00.5
	e	53 35
Dec. 19		
HUAN	e	10 06 47
	e(S)	08 14
	iL	09 07
	i	09 47
HH	iP	10 14 59
TUC	e(P)	10 13 19

Date and Station		Phase (GCT) h m s
Dec. 19		
HH	iP	10 48 25
Dec. 19, H = 11 55 27** Solomon Islands.		
COL	iP	12 07 56
	e	08 06
HH	iP	12 15 47
SH	eP	12 08 28
Dec. 19		
HH	iP	21 43 56
SH	e	21 43 17
Dec. 19		
TUC	iP	22 04 26
	iS	04 46
	i	04 49
	i	05 20
	eL	05 22
Dec. 20		
COL	e	00 52 39
HUAN	eL	01 31 00
Dec. 20		
COL	e	04 27 48
TUC	eP	04 27 16
Dec. 20, H = 04 16 39* 21°S, 179°E. Fiji Islands region. h = about 650 km.		
BC	eP	04 28 09
	epP	30 16
	eS	37 50
COL	iP	04 28 34
	epP	30 45
	eS	38 22
HUAN	eSKS	04 39 00
	ePS	42 33
HH	iP	04 28 41

Date and Station		Phase (GCT) h m s
Dec. 20, cont.		
HH, cont.		
	ipP	04 30 40
	i	30 51
	eS	38 17
LOG	eP	04 28 30
	ipP	30 38
	eS	38 10
OV	iP	04 28 12
	ipP	30 19
PF	iP	04 28 12.5
	ipP	30 21
SH	iP	04 27 58
	ipP	30 04
	eS	37 20
TUC	iP	04 28 14
	epP	30 21
	eS	37 43
	i	38 00
	eP'P'	54 24
Dec. 20		
HH	e	04 54 00
	e	54 12
Dec. 20		
HH	eP	07 07 52
Dec. 20		
HH	e(P)	20 52 16
Dec. 21, H = 04 30 37** New Hebrides Islands.		
BC	eP	04 43 38
COL	eP	04 43 28
HH	eP	04 43 20
OV	eP	04 43 52
PF	eP	04 43 42
SH	eP	04 43 21
TUC	eP	04 43 46

Date and Station		Phase (GCT) h m s
Dec. 21		
TUC	e(P)	05 09 25
Dec. 21		
COL	eP	11 05 29
	iP	05 30
	eS	06 32
	eL	07 00
Dec. 21, H = 12 31 19* 18½°N, 67°W. Near coast of Puerto Rico. Felt in San Juan. h = about 100 km.		
BER	e	12 35 35
	eL	37 45
BC	eP	12 39 34
CHI	ePP	12 38 05
	eS	41 59
	eL	44 33
COL	iP	12 42 22.5
HUAN	e	12 37 44
	ePP	38 58
	eS	43 00
	eL	45 00
HH	iP	12 39 52
LOG	eP	12 39 22
	eL	54 18
OV	iP	12 39 33
PHIL	iP	12 36 18
	i	39 50
	eS	40 24
	eL	41 00
PF	iP	12 39 29
SJ	iP	12 31 39
	i	31 43
	iS	31 52
	iL	32 20
SH	eP	12 40 21

Date and Station		Phase (GCT) h m s
Dec. 21, cont.		
TUC	iP	12 39 03
WASH	eP	12 36 08
	e	36 27
	iL	41 10
Dec. 21, H = 13 18 06* 18½°S, 168°E. New Hebrides Islands.		
BC	iP	13 31 12
COL	iP	13 31 07
HH	iP	13 31 35
	ePP	35 28
OV	iP	13 31 16
PF	eP	13 31 16
SH	iP	13 30 57
TUC	iP	13 31 21
Dec. 21		
COL	eP	14 55 40
Dec. 21		
PF	e	17 34 29
Dec. 21, H = 17 45 31** Fiji Islands.		
COL	e	17 58 25
OV	e	17 58 34
PF	e	17 58 00
Dec. 21, H = 19 33 00* 20°S, 64°W. Southern Bolivia. Felt in Chile. h = about 600 km. Mag. 6-3/4 to 7		
BER	ePP	19 42 29
	i(S)	49 03
	e(SS)	52 22
T_S = 11 sec. A = 2.3 mm.		

Date and Station		Phase (GCT) h m s
Dec. 21, cont.		
BC	eP	19 43 40
	iP	43 41
	iScS	52 27
BOZ	eP	19 44 07
	iScS	53 05
	i(sS)	56 54
BUT	iP	19 44 10
	e(pP)	46 29
	iScS	53 21
CHI	iP	19 42 27
	e	44 11
	e(S)	50 23
	eScS	51 31
	esS	53 59
COL	eP	19 46 11
	epP	48 25
	eP'	50 06
	ePP	50 23
	eSKS	55 47
COLU	eP	19 41 49
	iS	48 45
	e(sS)	52 19
	e(SS)	53 13
HUAN	iP	19 36 01
	i	36 16
	i	36 24
	i(S)	38 06
	iL	39 08
HH	iP	19 44 20
	eS	53 40
LOG	eP	19 43 47
	iP	43 49
	ipP	45 55
	e(PP)	47 02
	eScS	52 42
OV	i(P)	19 43 42
	e	45 48
	e	48 44
	eP'P'	20 11 27
PHIL	i(P)	19 42 27
	iPP	44 24

Date and Station		Phase (GCT) h m s
Dec. 21, cont.		
PHIL	i(sP)	19 44 59
	i(S)	49 59
	e	53 39
	eL	57 37
PF	iP	19 43 28
	ipP	45 31
	e	45 46
	ePPP	48 16
	eScS	52 21
	eP'P'	20 11 12
	iSKPP'	13 40
SLC	eP	19 43 48
	iScS	52 38
	eL	20 06 04
SJ	eP	19 39 30
	iP	39 32
	i	40 07
	epP	41 06
	ePcP	41 39
	iS	44 34
	eL	51 16
SH	iP	19 44 18.5
	e(pP)	46 30
	esP	47 25
	iSKS	53 38
TUC	eP	19 43 09
	iP	43 11
	ipP	45 13
	iPP	45 55
	ePPP	47 37
	eS	51 25
	e	52 17
	eP'P'	20 11 17
WASH	iP	19 42 14
	iPcP	42 56
	e	-44 11
	ePP	44 30
	eS	49 36
	eScS	50 42
	e	53 21
Dec. 21		
HH	i	20 02 55
	i	05 12

Date and Station		Phase (GCT) h m s
Dec. 21		
BC	eP	20 10 12
SH	eP	20 11 01
	i	13 17
Dec. 21		
PF	e	22 10 58
Dec. 21		
SH	iP	23 09 06
	eS	09 45
Dec. 22		
HUAN	iP	07 58 42
	iS	58 55
	iL	59 10
Dec. 22, H = 09 09 27** New Britain region.		
BC	eP	09 22 58
COL	eP	09 21 56
OV	e	09 22 40
PF	eP	09 23 00
Dec. 22, H = 09 30 47* 16°N, 93°W. Chiapas, Mexico. Felt. h = about 100 km. Mag. 6½		
BH	e(P)	09 34 18
BER	ePP	09 38 05
	i	38 40
	iL	43 05
T_L = 11 sec. $A_{max.}$ = 4mm.		
BC	iP	09 36 35
	ipP	36 56
	iPP	37 17
	eL	42 58
BOZ	iP	09 37 23
	epP	37 43
	ePP	38 17
	iS	42 41
	e(sS)	43 09
	eL	45 19
Dec. 22, cont.		
BUT	iP	09 37 30
	epP	37 50
	ePcP	39 53
	iS	42 51
	isS	43 42
	eL	44 44
CHI	iP	09 36 17
	ipP	36 38
	eS	40 28
	i	41 22
	eL	44 36
COL	iP	09 40 56
	ipP	41 18.5
	i	42 00
	eS	49 09
	iSS	50 36
	esSS	51 17
	eL	10 02 00
	eP'P'	10 04
COLU	iP	09 35 28
	epP	36 00
	iS	39 22
	eL	42 19
HONO	iP	09 40 56
	epP	41 18
HUAN	iP	09 37 17
	ipP	37 47
	iPP	38 21
	e	39 05
	iS	42 30
	isS	43 05
	eL	44 37
HH	iP	09 37 51
	iPcP	40 34
	eS	43 21
LOG	iP	09 36 53
	i	38 38
	iS	41 45
	iL	43 20
OV	iP	09 36 36
	i	37 16
	iPP	37 40
	e	45 54
Dec. 22, cont.		
PHIL	iP	09 36 50
	ipP	37 12
	i	40 57
	i(S)	41 48
PF	iP	09 36 12
	ipP	36 52
	iPP	37 16
	e	45 51
SLC	iP	09 36 51
	iS	41 45
	isS	42 19
	eL	44 07
SJ	eP	09 36 20
	ePP	37 06
	e(S)	41 10
	iL	42 03
SH	eP	09 37 39
	epP	37 56
	e	39 10
	iPcP	40 05
	eScS	47 50
SIT	eP	09 39 50
	iPcP	40 52
	e(S)	47 16
	isS	47 52
	eL	56 20
TUC	eP	09 35 49
	i	36 10
	i	37 15
	iS	39 39
	isS	40 22
	eL	42 15
UK	e	09 38 03
	e(S)	43 13
	eL	47 52
WASH	iP	09 36 26
	ipP	36 41
	isP	36 54
	isS	10 11 23
	iL	12 02
Dec. 22		
BC	iP	10 00 21
	iS	00 49

Date and Station		Phase (GCT)
		h m s
Dec. 22, cont.		
OV	iP	10 00 33
	iS	01 11
PF	eP	10 00 21
	iS	01 05
Dec. 22		
HH	iP	10 08 16
	ipP	08 41
OV	e	10 08 58
Dec. 22		
COL	e(P)	10 18 21
Dec. 22, H = 11 28 48** Near north coast of Vancouver Island, British Columbia.		
COL	eP	11 32 56
HH	iP	11 31 20
LOG	eP	11 32 22
OV	eP	11 32 56
PF	iP	11 33 02
SH	eP	11 31 26
TUC	eP	11 33 53
Dec. 22		
OV	e	12 30 31
PF	e	12 30 38
Dec. 22		
BC	e(P)	12 55 40.5
	e	55 55
HH	iP	12 56 56
OV	eP	12 55 41
	i	55 55
PF	iP	12 55 36
	i	55 51
TUC	eP	12 54 54

Date and Station		Phase (GCT)
		h m s
Dec. 22		
COL	eP	17 25 21
HH	iP	17 26 39.5
PF	e	17 25 52
Dec. 22		
COL	e	18 38 36
	e	38 42
	e	40 24
HUAN	eS	18 32 00
	eL	33 15
HH	iP	18 38 00
TUC	iP	18 36 25
Dec. 22		
COL	eP	21 21 47
OV	eP	21 21 12
PF	eP	21 21 11
SH	eP	21 20 59
Dec. 22, H = 21 29 18* $31\frac{1}{2}$°S, $69\frac{1}{2}$°W. San Juan Province, Argentina. h = about 100 km. Felt in Chile.		
BC	iP	21 41 53
HH	iP	21 42 39
OV	iP	21 41 23
	ipP	41 54
PF	eP	21 41 19
	ipP	41 51
SH	eP	21 41 57
	ipP	42 29
TUC	iP	21 41 24
Dec. 22		
COL	eP	23 23 19

Date and Station		Phase (GCT)
		h m s
Dec. 22, cont.		
HH	eP	23 23 44
	e	23 51
	i	24 37
PF	eP	23 22 49
SH	eP	23 25 18
Dec. 23		
HH	eP	03 22 36
	i	24 14
Dec. 23		
COL	e	04 50 57
HH	iP	04 52 15
Dec. 23		
COL	e	11 17 52
Dec. 23		
HH	e	11 40 50
SH	e	11 40 35
Dec. 23		
HH	e	12 44 15
Dec. 23		
PF	eP	14 33 08
	e(S)	34 07
	eL	34 25
Dec. 23, H = 14 32 46* 76°N, 6°E. East of Greenland.		
COL	e(P)	14(40)05
	i	40 10
HH	e(P)	14 41 40
OV	e	14 43 03
PF	e	14 43 05
Dec. 23, H = 21 33 30** 100 miles south of Formosa.		
COL	eP	21(44)56
	e	44 59.5

Date and Station		Phase (GCT) h m s
Dec. 23, cont.		
HH	eP	21 46 59
SH	eP	21 46 57
Dec. 24		
BC	eP	00 18 45.5
COL	e	00 22 33
HH	eP	00 20 24
OV	eP	00 18 49
PF	eP	00 18 46
TUC	eP	00 17 50
	eL	21 21
Dec. 24		
OV	e	12 05 58
Dec. 24, H = 22 01 49** New Hebrides Islands.		
BC	eP	22 14 55
COL	eP	22 14 53
PF	eP	22 14 57
TUC	eP	22 15 02
Dec. 24		
COL	iP	22 44 36.5
HH	iP	22 44 35
OV	iP	22 44 01
PF	iP	22 44 00
SH	eP	22 43 45
TUC	eP	22 44 03
Dec. 25		
COL	eP	00 01 54
HH	iP	00 03 10
	i	03 17

Date and Station		Phase (GCT) h m s
Dec. 25, cont.		
PF	e	00 02 27
RC	eL	00 27 41
TUC	eP	00 02 25
Dec. 25, H = 01 52 16** North Atlantic Ocean, 600 miles north of the Azores.		
COL	eP	02 00 03
HH	eP	02 01 31
PF	iP	02 02 29
TUC	eP	02 02 33
Dec. 25, H = 06 07 04** About 150 miles south of Fiji Islands.		
COL	eP	06 20 13
OV	iP	06 19 41
PF	eP	06 19 40
SH	eP	06 19 27
TUC	eP	06 19 41
	e	22 48
Dec. 25		
COL	eP	11 08 15
HH	iP	11 09 31
Dec. 25		
HH	iP	14 00 37
OV	iP	14 00 23
	i	01 49
PF	iP	14 00 25
SH	eP	13 59 59
TUC	eP	13 57 55
	i	58 05.5

Date and Station		Phase (GCT) h m s
Dec. 25, cont.		
TUC, cont.	i	13 58 10
	i	58 27
	i(S)	58 40
	i	58 55
	i	59 07
	iL	59 13
Dec. 25		
HUAN	e	15 58 44
	eL	16 00 34
Dec. 25		
HH	iP	15 58 59
TUC	eP	15 57 45
Dec. 25		
HH	i(P)	21 54 53
Dec. 25, H = 22 40 45* 19½°N, 104°W. Colima, Mexico. Felt in Manzanillo. Mag. 6		
BC	eP	22 45 08
	eL	51 18
BOZ	eL	22 55 10
BUT	eL	22 55 28
CHI	e(S)	22 51 27
	eL	55 07
COL	iP	22 50 06
HUAN	eS	22 54 52
	eL	57 43
HH	eP	22 46 50.5
	eL	57 18
LOG	eP	22 45 49
	eL	52 59
OV	iP	22 45 11
PF	eP	22 45 05
	eS	48 22
SLC	eL	22 52 39

Date and Station		Phase (GCT)
		h m s
Dec. 25, cont.		
SH	iP	22 46 18
	ePP	46 44
	eL	54 54
TUC	eP	22 44 08
	iP	44 12
	i	45 05
	i	46 33
	iS	46 47
	eL	47 31
WASH	eL	23 01 07
Dec. 25, H = 23 17 28** Honshu, Japan, foreshock. Felt.		
BC	eP	23 29 41
	iP	29 43
BOZ	eP	23 29 20
BUT	eP	23 29 23
CHI	eL	00 06 25
COL	iP	23 26 26.5
	eL	38 30
HH	iP	23 29 01.5
LOG	iP	23 29 31
OV	iP	23 29 42
	eS	40 10
PF	iP	23 29 40
	i	30 06
	ePP	32 35
	e	40 10
SH	iP	23 28 57
TUC	eP	23 30 07
Dec. 25, H = 23 24 52* 36°N, 139°E. Honshu, Japan. 8 killed, 163 injured. Several thousand houses damaged. Mag. 6-3/4		

Date and Station		Phase (GCT)
		h m s
Dec. 25, cont.		
BC	iP	23 37 05.5
BOZ	eP	23 36 46
	eS	46 36
	eL	00 01 02
BUT	eP	23 36 39
	eL	00 07 45
COL	iP	23 33 51
	ePPP	37 02
HONO	iP	23 34 36
	eS	42 43
	eL	49 14
HUAN	eSSS	00 11 00
	eL	19 21
HH	iP	23 36 25
	ePP	39 37.5
LOG	iP	23 36 52
	e	41 05
	eS	47 05
	eL	58 49
OV	iP	23 37 06
PF	iP	23 37 08
	ePP	40 12
SH	iP	23 36 22
	ePP	39 07
TUC	iP	23 37 31
	ePP	40 33
	ePPP	42 46
	eS	48 03
	eL	00 01 06
Dec. 26		
HH	eP	00 54 44.5
OV	e	00 55 24
Dec. 26		
BC	eP	02 03 21
COL	eP	02 00 07

Date and Station		Phase (GCT)
		h m s
Dec. 26, cont.		
HH	eP	02 02 42
OV	eP	02 03 22
PF	eP	02 03 24
SH	eP	02 02 38.5
TUC	eP	02 03 48
Dec. 26		
HH	iP	02 11 00
Dec. 26		
HH	iP	03 35 54
Dec. 26		
COL	iP	03 47 08
HH	iP	03 48 06.5
	e	48 16
	e	48 42
PF	iP	03 49 02.5
TUC	eP	03 49 12
Dec. 26		
COL	eP	05 30 12
HH	eP	05 31 20
Dec. 26, H = 05 32 09** Fiji Islands region.		
COL	eP	05 44 36
HH	eP	05 45 03
OV	eP	05 44 22
PF	eP	05 44 20
SH	eP	05 44 04
Dec. 26, H = 06 24 00* 16°S, 180°. Fiji Islands region. h = about 100 km. Mag. 6.9		

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
BER	e	06 51 02
	eSS	07 01 35
	eL	12 30
T_L = 20 sec. $A_{max.}$ = 3mm.		
BC	iP	06 36 04
	i	37 20
BOZ	iP	06 36 22
	e	46 12
	eSS	53 02
	eL	07 00 02
BUT	eP	06 36 54
	e	45 59
	eS	47 20
	eL	59 44
CHI	ePP	06 42 11
	e(SKS)	48 23
	eS	49 11
	e(SS)	55 51
	eL	07 05 01
COL	iP	06 36 22
	e	37 25
	ePP	39 44
	e	40 20
	ePPP	41 17
	eS	46 27
	esS	46 49
	eL	58 41
COLU	eL	08 11 14
HONO	eP	06 31 48
	ePP	33 49
	iS	38 22
	eL	41 44
HUAN	e(P)	06 38 30
	ePP	42 26
	eSKS	48 08
	e	48 26
	e	49 15
	isS	49 42
	iPS	51 00
	iSS	56 32
	eL	07 03 00

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
HH	eP	06 36 32
	iPKKP	54 39
LOG	eP	06 36 24
	i	37 22
	i	41 21
	e(PS)	47 29
	e(SS)	51 59
	esSS	53 03
	eSSS	56 10
	eL	58 47
OV	iP	06 36 06
	ePP	39 07
	e(PPP)	41 32
PF	iP	06 36 06
	iPP	39 12
SLC	iP	06 36 32
	e(S)	46 42
	eL	58 56
SJ	eP'	06 43 09
	e	47 02
	e(SKS)	49 29
	eS	51 20
	e(SS)	59 07
	eL	07 13 02
SH	eP	06 35 47
	e	37 12
	e(PP)	39 04
	eL	59 29
SIT	eL	06 57 50
TUC	iP	06 36 12
	i	36 53
	ePP	39 22
	e(PPP)	41 38
	eS	46 31
	ePS	47 09
	eL	57 25
	eP'P'	07 03 02
UK	eP	06 35 48
	eS	45 14
	eL	55 12

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
WASH	ePP	06 43 30
	i	44 41
	e	52 56
	iPKKP	53 46
	e(SS)	57 10
	eL	07 11 03
Dec. 26		
BC	eP	07 23 06
COL	eP	07 23 17
HH	eP	07 23 36
OV	eP	07 23 07
PF	eP	07 23 09
SH	eP	07 22 46
TUC	e(P)	07 23 09
	e	23 14
Dec. 26		
COL	e	10 24 44
HH	iP	10 27 18
OV	iP	10 27 59
PF	i(P)	10 28 01
SH	eP	10 27 15
TUC	eP	10 28 09
Dec. 26		
HH	iP	13 08 17
	i(pP)	08 24
OV	eP	13 08 17
	e	08 42
Dec. 26, H = 14 27 40 By Pasadena, 34°00'N, 118°20'W. Felt in Inglewood and southwestern Los Angeles, Calif. Mag. 2.8		
OV	e	14 28 55

Date and Station		Phase (GCT) h m s
Dec. 26		
OV	eP	19 56 52
PF	eP	19 56 52
Dec. 26		
COL	e	21 52 20
Dec. 26		
HH	iP	23 51 57
PF	e	23 52 11
Dec. 27, H = 02 42 59** Honshu, Japan.		
BC	iP	02 55 12.5
COL	eP	02 51 53
HH	iP	02 54 30
	e	54 36
OV	iP	02 55 13
PF	iP	02 55 15
SH	iP	02 54 29.5
TUC	iP	02 55 39
Dec. 27		
BC	eP	08 39 44
Dec. 27		
COL	eP	08 47 34
HH	iP	08 49 20
OV	eP	08 49 34
PF	iP	08 49 37
SH	iP	08 49 00
Dec. 27		
COL	eP	08 50 54
HH	eP	08 52 39
OV	iP	08 52 56
PF	iP	08 52 57

Date and Station		Phase (GCT) h m s
Dec. 27, cont.		
SH	iP	08 52 19
TUC	eP	08 53 09
Dec. 27, H = 08 56 06** Honshu, Japan. Felt.		
BC	eP	09 08 17
COL	eP	09 05 03
HH	iP	09 07 37
OV	iP	09 08 18
PF	iP	09 08 20
SH	iP	09 07 34
TUC	iP	09 08 43
Dec. 27		
HH	iP	09 21 19
Dec. 27		
COL	eP	10 26 55
HH	iP	10 29 29
OV	iP	10 30 10
PF	eP	10 30 12
SH	eP	10 29 26
TUC	eP	10 30 31
Dec. 27, H = 10 52 28** Andreanof Islands, Aleutian Islands.		
BC	iP	11 00 36
COL	iP	10 56 40.5
	e	56 51
HH	iP	10 59 39
	i	11 00 25
	i	01 51
OV	iP	11 00 35

Date and Station		Phase (GCT) h m s
Dec. 27, cont.		
PF	iP	11 00 39
	ePP	02 27
SH	iP	10 59 34.5
	eS	11 05 11
TUC	iP	11 01 14
Dec. 27		
COL	e	11 04 13
HH	iP	11 05 14.5
Dec. 27		
COL	eP	11 27 31
Dec. 27		
HH	iP	12 56 58
Dec. 27		
PF	e(P)	14 28 46
Dec. 27, H = 16 41 55** Honshu, Japan.		
COL	eP	16 50 51
HH	iP	16 53 25
PF	eP	16 54 08
SH	eP	16 53 21
TUC	eP	16 54 31
Dec. 27		
HH	iP	17 38 48
Dec. 27		
COL	e	17 45 10
Dec. 27		
HH	eP	18 02 44
Dec. 27		
OV	eP	19 39 55
TUC	iP	19 38 05
	i	38 17
	i	38 30.5
	iS	38 52.5
	i	39 03
	iL	39 38

Date and Station		Phase (GCT) h m s
Dec. 27		
HH	e(P)	19 58 26
Dec. 27		
LOG	eP	20 15 54
Dec. 27		
COL	eP	20 41(55)
HH	iP	20 44 40
OV	eP	20 45 27
PF	iP	20 45 30
SH	iP	20 44 43
TUC	iP	20 45 54
Dec. 27, H = 21 03 50** Tonga Islands. Felt in Apia. h = about 100 km.		
BC	iP	21 15 30
	ipP	15 55
COL	iP	21 16 08
	epP	16 34
HH	iP	21 16 08
	ipP	16 34
	i	17 15
	e	20 11
OV	iP	21 15 24
PF	iP	21 15 34
SH	iP	21 15 18
TUC	iP	21 15 36
Dec. 27		
HH	e(P)	22 02 24
Dec. 27, H = 23 57 13* 59½°S, 21°W. Sandwich Islands. Mag. 7.2		
BC	iP'	00 16 07
	ePP	17 46
	e(SKS)	23 35
Dec. 28, cont.		
BOZ	ePP	00 18 18
	eL	51 21
BUT	ePP	00 18 19
	eL	50 55
CHI	iPP	00 16 47
	eSKKS	23 39
	eSS	32 43
	eL	43 29
COL	eP'	00 17 01
	iP'	17 30
	ePP	21 07
	eL	53 46
HONO	eSS	00 36 50
	eL	59 16
HUAN	iP	00 07 35
	iS	16 04
	iL	22 44
HH	e	00 16 10
	iP'	16 22.5
	iPP	18 43.5
LIN	eSKS	00 23 28
	eSS	33 21
	eL	47 08
LOG	eP'	00 16 09
	iPP	18 07
	eSKS	23 15
	ePS	28 10
	eSS	35 00
	eL	50 13
OV	eP'	00 16 08
	ePKKP	26 30
PHIL	ePP	00 16 11
	eSKS	22 13
	eS	23 39
	ePS	25 28
	eSS	31 19
	e(SSS)	36 12
	eL	44 18
PF	eP'	00 16 06
	e	17 20
	ePKKP	26 30
Dec. 28, cont.		
RC	iPP	00 17 48
	eSKS	23 12
	eSS	34 41
	eL	47 51
SLC	ePP	00 18 38
	eSS	34 39
	eL	47 49
SJ	eP	00 09 55
	ePP	12 58
	eS	20 18
	eSS	26 12
	eSSS	30 00
	eL	32 00
SH	eP'	00 16 20
	ePP	18 37
	ePS	28 52
SIT	iP'	00 16 52
	ePP	21 24
	e(SKS)	24 38
	eSS	39 10
	eL	58 10
TUC	eP'	00 15 56
	ePP	17 03
	eSKKS	24 15
	ePKKP	26 22
	ePS	27 02
	eSS	33 20
	eSKPP'	41 09
	eL	44 30
UK	eSS	00 35 32
	eL	51 14
WASH	eP'	00 15 04
	ePP	16 07
	ePPP	18 05
	ePS	25 39
	eSS	31 23
	eL	46 04
Dec. 28		
HH	e(P)	01 59 37
Dec. 28		
HH	iP	02 55 10
TUC	eP	02 56 05

Date and Station		Phase (GCT)
		h m s
Dec. 28		
HH	e(P)	03 32 45
Dec. 28, H = 03 50 59** Azores region foreshock.		
BC	eP	04 01 38
HH	eP	04 00 50
	e	01 08
LOG	eP	04 01 00
OV	eP	04 01 33
PF	eP	04 01 34
TUC	eP	04 01 34
Dec. 28, H = 06 25 25 41°N, 29°W. Azores region.		
BC	eP	06 36 06
BOZ	eL	06 50 00
COL	eP	06 35 55
HH	eP	06 35 16
LOG	eP	06 35 25
OV	eP	06 36 01
PHIL	eL	06 41 33
PF	iP	06 36 00
SH	eP	06 36 20
TUC	eP	06 36 00
	eL	58 52
Dec. 28		
COL	eP'	10 45 07
HUAN	eP	10 35 45
	eS	44 02
	e(L)	57 18

Date and Station		Phase (GCT)
		h m s
Dec. 28, cont.		
HH	eP'	10 44 23
OV	eP'	10 44 26
PF	eP'	10 44 10
TUC	eP'	10 44 10
Dec. 28, H = 11 58 39 By Berkeley, 39.4°N, 118.0°W. Western Nevada. Mag. 2.9		
BC	i	11 59 54
	e(S)	12 00 30
OV	eP	11 59 38
	iP	59 51
	iS	12 00 39
PF	i(P)	11 59 46
	iS	12 00 26
SH	eP	11 59 35
	e(S)	12 00 22
	eL	00 27
Dec. 28, H = 13 41 32* 51½°N, 176°W. Andreanof Islands, Aleutian Islands. Felt in Adak. h = about 60 km.		
BC	eP	13 49 51
COL	iP	13 46 02
	i	46 15.5
	eS	49 40
	eL	52 12
HH	iP	13 48 57
	ipP	49 14
	iPcP	51 07
	eS	54 55
OV	iP	13 49 50
PF	iP	13 49 42
SH	iP	13 48 48

Date and Station		Phase (GCT)
		h m s
Dec. 28, cont.		
TUC	iP	13 50 29
	ipP	50 42
Dec. 28		
COL	e	22 29 16
HH	e(P)	22 29 50
SIT	e	22 27 04
	eL	27 32
Dec. 28		
COL	e	22 33 06
Dec. 29		
HH	e(P)	00 47 54
Dec. 29		
COL	e	02 29 23
HH	e	02 27 34
OV	e	02 28 42
Dec. 29, H = 03 03 50* 17½°N, 121½°E. Northern Luzon, Philippine Islands. Heavy property damage along northwest coast of Isabella Province and minor damage in Manila. 1 killed by sea wave near Mercedes. Mag. 7.2		
BER	eP'	03 24 25
	ePP	26 31
	iPKS	27 51
	eL	53 11
T_L = 19 sec. $A_{max.}$ = 3 mm.		
BC	e(P)	03 18 04
	iPP	22 56
	eSKKS	29 09
	eP'P'	42 29
BOZ	eP	03 17 45
	ePP	21 41
	eSKS	28 23
	e	34 46
	eL	56 51

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
BUT	eP	03 17 51
	ePP	21 53
	eSKS	28 19
	iS	29 17
	eSS	35 56
	eL	54 25
CHI	e(PP)	03 23 15
	eSKS	29 19
	eS	31 00
	ePPS	34 16
	eSS	39 28
	eSSS	43 20
	eL	50 54
COL	eP	03 15 33
	iP	15 34
	ePP	18 00
	e(PPP)	20 07
	iS	25 08
	e(SS)	30 38
	ePS	32 14
	eSSS	33 52
	eP'P'	42 21
	eL	47 30
COLU	ePP	03 24 43
	ePS	34 37
	eL	04 01 23
HONO	eP	03 15 38
	ePP	18 29
	eS	25 20
	eL	35 19
HUAN	eP'	03 24 00
	i	26 57
	i	27 53
	iPP	28 47
	e(SKS)	31 10
	e	31 42
	eSKKS	34 30
	e	36 25
	i	50 05
	e	59 02
	eL	04 07 55
HH	iP	03 17 30
	ePP	21 38
	ePPP	23 41
	eSKS	28 15

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
HH, cont.	eS	03 29 22
	e(P'P'P')	04 09 51
LIN	e(P')	03 22 40
	ePP	23 09
	eSKS	29 02
	e(SS)	38 20
	eL	51 03
LOG	eP	03 17 52
	i	21 46
	iPP	22 26
	iSKS	28 36
	eSS	36 47
	eSSS	40 43
	eP'P'	42 40
	eL	48 00
OV	eP	03 18 04
	e(P')	21 48
	iPPP	24 34
PHIL	ePP	03 24 20
	eSKS	29 45
	eSP	34 03
	eP'P'	41 29
	eSKPP'	46 56
	eL	52 46
PF	eP	03 17 54
	i	18 04
	i(P')	21 53
	eSKS	28 59
SLC	e(P)	03 18 08
	eP'	21 49
	iSKS	28 39
	eSS	37 29
	e(SSS)	41 19
SJ	eP'	03 23 31
	ePP	26 51
	eSS	45 03
	eL	04 02 49
SH	iP	03 17 28
	ePP	21 35
	ePPP	23 26
	iSKS	28 05
	ePKKP	33 56

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
SIT	iP	03 16 18
	eS	26 21
	eL	38 00
TUC	e(P)	03 18 27
	i	18 56
	eP'	21 49
	ePP	22 52
	e(PPP)	25 26
	eSKS	29 20
	eS	30 27
	ePS	32 17
	ePKKP	33 44
	eSS	38 09
	eL	47 43
UK	e(P)	03 17 52
	ePP	21 24
	eS	28 38
	eSS	34 52
	eL	44 56
WASH	eP'	03 22 58
	i	23 31
	ePS	34 07
	eSS	40 31
	eL	57 37
Dec. 29		
COL	eP	03 48 07
HH	e(P)	03 50 13
	i	50 47
Dec. 29		
COL	e	04 07 16
	e	07 55
Dec. 29		
COL	e(P)	04 40 17
Dec. 29		
OV	iP	06 27 25
PF	iP	06 27 25
SH	eP	06 27 08
TUC	iP	06 27 27

Dec. 29, H = 06 22 54**
Northern Luzon aftershock.

Date and Station		Phase (GCT)
		h m s
Dec. 29, cont.		
COL	eP	06 34 37
HH	e	06 37 37
PF	e(P')	06 40 34
SH	eP	06 36 41
TUC	ePP	06 42 04
Dec. 29		
COL	eP	06 49 05
	e(pP)	51 26
HH	eP	06 52 03.5
Dec. 29		
TUC	eP	07 37 23
Dec. 29		
COL	eP	07 48 51
HH	iP	07 50 49
Dec. 29		
COL	e	08 01 13
Dec. 29, H = 10 17 53** Northern Luzon aftershock.		
COL	iP	10 29 36
	e(S)	39 31
	eL	52 18
HH	iP	10 31 33
OV	e(P)	10 36 06
PF	e	10 36 47
SH	eP	10 31 44
Dec. 29		
COL	eP	11 03 08
HH	eP	11 05 03
Dec. 29		
COL	eP	11 10 07
HH	eP	11 12 03
	i	12 30

Date and Station		Phase (GCT)
		h m s
Dec. 29		
COL	iP	11 13 26
HH	e(P)	11 14 47
	i	15 23
OV	e	11 16 30
Dec. 29		
COL	eP	13 59 31
	e(S)	14 00 21
Dec. 29		
COL	eP	15 11 57
PF	iP	15 41 37
Dec. 29, H = 16 42 56* 27°S, 176½°W. Kermadec Islands region. h = about 200 km. Mag. 6½		
BER	e(S)	17 10 25
	e(SS)	21 05
	eL	33 54
BC	eP	16 55 12
	ipP	56 02
BOZ	eS	17 06 37
	e(S)	07 13
	eL	26 01
CHI	eL	17 34 06
COL	e(P)	16 56 05
	e(PP)	59 30
	i(SKKS)	17 06 36
	i	07 14
HONO	e(S)	16 59 04
	eL	17 04 18
HUAN	e(P)	16 56 04
	eSKS	17 06 17
	esS	07 58
	eL	26 22
LOG	eP	16 55 39
	epP	56 20
	eSKKS	17 06 00
	isS	07 24
	eSS	12 27
	eL	29 06

Date and Station		Phase (GCT)
		h m s
Dec. 29, cont.		
OV	iP	16 55 17
	ipP	56 01
	i	17 07 25
PHIL	eL	17 37 13
PF	iP	16 55 19
	ipP	56 05
SLC	eS	17 06 12
	eL	24 07
SJ	eL	17 41 00
TUC	eP	16 55 19
	epP	56 03
	esP	56 22
	epPP	59 26
	epPPP	17 01 15
	eS	05 20
	e(pS)	06 38
	eSS	11 15
	eL	18 36
	eP'P'	21 06
UK	e(pP)	16 56 10
	e(S)	17 05 20
	eL	17 48
Dec. 29		
OV	e	19 01 31
PF	e	19 01 30
Dec. 29		
COL	iP	19 14 12
	e(S)	14 36
	e(L)	14 40
Dec. 29		
TUC	iP	19 22 28
	e	22 40
Dec. 29, H = 22 05 34** Java Sea.		
BC	eP'	22 24 39
COL	ePP	22 23 20
OV	iP'	22 24 41
	iPP	27 03

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
PF	i	19 22 29
SH	eP'	22 24 23
TUC	iP'	22 24 47
	iSKP	27 20
Dec. 29		
COL	e	22 35 36
OV	i	22 34 05
	e	37 23
SH	e(P)	22 34 29
Dec. 30		
PF	e	00 31 08
TUC	eP	00 31 52
Dec. 30, H = 01 41 06** Fiji Islands region.		
BC	i(P)	01 53 42
COL	e(P)	01 53 53
OV	i(P)	01 53 46
PF	i(P)	01 53 46
SH	e(P)	01 53 28
TUC	eP	01 53 50
Dec. 30		
PF	e	02 03 38
Dec. 30		
BC	eP	02 13 36
OV	iP	02 13 42
	i	17 08
	i	18 52
PF	eP	02 13 40
	i	17 08
	e	18 53
TUC	eP	02 13 44

Date and Station		Phase (GCT) h m s
Dec. 30		
COL	e	02 52 37
Dec. 30		
OV	e	04 29 42
PF	e	04 29 43
Dec. 30		
COL	e	05 50 10
Dec. 30		
BC	eP	06 36 55
COL	eP	06 34 57
OV	eP	06 36 51
	i	36 59
PF	e(P)	06 37 03
SH	eP	06 36 22
TUC	eP	06 37 19
Dec. 30		
OV	i	07 17 46
PF	e	07 17 46
TUC	iP	07 15 13
Dec. 30		
COL	e(P)	09 05 44
OV	e	09 07 45
	i	07 59
PF	e	09 08 50
SH	e(P)	09 08 14
Dec. 30		
TUC	eP	09 13 57
Dec. 30		
COL	e	09 28 29
PF	e	09 30 10
Dec. 30, H = 10 41 01** Kermadec Islands region.		

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
BC	eP	10 53 43
COL	eP	10 54 24
OV	i(P)	10 53 47
PF	i(P)	10 53 47
SH	iP	10 53 36
TUC	iP	10 53 46
Dec. 30		
COL	e	11 10 36
Dec. 30		
PF	e	13 31 40
TUC	e	13 31 37
Dec. 30		
OV	e	14 47 10
Dec. 30		
PF	e	16 44 34
Dec. 30		
PF	iP	22 24 40
	i	26 49
Dec. 30		
COL	e(P)	22 36 02
Dec. 30		
PF	iP	23 50 23
TUC	iP	23 50 22
Dec. 31		
OV	i(P)	01 28 55
PF	i(P)	01 28 54
SH	eP	01 28 44
TUC	eP	01 28 50
Dec. 31		
PF	e	02 28 43

Date and Station		Phase (GCT)
		h m s
Dec. 31		
COL	iP	04 01 36
HH	iP	04 04 54
SH	eP	04 04 46
Dec. 31, H = 04 08 10** Kermadec Islands region.		
BC	eP	04 20 58
COL	eP	04 21 36
	e	21 48
OV	iP	04 21 02
PF	eP	04 21 01
SH	iP	04 20 52
TUC	eP	04 21 01
Dec. 31		
COL	eP	04 41 00
OV	eP	04 40 40
PF	eP	04 40 40
TUC	eP	04 40 38
Dec. 31		
OV	e	05 28 15
PF	e	05 28 14
Dec. 31		
HH	e(P)	07 27 12
OV	e	07 28 05
	i	28 36.8
TUC	e	07 29 05
Dec. 31		
COL	e	08 36 38
Dec. 31, H = 08 41 42** Fiji Islands region.		
BC	eP	08 54 21

Date and Station		Phase (GCT)
		h m s
Dec. 31, cont.		
COL	eP	08 54 32
HH	eP	08 54 46
OV	iP	08 54 25
PF	eP	08 54 25
SH	eP	08 54 08
TUC	eP	08 54 29
Dec. 31		
OV	i(P)	09 15 01
	i	19 37
PF	e	09 15 02
	e	19 37
	e	25 42
Dec. 31		
COL	eP	09 44 35
HH	iP	09 44 46
OV	e(P)	09 46 10
PF	e	09 46 10
SH	e	09 46 00
TUC	eP	09 46 09
Dec. 31		
BC	eP	09 57 47
COL	iP	09 54 13.5
HH	iP	09 57 00
OV	iP	09 57 46
PF	iP	09 57 49
SH	e(P)	09 57 01
TUC	eP	09 58 14
Dec. 31		
OV	e(P)	10 03 42

Date and Station		Phase (GCT)
		h m s
Dec. 31, cont.		
PF	e(P)	10 03 42
TUC	iP	10 02 49
	i	03 03.5
	i	03 23
	i	03 50
	i	04 06
	i	04 12
	eL	04 21
Dec. 31		
BH	eP	10 18 27
	iS	19 02
Dec. 31		
COL	e(P)	10 42 26
Dec. 31		
COL	e	13 15 53.5

Local and Minor Earthquakes

day	hour
COL	
Oct.	
1	03.1
2	16.4
5	03.0
9	19.1
	22.3
10	03.7
	05.1
	09.6
	13.6
	15.8
	17.7
12	04.8
15	08.9
16	05.2
	09.2
	16.7
	23.3
17	03.3
	06.6
	10.2
	10.2
	11.7
	23.4
	23.7
18	02.1
	04.3
	05.7
	12.4
	17.2
19	01.2
	02.1
	08.8
	12.7
	14.1
	14.2
20	15.5
21	09.7
	10.9
	13.1
22	14.2
	15.6
	20.2
	22.8
23	05.2
	21.4
24	02.3
	08.3
	08.6
25	05.3
	07.5
	09.6

day	hour
COL, cont.	
Oct., cont.	
25	11.5
	15.4
	16.1
27	01.4
	01.7
	16.1
	17.3
29	03.2
	07.3
	07.9
	08.0
	08.6
	10.6
Nov.	
1	07.6
	21.6
2	02.5
	02.6
	07.9
	12.2
	21.3
3	12.5
	12.6
	12.8
	16.3
4	02.0
	02.0
	11.3
	14.7
	16.7
	18.4
	22.8
5	00.4
	07.5
	14.6
7	12.4
	12.5
8	02.4
	04.5
	14.9
9	00.8
	04.6
	08.9
	10.9
	11.0
	11.1
	11.3
	11.7
	13.8
	21.3
10	04.6

day	hour
COL, cont.	
Nov., cont.	
10	06.2
	06.3
	12.5
11	05.4
	07.6
	21.5
12	09.5
	10.9
	11.7
13	00.3
	10.2
	10.3
	14.5
14	03.1
	09.6
	12.9
	15.1
	21.3
15	04.7
	11.8
16	16.5
17	07.2
	12.1
	18.1
	23.1
18	02.7
	11.8
	16.1
19	00.6
	23.0
	23.9
21	12.6
	14.6
	15.4
22	07.9
	13.9
23	09.1
	10.5
	14.6
	17.1
24	08.0
	09.2
	09.7
	10.1
	12.8
	21.0
	22.5
25	01.5
	02.9
	03.2

day	hour
COL, cont.	
Nov., cont.	
25	08.0
	09.7
	11.7
	14.7
26	07.8
	08.2
	08.5
	12.0
	12.3
	15.9
27	09.0
	09.2
	09.8
	15.1
28	01.5
	12.7
	21.1
	20.3
29	03.7
	12.3
30	02.9
	11.4
	12.8
	12.9
Dec.	
1	05.6
	10.6
2	03.6
	23.0
3	04.8
	05.3
	05.7
	16.1
4	00.3
	04.6
	07.4
	08.3
	10.3
	14.8
	14.9
	20.6
5	00.6
	11.2
	13.1
	13.3
	14.6
6	09.1
	14.9
	19.6
7	09.8

day	hour
COL, cont.	
Dec., cont.	
7	22.4
	23.4
10	19.8
11	03.4
	08.1
	08.5
12	21.3
	21.7
13	04.9
	08.1
	08.6
	16.2
14	02.6
	06.9
15	12.5
	13.6
	21.7
16	08.2
	11.8
	12.7
17	21.3
	21.8
	23.3
18	02.3
	07.3
	14.5
	22.4
	23.8
19	02.1
	04.7
	13.7
20	00.0
	12.7
	13.7
	20.3
21	01.5
	02.7
	06.0
	09.8
	10.3
	11.1
	14.9
22	04.0
	04.5
	07.7
	07.8
	08.7
	10.6
	12.9
	14.0

day	hour
COL, cont.	
Dec., cont.	
22	18.7
	20.7
	22.0
23	02.6
	12.9
	19.4
	23.8
24	02.4
	13.3
	15.1
	16.4
	16.4
	21.6
25	05.2
	23.3
26	01.9
	08.8
	11.0
	12.8
	12.9
27	05.0
	10.6
	10.7
	10.9
	13.2
28	07.6
	07.7
29	02.4
	07.3
	14.0
	19.3
30	01.3
	07.3
	22.8
31	04.0
	06.0
	07.6
	07.7
	12.9
HONO	
Dec.	
10	19.0
HUAN	
Oct.	
5	10.6
6	19.8
8	10.5
11	05.4
12	22.6

Local and Minor Earthquakes, cont.

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		SLC		TUC, cont.		TUC, cont.		TUC, cont.		TUC, cont.	
Oct., cont.		Nov.		Oct., cont.		Oct., cont.		Nov., cont.		Nov., cont.	
13	13.5	2	02.5	16	20.8	27	17.9	3	18.2	13	00.2
16	20.8				21.4		23.9		19.1		00.3
	23.8	SJ		17	10.8	28	00.1		21.7		17.0
18	04.4	Oct.			13.3		00.5		22.1	14	00.4
21	01.8	7	02.7		18.6		02.3		22.3		21.8
23	10.7		08.1		22.9		06.9		23.4	15	03.3
25	17.2	Nov.		18	05.7		07.0	4	04.7		04.8
26	03.8	3	18.6		15.6		08.5		05.0		17.5
27	20.3	5	23.1		17.2		09.4		05.2	16	04.6
Nov.		6	19.4		21.7		12.0		21.1	17	04.0
3	02.2	24	10.0		22.9		13.4		21.3		15.4
6	21.9	Dec.		19	20.0		13.8		23.0	18	06.0
13	19.0	22	18.4	21	18.4		13.9	5	02.2		17.4
15	09.6				20.5		16.0		02.6		18.0
16	06.9	SIT			20.9		16.7		02.7		22.0
	07.4	Nov.		22	18.6		17.6		04.1	19	01.5
20	00.6	5	12.0	23	05.3		21.0		04.5		07.9
	07.8	21	21.2	24	19.2		22.4		06.1		17.2
23	10.2				21.8		23.2		06.7		21.7
24	04.6	TUC		25	16.7	29	01.7		10.0		23.1
26	03.9	Oct.			23.3		02.0		20.1	20	07.8
29	17.5	1	00.1	26	19.1		04.1		22.7		07.9
30	16.9	2	02.4		19.2		07.1	6	07.1		08.1
	21.0		02.6		20.8		07.4		09.1		08.3
	21.0		15.8		21.8		13.0	7	12.0		08.5
Dec.			23.9		22.0		13.3	8	01.3		08.7
2	00.9	3	02.2		23.2		17.9		06.7		08.8
	01.6		02.3		23.9		18.1		10.1		09.0
	12.6		13.8	27	02.0		18.9		19.2		09.1
	18.0	4	17.0		04.8		19.1		19.4		09.2
4	19.3	5	04.2		05.7		19.2		22.2		09.4
5	02.5		16.1		06.0		21.1		22.8		09.5
	22.5		22.0		06.5		21.2		22.8		09.9
7	09.2	7	22.2		08.6		21.4	9	04.0		10.1
8	14.1	8	05.4		08.8		22.5		04.1		10.2
12	03.3		09.9		08.9	31	03.7		11.0		10.4
	06.6	9	18.0		09.0		06.0		23.2		10.8
13	12.2		22.0		09.3		06.8	10	01.1		10.9
	14.0		23.8		09.8		07.7		05.3		11.0
14	16.0	10	16.1		10.0		11.4		12.8		11.4
15	06.0	12	18.2		10.4		12.1	11	05.6		12.2
	21.2		20.5		11.1		13.7		13.1		12.5
18	21.1	13	21.5		11.2	Nov.		12	06.1		12.8
19	10.0		21.8		11.9	1	00.8		15.8		13.3
21	14.4	14	01.1		12.0		03.4		23.7		13.4
	17.7		11.0		12.2		11.0		23.8		13.8
23	08.0		18.4		13.8		20.2	13	00.0		13.9
26	20.2		21.1		15.7		22.3		00.1		14.4
28	07.8	15	06.1		17.0	2	04.9		00.1		15.4
31	11.3	16	20.7		17.4		06.7		00.1		15.5

Local and Minor Earthquakes, cont.

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
TUC, cont.		TUC, cont.		TUC, cont.		TUC, cont.					
Nov., cont.		Nov., cont.		Dec., cont.		Dec., cont.					
20	16.1	25	08.8	6	13.6	25	17.3				
	16.7		09.8		22.6		22.5				
	17.0		23.6	7	05.7	27	19.7				
	18.4		23.6		08.4	28	03.0				
	19.2	26	11.5		08.9		03.2				
	20.8		23.8		17.9		08.7				
	21.8	27	00.0		23.6		17.1				
	22.5		01.8	9	03.2	29	07.7				
	22.6		07.7		04.6		12.9				
21	00.0		17.0		06.7		13.2				
	00.2		21.9		07.2		13.5				
	00.7	28	07.1	10	10.1		15.2				
	01.7		09.3		21.4		17.1				
	05.1		10.5	11	03.3		17.3				
	05.4		16.4		03.4		22.6				
	07.5		19.9		03.6	30	04.5				
	10.0	29	06.8	12	03.6		07.1				
	10.5		16.4		05.3		09.2				
	11.0	30	03.4	13	11.3		09.5				
	11.4		03.4	14	04.9		11.3				
	12.2		14.1		17.6		11.7				
	12.4		15.5	15	23.9		14.1				
	13.2	Dec.		16	00.4		14.7				
	13.8	1	11.6		00.5		14.8				
	16.7		16.0		02.4		16.3				
	20.3		18.5		02.5		18.5				
	22.6		22.4		04.5	31	09.2				
22	03.0		22.6		06.4		09.4				
	03.6	2	04.6		06.5						
	03.9		12.8		08.4						
	06.8		16.9		08.5						
	07.1		20.6		10.4						
	15.4		22.1		10.5						
	18.0	3	19.2		11.7						
	21.8		22.6		12.4						
	23.1	4	00.9		12.5						
23	05.3		01.5	17	15.5						
	06.8		07.1	18	13.9						
	07.1		07.8		19.2						
	09.4		12.1	19	02.8						
	17.6		12.7		19.3						
	19.6	5	01.0	20	07.7						
	21.5		01.7		12.0						
	22.6		05.0	21	07.7						
24	07.1		15.1		11.7						
	09.0		16.9		13.7						
	12.2	6	00.7	24	11.2						
	22.4		04.8		23.9						
25	00.7		05.1	25	11.0						
	04.8		10.4		11.7						

(blasts)