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October, November, December, 1950

MSI - 144

U. S. DEPARTMENT OF COMMERCE
Sinclair Weeks, Secretary

U. S. COAST AND GEODETIC SURVEY—WASHINGTON
R. F. A. Studds, Director

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DEPARTMENT OF COMMERCE

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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, 1950

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Issued by the U. S. Coast and Geodetic Survey
Washington 25, D. C.

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 of 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)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agriculture College
**New Kensington, Pa. (NK)
Private station, Fred Keller, Sr.
*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 magnitude determinations are by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

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.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° ′	° ′	
1	01 35 30**			Samoa Islands region. Felt at Apia.
1	09 28 45**			Samoa Islands. Felt at Apia.
1	13 06 14**			Queen Charlotte Islands region.
2	11 43 30*	21 N.	108½ W.	Off west coast of Mexico.
3	09 03 58**			Western Alaska.
3	11 38 00	39 24 N.	123 51 W.	By Berkley. South of Noyo, Calif. Felt at Fort Bragg. Mag. 2.7
3	11 56 22**			Tonga Islands region.
3	12 40 08*	65½ N.	128 W.	Western Yukon, Canada.
3	23 01 57*	28 N.	96½ E.	Assam.
4	17 10 53**			New Hebrides Islands. h about 100 km.
4	18 03 23*	19 S.	169 E.	New Hebrides Islands.
5	00 41 07*	18½ S.	170 E.	New Hebrides Islands region. Mag. about 6-1/4.
5	16 09 25*	10½ N.	85½ W.	Near coast of Costa Rica. Moderate property damage and several injured at Puntarenas and San Jose. Mag. 7.7
5	16 48 17*	10 N.	85 W.	Near coast of Costa Rica.
5	20 09 13*	10½ N.	85½ W.	Costa Rica aftershock.
5	20 52 30*	10½ N.	85½ W.	Do.
5	23 07 49*	3½ S.	80½ W.	Near coast of Ecuador. Felt.
6	01 39 00	33 57 N.	115 50 W.	By Pasadena. Pinto Mountains, Calif. Mag. 3.4
6	08 16 02*	19½ N.	65 W.	Off northeast coast of Puerto Rico. h about 100 km.
6	11 20 05*	17 N.	68 W.	Mona Passage.
6	12 43 03*	19½ N.	64½ W.	Off northeast coast of Puerto Rico.
6	14 31 47**			Lower California.
6	15 39 44	40 23 N.	124 45 W.	By Berkeley. Off Cape Mendocino, Calif. Mag. 4.1
7	19 58 10*	50 N.	129½ W.	About 50 miles west of Vancouver Island, British Columbia.
8	03 23 07*	4 S.	128 E.	Banda Sea. Felt at Amboina. Mag. 7.6
8	04 50 08**			Northern Assam. Felt.
8	06 40 18	33 09 N.	119 53 W.	By Pasadena. Near San Nicolas Island, Calif. Mag. 3.5
8	07 24 02*	32½ N.	40½ W.	North Atlantic Ocean.
8	07 29 39*	31 N.	41 W.	Do.
8	09 01 29**			Santa Cruz Islands region.
8	11 09 36*	32 N.	40½ W.	North Atlantic Ocean.
8	11 30 51**			Do.
8	11 35 06**			About 400 miles south of Fiji Islands.
8	12 24 19	40 17 N.	124 48 W.	By Berkeley. Off Cape Mendocino, Calif. Mag. 4.6

Date 1950	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Oct.	h m s	° '		° '		
8	14 49 37**					New Britain Island region.
8	16 37 23*	32	N.	41	W.	North Atlantic Ocean.
8	16 40 34*	31	N.	40½	W.	Do.
8	16 49 11*	32	N.	41	W.	Do.
9	17 31 55**					Marianas Islands, about 300 miles north of Guam.
10	16 20 14*	10½	N.	85½	W.	Costa Rica aftershock.
10	18 42 20*	45	S.	167	E.	Near southwest coast of South Island, New Zealand. Felt.
10	23 15 21*	17	S.	179	W.	Fiji Islands. h about 600 km.
11	02 54 18*	5½	N.	83	W.	Off coast of Panama.
11	04 01 00**					Off west coast of Costa Rica.
11	08 09 17**					Southern Alaska. h about 60 km.
11	08 35 11**					Southern Alaska. h about 60 km. Felt at Anchorage.
12	23 49 28*	4	S.	128	E.	Ceram Island region.
13	14 32 48*	10	S.	166	E.	Santa Cruz Islands region.
14	00 22 00**					Mid-Atlantic Ocean.
14	04 59 26*	5	S.	150½	E.	New Britain Island.
14	13 27 07**					Costa Rica aftershock.
14	17 41 36**					Do.
14	17 59 31	33 41	N.	116 47	W.	By Pasadena. Near Hemet Reservoir, Calif. Mag. 3.1
14	20 25 38	32 10	N.	116 34	W.	By Pasadena. Lower California. Mag. 3.8
15	15 59 53*	10	S.	160	E.	Solomon Islands. Mag. about 6½.
15	20 40 11	33.0	N.	115.4	W.	By Pasadena. Near Brawley, Calif. Felt. Mag. 3.8
15	23 42 50**					Tonga Islands.
16	00 48 45	33.0	N.	115.4	W.	By Pasadena. Near Brawley, Calif. Felt. Mag. 3.9
16	05 25 22*	5	S.	80	W.	Near coast of northern Peru. h about 60 km. Felt.
16	07 57 03**					North Atlantic Ocean.
16	15 42 36*	29	N.	95	E.	Sikang province, China.
17	03 54 25*	39½	N.	117½	W.	Central Nevada. Mag. 4.3
17	10 31 46**					Costa Rica aftershock.
17	14 56 10**					Do.
17	15 06 46*	11	N.	88	W.	Off west coast of Costa Rica. h about 150 km.
17	16 35 17*	13	S.	165	E.	Santa Cruz Islands region.
17	22 07 20*	10	N.	85½	W.	Near coast of Costa Rica.
19	03 48 25*	19½	N.	64	W.	Off northeast coast of Puerto Rico.
19	09 51 11*	34	S.	178	W.	Kermadec Islands region.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° ′	° ′	
19	23 13 07	36 43 N.	117 55 W.	By Pasadena. Near Brown, Calif. Mag. 3.2
20	07 44 39*	19½ N.	65 W.	Puerto Rico aftershock.
21	04 12 56*	13½ S.	173½ W.	Tonga Islands. h about 60 km. Mag. about 6½.
21	08 27 13**			Colima, Mexico foreshock.
21	08 57 10**			Colima, Mexico foreshock. Mag. about 5-3/4.
21	09 42 58*	17½ N.	106 W.	Off coast of Colima, Mexico. Mag. about 6-3/4.
21	13 33 51**			Galapagos Islands region.
21	16 01 12*	11½ S.	166½ E.	Santa Cruz Islands. h about 200 km.
22	05 52 03*	35 N.	26 E.	Near coast of eastern Crete. Felt at Sitia and Hierpetra.
22	15 10 47*	43½ N.	153 E.	Kurile Islands region. h about 100 km.
22	18 54 46**			New Hebrides Islands. Depth slightly greater than normal.
23	08 12 50*	39½ N.	117 W.	Central Nevada. Mag. 4.6
23	14 55 30**			Guatemala foreshock.
23	15 03 34**			Do.
23	16 13 18*	14½ N.	92 W.	Near coast of Guatemala. Felt in Chiapas, Mexico. Mag. 7.3
23	17 05 25*	15 N.	91½ W.	Guatemala aftershock.
23	17 47 51*	14½ N.	92 W.	Guatemala aftershock. Mag. about 6½.
23	17 59 36*	14½ N.	92 W.	Guatemala aftershock.
23	19 50 50*	15 N.	91½ W.	Do.
23	21 32 00*	14½ N.	91½ W.	Do.
23	23 38 44*	14½ N.	92 W.	Guatemala aftershock. Mag. 6.1
23	23 49 04**			Guatemala aftershock.
24	00 23 22**			Do.
24	00 52 03*	15 N.	92 W.	Guatemala aftershock. Mag. 6.2
24	01 45 25**			Kermadec Islands region.
24	01 52 02**			Guatemala aftershock.
24	05 50 15*	14½ N.	92 W.	Do.
24	06 16 40**			Do.
24	09 28 49**			Do.
24	15 55 04*	14½ N.	92 W.	Do.
24	22 18 42*	43½ N.	148 E.	Off east coast of Hokkaido, Japan.
25	05 05 02**			Guatemala aftershock.
25	07 03 18*	26 N.	125½ E.	Ryukyu Islands. Felt at Ishigaki Island. h about 100 km.
25	08 44 07*	6½ S.	155 E.	Solomon Islands.
26	02 44 50**			Guatemala aftershock.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
26	03 49 55*	32 S.	178 W.	Kermadec Islands foreshock. Mag. about 6-1/4.
26	07 10 44*	21½ S.	170½ E.	Loyalty Islands region. h about 60 km.
26	11 46 16*	38 N.	143 E.	Off northeast coast of Honshu, Japan. Felt.
26	15 38 43*	31½ S.	178 W.	Kermadec Islands. Mag. 6-1/2 - 6-3/4.
27	05 59 10*	11½ N.	139 E.	Pacific Ocean, about 400 miles southwest of Guam.
27	21 28 41*	15 S.	167 E.	New Hebrides Islands.
27	22 24 53*	23 S.	177 W.	Tonga Islands region.
28	09 05 38*	32 S.	177½ W.	Kermadec Islands.
28	22 15 45*	14½ N.	92 W.	Near coast of Guatemala. Felt. h about 100 km.
30	02 26 10*	14 S.	173½ W.	Samoa Islands region. Felt at Apia. h about 60 km.
30	10 22 57*	13½ S.	69½ W.	Southeastern Peru. h about 150 km.
30	13 50 22*	11 S.	163 E.	Solomon Islands region.
31	04 49 15*	52 N.	174 W.	Andreanof Islands, Aleutian Islands.
31	19 15 16*	½ N.	25½ W.	Mid-Atlantic Ocean.
31	19 35 14**			Gulf of California foreshock.
31	20 22 30*	23½ N.	108 W.	Gulf of California. Mag. about 5½.
Nov. 1	01 22 57**			Guatemala foreshock.
1	12 45 30*	10½ N.	85 W.	Near west coast of Costa Rica. h about 60 km.
1	20 21 22	32 07 N.	116 28 W.	By Pasadena. Baja California. Felt at Campo. Mag. 3.9
2	05 06 22	39 37 N.	119 55 W.	By Berkeley. Western Nevada. Felt at Reno. Mag. 3.9
2	07 07 38*	26½ N.	121 E.	Off northwest coast of Formosa.
2	07 30 56**			Fiji Islands region. h about 600 km.
2	15 27 53*	6½ S.	129 E.	Banda Sea. Felt at Darwin. h about 60 km. Mag. 7.5
2	18 14 07*	6½ S.	129 E.	Banda Sea aftershock. h about 60 km.
2	20 17 27*	30 N.	97½ E.	Sikang province, China.
3	06 29 42*	16 N.	67 W.	About 150 miles southwest of Puerto Rico.
4	07 22 45*	15 S.	168 E.	New Hebrides Islands. h about 150 km.
4	08 56 10**			About 300 miles south of Fiji Islands.
4	13 20 35*	31½ N.	113½ W.	Sonora, Mexico.
5	11 35 40	32 55 N.	115 27 W.	By Pasadena. Southeast of Brawley, California. Mag. 3.4
5	16 35 20*	14½ N.	92 W.	Near coast of Guatemala. Mag. 6-1/4.
5	17 37 25*	33 N.	134½ E.	Off coast of Shikoku, Japan. Felt. Mag. 6.9
6	18 26 58	36 35 N.	115 40 W.	By Pasadena. Near Indian Springs, Nev. Mag. 3.8
6	20 55 46	32 43 N.	117 50 W.	By Pasadena. Northwest of Los Coronados, Calif. Felt at San Diego. Mag. 4.4
6	22 22 05*	7½ S.	155½ E.	Solomon Islands region. Depth slightly greater than normal. Mag. 6-1/2 - 6-3/4.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
7	01 27 37**			Off west coast of Puerto Rico.
7	06 24 40**			Solomon Islands aftershock.
7	15 02 35	33 38 N.	118 01 W.	By Pasadena. Off Huntington Beach, Calif. Felt. Mag. 2.9
7	15 44 37	34 13 N.	118 43 W.	By Pasadena. Near Santa Susana, Calif. Mag. 2.8
7	16 40 55**			Kurile Islands region.
8	01 59 06*	18 S.	168 E.	New Hebrides Islands.
8	02 18 10*	9½ S.	159 E.	Solomon Islands region. Mag. 7-1/4.
8	02 36 00*	9½ S.	159 E.	Solomon Islands aftershock.
8	06 41 08*	9½ S.	159 E.	Do.
8	08 54 43	34 04 N.	118 41 W.	By Pasadena. Near Calabasas, Calif. Mag. 3.1
8	10 07 54**			East-central Turkey.
8	11 49 22*	9½ S.	159 E.	Solomon Islands aftershock.
8	11 53 30*	9½ S.	159 E.	Do.
9	11 00 22**			Andreanof Islands, Aleutian Islands.
9	11 54 53*	46½ N.	150 E.	Kurile Islands. h about 200 km.
9	12 07 46*	9½ S.	159 E.	Solomon Islands aftershock.
9	12 27 00*	48 N.	152 E.	Kurile Islands. h about 200 km.
10	00 35 42	34 08 N.	116 31 W.	By Pasadena. Northeast of Morongo Valley, Calif. Mag. 3.5
10	02 14 17*	20 N.	109½ W.	Revilla Gigedo Islands region. Mag. 5-1/2 - 5-3/4.
10	05 02 05*	16 S.	176 W.	Samoa Islands region. h about 350 km.
10	17 28 15	39 38 N.	119 41 W.	By Berkeley. Western Nevada. Felt at Reno. Mag. 4.0
11	03 38 07*	6 S.	148 E.	Off east coast of New Guinea.
11	09 28 23*	19½ N.	109 W.	Revilla Gigedo Islands. Mag. about 5½.
11	13 51 08*	10½ N.	85 W.	Costa Rica aftershock.
11	14 19 45*	53 N.	161 E.	Off east coast of Kamchatka.
11	19 14 39	34 40 N.	118 50 W.	By Pasadena. South of Gorman, Calif. Mag. 3.3
11	19 32 28	34 40 N.	118 50 W.	By Pasadena. South of Gorman, Calif. Mag. 3.1
12	08 26 26	40.7 N.	124.9 W.	By Berkeley. Off Cape Mendocino, Calif. Felt at Ferndale. Mag. 3.7
12	23 32 28	34 01 N.	116 00 W.	By Pasadena. Little San Bernardino Mountains, Calif. Mag. 3.8
14	02 04 40	40 29 N.	121 30 W.	By Berkeley. Mt. Lassen, Calif. Felt at Mineral. Mag. 4.1
14	02 35 50	40 29 N.	121 30 W.	By Berkeley. Mt. Lassen, Calif. Felt at Mineral, Chester, Lake Almanor, and Butte Valley. Mag. 4.6
14	04 15			By Berkeley. Mt. Lassen aftershock. Mag. 3.2
14	04 23 46*	11 S.	161 E.	Solomon Islands.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
14	04 32 00**			Solomon Islands aftershock.
14	05 35			By Berkeley. Mt. Lassen aftershock. Mag. 3.6
14	06 34 32	40 29 N.	121 30 W.	By Berkeley. Mt. Lassen aftershock. Mag. 4.5
14	08 32 34**			Solomon Islands aftershock.
14	21 55 53	40 29 N.	121 30 W.	By Berkeley. Mt. Lassen aftershock. Felt at Caribou Powerhouse. Mag. 4.0
15	03 22 42	40 29 N.	121 30 W.	By Berkeley. Mt. Lassen aftershock. Mag. 4.1
16	00 57 15**			Marianas Islands region. h about 100 km.
16	05 26 49*	41½ N.	145 E.	Off coast of Hokkaido, Japan. h about 60 km.
16	07 08 29**			Solomon Islands.
16	13 12 11*	32 S.	180	Kermadec Islands region.
17	03 46 51	33 55 N.	118 19 W.	By Pasadena. Near Hawthorne, Calif. Felt at Los Angeles. Mag. 3.8
17	11 57 23	34 08 N.	115 50 W.	By Pasadena. Pinto Mts., Calif. Mag. 3.3
17	15 57 40*	6 N.	36 W.	Mid-Atlantic Ocean.
17	19 28 23*	17½ N.	100½ W.	Near coast of Mexico. Felt on board S.S. Corrientes at 17°00' N., 100°35' W. h about 60 km. Mag. 6-3/4.
17	22 01 04*	39 N.	70 E.	Tadzhik, S.S.R.
18	04 57 52	36 00 N.	116 25 W.	By Pasadena. West of Shoshone, Calif. Mag. 3.5
19	21 34 56**			Tadzhik, S.S.R. aftershock.
19	23 43 31	39 43 N.	125 31 W.	By Berkeley. Off Cape Mendocino, Calif. Mag. 4.2
21	07 10 03*	29 N.	96 E.	China-India border.
21	13 55 58*	20½ S.	65 W.	Southern Bolivia. h about 300 km.
21	22 21 18*	3½ S.	147 E.	Off northeast coast of New Guinea.
22	10 16 28*	51½ N.	176½ W.	Andreanof Islands, Aleutian Islands. Felt on Adak. h about 60 km. Mag. 6-3/4.
23	13 58 24	36 49 N.	121 31 W.	By Berkeley. Southwest of Hollister, Calif. Felt at Hollister and Watsonville. Mag. 4.1
24	13 03 42*	15 S.	173 W.	Samoa Islands. Mag. 6-1/4 - 6-1/2.
24	20 18 48*	15 S.	173 W.	Do.
25	05 21 30**			Samoa Islands region. Felt at Apia.
25	17 18 48**			Eastern Turkey.
26	03 02 04**			Tonga Islands region.
26	06 09 05**			Kermadec Islands region. h about 60 km.
27	02 01 28**			Samoa Islands region.
27	03 28 24**			Do.
27	17 10 03**			Samoa Islands region. Felt at Apia.

Date 1950	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	° '		° '		
27	13 08 19**					Andreanof Islands, Aleutian Islands. Felt on Adak.
28	12 18 45**					Samoa Islands region.
28	17 53 15*	39	N.	28	E.	Western Turkey. Felt.
29	01 37 52*	22	N.	143	E.	Marianas Islands region.
29	18 35 47*	4	S.	128½	E.	Banda Sea.
Dec. 1	14 50 58*	14½	N.	47	W.	Atlantic Ocean. h about 60 km. Mag. 7
1	17 31 13*	52	N.	172	W.	Fox Islands, Aleutian Islands.
1	19 01 10**					Near west coast of Guatemala. h about 100 km.
2	08 30 27*	26	S.	71	W.	Near coast of central Chile. Felt. h about 100 km.
2	15 19 20*	7½	S.	71	W.	Western Brazil. h about 650 km. Mag. 6-3/4.
2	16 17 10*	17	S.	168	E.	New Hebrides Islands.
2	18 40 38*	7½	S.	71	W.	Western Brazil aftershock. h about 650 km.
2	19 51 50*	18	S.	167½	E.	New Hebrides Islands. h about 60 km. Mag. 7-3/4.
2	19 55 28**					New Hebrides Islands aftershock. h about 60 km. Mag. 7-1/4.
2	21 15 13**					New Hebrides Islands aftershock. h about 60 km.
2	21 46 45**					Do.
2	22 09 13**					Do.
2	22 18 12*	18	S.	167½	E.	Do.
2	22 56 08**					Do.
3	03 07 47**					Do.
3	06 26 52*	29	N.	95½	E.	Northern Assam.
3	07 47 36**					New Hebrides Islands aftershock. h about 60 km.
3	08 22 12**					Do.
3	09 40 13**					Do.
3	11 55 18**					Do.
3	13 26 59**					Do.
3	13 31 47**					Do.
3	16 01 31**					Do.
3	20 04 40**					Santa Cruz Islands region.
3	20 25 24**					New Hebrides Islands aftershock. h about 60 km.
4	01 44 06**					Do.
4	03 55 48**					Do.
4	06 47 00**					Northern Alaska Peninsula. h about 100 km.
4	07 38 02*	18	S.	167½	E.	New Hebrides Islands aftershock. h about 60 km.
4	10 18 05*	17	S.	166	E.	New Hebrides Islands. h about 60 km.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° '	° '	
4	11 07 48*	18 S.	167½ E.	New Hebrides Islands aftershock. h about 60 km.
4	13 51 50**			Fiji Islands region.
4	16 21 35*	18½ N.	63 W.	Leeward Islands.
4	16 23 01*	5 S.	153½ E.	New Britain Island region. h about 100 km. Mag. 7.2
4	20 12 16*	17 S.	166½ E.	New Hebrides Islands. h about 60 km.
4	20 38 16**			New Hebrides Islands aftershock. h about 60 km.
4	21 35 12**			Northern Chile-Bolivia border region. h about 150 km.
5	01 34 20**			New Hebrides Islands aftershock. h about 60 km.
5	05 47 04**			Samoa Islands. h about 60 km.
5	08 43 07**			New Hebrides Islands aftershock. h about 60 km.
5	11 55 46**			New Hebrides Islands region.
5	12 06 11**			New Hebrides Islands aftershock. h about 60 km.
5	16 52 18*	18 S.	167½ E.	Do.
5	21 41 30**			Kyushu foreshock.
5	21 53 38*	31 N.	130 E.	Near south coast of Kyushu, Japan.
6	04 00 41**			Solomon Islands region.
6	07 18 41**			New Hebrides Islands aftershock. h about 60 km.
6	16 54 10**			Do.
6	17 44 30**			Off south coast of Honshu, Japan.
6	21 06 07**			New Hebrides Islands aftershock. h about 60 km.
7	04 54.8	32.4 N.	115.1 W.	By Pasadena. Near Volcano Lake, Calif. Mag. 3.9
7	05 04.9	32.4 N.	115.1 W.	By Pasadena. Near Volcano Lake, Calif. Mag. 4.1
8	00 58 40**			New Hebrides Islands aftershock. h about 60 km.
8	04 53 37**			Southern Idaho-Oregon border region.
8	07 09 12*	23 S.	178 W.	Tonga Islands region.
8	08 58 56**			New Hebrides Islands aftershock. h about 60 km.
8	12 49 55*	15 S.	173 W.	Samoa Islands.
8	15 31 39**			New Hebrides Islands aftershock. h about 60 km.
9	05 45 09**			Tonga Islands.
9	17 46 18**			New Hebrides Islands aftershock. h about 60 km.
9	21 38 44*	24 S.	67 W.	Northern Argentina-Chile border. 1 killed and several injured at Calama, Chile. Also felt at Arica, Chile and on board S.S. Santa Margarita at 22°42' S., 71°10' W. h about 100 km. Mag. 8.0
10	02 50 40*	14 S.	76 W.	Near coast of southern Peru. 4 killed, 12 injured and moderate property damage at Ica. h about 60 km.
10	05 09 02**			Solomon Islands region. h about 60 km.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° ′	° ′	
10	06 45 11*	19½ N.	155½ W.	Hawaiian Islands. Felt.
10	08 31 10	33 21 N.	116 25 W.	By Pasadena. West of Clark Lake, Calif. Mag. 3.4
10	08 41 40*	54½ N.	161½ E.	Near east coast of Kamchatka.
10	09 08 45*	77 W.	15 S.	Near coast of southern Peru.
10	09 45 44**			New Hebrides Islands aftershock. h about 60 km.
10	11 16 44**			New Hebrides Islands. h about 60 km.
10	13 23 10*	28½ S.	179 W.	Kermadec Islands region. h about 300 km. Mag. 7-1/4.
10	21 04 53**			Salta province, Argentina.
11	03 32 55*	23 S.	68 W.	Northern Argentina-Chile border. h about 200 km.
11	07 25 06*	19½ N.	155½ W.	Hawaiian Islands. Felt.
11	14 46 41*	8 S.	71 W.	Western Brazil. h about 650 km. Mag. 6-1/4.
11	22 29 01	40 05 N.	120 04 W.	By Berkeley. Herlong foreshock. Felt at Doyle. Mag. 4.1
14	00 31 53*	19 S.	171 E.	New Hebrides Islands region.
14	01 52 46*	19½ S.	176 W.	Tonga Islands region. Felt at Nukualofa and Apia. h about 200 km. Mag. 7.7
14	03 00 26**			Tonga Islands aftershock. h about 200 km.
14	08 59 34	40 05 N.	120 04 W.	By Berkeley. Herlong foreshock. Felt at Wendel. Mag. 4.5
14	09 19 59	40 05 N.	120 04 W.	By Berkeley. Herlong foreshock. Mag. 4.0
14	09 29 51	40 05 N.	120 04 W.	By Berkeley. Herlong foreshock. Felt at Vinton. Mag. 4.0
14	13 10 38	40 05 N.	120 04 W.	By Berkeley. Herlong foreshock. Mag. 4.0
14	13 24 19	40 05 N.	120 04 W.	By Berkeley. Near Herlong, Calif. Felt in northeastern California and western Nevada. Slight damage at Herlong. Mag. 5.6
14	13 56 23	35 03 N.	119 10 W.	By Pasadena. Near Wheeler Ridge, Calif. Mag. 4.4
14	14 15 48*	17 N.	98½ W.	Oaxaca, Mexico. Felt in central and southeastern Mexico. Slight damage in the Federal District. Mag. 7.3
14	16 41 11	40 05 N.	120 04 W.	By Berkeley. Herlong aftershock. Mag. 4.1
15	01 38 01**			Bonin Islands region. h about 100 km.
15	09 34 32**			Herlong aftershock.
15	09 49 40**			Southern Mexico aftershock.
15	18 01 15	40 05 N.	120 04 W.	By Berkeley. Herlong aftershock. Felt at Herlong and Wendel. Mag. 4.4
15	23 51 52**			Argentina-Bolivia border. h about 200 km.
16	07 17 00**			Southern Mexico aftershock.
16	10 49 01*	43½ N.	127 W.	Off coast of Oregon.
17	01 08 01*	17 N.	98½ W.	Southern Mexico aftershock. Mag. about 6-1/4.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° ′	° ′	
18	02 29 53**			Kermadec Islands.
18	08 04 46*	15 N.	90 W.	Guatemala. h about 200 km.
18	15 25 15**			About 600 miles off coast of southern Chile.
18	15 44 39*	4 S.	128½ E.	Near south coast of Ceram Island.
19	09 18 25**			Samoa Islands. Felt at Apia.
19	19 43 53*	49 N.	129 W.	Off coast of Vancouver Island. British Columbia.
19	21 27 19*	54 N.	35 W.	North Atlantic Ocean.
20	02 13 06**			Southern Mexico aftershock.
20	18 17 52			Do.
21	11 36 48*	29½ S.	71 W.	Central Chile. Felt. h about 100 km.
21	23 57 06**			Off south coast of Mexico.
22	02 05 36	33 25 N.	116 34 W.	By Pasadena. Southwest of Santa Rosa Mt., Calif. Felt in Santa Rosa Mts., and at Campo and Hemet. Mag. 4.0
22	07 56 05*	3 N.	95 W.	Galapagos Islands region.
22	09 10 37*	8 N.	91½ E.	Nicobar Islands.
22	12 27 04	36 04 N.	118 01 W.	By Pasadena. Near Haiwee, Calif. Mag. 3.2
22	17 33 48**			Kermadec Islands.
23	08 53 00*	38 N.	140½ E.	Northern Honshu, Japan.
23	17 46 10*	21 S.	179½ W.	Fiji Islands region. h about 600 km.
24	05 10 03**			Off south coast of Kyushu, Japan.
24	09 16 20**			Kyushu, Japan.
24	16 33 48**			Ascension Island.
24	20 36 44*	18½ S.	168½ E.	New Hebrides Islands.
25	00 16 09	37 20 N.	118 04 W.	By Pasadena. Near Deep Springs, Calif. Mag. 3.5
26	06 18 35**			Southeastern Peru.
26	12 05 49	33 57 N.	117 35 W.	By Pasadena. North of Arlington, Calif. Felt at Riverside. Mag. 3.1
26	12 26 14	37 16 N.	118 33 W.	By Pasadena. Southwest of Bishop, Calif. Mag. 3.0
26	13 51 43*	17 N.	98 W.	Southern Mexico aftershock. Felt. Mag. 6-1/2.
27	04 34 07*	20 S.	70 W.	Northern Chile. h about 100 km.
27	23 10 02**			Leeward Islands foreshock. h about 100 km.
27	23 19 24**			Do.
28	02 31 22**			Off southeast coast of Kamchatka.
28	14 17 26*	7½ S.	71 W.	Western Brazil. h about 650 km. Mag. 6-1/4.

Date 1950	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Dec.	h m s	° '	° '	
28	21 06 16*	15 S.	76 W.	Near coast of southern Peru. h about 60 km.
28	22 41 11*	23 N.	142¼ E.	Volcano Islands region. h about 100 km.
29	11 15 10**			Tonga Islands.
29	11 56 03*	32¼ N.	87¼ E.	Tibet.
29	20 16 30*	17 N.	62¼ W.	Leeward Islands. h about 100 km.
30	03 48 09	33 57 N.	116 30 W.	By Pasadena. Near Desert Hot Springs, Calif. Felt at Whitewater. Mag. 3.7
30	06 42 51*	31 S.	176½ W.	Kermadec Islands region. h about 60 km.
30	13 02 19*	1 S.	77 W.	Central Ecuador. h about 200 km.
30	16 08 52	36 26 N.	118 13 W.	By Pasadena. Near Cottonwood Lakes, Calif. Felt at Cottonwood. Mag. 3.2
30	21 14 44*	18½ S.	175½ W.	Tonga Islands region. h about 250 km.
31	09 46 29**			Leeward Islands aftershock. h about 100 km.

Date and Station	Phase	(GCT) h m s
Oct. 1		
COL	e(P)	01 37 23
PHIL	eL	01 30 15
Oct. 1, H = 01 35 30** Samoa Islands regions. Felt at Apia.		
BC	eP	01 47 08
	e	47 13
	e	47 15
COL	eP	01 47 42
OV	eP	01 47 12
PF	iP	01 47 12.0
SH	eP	01 46 54
TUC	eP	01 47 15
	e	47 22
	eL	02 10 53
Oct. 1, H = 09 28 45** Samoa Islands. Felt at Apia.		
BC	eP	09 40 12
COL	eP	09 40 51
HH	eP	09 40 50
OV	iP	09 40 15.6
PF	iP	09 40 16.4
SH	eP	09 39 59
TUC	eP	09 41 18
Oct. 1, H = 13 06 14** Queen Charlotte Islands region.		
BC	eP	13 11 01
COL	eP	13 09 46
	eL	14 11
HH	eP	13 09 18
	eL	12 32
OV	iP	13 10 57.8
PF	eP	13 11 04
SH	eP	13 09 33
Oct. 1		
COL	eP	14 19 27
HH	eP	14 14 33
	iP	14 35
	e	17 57
OV	eP	14 16 13
PF	eP	14 16 32
Oct. 1		
HH	iP	19 15 58
Oct. 2		
HH	iP	00 48 23
Oct. 2		
COL	eL	06 41 53
Oct. 2		
HH	iP	08 57 40
Oct. 2		
BH	eP	10 16 54
	eS	17 51
Oct. 2		
PHIL	eL	10 59 18
Oct. 2, H = 11 43 30* 21°N, 109½°W. Off west coast of Mexico.		
BC	eP	11 47 20
	eL	50 46
BUT	eL	11 58 52
CHI	e(S)	11 54 45
	eL	55 25
COL	eP	11 52 43
	eL	12 09 28
HH	eP	11 49 21
LIN	eL	11 52 53
LOG	eP	11 48 22
	eL	52 26
OV	iP	11 47 26.8
	e(S)	50 37
	eL	53 49
PF	iP	11 47 20.3
	eL	53 49
SLC	e(P)	11 48 12
	e(S)	52 04
	eL	54 16
SH	eP	11 48 38
TUC	iP	11 46 21
	eL	49 04
Oct. 2		
HH	eP	13 02 08
OV	iP	13 01 20.4
TUC	eP	13 00 49
Oct. 2		
OV	e(P)	13 41 17
PF	e(P)	13 41 17
Oct. 2		
COL	e(P)	14 01 14
	e	05 55
Oct. 2		
HH	e(P)	17 19 38
Oct. 2		
SJ	eP	21 50 39
	e(S)	51 25
	eL	51 34
Oct. 2		
OV	eP	21 58 24
PF	iP	21 58 20.8
Oct. 2		
BC	eP	23 24 19
OV	eP	23 24 17
PHIL	eL	23 57 35
PF	iP	23 24 18.5
SH	iP	23 24 01
TUC	e(P)	23 24 22
Oct. 3		
HH	eP	02 42 52
	e(S)	44 34
SJ	eP	02 44 46
	eS	45 30
	eL	45 37
Oct. 3		
PF	iP	03 20 56.7
	e	24 11
Oct. 3		
HH	eP	06 33 10
Oct. 3, H = 09 03 58** Western Alaska.		
BC	eP	09 11 42
BUT	eL	09 21 18
COL	eP	09 05 33
	eS	06 24
	iS	06 25
	eL	06 43
HH	eP	09 10 17
OV	iP	09 11 39.8
PHIL	eL	09 33 03
PF	iP	09 11 44.4
SH	iP	09 10 42
SIT	eL	09 12 10
TUC	eP	09 12 22
WASH	eL	09 32 09
Oct. 3		
COL	e(P)	11 26 39
Oct. 3, H = 11 38 00 By BERK, 39°24'N, 123°51'W. South of Noyo, Calif. Felt at Fort Bragg. Mag. 2.7		
SH	eP	11 38 28
UK	eP	11 38 28
	e(S)	38 34
Oct. 3, H = 11 56 22** Tonga Islands region.		
BC	e(P)	12 08 13
COL	eP	12 08 51
HH	eP	12 08 51
OV	iP	12 08 16.3
PF	iP	12 08 16.6
SH	iP	12 08 01
TUC	eP	12 08 18
Oct. 3, H = 12 40 08* 65½°N, 128°W. Western Yukon, Canada.		
BC	eP	12 46 18
	e	46 23
BOZ	e(P)	12 45 14
	e(S)	49 06
	eL	50 20
CHI	eL	12 53 38
COL	eP	12 42 07
	iP	42 08
	eS	43 43
	eL	44 21
HH	eP	12 44 26
	e	47 34
	eL	48.5
LOG	e	12 45 41
	eL	52 55
OV	iP	12 46 21.3
	e(S)	50 46

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Date and Station	Phase	Phase (GCT) h m s
OV	eL	12 56 27
PHIL	eL	12 56 45
PF	iP	12 46 25.5
	eL	56 20
RC	e(P)	12 45 44
	e	46 21
	eS	50 07
	eL	51 05
SLC	eL	12 54 20
SH	eP	12 45 35
SIT	eP	12 42 36
	iS	44 54
	eL	45 22
TUC	eP	12 47 03
	eL	59 08
WASH	eL	12 58 32
Oct. 3		
SLC	eL	18 47 50
Oct. 3, H = 23 01 57* 28½°N, 96½°E. Assam.		
COL	eP	23 13 40
	iP	13 41
	eS	23 19
	eL	40 41
HH	eP	23 15 42
	e	19 42
OV	e(P')	23 21 12
PF	eP'	23 20 41.1
TUC	eP'	23 20 40
Oct. 4		
COL	eP	00 19 32
OV	e(P)	00 19 07
PF	e(P)	00 17 07
Oct. 4		
BC	e(P)	06 17 23
LIN	eL	06 25 59
OV	eP	06 17 28
PF	eP	06 17 21
TUC	e(P)	06 16 22
	eL	20 15
Oct. 4		
OV	e(P)	07 18 20
Oct. 4		
PF	e(P)	07 42 10

Date and Station	Phase	Phase (GCT) h m s
Oct. 4		
PF	e(P)	10 00 00
Oct. 4		
OV	e(P)	13 50 38
PF	e(P)	13 50 41
TUC	e(P)	13 49 41
Oct. 4		
COL	iP	14 37 15
Oct. 4, H = 17 10 53** New Hebrides Islands. h about 100 km.		
BC	eP	17 23 45
COL	eP	17 23 29
	epP	24 08
HH	eP	17 24 45
OV	eP	17 23 49
	ipP	24 44.5
PF	eP	17 23 48
	ipP	24 23.5
SH	eP	17 23 57
TUC	eP	17 24 34
Oct. 4		
OV	e(P)	18 14 43
PF	e(P)	18 14 40
TUC	e(P)	18 14 47
Oct. 4, H = 18 03 23* 19°S, 169°E. New Hebrides Islands.		
BC	eP	18 17 06
BOZ	eL	18 48 57
COL	eP	18 17 02
	eSKS	27 40
	eL	43 30
OV	iP	18 17 08.5
PHIL	eL	19 05 (16)
PF	iP	18 17 08
SH	eP	18 16 49
SIT	eL	18 40 02
TUC	eP	18 17 14
	ePP	21 06
	eL	46 00

Date and Station	Phase	Phase (GCT) h m s
Oct. 5, H = 00 41 07* 18½°S, 170°E. New Hebrides Islands region. Mag. about 6-1/4.		
BER	eSS	01 18 27
	eL	35 15
BC	eP	00 54 09
BOZ	eSKS	01 05 15
	e	05 33
	e(SS)	12 57
	eL	25 12
BUR	eSS	01 18 13
	eL	36 00
BUT	eS	01 05 50
	eL	25 08
CHI	eP'	01 09 57
	eSS	16 02
	eL	34 43
COL	eP	00 54 09
	ePP	57 31
	eSKS	01 04 29
	eS	10 37
	eL	18 03
COLU	eL	01 35 22
HONO	eS	00 57 40
	e	59 28
	eL	01 02 35
HH	eP	00 54 48
	ePP	58 29
LIN	e	01 07 38
	eSS	14 34
	eL	30 10
OV	eP	00 54 11
	ePP	57 12
	eP'P'	01 19 27
PHIL	e(SS)	01 19 (10)
	e	27 (11)
	eL	32 (14)
PF	iP	00 54 12.2
	eP'P'	01 19 42
RC	e(S)	01 07 02
	eL	29 22
SLC	eS	01 05 24
	e	05 50
	eL	24 12
SJ	ePP	01 02 38
	eL	40 25
SH	eP	00 53 53

Date and Station	Phase	Phase (GCT) h m s
SIT	eS	01 04 56
	eSS	10 44
	eL	17 36
TUC	eP	00 54 17
	e(PP)	58 20
	eS	01 05 19
	ePS	06 23
	eSS	11 27
	e	11 56
	e(P'P')	18 27
	eL	22 52
UK	e(S)	01 04 34
	eL	15 56
WASH	eL	01 40 12
Oct. 5		
OV	e(P)	04 49 29
PF	e(P)	04 48 14
Oct. 5		
HH	eP	06 48 11
Oct. 5		
COL	eP	11 13 18
	i	13 33
	e	13 57
HH	eP	11 12 30
Oct. 5		
HH	eP	14 42 12
Oct. 5, H = 16 09 25* 10½°N, 85½°W. Near coast of Costa Rica. Moderate property damage and several injured at Puntarenas and San Jose. Mag. 7.7		
BH	iP	16 10 53
	iL	12 25
BER	iP	16 15 37
	iS	20 54
	iL	21 35
T_P = 5 sec. A = 19.6mm.		
BC	eP	16 16 40
	iP	16 43
	i	17 40
	ePcP	18 50
	e(S)	22 54
	eL	26.0
BOZ	eP	16 17 16
	iP	17 21
	ePP	19 03
	i	19 07
	i(PcP)	19 16
	iS	23 46
	iL	26 57

Date and Station	Phase	Phase (GCT) h m s
BUR	iP	16 16 32
	iPP	17 42
	i	17 51
	i	21 08
	i(S)	22 11
	i	22 23
	iL	24 13
BUT	eP	16 17 26
	e	18 10
	e(PP)	18 36
	i	19 28
	e(S)	23 10
	iS	23 58
	eL	26 06
CHI	iP	16 15 48
	iPP	16 46
	iS	20 34
	iL	22 24
COL	iP	16 20 34
	ePP	23 10
	i(PP)	23 22
	ePPP	24 54
	iS	29 29
	e(SS)	35 17
	iL	37 51
	e	39 55
	eP'P'	48 50
COLU	iP	16 14 47
	iPP	15 15
	i(PcP)	18 15
	iS	19 06
	iL	20 11
HONO	eP	16 20 48
	i	21 25
	e(PP)	23 40
	eS	29 50
	i(S)	30 05
	eSS	34 25
	eL	37 43
T_S = 14 sec. A = 9.0mm.		
T_L = 18 sec. $A_{max.}$=19.0mm		
HH	eP	16 17 44
	iP	17 46
	iPP	19 14
	i	23 22
LIN	iP	16 15 54
	ePP	16 52
	eS	20 36
	iL	21 38
LOG	eP	16 16 53
	iP	16 54
	i	17 16
	iPP	18 23
	iPPP	18 58
	eS	23 06
	iS	23 07
	iL	24 08
OV	iP	16 16 41.7
	iS	22 55.2
PHIL	iP	16 15 49
	i(S)	20 16
	iL	21 19
PF	iP	16 16 36.9
	iPP	18 02
	iS	22 26.4
	i	22 51.9
RC	iP	16 16 39
	i	17 09
	iPP	17 57
	iS	22 23
	eL	24 09
SLC	iP	16 16 51
	e	17 32
	ePP	18 24
	e	19 40
	eS	22 32
	i	23 00
	eL	25 36
SJ	iP	16 14 05
	i	14 10
	eS	18 07
	eL	19 10
SH	eP	16 17 40
	iP	17 43
	iPP	19 29
	i	23 24
	eL	26 00
SIT	eP	16 19 38
	ePcP	20 28
	i(PcP)	20 33
	ePP	21 56
	ePPP	23 12
	iS	27 56
	i(ScS)	29 49
TUC	eP	16 15 57
	iP	15 58
	i	16 35
	i(PP)	17 22
	i(PcP)	18 57
	iS	21 22
	iL	22 58
UK	eP	16 17 44
	e	18 30
	iPP	19 41
	e(S)	24 28
	i	24 40
	eL	27 49
WASH	iP	16 15 34
	i(PP)	16 17
	i	17 08
	iS	20 13
	i	21 09
	iL	23 16
Oct. 5		
BH	eP	16 41 52
Oct. 5, H = 16 48 17* 10°N, 85°W. Near coast of Costa Rica.		
BH	eP	16 49 07
BC	eP	16 55 35
COL	eP	16 59 28
HH	iP	16 56 38
OV	iP	16 55 36
PF	eP	16 55 02
	i	55 31.9
	e	57 02
SH	eP	16 55 14
TUC	eP	16 54 53
	iP	54 54
WASH	i(P)	16 54 25
Oct. 5		
BH	eP	17 02 43
TUC	e(P)	17 07 59
Oct. 5		
BH	eP	17 35 51
Oct. 5		
BH	eP	18 41 44
BC	eP	18 49 40
COL	eP	18 54 16
	e	54 25
HH	eP	18 51 10
	i	51 16
OV	eP	18 49 42
	eL	57 37
PF	iP	18 49 37.5
	i	49 46.7
	eS	57 02
	i	57 27.9
TUC	eP	18 48 48
	eL	53 07
Oct. 5		
BH	eP	19 49 59
OV	eP	19 55 15
PF	eP	19 55 01
TUC	eP	19 54 42
Oct. 5, H = 20 09 13* 10½°N, 85½°W. Costa Rica aftershock.		
BER	e(P)	20 15 19
BER	e	20 16 24
	eL	22 17
BC	eP	20 16 28
CHI	eP	20 15 34
	ePP	16 38
	eS	21 06
	eL	23 50
COL	eP	20 20 20
	e(PP)	22 43
COLU	e(P)	20 14 33
	e(S)	19 08
	eL	22 00
HH	eP	20 17 31
	e	23 06
LOG	eP	20 16 40
OV	iP	20 16 28.8
PHIL	e(S)	20 21 04
	eL	25 04
PF	iP	20 16 22.6
	i	16 35
	i(PP)	18 02
RC	eP	20 16 31
	e(S)	22 35
	eL	24 37
SLC	eP	20 16 34
	eL	29 46
SJ	eP	20 13 54
	iPP	14 14
	eS	17 54
	eL	19 00
SH	iP	20 17 26
	iPP	19 11
TUC	eP	20 15 44
	iP	15 45
	eS	20 42
WASH	iP	20 15 21
	i	15 31
	ePP	16 10
	i	16 30
	eS	20 04
	eL	26 43
Oct. 5, H = 20 52 30* 10½°N, 85½°W. Costa Rica aftershock.		
BH	eP	20 53 45
COL	e(P)	21 03 42
PF	eP	20 59 40.3

Date and Station		Phase (GCT)
		h m s
SJ	eP	20(57)57
	eS	21 00 49
	eL	02 20
TUC	eP	20 59 03
WASH	iP	20 58 39
Oct. 5		
COL	eP	22 30 15
HH	e(P)	22 27 27
TUC	e(P)	22 24 52
WASH	e(P)	22 19 11
	i	20 14
Oct. 5		
COL	e(P)	22 48 52
Oct. 5, H = 23 07 40* 3½°S., 80½°W. Near coast of Ecuador. Felt.		
BH	iP	23 10 49
BER	e(PP)	23 16 53
	eL	24 34
BC	eP	23 16 52
	i	17 02
COL	eP	23 20 17
	ePP	23 43
	eL	49 51
HH	eP	23 17 53
	i	18 03
LOG	eP	23 17 08
PF	iP	23 16 47.7
SJ	e	23 14 27
	i	14 41
	eS	18 12
	eL	18 48
SH	eP	23 17 53
SIT	eL	23 52 28
TUC	eP	23 16 12
	e	16 21
	eL	31 13
WASH	iP	23 15 44
	i	15 57
Oct. 6		
BH	eP	00 44 08
HH	eP	00 51 01

Date and Station		Phase (GCT)
		h m s
Oct. 6, H = 01 39 00 By PAS, 33°57'N, 115°50'W. Pinto Mountains, Calif. Mag. 3.4		
BC	iP	01 39 42
TUC	eL	01 40 29
Oct. 6		
COL	e(P)	02 43 43
Oct. 6		
COL	eP	04 21 36
Oct. 6		
SJ	eP	04 28 45
	eS	29 15
	eL	29 36
Oct. 6, H = 08 16 02* 19½°N, 65°W. Off northeast coast of Puerto Rico. h=about 100 km.		
BER	eP	08 19 10
	e(S)	21 08
	eL	21 10
BUT	eL	08 30 45
COL	eP	08 27 03
	eL	44 21
HH	eP	08 24 59
LOG	eP	08 24 13
PHIL	eP	08 21 13
	eS	25 03
	eL	26 16
PF	eP	08 24 23
SJ	iP	08 16 26
	iS	16 43
	iL	16 49
SH	eP	08 25 15
SIT	eL	08 49 48
TUC	eP	08 23 56
	ePP	26 08
	eL	48 18
WASH	eP	08 20 51
Oct. 6		
COL	e(P)	10 23 16
Oct. 6, H = 11 20 05* 17°N, 68°W. Mona Passage		
BER	eL	11 26 50

Date and Station		Phase (GCT)
		h m s
BC	eP	11 28 28
COL	eP	11 31 20
	eL	52 09
HH	eP	11 28 52
LOG	eP	11 28 17
PHIL	eS	11 29 28
	eL	33 49
PF	iP	11 28 22.9
SJ	eP	11 20 43
	iS	21 04
	iL	21 44
SH	iP	11 29 16
TUC	eP	11 27 55
	eL	49 05
WASH	eP	11 25 13
Oct. 6, H = 12 43 03* 19½°N, 64½°W. Off northeast coast of Puerto Rico.		
BER	eP	12 46 08
	eL	48 21
COL	eP	12 54 15
	eL	13 16 03
HH	eP	12 48 34
PF	eP	12 51 33
SJ	iP	12 43 36
	iS	43 53
	eL	44 18
TUC	eP	12 51 09
	eL	13 00 39
Oct. 6, H = 14 31 47** Lower California.		
BC	eP	14 34 13
HH	eP	14 36 42
PF	iP	14 34 11.2
TUC	iP	14 33 13
	eL	34 30
Oct. 6, H = 15 39 44 By BERK, 40°23'N, 124°45'W. Off Cape Mendocino, Calif. Mag. 4.1		
SH	iP	15 40 16

Date and Station		Phase (GCT)
		h m s
Oct. 6		
PF	e(P)	18 12 21
Oct. 6		
COL	iP	19 54 11
OV	iP	19 53 52.7
PF	iP	19 53 52.7
TUC	e(P)	19 53 56
Oct. 6		
COL	e(P)	20 15 48
Oct. 6		
HH	e(P)	23 43 09
Oct. 6		
COL	e(P)	23 53 05
Oct. 7		
COL	eP	02 27 18
	i	27 21
	i(S)	27 39
	e(L)	27 49
Oct. 7		
PF	e(P)	04 44 31
TUC	e(P)	04 43 57
Oct. 7		
COL	e(P)	07 49 05
HH	eP	07 46 20
	i	48 25
PHIL	eL	07 57 29
PF	e(P)	07 45 01
TUC	e(P)	07 44 26
	eL	57 10
Oct. 7		
COL	iP	09 45 27
PF	eP	09 45 05
SH	i(P)	09 44 49
TUC	eP	09 45 07
Oct. 7		
BH	eP	13 55 14
COL	eP	14 05 12
HH	e(P)	14 02 20
OV	e(P)	14 02 01
PF	i(P)	14 01 13.8
SH	i(P)	14 01 38
TUC	eP	14 00 35

Date and Station	Phase	Phase (GCT) h m s
Oct. 7		
HH	eP	16 14 06
Oct. 7, H = 19 58 10* 50°N, 129½W. About 50 miles west of Vancouver Island, British Columbia.		
COL	eP	20 02 14
	eL	07 03
HH	eP	20 01 41
	iS	04 00
LOG	eP	20 01 42
OV	iP	20 02 20.7
PF	iP	20 02 27.0
RC	eP	20 02 35
SH	eP	20 00 51
TUC	eP	20 03 16
Oct. 7		
HH	eP	21 42 33
SH	e(P)	21 42 19
Oct. 7		
COL	eP	22 03 01
Oct. 7		
HH	eP	22 38 52
SH	e(P)	22 38 50
Oct. 8		
COL	e(P)	00 20 24
Oct. 8		
COL	iP	00 35 27
	i	36 30
Oct. 8		
HH	eP	02 12 50
Oct. 8, H = 03 23 07* 4°S, 128°E. Banda Sea. Felt at Amboina. Mag. 7.6		
BH	eP'	03 42 36
BER	eP'	03 43 03
	i	43 20
	iPP	46 45
	eSKS	50 17
	eSKSP	57 03
	e	59 29
	ePPS	59 50
	eSS	04 05 21
	eSSS	12 00
	eL	25 11

Date and Station	Phase	Phase (GCT) h m s
T_P = 13 sec. A = 5mm. T_{PP} = 12 sec. A = 5.5mm. T_{SKS}=11 sec. A = 3.1mm. T_L = 28 sec. $A_{max.}$=3.9mm.		
BC	eP	03 38 01
	iP'	41 52
	ePP	42 43
BOZ	ePP	03 42 51
	eSKS	48 51
	eSKKS	49 35
	iPS	52 19
	iPPS	53 34
	e(SS)	59 07
	eSSS	04 03 03
	eL	09 47
BUR	eP'	03 42 37
	ePP	45 18
	iPKS	46 07
	e(SKS)	50 13
	iPPS	57 23
	iSS	04 03 13
	i(SSS)	08 35
	eL	17 50
BUT	ePP	03 42 25
	e	43 04
	eSKS	48 28
	eSS	57 28
	eSSS	04 02 27
	eL	09 13
CHI	ePP	03 44 34
	ePKS	45 42
	iPKS	45 47
	eSKKS	51 34
	eSS	04 02 28
	eSSS	07 18
	eL	17 54
COL	eP	03 36 12
	iP	36 14
	ePP	39 33
	i	39 53
	ePPP	41 54
	eS	46 59
	i(SS)	53 19
	ePKKP	53 37
	eL	04 01 23
	iP'P'	02 12
COLD	eP	03 42 34
	ePP	45 36
	iPKS	46 23
	eSKS	50 04
	eSKSP	55 17
	eSS	04 03 45
	e(SSS)	09 [illegible]
	eL	18 07
HONO	iP	03 35 00
	e	35 42
	e	35 31
	e	36 06
	ePP	38 43
	e	39 14

Date and Station	Phase	Phase (GCT) h m s
HONO	eS	03 44 28
	e	45 34
	eSS	49 49
	e(SSS)	52 51
	eSSS	52 58
	eL	54 55
T_P = 6 sec. A = 3.5mm. T_S = 12 sec. A = 8.5mm. T_L = 21 sec. $A_{max.}$=5.5mm.		
HH	eP	03 37 50
	iP'	41 40
	ePP	42 17
	eSKS	48 23
LIN	ePP	03 44 08
	e	52 20
	e(SS)	04 01 50
	e(SSS)	06 02
	e	09 58
	eL	22 46
LOG	eP	03 38 01
	e(P')	41 37
	eP'	41 48
	iPP	42 47
	e	50 03
	iPS	52 21
	ePSPS	59 12
	eSSS	04 03 09
	eL	12 02
OV	eP	03 38 01
	iP'	41 52
	ePP	42 52
	e(S)	50 04
	iPKKP	52 39
PHIL	eP	03 42 37
	ePP	45 23
	iPP	45 26
	iPKS	46 18
	e(SKKS)	52 20
	eSKSP	55 21
	iPS	56 02
	iPPS	57 45
	eSS	04 03 50
	iPSPS	04 31
	i	05 29
	eL	19 51
PF	eP	03 38 05
	iP'	41 53
RC	eP'	03 42 14
	iPP	43 31
	e(SKS)	48 31
	iPS	53 17
	eSS	04 00 13
	eSSS	04 59
	eL	13 23
SLC	ePP	03 42 28
	iPP	42 52
	e	47 12
	ePS	52 28
	iPS	52 40

Date and Station	Phase	Phase (GCT) h m s
SLC	eSS	03 59 00
	eSSS	04 02 56
	eL	09 54
SJ	eP'	03 43 10
	iP'	44 00
	e	48 33
	ePPP	51 15
	e	53 34
	eSKSP	57 32
	e	04 02 24
	e(SS)	08 00
	eL	30 12
SH	eP	03 37 30
	iP	41 36
	i	45 44
	eS	49 41
SIT	eP	03 36 42
	iPP	40 36
	iPPP	43 12
	e	46 12
	eSKS	47 25
	iSKS	47 27
	ePS	49 12
	iPS	49 28
	e	53 00
	eSS	54 38
	eL	04 03 12
TUC	eP	03 38 23
	eP'	41 52
	iP'	41 59
	ePP	43 10
	iPP	43 11
	i	46 59
	eSKS	49 04
	e(S)	50 29
	eS	51 08
	ePKKP	52 22
	ePS	53 04
	iPS	53 08
	eSS	04 00 26
	e	01 55
	eL	10 36
UK	eP	03 37 30
	ePP	41 45
	eSKS	48 09
	ePS	51 09
	eSS	57 19
	iSSS	04 01 18
	eL	06 46
WASH	iP'	03 42 36
	iPP	45 20
	eSKKS	52 12
	iPPS	57 56
Oct. 8		
BH	eP	04 28 40
Oct. 8, H = 04 50 08** Northern Assam. Felt.		
BC	e	05 09 10
	ePP	09 19

Date and Station		Phase (GCT)
		h m s
COL	iP	05 01 58
HH	eP	05 03 57
	iPP	07 49
OV	ePP	05 09 04
	iPP	09 22.6
PF	iPP	05 09 25.2
SH	ePP	05 08 19
TUC	ePP	05 08 59
Oct. 8		
BH	eP	05 44 10
Oct. 8		
BC	e(P)	06 39 33
OV	iP	06 41 45.0
	e(S)	42 30
PF	e(P)	06 39 31
Oct. 8		
BER	e	07 15 29
Oct. 8, H = 06 40 18 By PAS, 33°09'N, 119°53'W. Near San Nicolas Island, Calif. Mag. 3.5		
BC	eP	06 41 37
	e	43 13
PF	iP	06 41 45.5
	e	42 51
Oct. 8		
COL	eP	07 18 26
Oct. 8, H = 07 24 02* 32½°N, 40½°W. North Atlantic Ocean.		
BER	eP	07 28 42
	eL	33 09
BC	eP	07 34 12
COL	eP	07 35 04
HH	eP	07 33 43
OV	eP	07 34 11
TUC	eP	07 33 59
Oct. 8, H = 07 29 39* 31°N, 41°W. North Atlantic Ocean.		
BC	eP	07 39 52
COL	eP	07 40 49
HH	eP	07 39 25

Date and Station		Phase (GCT)
		h m s
OV	eP	07 39 50
PF	e(P)	07 39 40
TUC	eP	07 39 39
Oct. 8, H = 09 01 29** Santa Cruz Islands region.		
BC	eP	09 14 18
COL	iP	09 13 58
	e	19 28
HH	eP	09 14 35
OV	iP	09 14 20.6
PF	iP	09 14 21.2
SH	eP	09 13 57
TUC	eP	09 14 29
Oct. 8		
TUC	e(P)	10 28 26
Oct. 8, H = 11 09 36* 32°N, 40½°W. North Atlantic Ocean.		
BER	eP	11 14 16
	e(S)	18 10
	eL	18 44
BC	eP	11 19 48
COL	eP	11 20 41
HH	eP	11 19 19
LOG	eP	11 19 13
OV	iP	11 19 46.0
PHIL	eS	11 20 36
	eL	21 43
PF	iP	11 19 44.2
RC	eL	11 34 13
SJ	eP	11 15 20
	eS	19 48
	eL	20 36
SH	eP	11 20 11
TUC	eP	11 19 34
	eL	38 30
WASH	eL	11 23 32
Oct. 8, H = 11 30 51** North Atlantic Ocean.		
BC	eP	11 41 05

Date and Station		Phase (GCT)
		h m s
COL	eP	11 42 02
OV	eP	11 41 02
TUC	eP	11 40 51
Oct. 8, H = 11 35 06** About 400 miles south of Fiji Islands.		
COL	e(P)	11 48 15
HH	eP	11 50 17
OV	eP	11 47 51
PF	iP	11 47 50.9
TUC	eP	11 47 52
	e	49 45
Oct. 8, H = 12 24 19 40°17'N, 124°48'W. By BERK, Off Cape Mendocino, Calif. Mag. 4.6		
BC	eP	12 26 40
HH	iP	12 27 00
OV	iP	12 26 34.6
	i	26 57.4
PF	eP	12 26 40
	e	29 01
RC	iP	12 28 19
TUC	eP	12 27 39
	e	27 47
UK	eP	12 24 48
	eS	25 08
	eL	25 18
Oct. 8		
BH	eP	13 36 20
PF	iP	13 42 24.3
Oct. 8		
BC	eP	14 07 46
OV	iP	14 07 52.4
PF	eP	14 07 45
SH	eP	14 07 38
TUC	eP	14 06 49
Oct. 8, H = 14 49 37** New Britain Island region.		
BOZ	eL	15 36 57
CHI	eL	15 43 32

Date and Station		Phase (GCT)
		h m s
COL	iP	15 01 58
	eS	12 14
	eSSS	21 27
HONO	eL	15 15 45
HH	eP	15 03 06
LIN	eL	15 45 26
OV	eP	15 03 05
	e(PP)	07 49
PHIL	eL	15 46 22
PF	eP	15 03 05
RC	eL	15 41 13
SLC	eL	15 35 10
SIT	eL	15 29 30
TUC	eP	15 03 55
	ePP	07 23
	eL	33 04
UK	eL	15 31 12
WASH	eL	16 00 20
Oct. 8, H = 16 37 23* 32°N, 41°W. North Atlantic Ocean.		
BC	eP	16 47 36
COL	eP	16 48 29
	eL	17 13 17
HH	eP	16 47 06
LOG	eP	16 47 01
OV	eP	16 47 32
PHIL	eP	16 48 15
	eL	53 46
PF	eP	16 47 31
RC	eL	16 56 21
SLC	eL	17 09 09
TUC	eP	16 47 23
WASH	eL	16 49 46
Oct. 8, H = 16 40 34* 31°N, 40½°W. North Atlantic Ocean.		
BER	eP	16 45 21
	eS	48 42
	eL	49 50
BC	eP	16 50 49

Date and Station	Phase	Phase (GCT) h m s
BC	ePP	16 52 57
COL	eP	16 51 43
HH	eP	16 50 22
LOG	eP	16 50 11
PHIL	i(P)	16 51 40
PF	eP	16 50 44
SJ	eP	16 46 09
	eL	50 51
SH	eP	16 51 34
TUC	eP	16 50 36
	eL	17 07 56
Oct. 8, H = 16 49 11* 32°N, 41°W. North Atlantic Ocean.		
BC	eP	16 59 23
COL	iP	17 00 15
HH	eP	16 58 52
PF	eP	16 59 17
TUC	eP	16 59 09
Oct. 9		
PF	e(P)	00 21 12
Oct. 9		
PF	eP	04 34 06
Oct. 9		
BC	e(P)	05 32 11
Oct. 9		
COL	e(P)	07 08 53
OV	iP	07 08 21.0
PF	iP	07 08 21
Oct. 9		
OV	e(P)	10 04 11
PF	e(P)	10 04 07
Oct. 9		
COL	eP	12 25 30
Oct. 9		
OV	eP	14 03 32
Oct. 9		
COLU	eL	15 49 54
HH	eP	14 39 39
OV	eP	14 40 23
PF	eP	14 40 13
Oct. 9, H = 17 31 55** Marianas Islands, about 300 miles north of Guam.		
BC	eP	17 44 39
COL	eP	17 42 27
HH	eP	17 44 20
OV	iP	17 44 40.1
PF	iP	17 44 41.8
SH	eP	17 44 02
	i	49 27
TUC	eP	17 45 00
Oct. 9		
OV	e(P)	20 28 07
PF	e(P)	20 28 07
Oct. 9		
HH	eP	21 16 14
Oct. 9		
SH	eP	22 02 54
Oct. 9		
SH	eP	23 26 23
Oct. 10		
BC	e(P)	00 21 52
COL	eP	00 14 07
	iP	14 08
	e	16 43
HH	eP	00 18 59
	e	22 08
OV	e(P)	00 21 28
	e	21 53
Oct. 10		
SJ	eP	00 44 25
	e	44 38
	e(S)	44 55
	eL	45 09
Oct. 10		
COL	eP	03 42 42
	e(pP)	43 20
Oct. 10		
BC	eP	04 14 39
COL	iP	04 11 06
HH	eP	04 13 52
OV	iP	04 14 39.1
PF	iP	04 14 42.0
SH	eP	04 13 52
TUC	e(P)	04 15 07
Oct. 10		
HH	e(P)	05 18 02
Oct. 10		
COL	eP	07 27 33
OV	eP	07 26 54
PF	eP	07 26 53.8
Oct. 10		
OV	iP	08 32 19.8
Oct. 10		
HH	eP	11 21 00
Oct. 10		
COL	eP	13 38 03
Oct. 10		
COL	eP	14 06 15
Oct. 10, H = 16 20 14* 10½°N, 85½°W. Costa Rica aftershock.		
BH	iP	16 21 13
	eS	23 00
BER	eL	16 35 20
BC	eP	16 27 26
COL	iP	16 31 19
HH	iP	16 28 29
	i	30 11
PHIL	eL	16 38 33
PF	iP	16 27 21.9
SJ	eP	16 24 51
	e	25 07
	eS	28 52
	eL	30 38
TUC	eP	16 26 43
	eL	39 45
Oct. 10		
COL	iP	17 02 54
HH	iP	17 04 54
Oct. 10, H = 18 42 20* 45°S, 167°E. Near southwest coast of South Island, New Zealand. Felt.		
COL	eP'	19 00 55
	eL	37 00
OV	ePP	19 01 14
PF	ePP	19 01 00
SH	ePP	19 00 55
Oct. 10, H = 23 15 21* 17°S, 179°W. Fiji Islands. h=about 600 km.		
BC	eP	23 26 37
COL	eP	23 26 59
HH	eP	23 27 08
OV	iP	23 26 40.2
	ipP	28 41.6
PF	iP	23 26 39.9
	ipP	28 40.4
TUC	iP	23 26 43
	epP	28 42
Oct. 11		
HH	e(P)	02 06 29
Oct. 11, H = 02 54 18* 5½°N, 83°W. Off coast of Panama.		
BH	iP	02 55 00
	eL	58 30
BER	eL	03 07 30
BC	eP	03 02 16
COL	eP	03 06 02
HH	iP	03 03 18
OV	iP	03 02 17.5
PF	iP	03 02 13.1
SJ	eP	02 59 02
	eS	03 02 58
	eL	03 49
TUC	eP	03 01 35
	eL	14 56
Oct. 11, H = 04 01 00** Off west coast of Costa Rica.		
BH	eP	04 02 20
BC	eP	04 08 24
COL	eP	04 12 18
HH	iP	04 09 28
	iPP	11 09
OV	iP	04 08 25.5
PF	eP	04 08 20

Date and Station	Phase	(GCT)
		h m s
PF	iP	04 08 20.9
TUC	eP	04 07 41
Oct. 11, H = 08 09 17** Southern Alaska. h = about 60 km.		
BC	eP	08 16 04
COL	iP	08 10 06
	iS	10 28
	eL	10 37
HH	eP	08 14 36
	iPP	14 58
OV	iP	08 16 01.0
	e(S)	22 19
PF	iP	08 16 06.2
SH	eP	08 15 02
TUC	eP	08 16 45
Oct. 11, H = 08 35 11** Southern Alaska. Felt at Anchorage. h=about 60 km.		
BC	eP	08 41 59
COL	eP	08 36 01
	iS	36 28
	eL	36 39
HH	iP	08 40 30
	iPP	40 52
OV	iP	08 41 55.6
	ipP	42 17
	e(S)	48 14
PF	iP	08 41 59.9
SH	eP	08 41 07
TUC	eP	08 42 40
Oct. 11		
COL	eP	13 49 11
Oct. 11		
COL	e(P)	14 02 53
	e	04 16
HH	iP	14 06 36
OV	iP	14 07 09.2
PF	eP	14 07 09
	i	07 12.3
SH	eP	14 06 26
TUC	eP	14 06 34

Date and Station	Phase	(GCT)
		h m s
Oct. 11		
COL	eP	18 03 34
	epP	03 54
Oct. 11		
BH	iP	18 56 38
	iS	56 51
Oct. 11		
HH	e(P)	20 05 34
Oct. 12		
COL	e(P)	05 36 34
Oct. 12		
COL	e(P)	07 24 24
HH	e(P)	07 22 34
OV	e(P)	07 20 13
PF	e(P)	07 21 08
TUC	eP	07 20 32
Oct. 12		
COL	e(P)	07 55 12
HH	eP	07 49 53
PF	e(P)	07 51 20
Oct. 12		
HH	eP	09 57 27
	e	57 44
Oct. 12		
COL	e(P)	15 15 14
Oct. 12		
PF	e(P)	18 13 53
Oct. 12		
BC	eP	19 00 05
OV	i(P)	19 00 10.0
PF	eP	19 00 03
Oct. 12		
BC	iP	21 01 37
HH	e(P)	21 03 37
LIN	eL	21 10 46
OV	iP	21 01 31.7
PF	iP	21 01 35.4
SH	eP	21 02 50
TUC	eP	21 00 38
	e	01 33
	e(S)	03 52
	eL	04 35

Date and Station	Phase	(GCT)
		h m s
Oct. 12, H = 23 49 28* 4°S, 128°E. Ceram Island region.		
BC	eP'	00 07 52
	e	08 13
COL	eP	00 02 35
	iP	02 37
	ePP	06 11
	e	16 20
	e	20 50
HH	eP'	00 07 57
	e	08 07
	iPP	08 56
	ePPS	19 11
OV	eP'	00 08 14
	ePS	18 58
PF	eP	00 04 33
	eP'	08 01
SH	eP'	00 07 48
TUC	eP'	00 08 21
Oct. 13		
OV	e(P)	04 00 38
Oct. 13		
PF	i(P)	07 54 33.4
Oct. 13		
OV	iP	08 25 52.8
Oct. 13		
PF	i(P)	08 53 03
Oct. 13		
TUC	e(P)	09 25 22
Oct. 13		
COL	eP	10 17 53
Oct. 13, H = 14 32 48* 10°S, 166°E. Santa Cruz Islands region.		
BC	eP	14 45 38
COL	eP	14 45 12
HH	eP	14 45 56
OV	eP	14 45 41
PF	iP	14 45 42.7
	i	45 54.9
SH	iP	14 45 18
Oct. 13		
COL	eP	16 23 41
Oct. 13		
COL	eP	20 28 44

Date and Station	Phase	(GCT)
		h m s
Oct. 13		
OV	i(P)	20 45 57.6
Oct. 13		
COL	eP	21 13 21
HH	eP	21 09 35
OV	e(P)	21 08 33
PF	e(P)	21 08 23
Oct. 13		
COL	eP	21 25 51
Oct. 13		
BC	e(P)	21 36 36
COL	eP	21 30 52
	iP	30 53
	e(S)	31 14
	eL	31 36
HH	iP	21 35 11
	i	35 21
OV	iP	21 36 34
	e	38 03
PF	eP	21 36 39
Oct. 13		
PF	e(P)	22 34 47
Oct. 13		
OV	e(P)	23 56 11
Oct. 14, H = 00 22 00** Mid-Atlantic Ocean		
BC	e(P)	00 34 59
HH	eP	00 34 49
OV	eP	00 34 53
PF	e(P)	00 34 48
TUC	eP	00 34 32
Oct. 14		
COL	iP	02 28 07
OV	e(P)	02 27 46
	i	29 59.2
PF	e(P)	02 27 45
Oct. 14, H = 04 59 26* 5°S, 150½°E. New Britain Island.		
BC	eP	05 12 59
COL	iP	05 11 52
HH	eP	05 13 02

Date and Station	Phase	Phase (GCT) h m s
OV	iP	05 13 00.7
	ePP	16 52
PF	eP	05 13 01
SIT	eL	05 37 46
Oct. 14 COL	iP	05 28 44
Oct. 14 COL	eP	05 42 53
Oct. 14 COL	iP	06 13 04
Oct. 14 COL	iP	06 28 17
Oct. 14 COL	iP	06 31 58
HH	eP	06 33 07
Oct. 14 COL	eP	06 42 52
Oct. 14 PF	e(P)	10 35 16
Oct. 14, H = 13 27 07** Costa Rica aftershock.		
BH	eP	13 28 07
BC	iP	13 34 23
COL	eP	13 38 17
HH	eP	13 35 25
	e(PP)	37 09
OV	iP	13 34 23.7
PHIL	eL	13 44 39
PF	iP	13 34 19.4
SJ	eP	13 31 54
	ePP	32 13
	eS	35 00
	eL	35 54
TUC	eP	13 33 40
WASH	eL	13 45 40
Oct. 14 BH	iP	13 47 18
	iS	47 35
Oct. 14, H = 17 41 36** Costa Rica aftershock.		
BH	eP	17 42 20
	eS	43 39
BC	iP	17 48 41
COL	eP	17 52 34
HH	iP	17 49 44
	i	50 36
OV	eP	17 48 41.6
PHIL	iL	17 59 52
PF	iP	17 48 36
SJ	eL	17 49 47
SH	eP	17 49 37
TUC	e(P)	17 47 58
WASH	eL	18 00 00
Oct. 14, H = 17 59 31 By PAS, 33°41'N, 116°47'W. Near Hemet Reservoir, Calif. Mag. 3.1		
OV	iP	18 00 34.4
	iL	01 20.7
Oct. 14 HH	e(P)	18 37 29
OV	e(P)	18 37 44
PF	e(P)	18 37 11
SH	e(P)	18 36 07
Oct. 14, H = 20 25 38 By PAS, 32°10'N, 116°34'W. Lower California. Mag. 3.8		
OV	iP	20 26 51.8
	eL	28 07
PF	iP	20 26 48.4
	eS	27 46
	iL	28 00.7
Oct. 15 HH	e(P)	07 50 30
Oct. 15 COL	iP	14 11 24
Oct. 15 COL	eP	14 27 17
	iP	27 18
	eL	15 07 38
HH	e(P)	14 28 24
OV	e(P)	14 28 25
PF	eP	14 28 27
SH	e(P)	14 28 05
	e	28 15
SIT	e(S)	14 38 00
	eL	54 20
Oct. 15 COL	eP	14 41 06
Oct. 15 COL	eP	15 58 12
Oct. 15 COL	eP	16 05 21
	iP	05 22
OV	i(P)	16 09 36.7
PF	iP	16 09 40.4
Oct. 15, H = 15 59 53* 10°S, 160°E. Solomon Islands. Mag. about 6-1/2.		
BC	iP	16 13 06
	ePP	16 51
	eSKS	23 41
CHI	eL	16 58 00
COL	eP	16 12 23
	i	13 25
	i	17 07
	eS	22 42
	e(SS)	28 06
	eL	37 04
HONO	eL	16 22 50
LOG	eP	16 13 02
	eL	48 22
OV	iP	16 13 07.8
	ePP	16 36
PHIL	eL	16 56 15
PF	iP	16 13 08.4
	ePP	16 48.4
	eP'P'	38 34
SH	eP	16 12 41
	eS	23 13
SIT	eP	16 12 28
	eS	22 54
	eL	35 20
TUC	eP	16 13 21
	ePP	17 03
	eS	24 36
	ePS	25 40
	eL	44 03
WASH	eL	17 04 10
Oct. 15 BH	iP	17 16 51
	iS	17 03
Oct. 15 OV	eP	18 22 45
PF	eP	18 22 45
SH	eP	18 22 26
TUC	eP	18 22 49
Oct. 15, H = 20 40 11 By PAS, 33.0°N, 115.4°W. Near Brawley. Calif. Felt. Mag. 3.8		
BC	eP	20 41 13
	i(S)	41 52
OV	iP	20 41 24.4
	iS	42 10
PF	iP	20 41 09.5
	i	41 19.5
	iS	42 01.2
	i	42 03.0
Oct. 15 COL	e(P)	21 59 07
Oct. 15, H = 23 42 50** Tonga Islands.		
BC	e(P)	23 54 57
COL	iP	23 55 34
OV	iP	23 54 59.5
PF	iP	23 54 59.8
SH	iP	23 54 44
TUC	eP	23 55 01
Oct. 16, H = 00 48 45 By PAS, 33.0°N, 115.4°W. Near Brawley, Calif. Felt. Mag. 3.9		
BC	e(P)	00 49 47
	i	50 34
TUC	e	00 49 49
	eL	50 07
Oct. 16 COL	eP	02 11 54
Oct. 16 COL	e(P)	02 26 40
Oct. 16 COL	eP	02 53 20
Oct. 16 COL	e(P)	04 36 19

Date and Station	Phase	(GCT)
		h m s
Oct. 16		
COL	e(P)	05 06 04
Oct. 16		
COL	e(P)	05 10 54
Oct. 16, H = 05 25 22* 5°S, 80°W. Near coast of northern Peru. Felt. h = about 60 km.		
BC	eP	05 34 31
	e	34 44
COL	eP	05 37 30
	epP	37 54
LOG	eP	05 34 28
OV	iP	05 34 29.8
PF	iP	05 34 25.1
SH	eP	05 35 20
TUC	iP	05 33 50
Oct. 16		
COL	e(P)	07 09 25
Oct. 16, H = 07 57 03** North Atlantic Ocean.		
BER	eL	08 08 11
BC	eP	08 07 40
COL	e(P)	08 08 02
OV	eP	08 07 37
PF	eP	08 07 36
TUC	eP	08 07 47
Oct. 16		
OV	e(P)	08 46 49
PF	e(P)	08 46 39
Oct. 16		
COL	eP	10 37 16
Oct. 16		
COL	e(P)	11 49 42
Oct. 16		
OV	iP	12 10 25.9
PF	eP	12 10 22
TUC	e(P)	12 09 57
Oct. 16		
SH	eP	13 56 29
	i(S)	58 03

Date and Station	Phase	(GCT)
		h m s
Oct. 16, H = 15 42 36* 29°N, 95°E. Sikang province, China		
COL	iP	15 54 16
	ipP	54 27
OV	eP'	16 01 37
PF	eP'	16 01 31
Oct. 16		
COL	e(P)	19 55 41
Oct. 16		
BC	e(P)	21 49 41
BUT	eL	21 58 18
CHI	eL	22 00 02
COL	eP	21 55 11
OV	eP	21 49 40
	eL	53 57
PF	eP	21 49 37
	eL	53 20
RC	eP	21 51 15
	eS	55 32
	eL	57 03
SLC	eP	21 50 28
	eL	55 29
SH	eP	21 49 25
	e	51 05
TUC	eP	21 48 33
	e(S)	49 43
	eL	50 14
Oct. 16		
COL	e(P)	22 29 13
TUC	eP	22 22 31
	e(L)	25 07
Oct. 17		
COL	iP	01 50 04
OV	eP	02 01 34
PF	iP	02 01 34.9
TUC	eP	02 01 37
Oct. 17		
COL	eP	02 37 53
Oct. 17		
COL	e(P)	03 01 32
Oct. 17, H = 03 54 25* 39°N, 117½°W. Central Nevada. Mag. 4.3 (Berkeley)		

Date and Station	Phase	(GCT)
		h m s
BUT	eL	03 58 25
COL	e(P)	04 00 53
LOG	eS	03 55 42
	iL	56 04
OV	eP	03 55 20
	iP	55 28.3
	iS	56 19
	eL	57.0
PF	iP	03 55 27.4
	i	55 36
	iS	56 27.4
	i	56 42.4
SLC	eS	03 55 55
	iL	57 03
SH	iP	03 55 24
	i	55 32
	iS	56 32
TUC	eP	03 56 40
	i	57 14
	e(S)	58 27
	eL	59 15
Oct. 17		
OV	e(P)	05 35 45
PF	e(P)	05 35 40
TUC	e(P)	05 35 31
Oct. 17, H = 10 31 46** Costa Rica aftershock.		
BH	eP	10 32 25
COL	eP	10 42 51
	e(pP)	43 15
OV	eP	10 39 00
PF	iP	10 38 55.6
SH	eP	10 40 02
TUC	eP	10 38 17
Oct. 17		
COL	eP	11 32 28
Oct. 17		
PF	e(P)	12 43 49
Oct. 17		
COL	e(P)	13 17 33
	e	18 09
Oct. 17, H = 14 56 10** Costa Rica aftershock.		
BH	eP	14 56 51
COL	eP	15 07 19

Date and Station	Phase	(GCT)
		h m s
LOG	eP	15 03 38
OV	iP	15 03 28.3
	e	05 45
PHIL	eL	15 11 12
PF	iP	15 03 23.6
SJ	eP	15 00 41
	epP	01 20
	eS	04 47
	eL	05 45
TUC	eP	15 02 45
Oct. 17, H = 15 06 46* 11°N, 88°W. Off west coast of Costa Rica. h = about 150 km.		
BH	eS	15 08 49
BC	eP	15 13 35
	ePcP	16 15
CHI	eL	15 15 15
COL	eP	15 17 33
	epP	18 09
	eL	36 37
HH	eP	15 14 38
	epP	15 14
LOG	eP	15 13 47
	eS	24 48
	esS	30 19
OV	iP	15 13 33.5
PF	iP	15 13 25.9
TUC	eP	15 13 48
	iP	13 51
Oct. 17		
PF	i(P)	15 16 14
Oct. 17, H = 16 35 17* 13°S, 165°E. Santa Cruz Islands region.		
BC	eP	16 48 18
COL	eP	16 47 57
	i	48 07
	e(S)	58 27
	eL	17 12 13
HH	eP	16 48 35
PHIL	eL	17 40 14
PF	iP	16 48 21.6
SH	eP	16 47 58

Date and Station	Phase	Phase (GCT) h m s
TUC	eP	16 48 28
Oct. 17		
COL	eP	17 55 36
	iP	55 37
	eL	56 33
Oct. 17		
BC	e(P)	19 41 05
COL	eP	19 36 36
	eL	40 15
HH	iP	19 39 38
OV	eP	19 40 28
	e	45 55
PF	eP	19 40 32
SH	eP	19 39 39
TUC	eP	19 40 08
Oct. 17, H = 22 07 20* 10°N, 85½°W. Near coast of Costa Rica.		
BH	e(P)	22 08 04
	e(S)	09 14
BER	eL	22 19 40
BC	eP	22 14 41
COL	eP	22 18 32
	eL	42 47
HH	eP	22 15 43
	e	17 22
LOG	e	22 14 53
	eL	30 31
OV	eP	22 14 41
	e	23 45
PHIL	eL	22 21 39
PF	iP	22 14 37
SJ	eP	22 12 05
	e	12 25
	eS	16 08
	eL	17 11
SH	eP	22 15 40
SIT	eL	22 42 54
TUC	eP	22 13 58
	eS	19 16
	eL	23 06
WASH	eP	22 13 37
	eL	20 19
Oct. 18		
BC	eP	06 47 51

Date and Station	Phase	Phase (GCT) h m s
COL	eP	06 43 34
	iP	43 35
	e	44 30
	eS	47 49
	eL	51 05
HH	eP	06 46 48
	e	46 58
OV	iP	06 47 49.3
PF	iP	06 47 52.6
SH	iP	06 46 53
TUC	e(P)	06 48 25
Oct. 18		
OV	e(P)	11 40 38
PF	e(P)	11 40 31
TUC	eP	11 39 34
Oct. 18		
COL	e(P)	12 54 05
	e	54 07
Oct. 18		
TUC	e(P)	13 26 32
Oct. 18		
COL	eP	13 40 05
Oct. 18		
BC	e(P)	15 12 51
OV	iP	15 12 57.1
	i	15 54.1
PF	iP	15 12 50.3
	e	15 48
TUC	e(P)	15 11 53
Oct. 18		
COL	eP	21 40 07
	iP	40 09
	i	40 44
	i	40 57
Oct. 19		
OV	e(P)	00 04 11
Oct. 19		
COL	eP	00 26 49
Oct. 19		
COL	eP	02 17 38
OV	e(P)	02 22 04
PF	e(P)	02 22 03
TUC	e(P)	02 22 37
Oct. 19, H = 03 48 25* 19½°N, 64°W. Off northeast coast of Puerto Rico.		

Date and Station	Phase	Phase (GCT) h m s
BH	eP	03 51 57
BER	eP	03 51 37
	eS	53 55
	eL	55 02
BC	iP	03 56 33
BOZ	eL	04 10 54
CHI	eL	04 04 36
COL	eP	03 59 39
	eL	04 22 26
HH	iP	03 57 17
LOG	eP	03 56 43
	eL	04 11 18
OV	iP	03 57 01.4
PHIL	iP	03 53 30
	ePP	54 23
	eS	57 30
	eL	58 48
PF	iP	03 56 58.0
SJ	eP	03 49 02
	i	49 05
	iS	49 23
	eL	49 40
RC	eL	04 10 51
SH	iP	03 57 49
SIT	eL	04 21 20
TUC	eP	03 56 33
	ePcP	57 29
WASH	i(P)	03 53 30
Oct. 19		
COL	e(P)	06 00 17
Oct. 19		
COL	eP	09 29 45
TUC	e(P)	09 24 09
Oct. 19		
BER	e	09 48 00
SJ	eP	09 42 57
	i	43 11
	eS	43 23
	eL	44 00
Oct. 19, H = 09 51 11* 34°S, 178°W. Kermadec Islands region.		
BC	iP	10 04 21
BOZ	eL	10 38 01

Date and Station	Phase	Phase (GCT) h m s
CHI	eL	10 58 59
COL	eP	10 05 04
	e(PP)	08 39
	e	21 04
	eL	37 30
HONO	eP	10 01 05
HH	e(P)	10 05 03
LOG	e(P)	10 04 42
	eL	42 16
OV	iP	10 04 24.9
	e	20 39
PHIL	eL	10 56 24
PF	iP	10 04 24.5
	ePP	08 08
	e	20 18
SH	iP	10 04 16
	ePP	07 46
SIT	eS	10 16 10
	eL	36 24
TUC	eP	10 04 22
	e	06 11
	ePKKP	21 41
	eL	32 37
Oct. 19		
TUC	e(P)	10 55 37
Oct. 19		
COL	e(P)	11 37 32
Oct. 19		
COL	eP	12 02 47
Oct. 19		
OV	iP	13 33 31.1
PF	iP	13 33 31.4
TUC	e(P)	13 33 34
Oct. 19		
COL	iP	13 43 49
	iS	44 08
	eL	44 28
HH	iP	13 48 54
OV	e(P)	13 50 18
PF	e(P)	13 50 26
SIT	eL	13 48 32
Oct. 19		
COL	eP	14 08 32
	e(S)	08 52
	eL	09 02

Date and Station	Phase	Phase (GCT) h m s
Oct. 19		
BC	eP	20 35 46
COL	eP	20 32 13
	iP	32 14
HH	iP	20 35 00
OV	i(P)	20 35 45.9
PF	iP	20 35 48.8
SH	eP	20 35 00
TUC	i(P)	20 36 14
Oct. 19, H = 23 13 07 By PAS, 35°43'N, 117°55'W. Near Brown, Calif. Mag. 3.2		
OV	iP	23 14 03.0
PF	eP	23 13 58
	i	14 08.1
	i	14 52.3
Oct. 20		
COL	e(P)	00 24 29
HH	eP	00 26 33
Oct. 20		
BC	eP	01 43 50
HH	eP	01 45 02
OV	eP	01 45 50
PF	eP	01 43 41
SH	iP	01 44 20
TUC	eP	01 43 26
Oct. 20		
COL	e(P)	05 05 17
Oct. 20		
HH	eP	05 42 32
OV	iP	05 41 44.4
	i(pP)	41 59
PF	e(P)	05 41 40
Oct. 20, H = 07 44 39* 19½°N, 65°W. Puerto Rico aftershock.		
BER	eP	07 47 48
	eS	50 00
	eL	51 46
BOZ	eL	08 07 47
BUT	eL	08 08 39
COL	eP	07 55 48
	eL	08 16 11
HH	iP	07 53 26
OV	iP	07 53 09.8
	eP'P'	08 25 09
PHIL	eP	07 49 42
	eS	53 42
	eL	55 12
PF	iP	07 53 06.6
	eP'P'	08 25 05
SJ	eP	07 45 11
	i	45 14
	iS	45 33
	iL	45 50
SH	iP	07 53 57
SIT	eL	08 15 08
TUC	eP	07 52 42
	e	57 40
	eL	08 15 39
WASH	e(P)	07 49 40
	e(S)	53 44
	e(L)	08 01 10
Oct. 20		
OV	eP	11 15 50
PF	e(P)	11 15 43
TUC	eP	11 14 46
Oct. 20		
COL	eP	12 44 24
Oct. 20		
PF	e(P)	15 01 52
SJ	eP	14 53 58
	eS	54 25
	iS	54 28
	eL	54 48
Oct. 20		
PF	e(P)	19 18 57
Oct. 21		
BC	eP	03 16 24
COL	e(P)	03 15 42
OV	eP	03 16 26
PF	e(P)	03 16 27
Oct. 21, H = 04 12 56* 18½°S, 173½°W. Tonga Islands. h = about 60 km. Mag. about 6½.		
BER	e	04 37 30
	ePS	42 40
BER	eSS	04 48 36
	eL	05 09 11
BC	iP	04 24 50
	i(pP)	25 09
	eP'P'	51 56
BOZ	eS	04 36 00
	iS	36 01
	eL	54 11
BUT	eS	04 35 55
	eL	50 39
CHI	eSKS	04 37 04
	eL	58 22
COL	iP	04 25 31
	i	26 17
	ePP	28 33
	iS	35 54
	i(sS)	36 23
	e(SS)	41 46
	e(SSS)	45 12
	eL	48 20
HONO	eP	04 20 49
	e	21 09
	eS	27 18
	eL	32 36
T_S = 9 sec. A = 1.0mm. T_L = 21 sec. $A_{max.}$=1.5mm		
HH	eP	04 25 29
	eS	35 52
	eP'P'	51 23
LOG	eP	04 25 08
	ipP	25 26
	eS	35 21
	eL	50 35
OV	iP	04 24 53.8
	ipP	25 13.4
	i	26 58
	ePP	28 08
	eS	35 13
	eP'P'	52 01
PHIL	eSKS	04 37 55
	e	38 47
	eS	39 29
	ePS	41 12
	eSS	47 07
	eL	05 04 26
PF	iP	04 24 54.4
	ipP	25 13.3
	eS	34 51
	eP'P'	51 56
RC	e(P)	04 26 14
	eS	36 18
	e(PS)	37 48
	eL	54 00
SLC	eP	04 25 18
	eS	35 31
	eL	48 48
SH	iP	04 24 40
	ipP	24 59
	ePP	27 26
	eS	34 20
SIT	eP	04 25 14
	e(PPP)	31 37
	eS	35 14
	eSS	40 50
	eL	49 20
TUC	iP	04 24 51
	ipP	25 10
	ePP	28 06
	e(PPP)	30 20
	eS	34 54
	eP'P'	51 55
UK	eS	04 33 56
	eL	45 14
WASH	eL	05 05 11
Oct. 21		
COL	eP	06 14 41
HH	eP	06 22 06
LOG	e	06 25 31
OV	e(P)	06 22 33
	e	25 44
PF	e(P)	06 22 21
SH	eP	06 22 04
TUC	e(P)	06 22 30
	e	25 09
Oct. 21, H = 08 27 13** Colima, Mexico foreshock.		
BC	eP	08 31 40
HH	eP	08 33 37
	i	33 47
LIN	eS	08 36 59
	eL	39 49
OV	iP	08 31 53.8
PF	iP	08 31 48.7
TUC	eP	08 30 54
Oct. 21		
SH	eP	09 01 46

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Date and Station	Phase	Phase (GCT)
		h m s
Oct. 21, H = 08 57 10** Colima, Mexico foreshock. Mag. about 5-3/4.		
CHI	eL	09 11 02
COL	eP	09 06 44
	e	06 47
HH	eP	09 03 34
LIN	eS	09 06 59
	eL	09 51
OV	iP	09 01 50.0
PF	iP	09 01 44.7
	e	09 35
RC	eL	09 11 15
SH	eP	09 02 44
TUC	iP	09 00 50
	e(S)	04 12
	eL	05 10
Oct. 21		
TUC	eP	09 08 54
Oct. 21, H = 09 42 58* 17½°N, 106°W. Off coast of Colima, Mexico. Mag. about 6-3/4.		
BER	eP	09 50 35
	ePP	52 15
	eS	56 46
	eL	10 00 02
BC	eP	09 47 36
	eS	51 29
BOZ	eP	09 48 55
	e	49 31
	iS	53 45
	eL	57 15
BUT	eP	09 49 01
	ePP	49 49
	eS	53 44
	eL	55 09
CHI	eP	09 48 55
	iS	53 45
	eL	55 03
COL	eP	09 52 31
	ePPP	55 39
	eS	10 00 26
	e(SS)	04 24
	eL	07 06
COLU	eP	09 48 46
	eS	53 28
	eL	56 25
HONO	e	09 52 21
	e(S)	59 14
	eL	10 03 20
T_L = 7 sec. $A_{max.}$=5.0mm.		
HH	eP	09 49 22
	ePP	50 34
	eS	54 46
	eL	58 00
LIN	eP	09 48 16
	iS	52 44
	eL	53 49
LOG	eP	09 48 11
	ePP	48 44
	iPP	48 54
	i	49 32
	iS	52 53
	iL	55 16
OV	iP	09 47 40.0
	eS	51 37
	eL	55 42
PHIL	eP	09 49 49
	ePP	51 15
	eS	55 17
	iS	55 18
	eL	58 45
PF	iP	09 47 34.2
	eS	50 54
RC	eP	09 48 38
	eS	53 19
	eL	56 28
SLC	iP	09 48 14
	iS	52 36
	eL	54 40
SJ	eP	09 50 14
	e(PP)	51 34
	eS	56 06
	eL	58 06
SH	eP	09 48 42
	ePP	49 29
	eS	53 44
	eL	58.5
SIT	ePP	09 53 03
	iS	58 04
	eSS	10 01 15
	eL	05 08
TUC	iP	09 46 39
	iS	49 46
	iL	50 35
UK	eP	09 48 42
	eS	53 21
	eL	55 14
WASH	iP	09 49 34
	e	53 27
	eL	57 31
Oct. 21, H = 13 33 51** Galapagos Islands region.		
BC	eP	13 42 06
COL	eP	13 45 52
HH	eP	13 43 15
OV	eP	13 42 09
PF	eP	13 42 04
SH	eP	13 43 01
TUC	eP	13 41 26
Oct. 21, H = 16 01 12* 11½°S, 166½°E. Santa Cruz Islands. h = about 200 km.		
BC	iP	16 13 43
	ipP	14 37
COL	iP	16 13 22
	i	13 31
HH	iP	16 14 01
OV	iP	16 13 45.7
	ipP	14 40
PF	iP	16 13 46.1
	ipP	14 40.9
SH	eP	16 13 22
TUC	eP	16 13 54
Oct. 21		
COL	iP	23 07 47
	i	08 06
OV	e(P)	23 08 23
PF	eP	23 08 26
Oct. 22, H = 05 52 03* 35°N, 26°E. Near coast of eastern Crete. Felt at Sitia and Hierpetra.		
COL	e(P)	06 04 18
HH	iP	06 05 03
OV	e	06 10 10
Oct. 22		
OV	e(P)	07 53 42
PF	e(P)	07 52 55
Oct. 22		
OV	e(P)	08 16 11
PF	e(P)	08 16 00
Oct. 22		
OV	e(P)	11 47 14
	e	47 30
Oct. 22		
COL	eP	14 26 40
Oct. 22		
BC	eP	14 38 53
COL	e(P)	14 42 01
HH	iP	14 39 39
OV	iP	14 38 55.0
PF	iP	14 38 51.6
SH	eP	14 39 30
TUC	eP	14 38 24
Oct. 22, H = 15 10 47* 48½°N, 153°E. Kurile Islands region. h = about 100 km.		
BC	iP	15 21 26
	ipP	21 49
	isP	21 59
COL	iP	15 17 33
	ipP	17 57
HH	eP	15 20 32
	ipP	20 58
OV	iP	15 21 24.1
	ipP	21 48.5
PF	eP	15 21 27
	ipP	21 52.1
SH	eP	15 20 33
	ipP	20 57
TUC	e(P)	15 22 21
Oct. 22, H = 18 54 46** New Hebrides Islands. Depth slightly greater than normal.		
BC	iP	19 07 45
	ipP	07 55
COL	eP	19 07 31
	epP	07 42
OV	iP	19 07 47.9
PF	iP	19 07 48.3
SH	iP	19 07 26
	i(pP)	07 39
	i	07 49

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		h m s
TUC	eP	19 07 54
Oct. 22		
TUC	iP	22 20 16
	e	20 27
Oct. 23		
PF	e(P)	01 04 52
Oct. 23		
OV	e(P)	01 10 45
PF	e(P)	01 10 43
Oct. 23, H = 08 12 50* 39½°N, 117°W. Central Nevada. Mag. 4.6		
BC	eP	08 13 51
	iP	13 52
	i	14 01
	eS	14 49
HH	eP	08 15 05
	eS	17 43
OV	iP	08 13 46.9
	i	13 57.0
	iS	14 42
PF	iP	08 13 54.8
	i	14 45.6
	i	14 46.2
	iS	15 00.5
SLC	eL	08 15 12
SH	iP	08 13 51
	iS	14 48
TUC	eP	08 15 02
	eS	17 31
	eL	18 04
Oct. 23		
OV	e(P)	08 18 51
Oct. 23		
OV	e(P)	08 31 02
Oct. 23		
BC	eP	10 24 11
COL	eP	10 23 06
HH	eP	10 24 11
OV	e(P)	10 24 13.6
PF	e(P)	10 24 15.2
Oct. 23, H = 14 55 30** Guatemala foreshock.		
BC	iP	15 01 07
	e	01 38
COL	eP	15 05 52
	ePcP	06 35
HH	eP	15 02 54
OV	eP	15 01 40
PF	iP	15 01 35.3
SH	eP	15 02 42
TUC	eP	15 00 56
	eS	05 51
	eL	10 30
Oct. 23, H = 15 03 34** Guatemala foreshock.		
BC	eP	15 09 43
COL	eP	15 14 01
	iP	14 02
	i(PcP)	14 38
OV	iP	15 09 45.1
PF	iP	15 09 40.1
TUC	eP	15 08 59
Oct. 23, H = 16 13 18* 14½°N, 92°W. Near coast of Guatemala. Felt in Chiapas, Mexico. Mag. 7.3		
BH	iP	16 16 39
	i(S)	19 21
	eL	19 56
BER	iP	16 19 39
	ePcP	22 01
	eS	24 05
	iL	25 38
T_P = 24 sec. A = 4.9mm. T_L = 17 sec. $A_{max.}$=45mm.		
BC	iP	16 19 27
	iPcP	22 35
	eL	25 35
BOZ	eP	16 20 16
	ePP	21 42
	iS	25 52
	eL	28 44
BUR	eP	16 20 02
	e	20 27
	ePP	21 12
	iS	25 27
	eL	27 40
BUT	eP	16 20 23
	ePP	22 01
	eS	25 59
	e	26 41
	eL	29 21
CHI	eP	16 19 09
	e(PP)	20 05
CHI	eS	16 23 35
COL	eP	16 23 46
	ePcP	24 31
	i	25 22
	iPP	26 25
	iPPP	27 30
	e	28 34
	eS	32 21
	eScS	33 38
	eSS	37 00
	iL	39 31
	e	42 50
	eP'P'	52 46
COLU	eP	16 18 15
	e	19 42
	eS	22 15
	eL	24 18
HONO	eP	16 23 47
	iP	23 50
	eS	32 16
	i	32 27
	e(SS)	36 25
	iL	39 47
T_S = 13 sec. A = 4.0mm. T_L = 20 sec. $A_{max.}$=6.5mm.		
HH	iP	16 20 43
	ePcP	22 48
	eScS	30 58
LIN	eP	16 19 11
	eS	23 35
	eL	25 05
LOG	iP	16 19 38
	i	21 30
	iS	24 55
	i	25 28
	iL	27 18
OV	iP	16 19 28.9
PHIL	iP	16 19 23
	iPP	20 26
	iS	24 13
	eL	26 32
PF	iP	16 19 23.6
	e	23 35
RC	eP	16 19 44
	ePP	20 48
	eS	24 34
	eL	26 22
SLC	eP	16 19 45
	i	20 24
	ePP	20 56
	iS	24 52
	eL	27 28
SJ	iP	16 18 44
	i(PP)	19 42
	iS	22 42
	iL	23 35
SH	eP	16 20 29
	iP	20 32
	ePcP	22 47
	eS	26 13
TUC	iP	16 18 43
	i	19 01
	eS	22 55
	iL	23 20
UK	eP	16 20 28
	e(PP)	21 36
	e(PPP)	22 10
	e	22 26
	eS	26 22
	eL	28 53
WASH	iP	16 19 14
	eS	24 42
	iL	25 47
Oct. 23		
COL	iP	16 37 55
	ipP	38 33
PF	i(P)	16 33 36.1
Oct. 23		
COL	eP	16 47 26
	epP	48 03
PF	i(P)	16 43 05.1
Oct. 23		
BC	iP	17 02 43
COL	e(P)	17 00 52
PF	iP	17 02 38.6
Oct. 23		
COL	eP	17 06 59
	ePcP	07 37
Oct. 23, H = 17 05 25* 15°N, 91½°W. Guatemala aftershock.		
BH	eP	17 08 42
BC	iP	17 11 35
COL	iP	17 15 51
	iPcP	16 28
HH	iP	17 12 49
LOG	iP	17 11 44
OV	iP	17 11 03
	e(S)	16 45
PF	iP	17 11 30.9
SH	iP	17 12 38
	iPcP	14 56
TUC	iP	17 10 49

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TUC	i(PP)	17 11 04
	eL	15 28
Oct. 23		
COL	eP	17 31 49
Oct. 23		
BC	eP	17 48 39
COL	iP	17 52 56
	epP	53 32
OV	eP	17 48 41
PF	iP	17 48 36.1
TUC	e(P)	17 47 55
Oct. 23, H = 17 47 51* 14½°N, 92°W. Guatemala aftershock. Mag. about 6½.		
BH	eP	17 49 17
BER	eP	17 54 05
	e	54 35
	eL	18 01 02
BC	iP	17 54 02
	eL	18 03 47
BOZ	eP	17 54 44
	e	59 54
	eL	18 03 32
BUT	eP	17 55 09
	e(S)	18 01 07
	eL	02 53
CHI	eP	17 53 39
	e	53 53
	eS	58 17
	eL	18 01 45
COL	iP	17 58 19
	iPcP	58 57
	e(S)	18 07 30
	eL	17 38
COLU	eP	17 52 54
	iPP	53 10
	eS	56 48
	eL	57 00
HH	iP	17 55 16
LIN	eP	17 54 25
	eS	58 11
	eL	18 01 25
LOG	iP	17 54 11
	eS	59 22
OV	iP	17 54 02.7
PF	iP	17 53 58.1
RC	eP	17 54 19
	eL	18 00 50
SLC	eP	17 54 18
	eS	59 30
	eL	18 02 20
SH	iP	17 55 05
	ePcP	57 23
TUC	iP	17 53 16
	i	53 34
	iS	57 52
	eL	18 00 00
WASH	iP	17 53 44
	i	53 58
	eS	59 12
	iL	18 01 00
Oct. 23, H = 17 59 36* 14½°N, 92°W. Guatemala aftershock.		
BC	iP	18 05 46
COL	iP	18 10 03
	iPP	12 06
HH	iP	18 07 01
LOG	iP	18 05 56
OV	eP	18 05 48
PF	iP	18 05 41.8
SH	iP	18 06 49
TUC	iP	18 05 01
	e	05 21
	e(S)	09 37
	eL	12 51
Oct. 23		
PF	i(P)	18 40 38.0
Oct. 23		
PF	e(P)	19 32 09
Oct. 23, H = 19 50 50* 15°N, 91½°W. Guatemala aftershock.		
BH	eP	19 54 03
BC	iP	19 57 01
COL	iP	20 01 17
	iPcP	01 54
HH	iP	19 58 15
LOG	e(P)	19 57 10
OV	eP	19 57 01
PHIL	e	20 02 26
	eL	07 46
PF	iP	19 56 56.9
SJ	eP	19 56 02
	e(PP)	56 45
	eS	20 01 22
	eL	01 50
SH	eP	20 00 19
TUC	eP	19 56 15
	e	56 30
	eS	20 00 50
	eL	01 04
Oct. 23		
COL	iP	20 10 06
	e(S)	10 58
	iL	11 10
OV	iP	20 15 18.9
PF	iP	20 15 23.0
Oct. 23		
SH	iP	20 33 16
	e(S)	33 41
	eL	33 48
Oct. 23		
OV	e(P)	20 50 42
PF	e(P)	20 50 37
Oct. 23, H = 21 32 00* 14½°N, 91½°W. Guatemala aftershock.		
BH	eP	21 35 18
BER	eL	21 45 18
BC	iP	21 38 09
BOZ	eL	21 57 00
BUT	eL	21 52 45
CHI	e(S)	21 42 33
	eL	44 33
COL	eP	21 42 27
	e	46 39
HH	iP	21 39 24
LOG	eP	21 43 46
	eL	51 26
OV	iP	21 38 10.3
PHIL	eS	21 43 14
	eL	44 39
PF	iP	21 38 05.3
SLC	eL	22 50 02
SJ	e(P)	21 37 45
SJ	ePP	21 38 20
	eL	42 35
SH	eP	21 39 11
TUC	eP	21 37 23
	e	37 44
	ePP	38 37
	eS	42 00
	eL	45 27
UK	eL	21 52 24
Oct. 23.		
TUC	e(P)	22 42 18
Oct. 23, H = 23 38 44* 14½°N, 92°W. Guatemala aftershock. Mag. 6.1		
BH	eP	23 42 03
BER	eP	23 45 08
	eS	50 08
	eL	51 10
BC	iP	23 44 54
BOZ	e(S)	23 51 20
	eL	54 52
CHI	eS	23 49 15
	eL	55 25
COL	iP	23 49 12
	iPcP	49 49
COLU	eP	23 43 40
	eS	47 54
	eL	50 32
HH	iP	23 46 09
LIN	eL	23 49 09
LOG	eP	23 45 04
	eS	50 19
	eL	53 00
OV	iP	23 44 55.5
PHIL	e	23 45 28
	e	46 17
	eS	49 47
	eL	51 08
PF	iP	23 44 50.7
RC	eL	23 52 02
SLC	eP	23 45 11
	eS	50 09
	eL	52 33
SJ	eP	23 44 15
	ePP	44 44
	eL	49 24

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SH	eP	23 45 57
	ePcP	48 15
TUC	iP	23 44 09
	i	44 18
	ePP	45 07
	eS	48 29
	eL	51 32
UK	eL	23 55 08
WASH	e(P)	23 45 10
	eL	53 43
Oct. 23, H = 23 49 04** Guatemala aftershock.		
BC	iP	23 55 12
COL	eP	23 59 31
HH	iP	23 56 28
OV	iP	23 55 14.5
PHIL	e	00 57 09
	e	59 10
	e(S)	01 02 32
	eL	08 05
PF	iP	23 55 09.0
SIT	eS	00 01 40
	eL	10 20
TUC	eP	23 54 27
Oct. 24, H = 00 23 22** Guatemala aftershock		
BC	iP	00 29 38
COL	eP	00 33 49
	e	36 43
HH	eP	00 30 47
LOG	e	00 29 43
OV	iP	00 29 33.6
	ePcP	32 27
PF	iP	00 29 29.0
	iPcP	32 22.5
SJ	e	00 30 52
	e(S)	32 30
	eL	33 33
TUC	eP	00 28 47
	ePcP	31 35
	eL	36 52
UK	eL	00 46 26
Oct. 24, H = 00 52 03* 15°N, 92°W. Guatemala aftershock. Mag. 6.2		
BH	eP	00 55 20
BER	eP	00 58 28
	eL	01 04 15
BC	eP	00 58 10
BOZ	eP	00 58 56
	eS	01 04 40
	iS	04 41
	eL	07 45
BUT	eP	00 59 06
	eS	01 04 50
	eL	08 16
CHI	eP	00 57 43
	eS	01 02 37
	eL	07 43
COL	eP	01 02 29
COLU	eP	00 56 58
	eS	01 01 16
	eL	04 10
HH	iP	00 59 25
LIN	ePP	00 58 39
	eL	01 03 29
LOG	eP	00 58 21
	i	58 41
	i	59 06
	iS	01 03 46
	eL	08 11
OV	eP	00 58 29
PHIL	e	00 57 09
	eS	01 02 32
	eL	08 05
PF	iP	00 58 06.0
RC	eP	00 58 29
	e(S)	01 04 39
	eL	05 55
SLC	eP	00 58 29
	eS	01 03 40
	eL	06 07
SJ	eP	00 57 30
	ePP	58 00
	i	58 24
	eL	01 02 24
SH	eP	00 59 13
SIT	eS	01 09 10
	eL	22 52
TUC	iP	00 57 25
	i	57 42
	i	57 59
	iPP	58 22
	i	58 31
TUC	iS	01 02 03
	iL	03 55
UK	eP	00 59 04
	eS	01 05 08
	eL	09 30
WASH	eP	00 58 12
	eL	01 04 06
Oct. 24, H = 01 45 25** Kermadec Islands region.		
COL	eP	01 59 16
Oct. 24, H = 01 52 02** Guatemala aftershock.		
BC	iP	01 58 09
COL	eP	02 02 29
LOG	e	01 58 21
	eL	02 10 21
OV	eP	01 58 10
	i	58 29
PHIL	eL	02 07 47
PF	iP	01 58 06.2
SH	eP	01 58 19
	iP	58 21
TUC	eP	01 57 24
	i	57 40
	iPP	58 11
	i	58 25
	i	58 27
	e(S)	02 01 25
	eL	05 42
Oct. 24		
COL	e(P)	04 17 23
Oct. 24		
COL	e(P)	04 37 18
Oct. 24		
OV	eP	04 56 57
PF	eP	04 56 57
TUC	eP	04 56 57
Oct. 24		
BC	iP	05 06 05
COL	eP	05 10 23
OV	eP	05 06 07
PF	iP	05 06 01.9
TUC	eP	05 05 21
	e	05 40
Oct. 24		
BC	eP	05 18 19
COL	eP	05 22 44
OV	eP	05 18 20
PF	eP	05 18 15
TUC	eP	05 17 40
	e	18 21
	e	18 24
Oct. 24, H = 05 50 15* 14½°N, 92°W. Guatemala aftershock.		
BER	eL	06 05 15
BC	iP	05 56 27
BOZ	eL	06 07 10
CHI	eL	06 03 15
COL	eP	06 00 45
	iPcP	01 22
HH	iP	05 57 43
LIN	eL	06 00 47
LOG	eP	05 56 37
OV	iP	05 56 28.8
PHIL	eL	06 02 41
PF	iP	05 56 23.7
	i	56 25
RC	eL	06 12 43
SLC	eL	06 05 07
SJ	ePP	05 56 14
	eL	06 00 36
SH	eP	05 57 30
	iPcP	59 49
TUC	iP	05 55 42
	i	55 59
	iPP	56 49
	e	59 27
	eS	06 00 21
	eL	01 06
WASH	eL	06 08 15
Oct. 24, H = 06 16 40** Guatemala aftershock.		
BC	iP	06 22 51
COL	eP	06 27 08
HH	iP	06 24 16

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OV	eP	06 22 53
PF	eP	06 22 48
TUC	eP	06 22 06
	e	22 21
	e(PP)	23 16
Oct. 24, H = 09 28 49** Guatemala aftershock.		
BH	eP	09 32 10
BC	iP	09 35 01
BOZ	eL	09 50 30
COL	eP	09 39 19
HH	iP	09 36 15
LOG	e	09 34 10
OV	iP	09 35 02.2
PHIL	eL	09 45 23
PF	iP	09 34 57.3
SLC	eL	09 47 11
SJ	ePP	09 34 54
	e	35 53
	eL	39 36
TUC	eP	09 34 15
	i	34 31
	ePP	35 18
	eS	38 47
	eL	42 08
Oct. 24		
BC	iP	12 22 48
COL	eP	12 27 05
HH	iP	12 24 03
OV	eP	12 22 49
PF	iP	12 22 44.9
Oct. 24, H = 15 55 04* 14½°N, 92°W. Guatemala aftershock.		
BC	iP	16 01 17
COL	iP	16 05 33
	iPcP	06 10
HH	eP	16 02 32
LOG	eP	16 01 26
OV	iP	16 01 18.6
PHIL	eL	16 12 14
PF	iP	16 01 13.5
SJ	eL	16 09 06
SH	eP	16 02 19
TUC	eP	16 00 32
	i	01 38
	eS	04 51
	eL	05 15
Oct. 24		
COL	eP	17 30 20
Oct. 24		
COL	eP	19 56 33
OV	eP	19 52 16.0
PF	iP	19 52 12.3
TUC	eP	19 51 30
	e(L)	20 01 58
Oct. 24, H = 22 18 42* 43½°N, 148°E. Off east coast of Hokkaido, Japan.		
BC	eP	22 30 03
COL	iP	22 26 30
HH	iP	22 29 18
OV	iP	22 30 05.8
PF	iP	22 30 07.7
SH	eP	22 29 15
Oct. 24		
COL	eP	22 43 40
OV	i(P)	22 43 33.1
PF	i(P)	22 43 40.2
SH	eP	22 43 21
Oct. 25		
COL	eP	00 36 35
	e	37 12
Oct. 25		
COL	iP	00 39 08
Oct. 25, H = 05 05 02** Guatemala aftershock.		
BC	eP	05 11 10
HH	iP	05 12 27
OV	iP	05 11 12.0
PHIL	eL	05 22 17
PF	iP	05 11 06.7
SJ	ePP	05 11 13
	eL	16 48
TUC	iP	05 10 25
	e	10 50
	eS	15 04
	eL	15 31
Oct. 25		
OV	eP	05 12 33
Oct. 25, H = 07 03 18* 26°N, 125½°E. Ryukyu Islands. Felt at Ishigaki Island. h=about 100 km.		
BC	eP	07 16 42
BOZ	eSKS	07 26 37
	iS	27 12
BUT	iS	07 27 08
COL	iP	07 13 55
	ipP	14 08
	eS	22 32
	iS	22 34
	eL	35 41
	eP'P'	42 22
HH	iP	07 16 08
	ipP	16 39
	iS	26 25
LOG	eP	07 16 19
	epP	16 51
	eL	35 37
OV	eP	07 16 41
	ipP	17 13.9
	iPP	20 35.7
PF	eP	07 16 44
SJ	ePP	07 24 57
	epPP	25 42
	e	31 45
	e(SS)	44 31
SH	eP	07 16 05
	ipP	16 35
	eSKS	26 05
	e	29 40
TUC	eP	07 17 05
	epP	17 36
	ePP	21 11
	eSKS	27 46
	ePKKP	33 35
Oct. 25, H = 08 44 07* 6½°S, 155°E. Solomon Islands.		
BC	eP	08 57 29
BOZ	eL	09 32 19
COL	eP	08 56 31
	iP	56 32
	i	57 17
	eS	09 06 50
	eP'P'	13 37
	e	14 26
HH	eP	08 57 34
	ePKKP	09 14 27
OV	iP	08 57 30.8
	ePP	09 01 16
PHIL	eL	09 47 50
PF	iP	08 57 28.3
SH	eP	08 57 02
TUC	eP	08 57 43
	ePP	09 01 36
	ePKKP	14 24
	eL	30 16
Oct. 25		
COL	e(P)	10 47 31
Oct. 25		
OV	e(P)	11 42 34
Oct. 25		
OV	e(P)	11 48 05
PF	e(P)	11 47 34
Oct. 25		
COL	e(P)	13 39 18
	e	39 51
Oct. 25		
OV	eL	14 27 07
PF	e(P)	14 23 32
TUC	eP	14 22 48
	e	23 00
	i	23 21
	e	23 48
	iS	24 08
	eL	24 27
Oct. 25		
COL	eP	14 40 49
	i(pP)	41 28
HH	eP	14 38 25
OV	e(P)	14 36 35
PF	eP	14 36 29
TUC	eP	14 36 52
	eL	46 52

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COL	eP	15 36 18
	iP	36 19
HH	eP	15 39 05
OV	iP	15 39 51
Oct. 25 COL	eP	16 17 07
Oct. 25 COL	eP	16 30 40
OV	eP	16 30 10
PF	iP	16 30 10
Oct. 25 COL	eP	16 40 11
Oct. 25 COL	eP	17 14 45
Oct. 25 COL	eP	18 45 42
Oct. 26 COL	e(P)	01 11 40
LOG	e(P)	01 07 31
OV	i(P)	01 07 48.1
PHIL	eL	01 19 20
PF	e(P)	01 07 19
SJ	eL	01 14 30
TUC	eP	01 06 37
	e(L)	15 07
Oct. 26, H = 02 44 50** Guatemala aftershock.		
BC	eP	02 51 00
COL	eP	02 55 17
PF	i(P)	02 50 56.8
TUC	eP	02 50 15
Oct. 26, H = 03 49 55* 32°S, 178°W. Kermadec Islands foreshock. Mag. about 6-1/4.		
BER	ePS	04 21 16
	eSS	27 06
	eL	51 05
BC	eP	04 02 55
BUT	eL	04 34 09
CHI	eL	04 39 48
COL	eP	04 03 39
	eSKS	14 20
	eL	34 34
HONO	eS	04 09 23
	eSS	14 25
	eL	21 20
LIN	eL	04 35 44
LOG	eSS	04 32 02
	eL	37 26
OV	eP	04 02 57
	iP	02 59.2
PHIL	eL	04 45 32
PF	eP	04 02 58
RC	eL	04 39 27
SLC	e(S)	04 14 29
	eL	41 13
SJ	eSKS	04 15 25
	ePKKP	19 03
	ePS	19 42
	eL	48 55
SH	eP	04 02 46
SIT	eL	04 41 30
TUC	eP	04 02 56
	eSKS	13 24
	eS	13 51
	eL	30 52
UK	eL	04 26 19
WASH	eL	04 55 26
Oct. 26 COL	eP	05 15 29
	iP	15 31
Oct. 26, H = 07 10 44* 21½°S, 170½°E. Loyalty Islands region. h=about 60 km.		
BC	eP	07 23 46
COL	eP	07 23 49
OV	e(P)	07 24 14
PF	iP	07 23 49.2
SH	iP	07 23 33
TUC	eP	07 23 53
Oct. 26 BC	e(P)	09 09 52
HH	iP	09 10 32
OV	iP	09 09 52.7
PF	iP	09 09 49.6
SH	iP	09 10 27
TUC	iP	09 09 24
Oct. 26 OV	i(P)	09 20 40.0
PF	i(P)	09 20 34
SJ	eL	09 15 24
TUC	i(P)	09 20 05
Oct. 26 BC	e(P)	11 19 53
OV	i(P)	11 19 45
PF	e(P)	11 19 36
	e	19 57
	eL	21 15
SH	iP	11 18 49
Oct. 26, H = 11 46 16* 38°N, 143°E. Off northeast coast of Honshu, Japan. Felt.		
COL	eP	11 54 57
HH	iP	11 57 34
SH	eP	11 57 31
TUC	eP	11 58 41
Oct. 26 SJ	eL	14 44 54
Oct. 26, H = 15 38 43* 31½°S, 178°W. Kermadec Islands. Mag. 6-1/2 - 6-3/4.		
BER	ePS	16 09 20
	e(SS)	17 00
	eSSS	21 28
	eL	37 20
BC	eP	15 51 45
	eS	16 02 31
BOZ	eL	16 21 00
BUT	eL	16 20 21
CHI	e(PS)	16 07 32
	eL	28 36
COL	eSKS	16 03 20
	eL	20 54
HONO	eL	16 03 26
T_L = 15 sec. $A_{max.}$ = 2.0mm.		
LIN	ePS	16 05 38
	eL	25 26
OV	iP	15 51 47.1
PHIL	eL	16 33 11
PF	iP	15 51 46.0
RC	eL	16 23 15
SLC	eL	16 22 07
SJ	eL	16 38 25
SH	eP	15 51 34
SIT	eSS	16 10 08
	eL	21 16
TUC	eP	15 51 44
	eS	16 02 15
	eL	15 57
UK	e	16 01 39
	e	10 05
	eL	16 19
Oct. 26 COL	eP	20 56 30
	e	56 37
Oct. 27 HH	iP	01 34 44
Oct. 27 PF	e(P)	02 03 55
TUC	iP	02 03 54
Oct. 27, H = 05 59 10* 11½°N, 139°E. Pacific Ocean about 400 miles southwest of Guam.		
COL	iP	06 11 40
	e	25 28
	e(L)	32 22
HH	eP	06 12 25
OV	e(P)	06 12 41
PF	iP	06 12 45.3
TUC	e(P)	06 13 01
	e	17 02
Oct. 27 COL	eP	06 26 27
Oct. 27 COL	e(P)	10 12 56

Date and Station	Phase	(GCT)
		h m s
Oct. 27		
COL	e(P)	17 28 44
	e	28 55
Oct. 27		
COL	iP	17 46 43
	epP	47 33
Oct. 27, H = 21 28 41* 15°S, 167°E. New Hebrides Islands.		
BC	eP	21 41 45
COL	eP	21 41 28
	iP	41 36
	eS	52 26
	eL	22 07 52
HH	e(P)	21 42 15
OV	eP	21 41 51
PF	eP	21 41 43
SH	e(P)	21 41 05
TUC	e(P)	21 41 49
	e(PP)	45 16
Oct. 27, H = 22 24 53* 23°S, 177°W. Tonga Islands region.		
BC	eP	22 37 22
COL	iP	22 37 58
	i	38 21
HH	iP	22 37 58
OV	iP	22 37 25.4
PF	iP	22 37 25.2
SH	iP	22 37 10
TUC	iP	22 37 26
Oct. 27		
COL	e(P)	23 25 58
Oct. 28		
COL	e(P)	08 07 32
Oct. 28, H = 09 05 38* 32°S, 177½°W. Kermadec Islands.		
BC	eP	09 18 38
COL	eP	09 19 22
	eL	39 00
OV	iP	09 18 42.1
PF	iP	09 18 41.5
SH	eP	09 18 28
TUC	iP	09 18 38
Oct. 28		
OV	e(P)	12 45 47
Oct. 28		
COL	eP	14 03 28
Oct. 28		
COL	eP	14 22 59
Oct. 28		
COL	eP	16 56 50
	i	56 56
HH	eP	16 59 04
	i	59 10
Oct. 28		
COL	iP	17 35 26
Oct. 28		
COL	eP	18 17 30
Oct. 28		
COL	eP	19 04 08
Oct. 28, H = 22 15 45* 14½°N, 92°W. Near coast of Guatemala. Felt. h=about 100 km.		
BER	eL	22 29 45
BC	eP	22 21 51
	iPcP	24 53
	eS	27 00
BUT	eL	22 38 03
COL	iP	22 26 08
	i(pP)	26 46
	e	32 08
	eL	45 18
HH	eP	22 23 06
	iPcP	25 17
	iS	29 06
LOG	iP	22 22 13
	eL	33 27
OV	iP	22 21 52.3
	e	25 28
PHIL	eP	22 32 39
	eS	36 48
	esS	37 24
	eL	38 30
PF	iP	22 21 47.5
	eL	31 25
RC	e	22 22 10
	e	23 18
	e(S)	28 08
	eL	30 28
SLC	eP	22 22 06
	eL	34 02
SJ	e(P)	22 21 14
	epP	21 36
	e(S)	25 50
	eL	27 02
SH	eP	22 22 47
	iPcP	25 20
SIT	eL	22 46 14
TUC	iP	22 21 06
	i(pP)	21 14
	iPP	21 48
	eS	25 46
	iS	25 48
	eL	28 38
WASH	iP	22 21 48
	i	22 30
	e(sS)	27 18
	eL	28 42
Oct. 28		
BH	eP	23 18 46
Oct. 28		
BH	iP	23 40 14
	iS	40 39
Oct. 29		
COL	iP	03 45 03
PF	iP	03 45 47.6
TUC	eP	03 48 30
Oct. 29		
COL	e(P)	04 19 55
	e	20 32
OV	e(P)	04 15 38
PF	i(P)	04 15 33.6
Oct. 29		
HH	iP	04 41 16
Oct. 29		
COL	eP	06 14 17
HH	e(P)	06 16 26
Oct. 29		
SJ	e	06 23 35
	e(S)	23 57
Oct. 29		
COL	e	06 25 01
	eL	43 25
Oct. 29		
COL	iP	10 37 35
	i(S)	37 50
	eL	38 13
HH	e(P)	10 42 27
OV	eP	10 43 59
TUC	eP	10 44 42
Oct. 29		
HH	e(P)	19 25 42
SJ	e	19 17 32
	e(S)	17 44
	e	17 48
	eL	18 06
Oct. 29		
COL	eP	19 47 44
Oct. 29		
PF	e(P)	23 07 50
Oct. 30		
HH	eP	01 05 36
OV	iP	01 05 46.4
Oct. 30		
COL	eP	02 04 10
Oct. 30, H = 02 26 10* 14°S, 173½°W. Samoa Islands region. h=about 60 km. Felt at Apia.		
BC	eP	02 37 47
COL	eP	02 38 22
	iP	38 23
	e(S)	48 33
	eL	03 03 41
HH	eP	02 38 24
	e(pP)	38 33
OV	iP	02 37 50.0
PF	iP	02 37 50.3
SH	iP	02 37 34
	i(pP)	37 43
TUC	eP	02 37 51
	iP	37 53
Oct. 30		
COL	e(P)	05 48 52
Oct. 30		
COL	e(P)	06 32 44
Oct. 30		
COL	e(P)	07 35 24
Oct. 30		
COL	iP	07 57 21
	ipP	57 30
OV	eP	07 58 14

Date and Station		Phase (GCT)
		h m s
PF	eP	07 58 06
Oct. 30		
COL	eP	09 16 43
HH	eP	09 18 43
Oct. 30		
BH	eP	10 13 04
Oct. 30, H = 10 22 57* 13½°S, 69½°W. South-eastern Peru. h=about 150 km.		
BC	eP	10 33 28
COL	eP	10 36 15
	epP	37 04
HH	iP	10 34 15
	epP	35 00
OV	iP	10 33 26.4
	ipP	34 09.6
PF	iP	10 33 23.0
SH	iP	10 34 09
TUC	iP	10 32 52
Oct. 30, H = 13 50 22* 11°S, 163°E. Solomon Islands region.		
BC	eP	14 03 26
COL	eP	14 02 53
	i	03 12
HH	eP	14 03 01
OV	eP	14 03 28
	i(pP)	03 46.6
PF	iP	14 03 29.3
SH	eP	14 03 04
TUC	eP	14 03 57
Oct. 30		
COL	e(P)	23 06 51
	e	07 42
Oct. 30		
COL	eP	23 25 22
	i	25 27
HH	iP	23 27 32
Oct. 31		
COL	iP	00 42 32
Oct. 31		
COL	eP	01 36 03

Date and Station		Phase (GCT)
		h m s
Oct. 31		
COL	eP	03 15 06
Oct. 31, H = 04 49 15* 52°N, 174°W. Andreanof Islands, Aleutian Islands.		
COL	eP	04 53 39
HH	iP	04 56 37
PHIL	eL	05 22 23
TUC	iP	04 58 09
	eL	05 20 40
Oct. 31		
COL	eP	05 10 09
PF	e(P)	05 11 14
Oct. 31		
COL	e(P)	05 15 36
	e	16 12
Oct. 31		
COL	eP	09 02 38
Oct. 31		
COL	e(P)	10 43 45
	e	44 35
Oct. 31		
COL	iP	11 44 09
	e(S)	44 29
	eL	44 51
HH	e(P)	11 48 56
	iP	49 03
TUC	eP	11 51 09
Oct. 31		
COL	eP	11 56 00
	iP	56 01
	eL	58 59
HH	iP	11 59 08
OV	eP	12 00 05
PF	eP	12 00 09
TUC	iP	12 00 42
Oct. 31		
HH	iP	17 21 41
Oct. 31, H = 19 15 16* 1/2°N, 25½°W. Mid-Atlantic Ocean		
BER	eL	19 34 15
BC	eP	19 28 19

Date and Station		Phase (GCT)
		h m s
BUR	e(S)	19 34 55
	eL	40 05
BUT	eL	19 46 50
CHI	eL	19 48 36
COLU	eL	19 49 52
HH	eP	19 28 13
LOG	eP	19 28 02
	e	39 26
OV	eP	19 28 07
	i	28 18.9
PHIL	e	19 33 37
	eL	40 15
PF	eP	19 28 16
SH	iP	19 27 14
TUC	eP	19 28 01
Oct. 31, H = 19 35 14** Gulf of California foreshock.		
BC	eP	19 38 33
BOZ	eL	19 48 00
BUR	eL	19 52 15
COL	eL	20 01 49
HH	eP	19 40 40
LIN	eL	19 46 06
OV	eP	19 38 38
	i	38 42.0
PHIL	eL	19 53 11
PF	iP	19 38 30.4
	e	42 51
RC	eP	19 40 04
	e(S)	43 55
	eL	46 36
SH	e(P)	19 40 00
SIT	eL	19 57 00
TUC	eP	19 37 28
	e(S)	39 20
	eL	40 05
Oct. 31, H = 20 22 30* 23½°N, 108°W. Gulf of California. Mag. about 5½.		

Date and Station		Phase (GCT)
		h m s
BER	e	20 30 30
	e	34 16
	eL	41 01
BC	eP	20 25 48
	eL	30 41
BOZ	eP	20 27 33
	iP	27 34
	e(PP)	28 12
	iS	31 44
	eL	34 06
BUR	eS	20 35 05
	eL	37 30
BUT	eP	20 27 36
	e(PP)	28 20
	e(S)	31 43
	eS	32 02
	eL	35 02
CHI	eP	20 27 59
	e(PP)	28 47
	eS	32 28
	i(S)	32 38
	eL	35 01
COL	eP	20 31 17
	eS	38 25
	eL	45 15
COLU	eS	20 32 40
	eL	36 42
HH	eP	20 27 59
	eL	36.4
LIN	e(P)	20 27 16
	i(S)	30 55
	eL	33 08
LOG	eP	20 26 47
OV	e(P)	20 25 53
	iP	25 54.9
	e	29 04
PHIL	iS	20 34 22
	eL	36 20
PF	eP	20 25 44
	iP	25 46.7
	eL	29 56
RC	eP	20 27 26
	iP	27 30
	iS	31 24
	eL	33 24
SJ	e	20 30 36
	ePP	31 33
	eS	36 04
	eL	37 27
SIT	eS	20 36 04
	eL	39 08

Date and Station	Phase	Phase (GCT) h m s
TUC	eP	20 24 42
	i	24 48
	eS	26 16
	eL	26 52
UK	(e)	20 27 19
	e(S)	31 03
	eL	32 07
WASH	e(S)	20 34 15
	e	39 08
	eL	40 14
Oct. 31		
OV	e(P)	21 26 40
Oct. 31		
HH	iP	22 46 04
Oct. 31		
PF	eP	23 50 28
Nov. 1, H = 01 22 57** Guatemala foreshock.		
BC	eP	01 29 06
BOZ	eL	01 45 48
COL	eP	01 33 25
COLU	e(S)	01 32 10
	eL	36 26
HH	eP	01 30 22
OV	eP	01 29 06
PHIL	eL	01 39 29
PF	iP	01 29 02.5
SJ	eL	01 34 47
TUC	eP	01 28 22
	e	30 43
	e(S)	32 56
	eL	36 46
Nov. 1		
COL	e(P)	05 09 19
Nov. 1		
HH	iP	08 23 17
	i	23 28
Nov. 1		
SJ	eP	09 42 21
	e	42 32
	iS	42 46
	eL	43 10
Nov. 1		
COL	eP	10 35 45
	i	36 04
Nov. 1		
COL	e(P)	11 52 08

Date and Station	Phase	Phase (GCT) h m s
Nov. 1		
HH	iP	12 14 43
SJ	e	12 06 42
	i(S)	07 10
	eL	07 24
Nov. 1, H = 12 45 30* 10½°N, 85°W. Near west coast of Costa Rica. h=about 60 km.		
BH	iP	12 46 41
	i(S)	48 16
BC	eP	12 52 40
BOZ	eL	13 15 00
CHI	eL	13 03 47
COL	eP	12 55 34
	eL	13 18 43
COLU	eP	12 50 42
	e(S)	55 23
	eL	58 20
HH	iP	12 53 43
	iPP	55 25
OV	iP	12 52 40.7
PHIL	eL	13 00 25
	eSeS	02 12
PF	iP	12 52 35.7
SJ	e	12 50 14
	e	51 18
	e(S)	54 07
	eL	56 26
SH	eP	12 53 40
SIT	eL	13 24 00
TUC	iP	12 51 58
	ipP	52 13
	e(PP)	53 16
	eL	13 03 20
WASH	i	12 52 15
	e	53 05
	eL	57 37
Nov. 1		
COL	eP	15 01 21
Nov. 1		
COL	iP	16 19 10
HH	e(P)	16 19 35
OV	e(P)	16 19 31
PF	eP	16 19 31
	e	20 07

Date and Station	Phase	Phase (GCT) h m s
Nov. 1		
COL	e(P)	16 34 03
OV	e(P)	16 40 58
Nov. 1		
OV	i(P)	16 51 04.2
Nov. 1		
COL	eP	17 55 27
	i	55 41
OV	e(P)	17 56 23
PF	e(P)	17 56 10
Nov. 1, H = 20 21 22 By FAS, 32°07'N, 116°28'W. Baja California. Felt at Campo. Mag. 3.9		
BC	eP	20 22 28
	eL	23 31
OV	iP	20 22 37.0
	iL	23 59.5
PF	iP	20 22 33.7
	iL	23 53.0
Nov. 2		
OV	i(P)	03 20 16.3
PF	iP	03 20 15.8
TUC	iP	03 20 15
Nov. 2, H = 05 06 22 By BERK, 39°37'N, 119°55'W. Western Nevada. Felt at Reno. Mag. 3.9		
BC	e(P)	05 07 55
	e	08 06
	e(S)	08 42
OV	e	05 08 02
	iL	09 11.2
PF	iP	05 07 50.5
	i	08 12.2
	iL	09 24.2
SH	iP	05 07 03
TUC	eL	05 12 07
Nov. 2		
OV	eP	06 29 03
Nov. 2, H = 07 07 38* 26½ N, 121 E. Off northwest coast of Formosa.		
BOZ	eL	08 01 03

Date and Station	Phase	Phase (GCT) h m s
COL	eP	07 18 36
	iP	18 39
	iPcP	19 09
	e(S)	27 48
	eL	42 10
HH	iP	07 20 45
OV	e(P)	07 21 31
SH	eP	07 20 42
Nov. 2, H = 07 30 56** Fiji Islands region. h=about 600 km.		
BC	eP	07 42 22
COL	eP	07 42 50
OV	iP	07 42 25.2
PF	iP	07 42 25.3
SH	iP	07 42 12
TUC	iP	07 42 27
	epP	44 23
Nov. 2		
OV	e(P)	08 40 08
PF	i(P)	08 40 08.6
Nov. 2		
COL	e(P)	09 06 33
OV	e(P)	09 02 34
PF	e(P)	09 02 11
TUC	e(P)	09 01 31
Nov. 2		
COL	eP	10 57 46
Nov. 2		
COL	e(P)	14 12 53
Nov. 2, H = 15 27 53* 6½°S, 129°E. Banda Sea. Felt at Darwin. h=about 60 km. Mag. 7.5		
BH	iP'	15 47 54
BER	eP'	15 47 43
	iP'	47 46
	i	50 08
	i(PKS)	52 48
	i	53 24
	iSKKS	58 04
	i	58 53
	iSKSP	16 01 48
	i	02 34
	i	08 58

Date and Station	Phase (GCT)	h m s
BER	i(SS)	16 11 53
	i	12 58
	e(SSS)	16 18
	eL	26 00
$T_{P'}$=7 sec. A=3.9mm.		
T_L =40 sec. A_{max} =4.5 mm		
T_L =19 sec. A=3.6 mm.		
BC	e(P)	15 42 48
	iP'	46 32.5
	ePP	47 43
	eSKS	53 43
	iPKKP	57 13
	eSS	16 03 25
BOZ	eP'	15 46 33
	ePP	47 33
	eSKS	53 05
	e	54 31
	eS	55 05
	eSS	16 03 23
	e(SSS)	08 06
	eL	15 09
BUT	e(P')	15 47 09
	ePP	47 37
	e	48 23
	ePPP	49 52
	e(SKKS)	54 42
	e	56 23
	e(SS)	16 04 21
	e(SSS)	08 14
	eL	15 13
CHI	eP'	15 47 06
	ePP	49 26
	e(SKS)	55 34
	eSKKS	56 07
	i(SS)	16 07 54
	e(SSS)	13 10
	eL	21 32
COL	eP	15 41 02
	iP	41 04
	iPP	45 04
	i	46 08
	eS	51 16
	iS	51 18
	i	51 52
	iPS	53 02
	e	56 28
	iPKKP	58 12
	eSS	58 34
	e(SSS)	16 02 55
COLU	eP'	15 47 10
	ePP	50 35
	e(SKS)	55 52
	e(SS)	16 09 46
	e(SSS)	15 00
	eL	23 54
HONO	iP	15 39 43
	ePP	42 46
	eS	49 15
	iS	49 16
	eSS	54 42
HONO	eSSS	15 58 15
	eL	16 06 26
T_P = 6 sec. A = 4.0mm.		
T_S = 12 sec. A = 15.0mm.		
T_L = 17 sec. A_{max}=8.0mm.		
HH	i(P)	15 42 34
	e	43 17
	iP'	46 28
	ePP	47 19
	e(PS)	56 11
	iPKKP	57 15
LIN	eP'	15 47 05
	ePP	48 54
	e	52 38
	e(SKKS)	56 20
	ePS	59 18
	e(SS)	16 06 52
	eSSS	10 06
	eL	20 20
LOG	e(P)	15 43 14
	e(S)	46 28
	iPS	47 09
	i	47 49
	e	52 33
NK	eP'	15 47 20
	iPP	50 10
	iSKKS	56 40
	e(SS)	16 08 48
	e(SSS)	14 16
	eL	31 54
OV	eP	15 42 46
	eP'	46 35
	ePKKP	57 12
PHIL	iPP	15 50 57
	iPKS	51 40
	e	56 23
	iSKKS	56 55
	i	16 01 33
	i	05 37
	iSS	08 30
	ePSPS	09 32
	i	09 44
	iSSS	13 54
	i	14 57
	eL	25 15
PF	eP	15 42 48
	eP'	46 35
	ePP	47 29
	eSKS	53 14
	i	56 30
	iPS	57 25
SLC	eP'	15 46 39
	ePP	47 40
	e	48 39
	i(SKS)	53 08
	ePS	57 18
	ePPS	58 32
	eSS	16 03 40
	eL	21 15
SJ	eP'	15 47 49
	i	48 49
	i	49 44
	i	50 42
	e(PP)	53 44
	ePPP	55 33
	iSKKS	58 48
	e(SKSP)	16 03 36
	i	04 23
	eSS	13 12
	e(SSS)	17 56
	eL	33 20
SH	eP	15 42 14
	e(P')	45 36
	e(PP)	46 25
	eSKS	52 35
	e(SKKS)	53 37
SIT	eP	15 41 31
	iPP	45 31
	ePPP	47 32
	iSKS	51 52
	iPS	54 00
	iSS	59 10
	eSSS	16 03 00
	eL	07 24
TUC	e(P)	15 43 14
	eP'	46 40
	iP'	46 41
	i	46 46
	i	47 00
	iPP	47 58
	eSKS	54 12
	iPS	57 43
	i(PKKP)	57 59
	eSS	16 04 11
	eSSS	08 32
	eL	15 48
UK	eP	15 42 08
	ePP	46 34
	e	47 31
	e	50 08
	iSKS	52 35
	e	53 07
	e	55 05
	ePPS	57 00
	iSS	16 01 53
	e(SSS)	06 38
	eL	11 39
WASH	eP'	15 47 11
	iP'	47 20
	i	48 48
	iPP	50 00
	i	50 27
	iSKS	54 33
	e	55 11
	i	59 09
	i	16 02 08
	i(PPS)	03 26
	ePSPS	09 35
	e(SSS)	12 40
	eL	22 46
Nov. 2		
OV	e(P)	16 25 47
PF	e(P)	16 25 29
SH	e(P)	16 24 54
Nov. 2		
COL	e(P)	16 41 31
Nov. 2, H = 18 14 07* $6\frac{1}{2}$°S, 129°E. Banda Sea aftershock. h=about 60 km.		
BC	iP'	18 32 47
	ePKKP	43 21
COL	iP	18 27 19
	iPKKP	44 23
	i	45 00
HH	iP'	18 32 41
OV	iP'	18 32 47.9
	e(PP)	35 12
	i	36 18
PF	iP'	18 32 48.3
TUC	iP'	18 32 54
	ePP	34 24
	e	35 26
	e(PKKP)	43 07
Nov. 2		
BC	eP	18 38 06
HH	i(P)	18 37 37
OV	iP	18 38 08.4
	e	39 40
	i	43 19
PF	iP	18 38 10.8
	i	39 43.8
	i	43 21
SH	i(P)	18 39 28
Nov. 2, H = 20 17 27* 30°N., $97\frac{1}{2}$°E. Sikang province, China.		
COL	iP	20 28 57
	i	29 01
	e(PP)	31 37
	eS	38 22
HH	iP	20 31 02
	e	34 18
Nov. 2		
OV	e(P)	20 36 17
PF	e(P)	20 36 23

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Date and Station	Phase	(GCT)
		h m s
COL	e(P)	22 29 15
Nov. 3		
COL	e(P)	00 24 16
Nov. 3, H = 06 29 42* 16°N, 67°W. About 150 miles southwest of Puerto Rico.		
BER	eL	06 36 28
COL	eP	06 41 06
HH	iP	06 38 37
SJ	iP	06 30 27
	iS	30 53
	eL	31 04
SH	iP	06 39 02
TUC	eP	06 37 42
WASH	e(P)	06 35 10
Nov. 3		
COL	iP	08 31 36
Nov. 3		
TUC	eP	08 58 54
	i	59 02
	i	59 05
	i	59 29
	i(S)	59 38
	iS	59 41
	iL	59 53
Nov. 3		
COL	e(P)	10 50 29
Nov. 3		
COL	e(P)	14 09 08
Nov. 3		
TUC	e(P)	17 23 09
Nov. 4		
COL	e(P)	01 14 01
Nov. 4		
BC	eP	02 10 46
Nov. 4		
COL	eP	03 58 25
Nov. 4		
COL	eP	05 08 02
Nov. 4		
BC	eP	05 48 42
OV	e(P)	05 48 40
PF	eP	05 48 26
	i	48 34.2
Nov. 4		
BC	e(P')	06 03 34

Date and Station	Phase	(GCT)
		h m s
Nov. 4		
BC	eP	06 10 20
OV	e(P)	06 11 12
PF	eP	06 10 57
	eL	12 50
Nov. 4		
SH	e(P)	06 56 17
	e	56 49
Nov. 4		
BC	eP	07 25 33
Nov. 4, H = 07 22 45* 15°S, 168°E. New Hebrides Islands. h=about 150 km.		
BC	eP	07 35 29
	epP	36 04
COL	eP	07 35 12
	epP	35 49
	ipP	35 54
OV	iP	07 35 31.2
	ipP	36 06.9
PF	iP	07 35 31.8
	ipP	36 06.7
SH	eP	07 35 09
	epP	35 43
	ePP	38 28
	epPP	39 00
TUC	eP	07 35 38
	ipP	36 17
Nov. 4, H = 08 56 10** About 300 miles south of Fiji Islands.		
BC	eP	09 08 58
COL	iP	09 09 23
OV	iP	09 09 02.9
PF	iP	09 09 03.1
SH	iP	09 08 48
TUC	iP	09 09 06
Nov. 4		
COL	eP	09 53 03
Nov. 4		
COL	eP	10 37 27
Nov. 4		
BC	eP	11 03 03
	i	04 30
OV	eP	11 03 09.0

Date and Station	Phase	(GCT)
		h m s
TUC	eP	11 02 27
	i	02 39
	i	02 45
	i	03 01
	i	03 07
	eS	03 14
	iS	03 15
	i	03 29
	iL	03 56
Nov. 4		
BC	eP	11 24 58
OV	eP	11 24 48
	i	25 06
	iL	27 01.2
PF	iP	11 24 32.8
	i	25 04
	eS	26 14
SLC	eL	11 28 06
TUC	eP	11 24 11
	i	24 17
	i	24 21
	i	24 40
	i(S)	24 52
	i	25 06
	eL	25 28
Nov. 4		
BC	e(P)	12 33 50
OV	e(P)	12 32 37
PF	eP	12 32 25
	iL	34 03
Nov. 4		
BC	e(P)	12 46 15
Nov. 4		
BC	e(P)	13 06 35
OV	e(P)	13 06 39
PF	eP	13 06 29
	i(S)	07 30
Nov. 4, H = 13 20 35* 31½°N, 113½°W. Sonora, Mexico		
BC	eP	13 21 45
HH	eP	13 24 36
OV	eP	13 21 52
PF	iP	13 21 43.3
	i	22 04
	iL	23 12
SLC	eL	13 24 28
TUC	e(P)	13 21 17
	iS	21 28
	iL	21 47

Date and Station	Phase	(GCT)
		h m s
Nov. 4		
COL	e(P)	14 55 05
Nov. 4		
BC	eP	15 44 57
	i	45 45
	i	52 00
OV	e(P)	15 44 25
PF	eP	15 44 07
	iS	45 27.7
Nov. 4		
OV	eP	15 51 25
PF	iP	15 51 15.4
	iL	52 35.7
Nov. 4		
COL	e(P)	17 08 32
	i	08 49
Nov. 4		
COL	i(P)	19 43 55
Nov. 4		
COL	eP	22 21 09
Nov. 5		
COL	e(P)	11 11 13
Nov. 5, H = 11 35 40 By PAS, 32°55'N, 115°27'W. Southeast of Brawley, Calif. Mag. 3.4		
Nov. 5		
BC	e(P)	11 37 02
	e(S)	37 24
	eL	37 44
OV	eP	11 36 42
	iP	36 53.1
PF	e(P)	11 36 38
	e(S)	37 27
	iL	38 05.0
Nov. 5		
COL	e(P)	15 25 12
Nov. 5, H = 16 35 20* 14½°N, 92°W. Near coast of Guatemala. Mag. 6-1/4.		
BC	iP	16 41 29
BOZ	eP	16 42 20
	eS	47 56
	eL	51 00
BUR	eP	16 42 05
	eS	47 35
	eL	49 45

Date and Station	Phase	(GCT)
		h m s
BUT	e(P)	16 42 24
	e(S)	48 10
	eL	55 57
CHI	eP	16 41 01
	e(S)	45 57
	eL	46 35
COL	iP	16 45 47
	e	49 20
	eL	17 07 16
COLU	eP	16 40 18
	e(S)	44 21
	eL	47 14
LIN	e	16 41 50
	eS	45 18
	eL	47 10
NK	eL	17 15 00
OV	iP	16 41 29.6
	e(S)	46 40
PHIL	e	16 42 35
	e(S)	46 34
	eL	49 48
PF	iP	16 41 24.7
	e(S)	46 23
SLC	e(P)	16 42 20
	e	43 14
	e(S)	47 10
	eL	48 43
SJ	e(P)	16 41 21
	iL	46 00
SH	e(P)	16 42 24
	ePP	43 57
SIT	eL	17 05 49
TUC	iP	16 40 43
	iPP	41 09
	eS	44 58
	eL	45 18
UK	e(P)	16 42 48
	ePP	43 49
	e(S)	48 31
	eL	53 20
WASH	i(P)	16 41 41
	eL	48 38

Nov. 5, H = 17 37 25* 33°N, 134½°E. Off coast of Shikoku, Japan. Felt. Mag. 6.9

BC	eP	17 50 05
BOZ	e(P)	17 49 30
	e	50 18
BOZ	e(PPP)	17 55 04
	i(S)	59 56
	eSS	18 04 50
	eSSS	08 38
	eL	11 08
BUR	eSKS	18 01 45
	eS	02 35
	ePS	04 05
	eL	17 05
BUT	e(P)	17 50 11
	eS	59 44
	e(SS)	18 04 19
	eL	10 47
CHI	e(S)	18 02 01
	eSS	08 45
	eL	17 25
COL	iP	17 47 00
	i	47 18
	e(PP)	49 35
	ePPP	50 33
	iS	54 44
	eScS	56 52
	eSS	58 46
HONO	eS	17 55 51
	eL	18 03 00

T_L = 16 sec. $A_{max.}$=1.6mm.

LIN	e(S)	18 01 18
	eL	21 40
OV	iP	17 50 04.9
	eS	18 00 36
PHIL	eS	18 02 59
	eL	19 33
PF	iP	17 50 07.3
	eS	18 00 41
SLC	eS	18 00 24
	e(SS)	05 32
	eL	11 49
SJ	e	18 02 38
	e(PS)	09 24
SH	eP	17 49 16.5
	ePP	52 25
	eS	59 00
SIT	iS	17 56 24
	iScS	57 48
	eSS	18 00 28
	eL	03 17
TUC	eP	17 50 29
	ePP	54 06
	ePPP	56 07
	eSKS	18 01 06
	eS	01 24
	eSS	07 16
	eL	14 00
UK	e	17 59 19
	e(PS)	18 03 35
	e(SSS)	09 39
	eL	09 53
Nov. 6		
COL	e(P)	05 21 25
Nov. 6		
BC	e(P)	10 01 19
OV	iP	10 01 22.0
PF	eP	10 01 22
TUC	e(P)	10 01 20
Nov. 6		
BC	e(P)	10 25 03
PF	e(P)	10 24 59
Nov. 6		
COL	eP	11 09 05
OV	e(P)	11 08 36
PF	e(P)	11 08 32
Nov. 6		
COL	e(P)	12 35 18
Nov. 6		
PF	i(P)	16 27 10.4
Nov. 6		
COL	e(P)	16 35 41
Nov. 6		
BC	iP	17 35 09.4
	i	35 11.4
	iS	35 23.9
	i	35 27.1
OV	iP	17 35 11.7
	iS	35 27.9
PF	iP	17 35 18.6
	i	35 19.3
	eS	35 40
	iS	35 41.3

Nov. 6, H = 18 26 58 By PAS, 36°35'N, 115°40'W. Near Indian Springs, Nev. Mag. 3.8

BC	iP	18 27 21.5
	iS	27 36
OV	iP	18 27 23.2
	iS	27 37
PF	iP	18 27 30.4
	i	27 31.1
	iS	27 51.0
Nov. 6		
BC	iP	19 15 43.5
	i	15 44.7
	eS	15 57
	iS	16 00.5
OV	iP	19 15 45.5
	e	16 02
	e	16 04
PF	eP	19 15 52
	iP	15 53.0
	iS	16 15.0
Nov. 6		
PF	e(P)	20 11 24

Nov. 6, H = 20 55 46 By PAS, 32°43'N, 117°50'W. Northwest of Los Coronados, Calif. Felt at San Diego. Mag. 4.4

BC	iP	20 56 50
	i	56 56
	i	57 30.5
HH	iP	20 59 35
OV	iP	20 56 59.2
	i	57 05.0
PF	iP	20 56 57.0
	i	57 04
	iS	57 50.5
	iL	58 12
TUC	eP	20 57 14
	i	57 22
	i	57 43
	i(S)	58 20
	iL	58 39
Nov. 6		
COL	e(P)	21 12 28
OV	iP	21 11 56.0
PF	iP	21 11 55.5
SH	eP	21 11 45

Nov. 6, H = 22 22 05* 7½°S, 155½°E. Solomon Islands region. Depth slightly greater than normal. Mag. 6-1/2 - 6-3/4.

BC	eP	22 35 26
	ePP	39 10
BOZ	e(S)	22 47 12
	ePS	48 35
	eSS	53 10
	eL	23 09 10

Date and Station	Phase	Phase (GCT) h m s
BUT	e(SS)	22 54 34
	eL	23 03 13
COL	iP	22 34 33
	eS	44 51
	eSS	50 32
	eSSS	53 54
	eL	23 01 04
HONO	eP	22 31 29
	eL	46 38
T_L = 18 sec. $A_{max.}$=2.5mm.		
HH	iP	22 35 32
	e	35 48
	e(PP)	38 42
LIN	eL	23 14 00
OV	iP	22 35 28.1
	ePP	39 13
PF	iP	22 35 29.4
	e(PP)	39 09
RC	eL	23 10 08
SLC	eL	23 08 40
SJ	ePP	22 45 07
	e(PPS)	56 31
	eL	23 26 10
SH	eP	22 35 02
	ePP	38 30
SIT	eS	22 45 16
	e(SS)	51 26
	eL	23 00 56
TUC	eP	22 35 40
	ePP	39 32
	e(PPP)	42 37
	ePS	48 15
	eL	23 04 14
UK	e(SS)	22 54 35
	eSKS	46 04
	eL	23 04 23
WASH	eL	23 27 04
Nov. 6		
COL	eP	23 20 15
Nov. 7, H = 01 27 37** Off west coast of Puerto Rico.		
BC	eP	01 35 54
COL	eP	01 38 46
HH	iP	01 36 17
OV	iP	01 35 53.4
PF	eP	01 35 49
SJ	eP	01 28 07
	eS	28 31
	eL	28 39
SH	eP	01 36 43
TUC	eP	01 35 12
Nov. 7		
PF	eP	04 21 50
	iS	22 14.9
Nov. 7		
COL	e(P)	06 31 30
Nov. 7, H = 06 24 40** Solomon Islands aftershock.		
BC	eP	06 37 59
COL	eP	06 37 05
OV	eP	06 38 01
PF	eP	06 38 02
SH	eP	06 37 36
Nov. 7		
HH	e(P)	08 22 24
Nov. 7		
HH	eP	10 28 22
PF	e(P)	10 27 26
Nov. 7		
COL	e(P)	12 33 04
Nov. 7		
OV	e(P)	12 50 54
TUC	eP	12 49 51
Nov. 7		
BC	e(P)	13 07 11
OV	eP	13 07 16
PF	e(P)	13 07 05
TUC	eP	13 06 13
Nov. 7		
BC	e(P)	14 11 40
COL	iP	14 08 32
OV	e(P)	14 11 58
PF	e(P)	14 12 46
TUC	eP	14 10 42
Nov. 7, H = 15 02 35 By PAS, 33°38'N, 118°01'W. Off Huntington Beach, Calif. Felt. Mag. 2.9		
BC	eS	15 04 17
OV	eP	15 03 53
	e(S)	04 50
Nov. 7, H = 15 44 37 By PAS, 34°13'N, 118°43'W. Near Santa Susana, Calif. Mag. 2.8		
BC	e(P)	15 46 13
Nov. 7, H = 16 40 55** Kurile Islands region.		
COL	iP	16 48 00
HH	iP	16 50 59
OV	iP	16 51 50.9
PF	iP	16 51 54.4
SH	iP	16 51 01
Nov. 7		
COL	e(P)	17 40 05
Nov. 7		
OV	i(P)	22 12 37.5
PF	e(P)	22 13 02
Nov. 8		
HH	iP	02 08 28
Nov. 8, H = 01 59 06* 18°S, 168°E. New Hebrides Islands.		
COL	eP	02 12 04
	e	12 31
OV	eP	02 12 14
PF	iP	02 12 13.7
	e(PP)	16 09
SH	iP	02 11 54
	i	11 56
TUC	iP	02 12 20
Nov. 8, H = 02 18 10* 9½°S, 159°E. Solomon Islands region. Mag. 7-1/4.		
BER	iPP	02 40 08
	iPKS	41 10
	i(SKKS)	47 02
	e(PPS)	52 43
	iSS	57 43
	eL	13 06
T_{PKS}=8 sec. A=1mm. T_{SS}=15 sec. A=2.2mm. T_L=20 sec. $A_{max.}$=3.4mm.		
BOZ	eP	02 31 46
	e	32 08
	iSKS	42 20
	eS	43 04
	ePS	44 28
	eSS	49 36
	eSSS	53 10
	e	55 32
	eL	03 00 36
BUR	ePP	02 38 58
	e(SKS)	44 05
	e(SKKS)	45 49
	iPS	48 53
	ePPS	51 13
	eSS	55 13
	e	58 43
	e	03 03 31
	eL	07 53
BUT	e(P)	02 32 34
	e(SKS)	42 11
	eS	42 56
	e	47 52
	eL	57 15
CHI	ePP	02 37 36
	eSKS	43 34
	eS	45 24
	ePS	47 18
	e	51 38
	e(SS)	56 24
	e(SSS)	57 16
	eL	03 02 58
COL	eP	02 30 40
	iP	30 41
	iPP	34 04
	iPPP	36 12
	iS	41 10
	iSS	46 38
	iSSS	50 00
	eL	52 29
	eP'P'	57 11
COLU	e	02 38 14
	ePP	38 20
	eSKS	44 00
	eS	46 12
	ePS	48 12
	eSS	54 32
	eL	03 09 16

Date and Station		Phase (GCT) h m s
HONO	eP	02 27 20
	eS	34 44
	eL	39 53
T_L=13 sec. A=3.0mm.		
T_L=12 sec. A_{max}=27.5mm.		
T_L=20 sec. A=5.0mm.		
HH	eP	02 31 34
	e(PP)	34 49
	e	41 34
	eSKS	42 04
	ePKKP	48 13
	eP'P'	56 47
LIN	ePP	02 37 12
	eSKS	43 13
	e(S)	44 08
	ePS	46 14
	eSS	51 45
	eL	03 06 17
NK	ePP	02 38 34
	eSKS	44 00
	eSKKS	45 17
	ePS	48 14
	eL	03 12 22
OV	iP	02 31 24.4
	ePP	35 04
	eSKS	42 00
	e(PKKP)	49 14
	e	52 52
	eP'P'	56 52
PHIL	e(P')	02 38 18
	ePP	38 50
	iPP	38 52
	eSKS	44 12
	iSKKS	45 53
	i(PS)	48 48
	eSS	55 21
	eL	03 06 44
PF	iP	02 31 27.4
	i(PP)	35 02.2
	eSKS	42 05
	ePKKP	49 16
	e	52 55
	eP'P'	56 53
	eL	03 01 23
RC	eP	02 32 08
	e	35 20
	e	41 10
	eSKS	42 50
	ePS	45 32
	eSS	51 26
	eSSS	54 44
	eL	03 04 08
SLC	eP	02 31 47
	e(PP)	34 40
	e	41 35
	eSKS	42 26
	eSS	49 20
	eL	57 22
SJ	eP'	02 37 47
	ePP	41 10
	e	45 46
	e(SKKS)	47 35
	e	50 00
	eSS	57 55
	eSSS	03 03 43
	eL	12 24
SH	iP	02 30 59
	e(PKKP)	48 22
SIT	iP	02 30 52
	i	31 00
	ePP	34 04
	ePPP	36 07
	iS	41 17
	eSS	46 54
	eL	53 43
TUC	eP	02 31 36
	e	32 13
	ePP	35 24
	iPP	35 25
	ePPP	38 11
	eSKS	42 18
	eS	43 02
	ePS	44 04
	ePKKP	48 41
	eSS	49 17
	eSSS	53 06
	eL	56 50
	eP'P'	56 52
UK	e(P)	02 31 03
	e	33 35
	eS	41 27
	e	46 30
	eL	58 47
WASH	eP	02 37 11
	ePP	38 46
	iPP	38 54
	ePS	48 35
	eL	03 16 17
Nov. 8		
COL	iP	02 38 59
Nov. 8		
COL	iP	02 45 28
Nov. 8, H = 02 36 00* $9\frac{1}{2}$°S, 159°E. Solomon Islands aftershock.		
BC	eP	02 49 13
	ePP	52 58
	e	56 55
	ePS	03 01 18
COL	iP	02 48 31
SH	iP	02 48 49
	e	57 03
Nov. 8		
COL	eP	02 55 38
Nov. 8		
COL	iP	03 00 33
OV	eP	03 01 19
PF	eP	03 01 19
Nov. 8		
COL	e(P)	04 42 54
Nov. 8		
COL	e(P)	04 48 54
Nov. 8		
COL	e(P)	04 53 21
OV	e(P)	04 53 12
PF	e(P)	04 53 03
	i	53 20.9
Nov. 8		
COL	eP	05 52 45
	iP	52 48
Nov. 8, H = 06 41 08* $9\frac{1}{2}$°S, 159°E. Solomon Islands aftershock.		
COL	iP	06 53 38
OV	eP	06 54 21
PF	iP	06 54 22.7
SH	iP	06 53 56
TUC	eP	06 54 36
Nov. 8		
COL	eP	07 35 11
PF	eP	07 35 56
Nov. 8		
COL	eP	08 23 32
Nov. 8		
COL	e(P)	08 39 12
	i	39 30
OV	e(P)	08 43 28
PF	e(P)	08 43 22
Nov. 8, H = 08 54 43 By PAS, 34°04'N, 118°41'W. Near Calabasas, Calif. Mag. 3.1		
OV	eP	08 56 00
Nov. 8		
COL	eP	09 22 51
Nov. 8		
COL	e(P)	09 34 50
Nov. 8, H = 10 07 54** East-Central Turkey.		
COL	eP	10 19 51
HH	eP	10 20 59
PF	ePP	10 26 07
Nov. 8		
COL	e(P)	10 30 32
Nov. 8, H = 11 49 22* $9\frac{1}{2}$°S, 159°E. Solomon Islands aftershock.		
BC	eP	12 02 36
COL	iP	12 01 54
OV	eP	12 02 45
PF	eP	12 02 39
Nov. 8, H = 11 53 30* $9\frac{1}{2}$°S, 159°E. Solomon Islands aftershock.		
BC	eP	12 06 44
	ePP	10 22
COL	iP	12 06 03
OV	eP	12 06 46
	ePP	10 22
PF	eP	12 06 47
	ePP	10 26
SH	iP	12 06 20
Nov. 8		
COL	eP	12 34 01
Nov. 8		
COL	iP	14 21 23
	i	21 31
OV	e(P)	14 22 06
PF	e(P)	14 22 06
Nov. 8		
COL	e(P)	14 48 48
Nov. 8		
BC	e(P)	15 55 56
OV	eP	15 55 54
PF	iP	15 56 01.7
TUC	e(P)	15 56 59
Nov. 8		
COL	iP	16 44 46

Date and Station	Phase	Phase (GCT) h m s
Nov. 8		
OV	iP	17 13 01.8
PF	iP	17 13 02.1
Nov. 8		
COL	e(P)	20 23 13
PF	e(P)	20 18 51
Nov. 8		
COL	eP	21 44 21
Nov. 8		
COL	eP	22 42 37
Nov. 8		
OV	i(P)	23 36 42.4
PF	e(P)	23 36 42
Nov. 9		
OV	e(P)	01 56 24
PF	eP	01 56 19
Nov. 9		
OV	e(P)	02 21 01
Nov. 9		
BC	e(P)	03 39 55
COL	e(P)	03 39 56
HH	e(P)	03 40 18
OV	e(P)	03 39 57
PF	eP	03 39 58
Nov. 9		
BC	e(P)	04 01 13
COL	iP	03 57 46
	eL	04 16 28
HH	iP	04 00 17
OV	eP	04 01 11
PF	e(P)	04 01 13
SIT	eL	04 23 15
Nov. 9		
COL	eP	07 44 00
HH	iP	07 45 25
Nov. 9		
COL	e(P)	09 56 08
OV	i(P)	09 52 58.7
PF	i(P)	09 51 45.0
TUC	e(P)	09 51 03

Date and Station	Phase	Phase (GCT) h m s
Nov. 9, H = 11 00 22** Andreanof Islands, Aleutian Islands.		
COL	eP	11 04 16
	iP	04 18
HH	iP	11 07 21
TUC	eP	11 09 00
Nov. 9, H = 11 54 53* 46½°N, 150°E. Kurile Islands. h=about 200 km.		
BC	eP	12 05 39
	ipP	06 18
COL	iP	12 01 53
	ipP	02 28
	e(S)	07 11
	eL	11 37
HH	iP	12 04 49
	ipP	05 25
OV	eP	12 05 37
PF	iP	12 05 40.9
	epP	06 17
SH	iP	12 04 48
TUC	iP	12 06 09
	epP	06 47
	e(PKKP)	21 10
Nov. 9, H = 12 07 46* 9½°S, 159°E. Solomon Islands aftershock.		
BC	eP	12 20 59
COL	iP	12 20 17
OV	eP	12 21 01
PF	iP	12 21 00.9
SH	iP	12 20 35
Nov. 9, H = 12 27 00* 48°N, 152°E. Kurile Islands. h=about 200 km.		
BC	i(P)	12 37 34
COL	iP	12 33 46
	ipP	34 21
HH	iP	12 36 43
	ipP	37 30
OV	e(P)	12 38 54
PF	iP	12 37 35.9

Date and Station	Phase	Phase (GCT) h m s
TUC	iP	12 38 04
Nov. 9		
COL	eP	18 08 07
Nov. 9		
HH	iP	21 53 56
Nov. 9		
COL	e(P)	23 57 54
Nov. 10, H = 00 35 42 By PAS, 34°08'N, 116°31'W. Northeast of Morongo Valley, Calif. Mag. 3.5		
OV	eP	00 36 39
	i(S)	37 14.8
PF	eP	00 36 37
	i(S)	37 14.1
Nov. 10, H = 02 14 17* 20°N, 109½°W. Revilla Gigedo Islands region. Mag. 5-1/2 - 5-3/4.		
BER	e(S)	02 28 33
	eL	31 18
BC	iP	02 18 16
	e(S)	20 55
BOZ	eS	02 24 19
	eL	27 18
BUR	eS	02 27 37
	eL	30 02
BUT	e(P)	02 20 09
	e	20 56
	e(S)	24 26
	eL	28 30
CHI	eP	02 20 08
	e(S)	24 48
	e	25 16
	eL	26 14
COL	eP	02 23 23
	eL	41 40
COLU	eS	02 25 11
HONO	eL	02 35 16
HH	eP	02 20 14
	e	22 47
	eL	30 30
LIN	eL	02 26 12
LOG	eP	02 18 58
	e	19 43
	eS	22 53
	e	23 07
	eL	24 22

Date and Station	Phase	Phase (GCT) h m s
NK	eL	02 31 00
OV	eP	02 18 20
	eL	24 44
PHIL	eS	02 26 52
	eL	29 09
PF	iP	02 18 14.0
	e(S)	21 39
RC	eP	02 19 42
	eS	23 56
SLC	eP	02 18 58
	e(S)	23 08
	eS	23 16
	eL	24 39
SJ	eS	02 28 11
	eL	03 04 00
SH	iP	02 19 27
SIT	eS	02 28 31
	eScS	32 02
	eL	31 52
TUC	eP	02 17 16
	iP	17 17
	i	17 35
	i	17 39
	e(S)	19 46
	eL	20 28
UK	e(P)	02 19 36
	e	20 14
	e(S)	23 34
	eL	25 32
WASH	eP	02 21 06
	i	21 19
	eL	29 12
Nov. 10		
TUC	i(P)	02 36 36
Nov. 10		
HH	iP	04 49 55
Nov. 10, H = 05 02 05* 16°S, 176°W. Samoa Islands region. h=about 350 km.		
BC	iP	05 13 28
COL	eP	05 13 57
	iP	13 58
	epP	15 23
	eS	23 49
HH	iP	05 14 02
LOG	eP	05 13 53
	eS	23 43
OV	iP	05 13 31.0

Date and Station	Phase	(GCT)
		h m s
PF	iP	05 13 31.6
	i(PP)	17 02
	iS	23 00.9
TUC	iP	05 13 34
	i	14 07
	e(PP)	16 35
	eS	23 07
	eSKS	23 16
	eaS	25 20
Nov. 10		
OV	eP	06 04 41
	e(S)	05 27
Nov. 10		
COL	e(P)	07 06 50
Nov. 10		
COL	e(P)	11 11 16
Nov. 10		
COL	e(P)	11 34 55
SJ	eP	11 24 22
	iS	24 44
	iL	24 57
Nov. 10, H = 17 28 15 By PAS, 39°38'N, 119°41' W. Western Nevada. Felt at Reno. Mag. 4.0		
BC	e(P)	17 30 00
OV	e(P)	17 29 56
SH	iP	17 28 57
Nov. 10		
HH	iP	18 56 25
Nov. 10		
HH	e(P)	19 49 44
Nov. 10		
HH	e(P)	20 27 15
	iP	27 26
OV	iP	20 26 39
PF	eP	20 26 36
Nov. 10		
HH	e(P)	21 17 38
Nov. 11		
COL	eP	00 25 25
OV	e(P)	00 24 59
PF	e(P)	00 24 45
Nov. 11		
COL	eP	00 35 52

Date and Station	Phase	(GCT)
		h m s
Nov. 11, H = 03 38 07* 6°S, 148°E. Off east coast of New Guinea.		
BOZ	eL	04 25 29
BUR	eL	04 37 11
COL	iP	03 50 43
	ePPS	04 02 28
	eL	12 32
HH	eP	03 51 52
	eP'P'	04 16 31
OV	ePP	03 55 58
PF	eP	03 51 56
SIT	eS	04 01 27
	eL	15 00
Nov. 11		
COL	eP	05 05 25
Nov. 11		
PF	e(P)	08 19 09
TUC	eP	08 18 13
	i	18 25
Nov. 11		
COL	eP	08 30 47
Nov. 11		
OV	e(P)	09 27 44
TUC	e(P)	09 26 41
Nov. 11, H = 09 28 23* 19½°N, 109°W. Revilla Gigedo Islands Mag. about 5-1/2.		
BER	eS	09 42 43
	eL	45 33
BC	iP	09 32 25
	e(S)	35 52
BOZ	eS	09 38 32
	eL	41 14
BUR	e(S)	09 41 41
	eL	44 21
BUT	e(P)	09 34 24
	eS	38 45
	eL	42 47
CHI	eS	09 39 15
	eL	41 02
COL	eP	09 37 36
	eSS	48 35
	eL	55 12
COLU	eS	09 39 16

Date and Station	Phase	(GCT)
		h m s
HONO	eL	09 49 47
HH	eP	09 34 23
LIN	e(S)	09 37 08
LOG	ePP	09 34 02
	eS	37 27
	eL	40 26
NK	eL	09 41 08
PF	iP	09 32 24.7
	eL	38 34
RC	iP	09 33 54
	e(PP)	34 53
	iS	38 22
	eL	40 12
SLC	e(P)	09 33 13
	e(S)	37 22
	eL	38 51
SJ	eP	09 36 08
	e	38 23
	eS	42 05
	eL	48 18
SIT	eS	09 42 42
	eL	46 00
TUC	iP	09 31 28
	i	32 22
	eS	33 56
	iS	34 03
	eL	34 20
UK	e(P)	09 33 41
	e	34 05
	eS	37 52
	eL	40 25
WASH	eP	09 35 13
	eL	48 36
Nov. 11		
HH	eP	10 40 23
OV	e(P)	10 39 36
PF	e(P)	10 39 19
	i	39 32.4
TUC	e(P)	10 39 05
Nov. 11, H = 13 51 08* 10½°N, 85°W. Costa Rica aftershock.		
BH	eP	13 52 25
	eS	54 14
BER	eL	14 03 18
BC	eP	13 58 30
BUR	eL	14 07 21

Date and Station	Phase	(GCT)
		h m s
CHI	eL	14 05 10
COL	eP	14 02 15
	i	02 25
	eL	24 00
HH	iP	13 59 25
	i(PcP)	14 01 07
LOG	eP	13 58 45
OV	eP	13 58 25
PF	iP	13 58 18.8
	i	58 26.6
SJ	e(P)	13 55 54
	i	56 04
	eL	59 45
SIT	eL	14 26 10
TUC	eP	13 57 39
	ePP	58 56
	eL	14 10 05
WASH	eL	14 08 33
Nov. 11, H = 14 19 45* 53°N, 161°E. Off east coast of Kamchatka.		
BC	e(P)	14 30 09
COL	eP	14 25 42
	e	26 11
HH	iP	14 28 52
OV	eP	14 29 48
PF	eP	14 29 52
	i	30 05.4
TUC	eP	14 30 20
Nov. 11		
BC	iP	14 37 26
COL	eP	14 41 43
	epP	42 22
HH	e(P)	14 38 40
LOG	eP	14 37 48
PF	iP	14 37 22.2
TUC	e(P)	14 36 42
	e	37 43
Nov. 11		
PF	e(P)	18 02 16
Nov. 11, H = 19 14 39 By PAS, 34°40'N, 118°50'W. South of Gorman, Calif. Mag. 3.3		

Date and Station	Phase	(GCT)
		h m s
OV	eP	19 15 58
Nov. 11, H = 19 32 28 By PAS, 34°40'N, 118°50'W. South of Gorman, Calif. Mag. 3.1		
BC	e(S)	19 34 19
	eL	34 23
Nov. 11		
COL	eP	22 30 39
Nov. 11		
HH	eP	23 33 03
OV	e(P)	23 33 46
PF	e(P)	23 33 37
Nov. 12		
BH	eP	04 14 59
Nov. 12		
BH	eP	04 35 46
Nov. 12		
BH	iP	05 22 44
	iS	23 10
Nov. 12		
OV	i(P)	07 51 55.1
Nov. 12, H = 08 26 26 By BERK, 40.7°N, 124.9°W. Off Cape Mendocino, Calif. Felt at Ferndale. Mag. 3.7		
SH	eP	08 27 00
Nov. 12		
COL	e(P)	09 28 04
OV	e(P)	09 28 42
PF	e(P)	09 28 43
Nov. 12		
OV	e(P)	11 15 43
Nov. 12		
BH	iP	13 11 23
HH	eP	13 18 11
	i	19 54
OV	eP	13 17 19
PF	e(P)	13 17 06
TUC	e(P)	13 16 35
Nov. 12		
COL	eP	14 04 35
		h m s
OV	e(P)	14 08 24
Nov. 12		
COL	e(P)	14 50 39
Nov. 12		
OV	e(P)	18 08 36
PF	e(P)	18 08 37
Nov. 12		
OV	iP	19 10 59.8
PF	iP	19 11 01.8
SH	iP	19 10 24
Nov. 12		
OV	eP	19 26 45
Nov. 12		
OV	iP	20 10 35.1
PF	iP	20 10 35.3
SH	iP	20 10 22
Nov. 12		
COL	eP	21 42 16
	iP	42 21
HH	eP	21 44 41
OV	e(P)	21 49 17
PF	e(P)	21 49 44
Nov. 12		
OV	e(P)	22 04 08
PF	e(P)	22 04 29
Nov. 12, H = 23 32 28 By PAS, 34°01'N, 116°00'W. Little San Bernardino Mts., Calif. Mag. 3.8		
OV	iP	23 33 19.3
	iS	33 59.3
PF	eP	23 33 09
	i(S)	33 51.1
Nov. 13		
COL	eP	00 03 03
OV	iP	00 04 01.5
PF	iP	00 04 02.9
Nov. 13		
COL	eP	08 08 21
OV	e(P)	08 08 59
PF	eP	08 09 01
		h m s
Nov. 13		
COL	e(P)	08 46 39
Nov. 13		
BH	iP	13 31 37
	iS	31 59
Nov. 14, H = 02 04 40 By BERK, 40°29'N, 121°30'W. Mt. Lassen, Calif. Felt at Mineral. Mag. 4.1		
BC	e(P)	02 07 03
	eL	08 27
HH	eP	02 07 01
OV	i(P)	02 06 54
	iL	08 14
PF	iL	02 08 30
SH	iP	02 04 54.5
	iS	05 05.5
TUC	eL	02 10 20
Nov. 14, H = 02 35 50 By BERK, 40°29'N, 121°30'W. Mt. Lassen, Calif. Felt at Mineral, Chester, Lake Almanor, and Butte Valley. Mag. 4.6		
BC	e(P)	02 38 01
	eL	39 25
HH	eP	02 38 06
	e	38 10
LOG	e(P)	02 37 58
	e	38 34
	eL	39 13
OV	eP	02 37 33
	i	37 58.4
	i	39 23.2
PF	e(P)	02 37 29
SH	iP	02 36 04.5
TUC	eP	02 38 43
	eL	42 12
UK	eP	02 36 25
	eL	36 57
Nov. 14		
OV	e(P)	02 48 19
Nov. 14, H = 04 15 By BERK, Mt. Lassen aftershock. Mag. 3.2		
		h m s
BC	e(P)	04 17 13
	eL	18 39
HH	eP	04 17 17
OV	e(P)	04 17 07
	iL	18 31.7
PF	e(P)	04 17 02
SH	iP	04 15 12
	iS	15 23
TUC	eL	04 21 28
UK	eP	04 15 39
	eL	16 20
Nov. 14, H = 04 23 46* 11°S, 161°E. Solomon Islands		
BER	ePP	04 45 23
	ePKS	46 28
	e	54 42
	e(PPS)	57 14
	eSS	05 03 06
	eL	27 58
BC	eP	04 36 53
BOZ	e(S)	04 49 00
	ePS	49 40
	e(PPS)	51 02
	e(SS)	55 32
	eL	05 04 18
COL	eP	04 36 19
	i	36 51
	e(SS)	51 45
HONO	eL	04 46 36
HH	eP	04 37 05
LOG	ePS	04 49 22
	eL	05 09 55
OV	eP	04 36 58
	ePP	40 35
PF	iP	04 36 56.4
SJ	iPKS	04 46 36
	e(SKS)	49 56
	ePS	56 36
	eL	05 28 33
SH	eP	04 36 28
SIT	eS	04 47 04
	eL	05 05 04
TUC	eP	04 37 07
	eL	05 07 12
WASH	eL	05 27 09

Date and Station	Phase	(GCT)
		h m s
Nov. 14, H = 04 32 00** Solomon Islands aftershock.		
BC	eP	04 45 08
COL	eP	04 42 11
	e	42 35
HH	eP	04 45 23
OV	eP	04 45 12
PF	eP	04 45 12
TUC	eP	04 45 23
Nov. 14		
BC	e	05 35 31
Nov. 14, H = 05 35 By BERK, Mt. Lassen aftershock. Mag. 3.6		
HH	eS	05 38 57
OV	e(P)	05 37 12
PF	e(P)	05 37 28
SH	iP	05 35 18
	iS	35 29
TUC	eL	05 41 38
Nov. 14, H = 06 34 32 By BERK, 40°29'N, 121°30'W. Mt. Lassen aftershock. Mag. 4.5		
BC	eP	06 36 14
	e	36 39
	e	36 57
BOZ	eL	06 39 30
HH	eP	06 36 53
	eL	39 41
LOG	eP	06 36 22
	e	36 52
	e(S)	37 57
	eL	38 24
OV	iP	06 36 19.5
	eL	38 09
PF	iP	06 36 23.4
TUC	eP	06 37 29
	eL	40 50
UK	e(P)	06 35 14
	eL	35 54
Nov. 14		
HH	e(P)	07 54 53

Date and Station	Phase	(GCT)
		h m s
Nov. 14, H = 08 32 34** Solomon Islands aftershock.		
BC	eP	08 45 43
COL	iP	08 45 09
HH	eP	08 45 55
OV	eP	08 45 41
PF	iP	08 45 45.8
SH	iP	08 45 20
TUC	eP	08 45 58
Nov. 14		
COL	eP	12 42 46
HH	iP	12 46 09
Nov. 14		
COL	e(P)	13 01 30
	e	02 12
	e	02 18
Nov. 14		
COL	eP	13 32 27
HH	e(P)	13 35 23
SH	eP	13 35 34
Nov. 14		
COL	e(P)	15 14 59
HH	e(P)	15 13 03
Nov. 14		
HH	eP	16 02 21
OV	e(P)	16 04 40
Nov. 14		
COL	iP	21 23 22
	e	23 37
PF	eP	21 27 15
TUC	iP	21 27 44
Nov. 14		
COL	eP	21 57 47
	eL	22 20 34
HH	eP	21 49 49
SJ	eS	21 51 51
	eL	55 40
TUC	e(P)	21 47 52
	e	48 21
	e	56 27
	eL	59 16

Date and Station	Phase	(GCT)
		h m s
Nov. 14, H = 21 55 53 By BERK, 40°29'N, 121°30'W. Mt. Lassen aftershock. Felt at Caribou Powerhouse. Mag. 4.0		
HH	eP	21 58 14
OV	eL	21 59 29
TUC	eL	22 02 38
UK	e(P)	21 56 34
	eL	57 27
Nov. 14		
COL	iP	22 17 31
	eL	54 17
Nov. 14		
COL	e(P)	22 56 42
Nov. 15		
OV	e(P)	00 04 50
Nov. 15		
COL	e(P)	01 11 05
Nov. 15		
COL	e(P)	01 26 01
Nov. 15		
LOG	e	03 11 20
Nov. 15, H = 03 22 42 By BERK, 40°29'N, 121°30'W. Mt. Lassen aftershock. Mag. 4.1		
HH	iP	03 25 06
OV	e(P)	03 24 52
	iL	26 14
UK	e(S)	03 23 44
	eL	24 26
Nov. 15		
COL	e(P)	08 10 03
Nov. 15		
COL	e(P)	12 48 01
Nov. 15		
LOG	e	21 49 07
Nov. 15		
BC	e(P)	22 59 46
COL	iP	22 56 04
HH	i(P)	22 58 58
PF	i(P)	22 59 48.3
Nov. 15		
HONO	e	23 53 39

Date and Station	Phase	(GCT)
		h m s
Nov. 16, H = 00 57 15** Marianas Islands region. h=about 100 km.		
BC	iP	01 09 57
COL	eP	01 07 40
	iP	07 42
	e(S)	16 42
	eL	23 10
HH	iP	01 09 38
LOG	eP	01 09 58
OV	iP	01 09 58.2
PF	iP	01 09 59.9
SH	iP	01 09 20
TUC	iP	01 10 18
	ipP	10 47
Nov. 16		
OV	i(P)	02 08 33.9
Nov. 16		
COL	eP	04 52 50
Nov. 16, H = 05 26 49* 41½°N, 145°E. Off coast of Hokkaido, Japan. h=about 60 km.		
BC	e(P)	05 38 23
COL	eP	05 34 53
	i	34 59
	eL	44 54
HH	iP	05 37 38
	ipP	37 51
OV	eP	05 38 22
	ipP	38 35.3
PF	iP	05 38 24.8
	ipP	38 37.9
SH	iP	05 37 35
	ipP	37 46
TUC	iP	05 38 50
Nov. 16, H = 07 08 29** Solomon Islands.		
COL	eP	07 20 55
OV	eP	07 21 53
PF	eP	07 21 55
Nov. 16		
OV	e(P)	08 58 03

Date and Station	Phase	Phase (GCT) h m s
Nov. 16		
COL	e(P')	09 09 10
HH	iP'	09 10 26
OV	e(P')	09 10 43
PF	e(P')	09 10 44
Nov. 16		
BC	e(P)	09 14 02
COL	e(P)	09 20 50
OV	eP	09 14 05
TUC	e(P)	09 14 27
	e	14 28
Nov. 16		
COL	iP	09 39 10
	eL	50 40
Nov. 16		
OV	e(P)	10 02 00
	e	03 03
PF	e(P)	10 03 05
Nov. 16, H = 13 12 11* 32°S, 180. Kermadec Islands region.		
BC	eP	13 25 20
COL	eP	13 25 58
OV	iP	13 25 22.8
PF	eP	13 25 22
SH	eP	13 25 11
TUC	iP	13 25 21
Nov. 16		
BC	e(P)	15 23 28
COL	eP	15 27 48
TUC	iP	15 22 42
Nov. 16		
COL	iP	15 41 04
Nov. 16		
COL	iP	16 05 28
Nov. 16		
PF	e(P)	16 40 47
Nov. 16		
COL	e(P)	17 01 49
OV	e(P)	16 58 49
PF	i(P)	16 58 47.0
TUC	iP	16 58 15
	i	58 35
Nov. 16		
COL	eP	21 16 48
Nov. 17, H = 03 46 51 By PAS, 33°55'N, 118°19'W. Near Hawthorne, Calif. Felt at Los Angeles. Mag. 3.8		
OV	eP	03 47 56
	iL	49 02.7
PF	iP	03 47 55.5
	iS	48 44.4
	iL	49 04.0
Nov. 17		
OV	iP	04 07 08.4
PF	iP	04 07 08.1
TUC	iP	04 07 09
Nov. 17		
COL	e(P)	05 13 02
Nov. 17		
COL	e(P)	06 26 04
Nov. 17		
COL	e(P)	09 18 57
Nov. 17, H = 11 57 23 By PAS, 34°08'N, 115°50'W. Pinto Mts., Calif. Mag. 3.3		
OV	eP	11 58 16
	iS	58 55
PF	eP	11 58 08
	iL	58 48.2
	i	58 46.8
Nov. 17		
COL	eP	12 00 28
Nov. 17		
BC	e(P)	12 43 02
HH	iP	12 44 18
TUC	e(P)	12 42 19
Nov. 17		
OV	e(P)	13 24 12
Nov. 17		
HH	iP	14 45 38
Nov. 17		
COL	eP	14 59 53
Nov. 17		
COL	e(P)	15 14 30
	e	14 39
HH	i(P)	15 17 28
Nov. 17		
COL	e(P)	15 43 26
Nov. 17, H = 15 57 40* 6°N, 36°W. Mid-Atlantic Ocean.		
BER	eL	16 13 48
BC	e(P)	16 09 47
HH	eP	16 09 37
OV	eP	16 09 40
PF	eP	16 09 37
TUC	eP	16 09 21
Nov. 17, H = 19 28 23* 17½°N, 100½°W. Near coast of Mexico. Felt on board S.S. Corrientes at 17°00'N, 100°35'W. h=about 60 km. Mag. 6-3/4.		
BH	eP	19 33 23
BER	eP	19 35 16
	iP	35 17
	ePP	36 39
	eS	40 40
	isS	41 08
	eL	44 03
T_P = 6 sec. A=.5mm. T_S = 11 sec. A=.7mm. T_L = 20 sec. $A_{max.}$=1.6mm		
BC	iP	19 33 24
	e(S)	37 40
	eL	39 00
BOZ	eP	19 34 28
	e(PP)	35 40
	eS	39 26
	eL	42 00
BUT	i(P)	19 34 36
	ePP	35 23
	e(S)	39 38
	eL	42 30
CHI	iP	19 34 00
	i(PP)	34 34
	e	35 23
	iS	38 37
	i	39 17
	eL	39 53
COL	eP	19 38 07
	iP	38 08
	i	38 45
	iS	46 01
	e(SS)	48 56
	eL	52 04
COLU	iP	19 33 38
	iS	38 00
	eL	38 50
HONO	iP	19 37 48
	eL	53 36
T_L = 18 sec. $A_{max.}$=1.5 mm.		
HH	iP	19 34 56
	eS	40 01
LIN	eP	19 33 25
	ePP	35 00
	e	35 29
	e(S)	37 51
	eL	39 19
LOG	eP	19 33 57
	iP	33 58
	i	34 26
	iPP	34 41
	i	34 51
	iS	38 31
	i	38 44
	iL	40 55
NK	eP	19 34 22
	e	36 24
	e	38 06
	eS	39 22
	e	40 28
	eL	41 02
OV	iP	19 33 26.4
	i(S)	37 51.6
	iL	40 21.5
PHIL	eP	19 34 35
	iP	34 37
	iS	39 49
	eL	41 36
PF	iP	19 33 20.6
	i(S)	37 59.6
	iL	39 58.1
SLC	eP	19 33 48
	eS	38 15
	eL	40 41
SJ	i(P)	19 34 59
	eS	40 05
SIT	eP	19 37 02
	ePP	38 54
	iS	43 58
	eScS	46 53
	eSS	47 34
	eL	50 15

Date and Station		Phase (GCT)
		h m s
TUC	iP	19 32 29
	i	33 51
	e	35 03
	eS	35 54
	iS	35 57
	iL	37 14
UK	e(P)	19 34 37
	iS	39 29
	eL	42 24
WASH	iP	19 34 28
	eS	39 26
	eL	41 12
Nov. 17		
COL	e(P)	21 20 27
Nov. 17, H = 22 01 04* 39°N, 70°E. Tadzhik, S.S.R.		
COL	eP	22 12 31
	iP	12 32
HH	iP	22 14 20
Nov. 18		
COL	eP	00 56 00
Nov. 18		
OV	e(P)	03 23 41
PF	e(P)	03 23 38
Nov. 18		
SJ	e	04 01 54
	eL	02 51
Nov. 18		
BC	e(P)	04 10 58
	eL	11 30
OV	iP	04 10 52.7
	i(S)	11 17.2
PF	iP	04 10 50.6
	iL	11 15.2
Nov. 18, H = 04 57 52 By PAS, 36°00'N, 116°25'W. West of Shoshone, Calif. Mag. 3.5		
BC	iP	04 58 25
	iS	58 47
OV	iP	04 58 33.0
	iS	58 58
PF	iP	04 58 37.0
	i	58 38.0
	iS	59 07.9
Nov. 18		
TUC	e(P)	11 08 10
	e	08 40

Date and Station		Phase (GCT)
		h m s
Nov. 18		
BC	e(P)	11 13 00
	e	13 36
COL	eP	11 12 47
OV	iP	11 13 03.5
	ipP	13 39.0
PF	iP	11 13 03.5
	ipP	13 39.2
Nov. 18		
SJ	e	12 26 38
	e(S)	27 00
	eL	27 21
Nov. 18		
SJ	e	13 45 05
Nov. 18		
COL	iP	16 20 22
PF	i(P)	16 20 02.3
Nov. 18		
COL	iP	16 52 21
Nov. 18		
SJ	eP	18 01 22
	e	01 33
	e(S)	01 46
	eL	02 08
Nov. 18		
OV	e(P)	20 55 10
PF	e(P)	20 55 07
TUC	e(P)	20 54 45
Nov. 18		
COL	eP	22 00 43
Nov. 18		
HH	e(P)	22 16 21
OV	e(P)	22 16 22
Nov. 18		
COL	e(P)	23 21 20
HH	iP	23 23 27
SH	e(P)	23 23 17
Nov. 18		
SJ	e	23 48 42
	e	49 06
	eL	49 35
Nov. 19		
BC	eP	04 27 01
	iP	27 02
	iS	27 19
PF	iP	04 27 02.0
	iS	27 20.4

Date and Station		Phase (GCT)
		h m s
Nov. 19		
COL	eP	06 39 17
TUC	eP	06 34 09
Nov. 19		
COL	eP	07 41 33
	e(S)	42 26
HH	eP	07 44 07
OV	e(P)	07 44 59
SH	eP	07 44 26
Nov. 19		
HH	eP	09 58 37
OV	iP	09 57 19
	i	57 23
SH	iP	09 57 34
	i(pP)	57 40
TUC	iP	09 56 58
Nov. 19		
SH	e(P)	10 35(38)
Nov. 19		
COL	e(P)	20 52 50
HH	e(P)	20 53 34
OV	i	20 56 24.2
PF	e(P)	20 54 08
SH	e(P)	20 53 50
Nov. 19		
COL	e(P)	21 39 10
PF	e(P)	21 39 03
Nov. 19, H = 21 34 56** Tadzhik, S.S.R. aftershock.		
COL	iP	21 46 24
HH	eP	21 48 11
	i	48 18
Nov. 19, H = 23 43 31 By BERK, 39°43'N, 125°31'W. Off Cape Mendocino, Calif. Mag. 4.2		
BC	eL	23 47 57
HH	eP	23 46 40
OV	e(P)	23 46 15
	iL	47 56.2
PF	e(P)	23 46 25

Date and Station		Phase (GCT)
		h m s
TUC	eL	23 50 46
Nov. 20		
OV	iP	00 37 17.4
PF	i(P)	00 37 17.2
Nov. 20		
BER	eL	05 11 58
SJ	iP	05 07 02
	i	07 21
	i(S)	07 31
	eL	08 02
Nov. 20		
COL	e(P)	11 39 39
HH	iP	11 41 42
Nov. 20		
BC	e(P)	12 08 40
COL	e(P)	12 13 03
OV	e(P)	12 08 39
	i	08 46.7
PF	e(P)	12 08 36
TUC	e(P)	12 07 46
Nov. 20		
COL	e(P)	12 46 37
	e	46 39
	i	46 51
HH	eP	12 45 42
OV	e(P)	12 45 32
PF	e(P)	12 47 28
TUC	e(P)	12 45 20
Nov. 20		
OV	i(P)	13 21 38.4
Nov. 20		
COL	iP	18 44 17
	i(S)	45 43
	iL	45 48
HH	eP	18 47 20
Nov. 20		
PF	e(P)	21 28 49
Nov. 21		
BC	eP	01 48 06
COL	e(P)	01 47 29
	e	52 02
OV	eP	01 48 07
	e	51 52
PF	e(P)	01 48 08

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Date and Station	Phase	Phase (GCT) h m s
PF	e(P)	01 48 08
SH	e(P)	01 47 42
Nov. 21 COL	e(P)	02 59 03
Nov. 21 COL	e(P)	05 34 15
Nov. 21, H = 07 10 03* 29°N, 96°E. China-India border.		
COL	eP	07 21 42
	iP	21 43
	ePP	24 45
HH	eP	07 23 44
OV	ePP	07 29 01
PF	ePP	07 29 15
Nov. 21 COL	e(P)	08 21 23
Nov. 21 COL	eP	11 20 35
Nov. 21 COL	eP	13 32 31
Nov. 21, H = 13 55 58* 20½°S, 65°W. Southern Bolivia. h=about 300 km.		
BC	eP	14 07 02
HH	iP	14 07 46
OV	iP	14 07 03
	ipP	08 09.9
PF	iP	14 06 59.8
SJ	iP	14 02 59
	i	03 18
SH	iP	14 07 41
TUC	iP	14 06 32
Nov. 21 COL	eP	15 36 26
Nov. 21 COL	eP	19 14 40
Nov. 21 BC	e(P)	20 33 59
HH	e(P)	20 34 39
OV	e(P)	20 33 52
PF	e(P)	20 33 48
SH	eP	20 34 17
TUC	e(P)	20 33 24
Nov. 21 BC	e(P)	20 49 29
COL	eP	20 49 42
HH	eP	20 49 45
OV	eP	20 49 30
PF	eP	20 49 33
SH	eP	20 49 10
Nov. 21 COL	eP	21 05 25
Nov. 21 OV	e(P)	21 22 14
PF	e(P)	21 22 11
TUC	e(P)	21 21 46
	e	22 04
Nov. 21 COL	eP	21 30 42
Nov. 21 COL	eP	22 03 42
Nov. 21, H = 22 21 18* 3½°S, 147°E. Off northeast coast of New Guinea.		
COL	eP	22 33 42
HH	eP	22 35 00
PF	eP	22 35 03
SJ	eP'	22 40 52
SH	iP	22 34 33
Nov. 21 PF	e(P)	23 06 10
Nov. 22 BC	eP	06 36 55
OV	eP	06 36 55
	iL	38 26.9
PF	eP	06 37 02
Nov. 22 COL	eP	06 55 25
Nov. 22 COL	e(P)	07 07 49
Nov. 22 OV	eP	07 59 21
TUC	e(P)	07 59 58
Nov. 22 TUC	eP	09 12 34
Nov. 22, H = 10 16 28* 51½°N, 176½°W. Andreanof Islands, Aleutian Islands. Felt on Adak. h=about 60 km. Mag. 6-3/4.		
BER	eS	10 37 58
	eSS	43 15
	eL	47 36
BC	eP	10 24 50
	ipP	26 29
BUT	eP	10 24 28
	e(S)	30 30
	eL	33 35
CHI	eP	10 26 20
	eS	34 20
	eL	43 15
COL	eP	10 21 00
	iP	21 03
	i(pP)	21 28
	iS	24 50
	eL	26 41
COLU	eS	10 36 16
	eL	47 32
HONO	eP	10 23 04
	eS	28 27
	eL	30 21
T_L = 15 sec. $A_{max.}$=2.0mm.		
HH	iP	10 23 56
	i(PcP)	26 11
	iS	29 50
	eScS	34 00
LOG	iP	10 24 36
	i(pP)	25 02
	ePPP	26 55
	eS	31 06
	eScS	34 30
	eL	35 30
OV	iP	10 24 49.3
	e	30 17
PHIL	eP	10 27 17
	e	30 45
	eS	36 05
	eL	46 18
PF	iP	10 24 55
RC	eP	10 25 06
	ePP	27 14
	eS	31 59
	e(SS)	35 42
	eL	37 54
SLC	eP	10 24 41
	eS	31 15
	eL	39 38
SJ	iP	10 29 17
	i	29 23
	eS	39 38
	eSS	45 21
	eL	52 22
SH	iP	10 23 48
	eS	29 46
SIT	iP	10 21 46
	e(PP)	22 48
	i	23 14
	eS	26 05
	eL	27 08
TUC	iP	10 25 27
	ipP	25 40
	i	25 48
	iPP	27 28
	eS	32 39
	e(ScS)	35 26
	e(SS)	36 30
	eL	37 05
UK	eP	10 23 50
	ePPP	25 48
	eS	29 53
	eL	32 40
WASH	e(P)	10 27 14
	eL	54 33
Nov. 22 COL	i(P)	10 28 04
	i	28 59
	eS	32 30
Nov. 22 HONO	e	10 58 15
PF	e(P)	10 54 53
Nov. 22 COL	e(P)	11 29 55
Nov. 22 COL	eP	13 12 39
OV	e(P)	13 18 23
PF	e(P)	13 17 21
TUC	e(P)	13 17 53
Nov. 22 COL	e(P)	15 13 06
Nov. 22 HH	iP	17 51 34
Nov. 22 HH	eP	17 55 17

Date and Station	Phase	(GCT) h m s
Nov. 22		
HH	iP	18 04 53
Nov. 22		
HH	iP	18 59 09
SH	e(P)	18 59 37
Nov. 22		
COL	e(P)	23 16 13
Nov. 23		
HH	eP	01 08 18
OV	e(P)	01 08 09
PF	e(P)	01 08 39
SH	eP	01 08 01
TUC	e(P)	01 08 09
	e	08 13
Nov. 23		
COL	eP	04 15 23
Nov. 23		
OV	e(P)	04 32 24
PF	e(P)	04 22 02
Nov. 23		
PF	e(P)	06 20 18
Nov. 23		
HH	eP	06 30 21
Nov. 23		
HH	iP	07 03 21
Nov. 23		
COL	eP	07 16 04
	e(pP)	16 44
OV	e(P)	07 16 21
PF	e(P)	07 16 53
Nov. 23		
BC	e(P)	09 13 17
COL	eP	09 17 11
HH	eP	09 14 20
OV	e(P)	09 13 19
PF	iP	09 13 43.9
Nov. 23		
COL	eP	09 29 40
Nov. 23, H = 13 58 24 By BERK, 36°49'N, 121°31'W. Southwest of Hollister, Calif. Felt at Hollister and Watsonville. Mag. 4.1		
BC	e(P)	14 00 06
	eL	01 25
OV	eP	13 59 56
PF	e(P)	14 00 29
SH	eP	13 59 25
TUC	eP	14 00 54
	eL	04 02
Nov. 23		
COL	eP	13 07 54
Nov. 23		
BC	eP	15 24 13
COL	eP	15 24 07
	i	24 14
	ipP	25 11
HH	e(P)	15 24 34
OV	eP	15 24 15
PF	iP	15 24 16.7
TUC	e(P)	15 24 21
Nov. 23		
COL	eP	22 05 16
	iP	05 21
Nov. 24		
COL	eP	01 20 11
Nov. 24		
COL	eP	02 17 53
	iP	17 56
Nov. 24		
BC	e(P)	03 17 01
OV	eP	03 17 02
PF	eP	03 16 56
TUC	e(P)	03 15 58
	i	16 05
	e	17 15
	e(S)	20 11
	eL	21 04
Nov. 24		
PF	e(P)	05 42 28
Nov. 24		
COL	eP	07 35 07
	iP	35 09
OV	e(P)	07 39 01
PF	e(P)	07 39 07
Nov. 24		
HH	iP	10 01 06
OV	e(P)	10 01 21
	e	04 48
PF	e(P)	10 01 24
Nov. 24		
COL	e(P)	11 51 17
PF	e(P)	11 50 46
Nov. 24, H = 13 03 42* 15°S, 173°W. Samoa Islands. Mag. 6-1/4 - 6-1/2.		
BC	eP	13 15 29
BOZ	eL	13 44 52
COL	eP	13 16 05
	iP	16 07
	eS	26 20
	eL	41 04
HH	eP	13 16 04
LOG	eL	13 37 48
OV	eP	13 15 30
PF	iP	13 15 30.6
RC	eL	13 46 02
SLC	eS	13 25 42
	eL	37 16
SH	eP	13 15 13
TUC	eP	13 15 32
	i	15 49
	eS	25 21
	eScS	26 02
	eL	36 31
UK	e(S)	13 24 30
	eL	33 16
Nov. 24		
COL	eP	13 28 13
Nov. 24		
COL	eP	13 39 10
OV	e(P)	13 38 43
Nov. 24		
COL	eP	13 45 42
	ipP	46 04
OV	e(P)	13 45 16
PF	e(P)	13 45 12
Nov. 24		
COL	e(P)	15 00 38
Nov. 24		
HH	iP	16 54 00
Nov. 24		
COL	eP	18 10 35
HH	e(P)	18 12 53
SH	e(P)	18 12 50
Nov. 24		
OV	e(P)	20 15 14
Nov. 24, H = 20 18 48* 15°S, 173°W. Samoa Islands. Mag. 6-1/4 - 6-1/2.		
BER	e(SKKS)	20 45 33
	ePS	48 23
	eL	21 15 58
BC	eP	20 30 33
BOZ	eS	20 41 32
	e	48 16
	eL	59 00
BUT	eS	20 41 25
	eL	58 12
COL	iP	20 31 10
	i	31 13
	eS	41 22
	eL	55 42
HONO	eS	20 32 39
	eL	36 28
HH	eP	20 31 03
LOG	eP	20 31 00
	eS	41 03
	eL	54 23
OV	iP	20 30 36.6
PHIL	e	20 43 36
	e(SS)	46 33
	eL	52 27
PF	eP	20 30 35
	i	30 36.6
SLC	e(S)	20 40 56
	eL	52 21
SH	eP	20 30 19
TUC	eP	20 30 38
	eS	40 14
	eScS	41 07
	eL	51 51
Nov. 24		
COL	iP	21 17 09
	eL	18 10
HH	iP	21 21 44

Date and Station	Phase	Phase (GCT) h m s
PF	e(P)	21 23 16
Nov. 24 COL	iP	22 43 31
Nov. 24 COL	e(P)	22 49 45
	e	53 55
HH	eP	22 49 25
OV	e(P)	22 51 42
PF	e(P)	22 51 42
SH	e(P)	22 50 22
Nov. 24 PF	e(P)	23 03 49
Nov. 24 HH	e(P)	23 31 26
SH	e(P)	23 31 41
Nov. 24 BC	e(P)	23 33 14
COL	i(P)	23 32 35
HH	iP	23 34 02
OV	iP	23 33 15.6
	i	33 29.2
PF	iP	23 33 12.3
	ipP	33 24
SJ	e	23 30 01
SH	eP	23 33 51
TUC	eP	23 32 45
	i	32 59
Nov. 25 OV	eP	01 13 57
PF	e(P)	01 13 57
TUC	iP	01 14 00
Nov. 25 COL	e(P)	01 29 08
Nov. 25 COL	eP	03 02 10
	iP	02 11
OV	e(P)	03 01 42
PF	e(P)	03 01 36
Nov. 25 COL	eP	03 25 55
Nov. 25, H = 05 21 30** Samoa Islands region. Felt at Apia.		
BC	eP	05 32 59
COL	eP	05 33 37
	iP	33 38
HH	eP	05 33 28
OV	iP	05 33 03.4
	i	33 17.9
PF	eP	05 33 02
SH	e(P)	05 32 39
TUC	eP	05 33 06
	e	35 16
	eScS	43 40
	eL	06 01 38
Nov. 25 SJ	eP	10 33 12
TUC	eP	10 36 10
Nov. 25 BC	e(P)	12 11 05
HH	e(P)	12 11 54
OV	e(P)	12 11 06
PF	e(P)	12 11 01
SJ	iP	12 07 24
	i	07 33
	e	08 18
TUC	e(P)	12 10 23
Nov. 25 COL	eP	13 16 43
Nov. 25, H = 17 18 48** Eastern Turkey.		
COL	eP	17 30 47
HH	iP	17 31 59
Nov. 25 HH	eP	20 28 21
Nov. 25 COL	eP	22 11 40
Nov. 26 COL	eP	00 14 14
	iP	14 16
Nov. 26 HH	e(P)	01 19 19
OV	e(P)	01 19 18
PF	e(P)	01 19 15
TUC	eP	01 18 57
Nov. 26 PF	e(P)	02 10 01
Nov. 26 COL	e(P)	03 00 26
HH	e(P)	03 01 13
Nov. 26, H = 03 02 04** Tonga Islands region.		
COL	iP	03 14 31
OV	eP	03 14 02
PF	eP	03 13 58
SH	iP	03 13 41
TUC	iP	03 14 01
Nov. 26 BC	e(P)	03 54 13
COL	eP	03 58 34
	e	59 07
HH	iP	03 55 27
PF	e(P)	03 54 07
TUC	eP	03 53 25
	i	53 45
Nov. 26 COL	eP	04 42 35
	iP	42 41
PF	e(P)	04 47 04
TUC	eP	04 47 45
Nov. 26 COL	e(P)	06 19 09
Nov. 26, H = 06 09 05** Kermadec Islands region. h=about 60 km.		
BC	eP	06 21 48
COL	eP	06 22 27
	iP	22 31
OV	iP	06 21 51.3
	ipP	22 07.7
PF	iP	06 21 51.1
SH	iP	06 21 43
TUC	iP	06 21 50
	ipP	22 07
Nov. 26 COL	iP	06 45 51
	i	46 00
HH	iP	06 45 03
SH	i(P)	06 45 00
TUC	e(P)	06 44 37
Nov. 26 BC	e(P)	10 04 35
OV	iP	10 04 37.9
PF	eP	10 04 37
TUC	eP	10 04 35
	e	04 46
Nov. 26 OV	eP	15 52 49
	e(S)	53 47
PF	iP	15 52 24.7
	i	53 23.2
Nov. 26 PF	e(P)	17 31 38
TUC	eP	17 30 56
Nov. 26 COL	eP	20 43 56
Nov. 26 HH	e(P)	23 00 40
OV	e(P)	22 57 54
	i(S)	58 44
	iL	59 53.4
PF	eP	22 57 49
	i	59 29.6
	i	59 25.6
	i	59 35.1
TUC	iP	22 57 12
	i	57 18
	i	57 22
	i	57 42
	i(S)	57 50
	i	58 04
	iL	58 11
Nov. 26 OV	e(P)	23 11 16
Nov. 27, H = 02 01 28** Samoa Islands region.		
BC	iP	02 13 13
COL	iP	02 13 51
	i	14 02
HH	iP	02 13 51
OV	iP	02 13 16.2
PF	iP	02 13 16.7

Date and Station	Phase	(GCT)
		h m s
SH	eP	02 13 00
TUC	eP	02 13 19
Nov. 27, H = 03 28 24** Samoa Islands region.		
BC	eP	03 40 10
COL	eP	03 40 47
HH	eP	03 40 45
OV	eP	03 40 14
PF	eP	03 40 12
SH	eP	03 40 04
TUC	eP	03 40 18
Nov. 27		
COL	e(P)	04 09 11
OV	iP	04 06 19.0
	i(S)	06 40.0
PF	iP	04 06 14.4
	i(S)	07 12.9
	i	07 15.4
	i	07 29.4
	i	07 26.9
TUC	eP	04 06 12
	i	06 21
	i	06 26
	i	06 53
	i(S)	07 03
	i	07 11
	iL	07 22
Nov. 27		
COL	eP	14 50 28
HH	iP	14 52 14
SH	iP	14 51 54
Nov. 27		
COL	eP	15 14 08
	iP	14 09
Nov. 27, H = 17 10 03** Samoa Islands region. Felt at Apia.		
BC	eP	17 21 47
COL	eP	17 22 23
	iP	22 24
	i	22 36
HH	e(P)	17 22 35
OV	iP	17 21 51.7
PF	eP	17 21 51

Date and Station	Phase	(GCT)
		h m s
SH	iP	17 21 33
	i	21 44
TUC	eP	17 21 54
	e	22 11
Nov. 27, H = 18 03 19** Andreanof Islands, Aleutian Islands. Felt on Adak.		
BC	eP	18 16 50
COL	eP	18 13 02
	iP	13 04
	eL	17 21
HH	iP	18 15 56
	i(PcP)	18 11
OV	iP	18 16 49.1
PF	iP	18 16 52.5
SJ	eP	18 21 15
	e	21 24
SH	iP	18 15 47
TUC	iP	18 17 27
	i	17 40
	i	17 53
	i	18 57
Nov. 27		
SH	eP	20 38 07
	eS	38 09
Nov. 27		
HONO	eL	22 31 21
Nov. 28		
COL	e(P)	00 19 55
Nov. 28		
BC	iP	02 27 22
HH	iP	02 28 10
OV	iP	02 27 23.3
PF	iP	02 27 19.8
SH	iP	02 28 05
TUC	eP	02 26 50
Nov. 28		
HH	iP	04 31 09
Nov. 28		
COL	eP	05 23 14
	iP	23 19
PF	e(P)	05 23 48
Nov. 28		
HH	iP	06 52 54

Date and Station	Phase	(GCT)
		h m s
Nov. 28		
COL	iP	09 28 36
HH	iP	09 31 07
OV	i(P)	09 31 46.0
PF	i(P)	09 31 48.1
SH	e(P)	09 31 03
Nov. 28		
COL	e(P)	10 48 06
Nov. 28		
COL	e(P)	11 37 22
Nov. 28, H = 12 18 45** Samoa Islands region.		
BC	eP	12 30 30
COL	eP	12 31 09
	iP	31 13
HH	eP	12 31 01
	e	31 07
OV	iP	12 30 32.8
PF	eP	12 30 33
TUC	e(P)	12 30 35
Nov. 28, H = 17 53 15* 39°N, 28°E. Western Turkey. Felt.		
COL	eP	18 05 03
HH	iP	18 06 00
Nov. 28		
COL	e(P)	20 10 26
Nov. 28		
COL	eP	21 12 37
Nov. 28		
COL	eP	23 00 41
Nov. 28		
COL	e(P)	23 54 10
	e	54 21
HH	i	23 54 16
SH	e(P)	23 54 02
Nov. 29		
COL	e(P)	01 29 32
OV	e(P)	01 28 57
Nov. 29, H = 01 37 52* 22°N, 143°E. Marianas Islands region.		

Date and Station	Phase	(GCT)
		h m s
BC	eP	01 50 37
COL	eP	01 48 09
	eS	56 36
	eL	02 03 49
HH	iP	01 50 14
OV	iP	01 50 37.2
PF	iP	01 50 39.9
	i	50 56.9
SH	iP	01 49 59
SIT	e(S)	01 58 43
	eL	02 11 08
TUC	iP	01 50 59
	e(PP)	55 02
Nov. 29		
COL	e(P)	02 46 21
Nov. 29		
BC	iP	05 45 57
	eS	45 15
OV	iP	05 45 49.0
	e(S)	45 59
PF	iP	05 45 58.1
	iS	46 17.2
	i	46 18.6
Nov. 29		
HH	e(P)	07 46 56
OV	e(P)	07 50 56
Nov. 29		
COL	e(P)	08 46 04
Nov. 29		
COL	iP	08 59 58
Nov. 29		
SJ	eP	10 26 10
	iP	26 11
	e(S)	26 34
	eL	26 42
Nov. 29		
SJ	eP	10 33 51
	e	34 38
	i	35 25
Nov. 29		
HH	iP	10 41 28
Nov. 29		
COL	e(P)	11 11 37
Nov. 29		
BC	iP	13 12 43
COL	eP	13 17 01
	i(pP)	17 40

Date and Station		Phase (GCT) h m s
HH	eP	13 13 57
OV	iP	13 12 43.2
PF	eP	13 12 38
TUC	iP	13 11 58
	i	12 24
	e	13 31
	eL	22 09
Nov. 29, H = 18 35 47* 4°S, 128½°E. Banda Sea.		
COL	eP	18 48 52
HH	eP'	18 54 09
OV	eP'	18 54 31
PF	eP'	18 54 32
SJ	eP'	18 56 29
TUC	e(P)	18 52 07
	eP'	54 39
Nov. 29		
COL	eP	19 45 18
Nov. 29		
COL	e(P)	21 57 26
Nov. 29		
BC	e(P)	22 55 25
COL	eP	22 59 43
	e(pP)	23 00 24
OV	e(P)	22 55 25
PF	e(P)	22 55 21
TUC	iP	22 54 41
Nov. 30		
COL	eP	11 03 25
OV	e(P)	11 01 28
	e	01 53
PF	e(P)	11 01 52
Nov. 30		
COL	eP	12 31 41
Nov. 30		
COL	e(P)	12 42 36
Nov. 30		
COL	eP	20 46 12
Nov. 30		
COL	e(P)	21 39 30
OV	e(P)	21 35 17
PF	e(P)	21 35 09
TUC	e(P)	21 34 32
	e(L)	45 28
Nov. 30		
COL	eP	23 09 18
Nov. 30		
OV	eP	23 16 41
	i	16 49
	iL	17 33
PF	iP	23 16 48.1
	iS	17 31.1
	i	17 34.6
Nov. 30		
BC	e(P)	23 34 42
OV	e(P)	23 34 45
PF	e(P)	23 34 39
TUC	e(P)	23 33 50
	eL	40 17
Dec. 1		
COL	eP	00 25 35
Dec. 1		
COL	eP	03 01 17
Dec. 1		
COL	eP	06 32 06
TUC	e(P)	06 36 27
	eL	51 06
Dec. 1		
LOG	e(P)	08 42 14
Dec. 1		
COL	e(P)	09 43 04
Dec. 1		
COL	eP	10 12 33
	e(pP)	14 14
TUC	eP	10 10 31
	eL	21 26
Dec. 1		
COL	e(P)	10 29 13
Dec. 1		
HH	iP	11 26 07
OV	i	11 26 33.6
SH	iP	11 25 48
Dec. 1		
HH	e(P)	11 50 35
Dec. 1		
COL	eP	12 30 04
Dec. 1, H = 14 50 58* 14½°N, 47°W. Atlantic Ocean. h=about 60 km. Mag. 7		
BH	eP	14 57 27
	eS	15 02 44
BER	iP	14 56 08
	iPP	56 38
	i	57 02
	iS	15 00 08
	eL	01 45
Tp=12 sec. A=9.0mm. T =4.8 sec. A=5.0mm. T_L=12 sec. A_{max}=86.5mm.		
BC	eP	15 01 29
	eS	10 07
BOZ	eP	15 01 15
	epP	01 34
	ePP	03 32
	ePPP	04 54
	iS	09 39
	iScS	11 08
	eSS	13 20
	eL	16 14
BUT	e(P)	15 01 56
	eS	09 52
	eScS	11 18
	eSS	13 15
	eL	16 30
CHI	eP	14 59 09
	iP	59 12
	ePP	15 00 51
	e(PPP)	01 54
	iS	05 42
	eL	08 08
	iScS	09 06
COL	eP	15 03 11
	iP	03 14
	epP	03 39
	e(PP)	06 34
	i(S)	13 23
	e(sS)	14 05
	eSS	19 18
	eL	22 52
	eSKPP'	34 30
COLU	eP	14 58 02
	ePP	59 14
	eS	15 03 40
	eL	05 48
HONO	e(SS)	15 20 44
	e	27 33
	eL	38 30
HH	eP	15 01 27
LIN	eP	14 59 53
	ePP	15 01 42
	iS	07 10
	eL	09 45
NK	iP	14 58 15
	iPP	59 40
	iS	15 04 05
	eL	07 01
LOG	eP	15 01 12
	e	02 14
	ePP	03 32
	ePPP	05 02
	i(S)	09 37
	iScS	10 21
	eSS	13 28
	eL	16 33
OV	iP	15 01 26.4
	iPP	03 46
	eS	10 14
	eP'P'	30 17
PHIL	iP	14 57 53
	iPP	59 08
	eS	03 29
	iS	03 32
	iL	05 30
PF	eS	15 10 02
RC	iP	15 00 35
	e(PP)	03 10
	e(PPP)	04 14
	i(S)	08 27
	eSS	11 48
	eL	16 28
SLC	eP	15 01 17
	e	02 17
	ePP	03 27
	iS	09 37
	eL	15 13
SJ	eP	14 55 13
	i	55 21
	i	56 02
	iS	58 36
	eL	15 00 03
SH	iP	15 02 03
SIT	eP	15 02 45
	epP	03 06
	ePP	05 48
	i(S)	12 42
	eScS	13 21
	eSS	17 32
	eL	22 20
TUC	iP	15 01 05
	ipP	01 18
	isP	01 23
	iPcP	01 55
	i(PP)	02 40
	ePPP	04 38
	iS	09 27
	eSS	13 36
	eL	15 02
UK	e(PP)	15 02 32
	eS	11 37

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Date and Station		Phase (GCT)
		h m s
UK	eScS	15 12 25
	eL	19 09
WASH	iP	14 57 59
	iPP	59 15
	eS	15 03 39
	eL	05 25
Dec. 1		
COL	eP	17 09 26
OV	eP	17 07 42
TUC	eP	17 07 19
Dec. 1		
BC	eP'	17 38 39
OV	eP'	17 38 36
PF	eP'	17 38 37
SJ	eP'	17 39 30
TUC	iP'	17 38 47
Dec. 1, H = 17 31 13* 52°N, 172°W. Fox Islands, Aleutian Islands.		
BC	iP	17 39 19
COL	eP	17 35 23
	iP	35 25
HH	iP	17 38 22
	i	40 31
OV	iP	17 39 18.6
PF	iP	17 39 22.6
SH	iP	17 38 19
TUC	iP	17 39 57
Dec. 1		
COL	iP	17 42 52
TUC	i(P)	17 41 01
	i	41 13
Dec. 1		
COL	iP	18 33 37
Dec. 1		
COL	iP	18 35 46
Dec. 1, H = 19 01 10** Near west coast of Guatemala. h=about 100 km.		
BC	eP	19 07 18
COL	iP	19 11 35
	ipP	12 13
HH	iP	19 08 32
OV	iP	19 07 18.9
PF	iP	19 07 13.9
TUC	iP	19 06 33
	i	07 23
	e	07 37
Dec. 2		
COL	e(P)	07 15 01
Dec. 2, H = 08 30 27* 26°S, 71°W. Near coast of central Chile. Felt. h=about 100 km.		
BC	iP	08 41 59
	ipP	42 18
HH	iP	08 42 48
	epP	43 04
OV	iP	08 42 00.5
PF	iP	08 41 56.8
SJ	i(P)	08 38 43
SH	iP	08 42 38
	ipP	42 56
TUC	iP	08 41 29
	ipP	41 48
	i	43 04
Dec. 2		
COL	e(P)	09 00 35
Dec. 2		
COL	eP	09 30 34
	iP	30 39
Dec. 2, H = 15 19 20* 7½°S, 71°W. Western Brazil. h=about 650 km. Mag. 6-3/4.		
BH	i(P)	15 23 05
	iS	26 06
	eScS	33 17
BER	iP	15 26 12
	isP	29 11
	iS	31 38
	isS	35 03
BC	iP	15 28 31
	ipP	30 39
	eS	36 01
BOZ	iP	15 28 58
	eS	36 40
	iS	36 52
	e(sS)	41 04
	eSS	41 20
BUT	iP	15 29 05
	iPcP	29 37
	e(S)	36 30
	eSS	41 43
CHI	eP	15 27 29
	iP	27 31
	ePP	29 55
	iS	34 02
	iScS	36 13
	eL	41 03
COL	iP	15 31 22
	ipP	33 49
	iPP	35 08
	iS	41 24
	esS	45 29
COLU	eP	15 26 27
	eS	32 06
	iS	32 08
	iScS	35 17
	eL	35 42
HONO	eP	15 31 18
	i	31 30
HH	iP	15 29 18
	ePP	32 02
	iS	37 28
	eP'P'	56 39
	iSKPP'	59 52
LIN	eP	15 27 50
	iS	34 36
	iScS	36 31
	e(SS)	39 23
LOG	iP	15 28 40
	i	28 59
	ePP	31 18
	esP	31 38
	iS	36 18
	i	36 49
	iScS	37 32
	esS	40 11
	eSS	40 33
	eL	44 04
NK	eP	15 27 14
	iS	33 33
	iScS	35 57
	e(L)	40 51
OV	iP	15 28 31.5
	iS	36 14
	eP'P'	16 00 17
PF	iP	15 28 27.3
	iPP	30 30
	iS	35 53.6
	eSKKP	50 24
	eP'P'	57 18
SLC	iP	15 28 41
	epP	30 56
	iS	36 14
	iScS	37 28
	esS	39 34
SLC	eSS	15 40 30
SJ	iP	15 24 13
	i	25 49
	iPcP	27 08
	iS	28 02
	eScP	29 49
	e(PcS)	30 45
	ePcS	31 06
	iScS	33 47
SH	iP	15 29 16
	eS	37 23
	iP'P'	56 41
	i	57 30
	eSKPP'	59 53
TUC	iP	15 27 56
	iPcP	28 50
	ipP	29 58
	iPP	30 13
	esP	31 02
	i	31 09
	e(PcS)	32 26
	eS	34 56
	iS	34 58
	iScS	36 18
	i	36 36
	esS	38 29
	eSS	39 30
	eSKPP'	16 00 21
UK	eP	15 29 23
	eS	37 30
	e(SS)	42 44
WASH	iP	15 26 58
Dec. 2		
OV	eP	16 05 32
PF	eP	16 05 28
TUC	iP	16 05 08
Dec. 2		
COL	e(P)	16 13 19
Dec. 2, H = 16 17 10* 17°S, 168°E. New Hebrides Islands.		
BC	eP	16 30 11
COL	eP	16 30 01
	e	30 38
HH	eP	16 30 32
OV	iP	16 30 12.4
PF	iP	16 30 12.8
SH	iP	16 29 53
TUC	iP	16 30 18
	i	30 34

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Date and Station		Phase (GCT) h m s
Dec. 2		
COL	e(P)	17 38 01
Dec. 2		
OV	e	17 39 31
PF	e(P)	17 39 09
SH	eP	17 38 36
	i	38 59
Dec. 2, H = 18 40 38* 7½°S, 71°W. Western Brazil aftershock. h=about 650 km.		
BC	iP	18 49 49
HH	iP	18 50 36
OV	iP	18 49 50.0
PF	iP	18 49 45.9
SJ	eP	18 49 21
	i	49 32
SH	iP	18 50 35
TUC	iP	18 49 14
	i	49 26
Dec. 2, H = 19 51 50* 18°S, 167½°E. New Hebrides Islands. h=about 60 km. Mag. 7-3/4.		
BH	eP'	20 11 09
BER	eP'	20 10 53
	iPKS	14 13
	iSKS	17 50
	iPS	24 19
	iPPS	25 24
	iSS	30 26
	iL	46 18
T_{PKS}=12 sec. A=10.5mm. T_{SKS}=14 sec. A=3.2mm. T_L=19 sec. $A_{max.}$=5.3mm.		
BC	iP	20 04 55
	epP	05 14
	i	07 39
	eSKS	15 24
BOZ	eP	20 05 37
	e(pP)	06 31
	iSKS	15 59
	e(SS)	23 51
	eSSS	27 07
	eL	31 09
BUT	eP	20 05 53
	e(PP)	10 21
	eSKS	15 56
	eS	17 13
BUT	eSS	20 22 57
	eSSS	26 57
	eL	31 53
CHI	e(P)	20 06 49
	ePP	11 27
	e(SKS)	18 03
	eS	18 52
	iPS	20 51
	eSS	26 43
	eSSS	31 08
	eL	39 07
COL	iP	20 04 43
	ipP	04 57
	eS	15 11
	iS	15 20
	ePS	18 20
	eSS	21 07
	eL	28 24
	iP'P'	30 09
	iSKPP'	34 24
	eP'P'P'	51 21
COLU	e(P')	20 10 18
	iP'	10 30
	ePP	11 50
	eSKS	17 18
	ePS	21 34
	eSS	28 04
	eSSS	32 14
	eL	40 18
HONO	eP	20 00 56
	ePP	02 52
	eS	08 08
	iL	09 10
T_P=10 sec. A=4.0mm. T_S=18 sec. A=10mm. T_L=24 sec. $A_{max.}$=25mm.		
HH	iP	20 05 15
	ePP	09 19
	eSKS	15 29
LIN	e(P)	20 06 23
	ePP	09 41
	eSKS	16 27
	ePS	19 45
	e(SS)	25 52
	eSSS	29 32
	eL	37 05
LOG	eP	20 05 11
	ipP	05 39
	i	05 44
	e	08 55
	ePP	09 21
	ePPP	11 06
	i	11 27
	eS	15 41
	iSKS	15 48
	iS	16 52
	eSS	23 49
	e(SSS)	27 02
	eL	30 22
NK	eP'	20 11 37
	ePP	12 21
	eSKS	17 45
	e(SKKS)	18 48
	ePS	21 51
	eSS	28 15
	eL	48 51
OV	iP	20 04 56.2
	ipP	05 07
	eSKS	15 25
	e(PKKP)	22 55
PHIL	eP'	20 11 06
	ePP	12 08
	i	12 46
	eSKS	18 06
	iSKS	18 16
	iSKKS	19 15
	ePS	22 09
	ePPS	23 55
	eSS	28 49
	i	29 24
	eSSS	33 35
	eL	40 25
PF	iP	20 04 56.8
	ipP	05 10
	iSKS	15 33.5
RC	eP	20 05 56
	ePP	09 50
	eSKS	16 18
	ePS	19 10
	eSS	24 54
	eL	35 12
SLC	eP	20 05 14
	ePP	09 04
	iSKS	15 47
	iS	16 28
	iPS	17 06
	eSS	22 05
	eL	29 32
SJ	iP'	20 10 55
	e	11 33
	ePP	13 23
	e(SKS)	19 28
	iSS	30 08
	eP'P'	31 49
	eL	46 26
SH	iP	20 04 37
	eS	15 02
SIT	iP	20 04 42
	epP	05 01
	i(PP)	08 40
	i	11 23
	iS	15 12
	eSS	21 00
	iL	28 44
TUC	iP	20 05 02
	ipP	05 18
	ePP	08 31
	eSKS	15 23
	eS	16 09
TUC	ePPS	20 18 11
	i	18 23
	e(SSS)	26 32
	eL	29 54
WASH	eP	20 07 34
	iP'	10 42
	ePP	12 19
	ePS	22 09
	iPPS	24 42
	eL	43 02
Dec. 2, H = 19 55 28** New Hebrides Islands aftershock. h=about 60 km. Mag. 7-1/4.		
BC	iP	20 08 33
BOZ	eP	20 08 56
	eSKS	20 23
	ePPS	22 43
CHI	ePP	20 15 07
	eSKS	21 06
COL	iP	20 08 22
	i(PP)	14 13
HONO	ePP	20 06 41
	iPP	06 42
LIN	eP	20 09 41
LOG	ePS	20 21 06
OV	iP	20 08 33.9
PF	iP	20 08 37.0
SJ	iP'	20 14 35
	i	15 40
	i(PP)	17 49
	eSKS	22 35
	iP'P'	35 19
	eSSS	38 32
	eL	47 29
SH	iP	20 08 15
SIT	iP	20 08 24
TUC	iP	20 08 40
Dec. 2		
BC	iP	20 16 54
	e	17 27
COL	iP	20 17 15
	i	18 56
PF	iP	20 17 28.5
TUC	eP	20 17 35
Dec. 2		
COL	eP	20 28 51
	e	29 55
Dec. 2		
COL	eP	20 32 44

Date and Station		Phase (GCT) h m s
Dec. 2		
BC	eP	20 45 04
OV	iP	20 45 06.4
PF	eP	20 45 04
	i	45 07.5
Dec. 2		
BC	eP	20 51 30
OV	eP	20 51 37
PF	iP	20 51 44.5
TUC	eP	20 51 50
Dec. 2		
COL	e(P)	21 00 57
Dec. 2		
COL	e(P)	21 04 32
Dec. 2		
COL	eP	21 08 21
OV	eP	21 08 33
PF	iP	21 08 36.4
TUC	eP	21 08 41
Dec. 2		
COL	iP	21 11 49
	ipP	13 23
Dec. 2		
COL	e	21 17 44
Dec. 2		
COL	eP	21 22 09
	epP	22 25
Dec. 2, H = 21 15 13** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	21 28 18
	i(pP)	29 28
COL	iP	21 28 06
	ipP	28 23
OV	iP	21 28 19.6
	i(pP)	29 29.8
PF	iP	21 28 19.9
	i	29 00.4
	e	31 35
SH	iP	21 28 00
	i	29 11
TUC	iP	21 28 26
	i	29 35
Dec. 2		
BC	eP	21 30 33
TUC	iP	21 31 41
Dec. 2		
COL	eP	21 35 17
	e	35 28
Dec. 2		
COL	eP	21 52 14
PF	eP	21 52 28
Dec. 2, H = 21 46 45** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	21 59 49
COL	eP	21 59 38
OV	eP	21 59 52
PF	iP	21 59 52.4
SH	iP	21 59 33
TUC	eP	21 59 58
Dec. 2		
COL	e(P)	22 07 43
Dec. 2		
COL	e(P)	22 18 12
Dec. 2, H = 22 09 13** New Hebrides Islands aftershock. h=about 60 km.		
COL	eP	22 22 06
PF	eP	22 22 20
SH	eP	22 22 00
Dec. 2		
COL	eP	22 27 18
PF	eP	22 27 27
TUC	eP	22 26 34
	e	27 34
Dec. 2, H = 22 18 12* 18°S, 167½°E. New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	22 31 15
COL	iP	22 31 05
	e	33 57
OV	iP	22 31 17.0
PF	iP	22 31 17.7
SH	eP	22 30 57
TUC	iP	22 30 23
Dec. 2		
COL	iP	22 41 11
OV	eP	22 41 25
PF	eP	22 41 25
TUC	iP	22 41 25
Dec. 2, H = 22 56 08** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	23 09 12
COL	eP	23 09 01
	epP	09 12
OV	iP	23 09 13.7
	epP	09 34
PF	iP	23 09 14.4
	ipP	09 24.9
SH	iP	23 08 54
TUC	iP	23 09 20
	ipP	09 30
Dec. 2		
BC	iP	23 14 46
OV	iP	23 14 48.5
PF	iP	23 14 48.4
TUC	iP	23 14 49
	ipP	15 04
Dec. 2		
COL	eP	23 28 12
Dec. 2		
COL	eP	23 35 01
OV	eP	23 35 10
PF	iP	23 35 13.7
TUC	eP	23 35 19
Dec. 2		
COL	iP	23 39 37
Dec. 2		
COL	eP	23 44 45
OV	eP	23 47 10
PF	eP	23 47 37.4
TUC	eP	23 47 43
Dec. 2		
PF	e(P)	23 55 55
Dec. 3		
COL	eP	00 46 50
PF	iP	00 47 02
Dec. 3		
COL	e(P)	00 50 53
Dec. 3		
COL	eP	00 54 13
Dec. 3		
BC	iP	01 05 03
	i	05 56
	eL	07 01
HH	eP	01 06 40
	eL	08 39
LOG	e	01 06 46
	eL	07 31
OV	iP	01 04 55.1
	iS	05 50.2
	iL	06 49.7
PF	e(P)	01 04 52
	iP	05 05.2
	iS	05 59.4
	iL	07 03.9
SH	iP	01 04 34
	i	05 22
	i	05 28
TUC	e(P)	01 07 25
	e	09 37
Dec. 3		
BC	iP	01 10 15
	iS	11 19
OV	iP	01 10 08.8
	iS	11 10.0
PF	iP	01 10 18
SH	iP	01 09 46
TUC	e	01 14 13
Dec. 3		
COL	eP	01 13 52
Dec. 3		
COL	eP	01 30 44
Dec. 3		
COL	e(P)	01 36 35
Dec. 3		
COL	e(P)	01 44 47
Dec. 3		
COL	e(P)	01 47 49

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Date and Station	Phase	Phase (GCT) h m s
Dec. 3		
COL	e(P)	01 47 49
Dec. 3		
BC	eP	02 00 40
COL	eP	01 59 55
	e	02 00 31
OV	eP	02 00 07
	e	00 53
PF	eP	02 00 08
	i	00 44
Dec. 3		
BC	eP	02 13 37
	e	15 37
COL	eP	02 13 17
	epP	13 28
	e	15 28
OV	eP	02 13 28
	e	15 39
PF	eP	02 13 29
	iP	13 39.6
	i	15 44
TUC	eP	02 13 34
	e	15 44
Dec. 3		
BC	eP	02 19 36
	e	19 40
OV	eP	02 19 17
PF	iP	02 19 27
TUC	eP	02 19 38
	e	19 48
Dec. 3		
PF	e(P)	02 35 31
Dec. 3		
BC	eP	02 46 02
	epP	46 13
COL	eP	02 45 53
	epP	46 03
OV	eP	02 46 04
	ipP	46 16
PF	iP	02 46 04.5
	ipP	46 15.3
SH	iP	02 45 55
TUC	iP	02 46 21
Dec. 3		
BC	eP	03 02 36
COL	eP	03 02 26
PF	iP	03 02 38.1
TUC	eP	03 02 43
Dec. 3, H = 03 07 47** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	03 20 50
	epP	21 01
COL	eP	03 20 41
	epP	20 51
OV	iP	03 20 52.7
PF	eP	03 20 53
	ipP	21 03.8
TUC	iP	03 21 09
Dec. 3		
BC	eP	04 03 09
COL	eP	04 02 51
	epP	03 00
OV	eP	04 02 59
	e	03 55
PF	iP	04 03 11.3
TUC	eP	04 03 16
Dec. 3		
OV	iP	04 19 09.3
PF	eP	04 19 10
Dec. 3		
COL	eP	04 40 12
Dec. 3		
COL	eP	04 50 09
Dec. 3		
BC	iP	04 51 59
	iS	52 50
	iL	53 53
HH	eP	04 52 36
	e	54 34
	i	55 45
LOG	eP	04 52 55
	e	53 46
	e	54 14
OV	eP	04 51 41
	i	51 53.4
	iS	52 52.5
PF	eP	04 51 46
	i	52 02.2
	iS	53 02.0
	iL	54 08.2
SH	iP	04 51 31
	iS	52 17
TUC	e(P)	04 53 01
	e	53 28
	i(S)	54 27
Dec. 3		
OV	eP	05 08 20
	e	09 20
PF	iP	05 08 28.7
Dec. 3		
BC	iP	05 24 34
OV	iP	05 24 27.2
	eS	25 29
PF	eP	05 24 25
	i	24 37
Dec. 3		
TUC	e(P)	06 10 10
Dec. 3, H = 06 26 52* 29°N, 95½°E. Northern Assam.		
BC	e	06 42 41
	eP'	45 52
COL	eP	06 38 32
	iP	38 34
	eS	47 41
	eSS	52 24
	eL	57 33
HH	iP	06 40 35
	i	40 40
	iPP	44 36
OV	eP'	06 45 54
TUC	eP'	06 45 44
Dec. 3		
COL	eP	06 48 39
	epP	48 51
Dec. 3		
BC	iP	06 53 30
	eS	54 35
OV	iP	06 53 23.6
	iS	54 24.0
PF	eP	06 53 16
	i	53 33
	i(S)	54 37
SH	iP	06 53 02
	i	53 08
HH	eP	06 54 23
TUC	eP	06 54 59
Dec. 3		
COL	e(P)	07 05 02
SIT	eL	07 13 38
Dec. 3		
BER	eL	07 31 23
BOZ	eL	07 25 59
COL	e(P)	07 15 26
PHIL	eL	07 31 15
Dec. 3		
COL	eP	07 30 33
OV	eP	07 31 05
PF	eP	07 30 47
	e	30 58
Dec. 3, H = 07 47 36** New Hebrides Islands aftershock. h=about 60 km.		
BER	ePP	08 10 00
	ePPS	20 59
	eL	46 06
BC	eP	08 00 39
	ipP	00 51
BOZ	eSKS	08 11 45
	eL	30 19
CHI	eL	08 53 42
COL	iP	08 00 29
	ipP	00 42
	ePP	03 51
	eS	10 41
	eL	23 23
HH	eP	08 00 57
LIN	ePS	08 15 10
LOG	e	08 02 01
	eSKS	11 34
	eL	32 32
OV	iP	08 00 42.0
	ipP	00 54.2
PHIL	eSS	08 25 28
	eL	42 25
PF	iP	08 00 42.4
	ipP	00 54.0
RC	eSKS	08 12 01
	eL	38 09
SLC	eSKS	08 11 30
	ePS	13 36
	eL	31 18

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Date and Station		Phase (GCT)
		h m s
SJ	iP'	08 06 41
	ePP	10 08
	ePPS	21 05
SH	iP	08 00 22
SIT	eS	08 11 24
	eL	26 38
TUC	iP	08 00 47
	ipP	01 00
UK	e	08 09 37
	eL	27 23
Dec. 3		
COL	eP	08 19 00
	epP	19 09
Dec. 3, H = 08 22 12** New Hebrides Islands aftershock. h=about 60 km.		
BER	eL	09 08 10
BC	eP	08 35 16
	epP	35 28
COL	iP	08 35 06
	ipP	35 18
	i	35 29
OV	eP	08 35 19
	ipP	35 30.4
PF	iP	08 35 19.3
	ipP	35 30.1
TUC	eP	08 35 24
	ipP	35 36
Dec. 3, H = 09 40 13** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	09 53 18
COL	eP	09 53 08
	epP	53 19
OV	eP	09 53 19
PF	iP	09 53 21.1
TUC	eP	09 53 26
	epP	53 37
Dec. 3		
BC	eP	10 12 48
COL	eP	10 12 39
OV	eP	10 12 52
PF	iP	10 12 51.6

Date and Station		Phase (GCT)
		h m s
TUC	eP	10 12 56
	i	14 27
	i	14 38
Dec. 3		
BC	eP	10 14 19
	epP	14 30
COL	iP	10 14 09
	epP	14 20
OV	iP	10 14 21.3
PF	iP	10 14 21.7
	ipP	14 34
Dec. 3, H = 11 55 18** New Hebrides Islands aftershock. h=about 60 km.		
BC	iP	12 08 21
	ipP	08 29
COL	eP	12 08 13
OV	eP	12 08 23
PF	eP	12 08 23
	ipP	08 32
SH	iP	12 08 04
	i	08 12
TUC	eP	12 08 29
	ipP	08 38
Dec. 3		
BC	eP	12 15 19
	epP	15 30
COL	eP	12 15 11
	epP	15 22
OV	iP	12 15 13.0
	ipP	15 33.1
PF	eP	12 15 21
	ipP	15 33
TUC	eP	12 15 27
	epP	15 38
Dec. 3		
OV	e	12 19 46
PF	eP	12 18 39
	e	18 48
TUC	eP	12 18 44
Dec. 3		
BC	eP	12 47 26
OV	eP	12 47 28
PF	iP	12 47 28.7
	ipP	47 38.5

Date and Station		Phase (GCT)
		h m s
TUC	eP	12 47 34
Dec. 3		
COL	eP	13 30 41
Dec. 3, H = 13 26 59** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	13 40 03
	epP	40 11
COL	eP	13 39 53
COLU	ePP	13 47 19
	ePPP	49 13
	ePS	57 13
	e(SS)	14 01 25
OV	eP	13 40 04
PF	iP	13 40 05.0
	ipP	40 14.3
SH	iP	13 39 44
	ipP	39 54
Dec. 3, H = 13 31 47** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	13 44 52
	epP	45 04
COL	iP	13 44 41
	epP	44 53
OV	iP	13 44 55.5
PF	iP	13 44 54.5
	ipP	45 04.7
SH	eP	13 44 44
TUC	eP	13 45 00
	ipP	45 11
Dec. 3		
TUC	eP	13 55 10
Dec. 3		
COL	eP	14 14 24
Dec. 3		
COL	eP	15 37 51
Dec. 3		
COL	eP	16 07 23
Dec. 3, H = 16 01 31** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	16 14 36

Date and Station		Phase (GCT)
		h m s
COL	eP	16 14 24
OV	eP	16 14 37
PF	eP	16 14 38
TUC	eP	16 14 43
Dec. 3		
OV	eP	16 16 25
	i(S)	17 14.3
Dec. 3		
COL	eP	16 57 18
Dec. 3		
COL	iP	18 37 38
	i	38 03
HH	iP	18 39 25
OV	eP	18 44 56
PF	eP	18 44 21
Dec. 3		
COL	eP	19 05 39
Dec. 3		
BC	eP	19 08 11
	ipP	08 20
COL	eP	19 08 01
	epP	08 11
OV	eP	19 08 11
	ipP	08 22.0
PF	eP	19 08 13
	ipP	08 22.6
SH	iP	19 07 52
	ipP	08 02
TUC	eP	19 08 19
	epP	08 28
Dec. 3, H = 20 04 40** Santa Cruz Islands region.		
BC	eP	20 17 44
COL	eP	20 17 18
	epP	17 28
	e	19 23
HH	iP	20 18 00
PF	iP	20 17 46.0
TUC	eP	20 17 53
Dec. 3, H = 20 25 24** New Hebrides Islands aftershock. h=about 60 km.		

Date and Station		Phase (GCT) h m s
BC	eP	20 38 26
COL	eP	20 38 16
	epP	38 26
OV	eP	20 38 28
PF	iP	20 38 28.8
SH	iP	20 38 08
TUC	iP	20 38 34
	epP	38 46
Dec. 3		
COL	eP	20 46 07
Dec. 3		
COL	e(P)	21 08 29
Dec. 3		
BC	iP	22 52 14
OV	(e)	22 52 00
	iP	52 07
	iS	52 52.6
Dec. 3		
COL	e(P)	23 13 50
Dec. 4		
COL	e(P)	00 13 58
Dec. 4		
COL	e(P)	00 41 39
	eP	01 46 37
COL	eP	01 51 24
	ipP	52 21
	i	52 30
HH	iP	01 48 14
	epP	48 36
OV	iP	01 46 39.4
PF	iP	01 46 34.0
	e	50 34
TUC	eP	01 45 41
	e	47 22
	eL	50 26
Dec. 4, H = 01 44 06** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	01 57 10
COL	eP	01 57 00
	epP	57 10
OV	eP	01 57 11
	ipP	57 20
PF	iP	01 57 11.5
	ipP	57 21.4
SH	iP	01 56 52
	ipP	57 02
TUC	eP	01 57 16
	epP	57 27
Dec. 4		
COL	eP	03 33 02
	e	33 11
Dec. 4, H = 03 55 48** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	04 08 50
COL	iP	04 08 40
OV	eP	04 08 52
	i(pP)	09 01
PF	iP	04 08 51.9
SH	e	04 08 29
TUC	eP	04 08 57
	epP	09 08
Dec. 4		
COL	eP	04 11 23
OV	eP	04 11 37
PF	eP	04 11 37
TUC	eP	04 11 41
Dec. 4		
COL	eP	04 13 25
Dec. 4		
COL	e(P)	04 17 44
	e	17 59
PF	e(P)	04 17 50
Dec. 4		
COL	eP	04 33 07
Dec. 4		
COL	eP	04 48 53
Dec. 4		
COL	eP	05 28 39
	epP	29 31
PF	eP	05 28 52
Dec. 4		
TUC	e(P)	05 48 53
Dec. 4, H = 06 47 00** Northern Alaska Peninsula. h=about 100 km.		
COL	eP	06 48 18
	iP	48 19
	iS	49 19
HH	iP	06 52 20
	ipP	52 45
OV	iP	06 53 41
	ipP	54 08
PF	iP	06 53 45.6
SH	iP	06 52 39
TUC	eP	06 54 24
	e	54 33
Dec. 4		
HH	iP	06 59 18
Dec. 4		
BC	eP	07 08 10
OV	iP	07 08 13.0
PF	eP	07 08 03
	i	08 13.8
SH	iP	07 07 54
TUC	eP	07 08 08
	e	08 19
Dec. 4		
COL	eP	07 35 59
	ipP	36 14
Dec. 4, H = 07 38 02* 18°S, 167½°E. New Hebrides Islands aftershock. h=about 60 km.		
BER	eP'	08 00 38
	ePPS	11 39
	eL	51 28
BC	eP	07 51 13
BOZ	eSKS	08 02 17
	ePS	04 16
	eSS	08 39
	eL	23 40
CHI	eL	08 42 00
COL	eP	07 50 59
	ipP	51 14
	eSKS	08 01 36
	eSS	07 22
	eL	14 34
HH	e(P)	07 51 47
OV	iP	07 51 09.3
PHIL	eSKS	08 04 04
	eSS	15 21
	ePS	08 28
	eL	25 34
PF	iP	07 51 10.5
RC	eSKS	08 02 38
	eL	29 12
SLC	eSKS	08 02 06
	eL	21 30
SJ	ePP	08 00 32
	eSKS	04 11
	ePS	10 02
	e(SS)	19 34
	eL	38 04
SH	iP	07 50 49
SIT	eSKS	08 01 30
	eSS	06 02
	eL	15 13
UK	eSKS	08 01 23
	eL	17 53
Dec. 4		
OV	iP	09 00 22.0
SH	iP	09 00 02
TUC	eP	09 00 27
	e	00 36
Dec. 4		
COL	e(P)	09 43 24
Dec. 4		
TUC	e(P)	10 11 56
	e	12 05
Dec. 4, H = 10 18 05* 17°S, 166°E. New Hebrides Islands. h=about 60 km.		
BC	iP	10 31 08
	ipP	31 22
COL	eP	10 30 57
	iP	30 58
HH	eP	10 31 19
OV	iP	10 31 10.1
PF	iP	10 31 10.9
SH	iP	10 30 51
TUC	iP	10 31 16
Dec. 4		
TUC	e(P)	10 43 18
	e	43 32
Dec. 4, H = 11 07 48* 18°S, 167½°E. New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	11 20 52

Date and Station		Phase (GCT)
		h m s
COL	eP	11 20 42
	epP	20 56
OV	eP	11 20 54
PF	eP	11 20 55
SH	iP	11 20 35
Dec. 4, H = 13 51 50** Fiji Islands region.		
COL	iP	14 04 31
OV	iP	14 04 10.9
PF	eP	14 04 12
SH	iP	14 03 55
TUC	iP	14 04 14
Dec. 4		
TUC	e(P)	14 12 04
Dec. 4		
COL	eP	14 44 51
Dec. 4		
COL	eP	15 26 02
Dec. 4		
COL	eP	15 29 49
Dec. 4, H = 16 21 35* 18½°N, 63°W. Leeward Islands.		
BC	eP	16 30 23
COL	iP	16 32 57
HH	iP	16 30 36
OV	eP	16 30 21
PF	iP	16 30 18.4
SJ	iP	16 22 19
	i	22 21
	i	22 34
	eS	22 46
	iS	22 48
	eL	22 55
SH	iP	16 31 08
TUC	iP	16 29 53
Dec. 4, H = 16 28 01* 5°S, 153½°E. New Britain Islands region. h=about 100 km. Mag. 7.2		
BH	eP'	16 46 58

Date and Station		Phase (GCT)
		h m s
BER	eP	16 44 06
	eP'	47 13
	iPP	49 46
	eSKS	54 00
	eSS	17 06 59
	iSS	07 28
	eL	23 34
T_{PP} = 14 sec. A = 3.1mm. T_L = 26 sec. $A_{max.}$=4.4mm.		
BC	eP	16 41 16
	ipP	41 41
	ePP	44 56
	eS	52 46
	eP'P'	17 06 31
BOZ	eP	16 41 34
	ePP	45 08
	iSKS	52 06
	iS	52 59
	esS	53 26
	ePS	54 26
	eL	17 09 18
BUT	eP	16 41 31
	ePP	45 34
	eSKS	52 11
	esS	53 10
	eL	08 15
CHI	iPP	16 47 31
	ePS	57 06
	eSS	17 03 18
	e(SSS)	07 44
	eL	14 56
COL	iP	16 40 13
	ipP	40 40
	ePP	43 40
	eS	50 06
	iS	50 18
	isS	50 55
	ePS	51 04
	eSS	56 01
	ePKKP	58 32
	eSSS	59 27
	eL	17 02 04
	eP'P'	06 49
	eSKPP'	10 16
COLU	ePP	16 48 25
	ePS	58 19
	eSS	17 04 43
	eL	19 16
HONO	iP	16 37 24
	ipP	37 41
	ePcP	38 42
	ePP	39 22
	iS	45 21
	eSS	48 30
	eL	50 48
T_P = 7 sec. A = 4.5mm. T_S = 12 sec. A = 6.0mm. T_L = 16 sec. $A_{max.}$=8.0mm.		

Date and Station		Phase (GCT)
		h m s
HH	eP	16 41 18
	ipP	41 46
	eSKS	51 16
	eS	51 48
	iPKKP	58 12
	i	59 15
	eP'P'	17 06 16
LIN	ePP	16 46 47
	ePPP	49 01
	ePS	56 11
	eSS	17 01 49
	eSSS	05 25
	i	08 27
	eL	17 11
LOG	eP	16 41 26
	epP	41 51
	ePP	45 52
	iPP	45 58
	ePPP	48 11
	eS	52 33
	isS	52 52
	iPS	53 22
	ePPS	54 45
	iSS	59 03
	eSSS	17 03 38
	eL	08 22
NK	ePP	16 48 10
	ePPP	50 52
	eSKKS	54 31
	ePS	58 03
	eSS	17 05 21
OV	iPP	16 45 09.0
	eS	52 33
	iPKKP	58 18
	iP'P'	17 06 33
PHIL	ePP	16 48 22
	iPP	48 35
	ipPP	49 25
	ePPP	51 21
	eSKS	54 01
	eS	56 22
	iPS	58 27
	ipPS	59 03
	iSS	17 05 10
	isSS	06 00
	eSSS	10 11
	eL	18 37
PF	iP	16 41 19.3
	ipP	41 36.3
	i	41 41.3
	iPP	45 08
	eS	52 01
	iPKKP	58 17
	eP'P'	17 06 32
RC	eP	16 41 54
	ePP	45 48
	iSKS	52 31
	i	53 12
	ePS	55 23
	e(SS)	17 01 34
	iP'P'	08 52
	eL	14 20

Date and Station		Phase (GCT)
		h m s
SLC	eP	16 41 51
	ePP	45 03
	eSKS	51 58
	eS	52 44
	ePS	54 14
	eSS	59 08
	eL	17 08 48
SJ	eP'	16 47 15
	iP'	47 23
	ePP	50 11
	ipPP	50 54
	eSKKP	59 38
	eP'P'	17 09 44
	eSSS	15 39
	eL	26 32
SH	iP	16 40 49
	ipP	41 18
	iPP	44 27
	eSKS	51 16
	eS	52 02
	iPKKP	58 32
	eP'P'	17 06 44
	eSKPP'	09 55
SIT	iP	16 40 26
	epP	40 44
	iPP	43 40
	iS	50 46
	iPS	51 24
	eSS	56 10
	iL	17 03 06
TUC	iP	16 41 31
	ipP	41 55
	iPP	45 25
	e(PPP)	47 31
	eSKS	51 53
	iPS	54 27
	iPKKP	58 12
	eSS	59 48
	eSSS	17 03 23
	iP'P'	06 23
	eL	10 46
UK	eP	16 40 56
	epP	41 21
	ePP	44 25
	eS	51 19
	eSS	57 28
	eSSS	17 01 15
	eL	04 20
WASH	i(PP)	16 48 33
Dec. 4		
COL	iP	19 19 27
Dec. 4, H = 20 12 16* 17°S, 166½°E. New Hebrides Islands. h=about 60 km.		
BC	eP	20 25 16
COL	eP	20 25 07
	iP	25 11

Date and Station		Phase (GCT)
		h m s
HH	e	20 29 41
OV	eP	20 25 22
PF	eP	20 25 19
	iP	25 24
SH	iP	20 25 02
TUC	eP	20 25 25
	iP	25 28
Dec. 4, H = 20 38 16** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	20 51 15
COL	eP	20 51 07
OV	eP	20 51 18
PF	eP	20 51 19
Dec. 4		
COL	eP	21 02 31
Dec. 4, H = 21 35 12** Northern Chile-Bolivia border region. h=about 150 km.		
BC	eP	21 46 12
HH	iP	21 46 58
OV	iP	21 46 12.8
PF	iP	21 46 09.3
SJ	eP	21 42 12
	i	42 38
SH	iP	21 46 54
TUC	iP	21 45 39
	epP	46 25
Dec. 4		
COL	iP	23 01 55
HH	eP	23 03 56
Dec. 4		
COL	e(P)	23 09 01
Dec. 5		
BC	eP'	00 22 28
COL	eP	00 16 47
	iP	16 54
	e	20 33
HH	eP'	00 22 18
OV	iP'	00 22 27.7
PF	eP'	00 22 28

Date and Station		Phase (GCT)
		h m s
SJ	eP'	00 23 42
	i	24 26
SH	eP'	00 22 26
TUC	iP'	00 22 35
	e	24 10
	e	25 48
Dec. 5		
BC	iP	01 12 54
	iS	13 59
HH	eP	01 13 42
OV	iP	01 12 48.1
	iS	13 49.8
PF	eP	01 12 39
	iP	12 57.7
	iS	14 01.8
SH	iP	01 12 23
	i	12 26
	i	12 32
	iS	13 11
TUC	eP	01 14 23
Dec. 5, H = 01 34 20** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	01 47 24
COL	eP	01 47 14
	epP	47 22
OV	eP	01 47 26
PF	eP	01 47 27
SH	iP	01 47 06
TUC	eP	01 47 32
	e	47 40
Dec. 5		
OV	e(P)	02 25 12
TUC	eP	02 24 10
	e	24 30
Dec. 5		
COL	eP	04 28 11
Dec. 5, H = 05 47 04** Samoa Islands. h=about 60 km.		
COL	eP	05 59 07
	epP	59 21
HH	eP	05 59 05
OV	eP	05 58 31

Date and Station		Phase (GCT)
		h m s
PF	eP	05 58 31
TUC	eP	05 58 32
	epP	58 45
Dec. 5		
COL	iP	06 31 18
	i	31 25
	eS	32 05
	i	32 14
	eL	32 47
HH	eP	06 35 44
Dec. 5, H = 08 43 07** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	08 56 14
COL	eP	08 56 01
OV	eP	08 56 13
PF	eP	08 56 14
	ipP	56 23.6
SH	eP	08 55 53
TUC	eP	08 56 20
	ipP	56 29
Dec. 5		
COL	eP	10 55 14
Dec. 5, H = 11 55 46** New Hebrides Islands region.		
COL	eP	12 08 38
	e	08 48
OV	eP	12 08 59
PF	eP	12 09 00
TUC	eP	12 09 07
Dec. 5, H = 12 06 11** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	12 19 14
	ipP	19 24
COL	eP	12 19 05
	epP	19 15
HH	eP	12 19 37
OV	iP	12 19 16.8
	ipP	19 26.6
PF	eP	12 19 17
	ipP	19 27.0

Date and Station		Phase (GCT)
		h m s
SH	iP	12 18 56
	ipP	19 06
	e	19 25
TUC	iP	12 19 23
	ipP	19 33
	i	20 16
	ePP	22 25
Dec. 5		
PF	iP	12 27 37.9
TUC	iP	12 27 43
Dec. 5		
TUC	eP	12 32 53
Dec. 5		
HH	iP	15 55 20
	ipP	55 31
OV	iP	15 54 22.2
PF	iP	15 54 23
Dec. 5		
COL	iP	16 08 43
Dec. 5		
HH	iP	16 32 46
Dec. 5, H = 16 52 18* 18°S, 167½°E. New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	17 05 23
COL	eP	17 05 13
	iP	05 14
	eL	40 16
HH	eP	17 05 48
OV	iP	17 05 25.0
PF	iP	17 05 25.9
SJ	eP'	17 11 25
TUC	iP	17 05 32
	ipP	05 45
Dec. 5		
COL	iP	19 11 06
OV	eP	19 10 42
Dec. 5		
HH	iP	19 17 34
Dec. 5		
COL	eP	21 18 19
Dec. 5, H = 21 41 30** Kyushu foreshock.		

Date and Station	Phase	Phase (GCT) h m s
COL	eP	21 51 37
	e	51 46
HH	eP	21 53 56
	i	54 06
LOG	e	22 06 36
OV	eP	21 54 44
PF	eP	21 54 44
TUC	eP	21 54 56
	i	55 08
Dec. 5, H = 21 53 38* 31°N, 130°E. Near south coast of Kyushu, Japan.		
BC	eP	22 06 46
COL	eP	22 03 41
	iP	03 48
	iS	11 50
	eL	18 51
HH	eP	22 06 01
	e	06 08
OV	eP	22 06 46
PF	eP	22 06 48
	ePP	10 20
TUC	eP	22 07 01
	i	07 11
Dec. 5		
COL	iP	23 08 13
Dec. 6		
COL	eP	00 49 23
HH	iP	00 51 41
Dec. 6, H = 04 00 41** Solomon Islands region.		
COL	eP	04 13 20
	e	13 31
	e	13 58
PF	eP	04 14 12
TUC	eP	04 14 18
	e	14 27
Dec. 6, H = 07 18 41** New Hebrides Islands aftershock. h=about 60 km.		
COL	eP	07 31 32
PF	eP	07 31 46
TUC	eP	07 31 52
Dec. 6		
COL	eP	08 21 24
	i	21 48
HH	iP	08 25 30
Dec. 6		
COL	eP	09 29 35
Dec. 6		
HH	iP	09 55 43
PF	eP	09 55 53
Dec. 6, H = 16 54 10** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	17 07 14
COL	iP	17 07 05
HH	eP	17 07 36
PF	iP	17 07 17.5
SH	iP	17 06 57
	ipP	07 06
	i	07 14
TUC	iP	17 07 24
Dec. 6		
COL	eP	17 29 03
OV	eP	17 29 17
PF	eP	17 29 15
Dec. 6, H = 17 44 30** Off south coast of Honshu, Japan.		
BC	iP	17 56 58
COL	iP	17 53 59
HH	iP	17 56 23
OV	iP	17 56 57.9
PF	iP	17 57 00.3
SH	iP	17 56 16
TUC	eP	17 57 24
Dec. 6, H = 21 06 07** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	21 19 05
	epP	19 21
COL	iP	21 19 01
OV	iP	21 19 12.9
PF	iP	21 19 13.3
TUC	iP	21 19 19
	epP	19 31
Dec. 6		
COL	eP	23 42 43
Dec. 7		
COL	iP	00 04 01
Dec. 7		
COL	eP	00 55 49
Dec. 7		
COL	eP	03 41 34
	i	41 43
HH	eP	03 40 45
Dec. 7, H= 04 54.8 32.4°N, 115.1°W. By PAS, Near Volcano Lake, Calif. Mag. 3.9		
BC	eP	04 55 46
	iP	56 00
	eS	56 37
	iS	56 54
LOG	eP	04 57 45
OV	iP	04 55 54.1
	iS	56 12.1
	eL	57 12
Dec. 7, H = 05 04.9 By PAS, 32.4°N, 115.1°W. Near Volcano Lake, Calif. Mag. 4.1		
BC	eP	05 06 55
	iP	07 08
	eS	07 43
	iS	08 11
OV	iP	05 05 57.8
	iS	07 26.0
TUC	iP	05 05 54
	i	06 03
	iS	06 36
	i	06 49
	iL	06 57
Dec. 7		
COL	eP	05 41 38
Dec. 7		
BC	e(P)	06 42 56
OV	e(P)	06 42 58
Dec. 7		
HH	eP	07 37 47
	ipP	37 54
LOG	eP	07 38 05
SH	iP	07 38 04
	ipP	38 12
Dec. 7		
OV	eP	12 55 55
Dec. 7		
COL	iP	15 05 16
	e(pP)	05 38
Dec. 7		
COL	eP	16 36 04
Dec. 7		
COL	e(P)	17 38 46
Dec. 7		
BH	iP	19 00 10
	iS	00 22
HH	iP	19 08 27
Dec. 7		
COL	iP	19 53 58
	i	54 06
HH	iP	19 53 11
Dec. 7		
COL	eP	20 12 48
Dec. 7		
COL	eP	22 11 32
	e	12 11
PF	eP	22 11 52
Dec. 7		
COL	eP	23 03 03
OV	eP	23 03 22
PF	eP	23 03 16
SH	iP	23 02 55
Dec. 8, H = 00 58 40** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	01 11 42
COL	eP	01 11 33
	eL	42 33
OV	eP	01 11 44
PF	eP	01 11 45
	ePP	15 30

Date and Station	Phase	Phase (GCT) h m s
SH	eP	01 11 26
	ipP	11 42
TUC	eP	01 11 52
Dec. 8		
HH	iP	01 34 11
OV	iP	01 33 42.1
PF	iP	01 33 42.5
TUC	iP	01 33 46
Dec. 8		
COL	eP	04 07 13
Dec. 8		
HH	iP	04 12 58
Dec. 8		
OV	eP	04 17 04
Dec. 8, H = 04 53 37** Southern Idaho, Oregon border region.		
BC	eP	04 55 56
HH	iP	04 55 05
OV	iP	04 55 55.1
SH	iP	04 54 55
TUC	iP	04 56 33
	e	56 42
Dec. 8, H = 07 09 12* 23°S, 178°W. Tonga Islands region.		
BC	eP	07 21 40
COL	eP	07 22 15
OV	iP	07 21 43.1
SH	eP	07 21 30
TUC	iP	07 21 44
Dec. 8		
COL	eP	09 07 49
	iP	07 54
Dec. 8, H = 08 58 56** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	09 12 10
COL	iP	09 12 00
OV	iP	09 12 12.2
SH	eP	09 11 52
TUC	eP	09 12 19
	epP	12 38
Dec. 8, H = 12 49 55* 15°S, 173°W. Samoa Islands.		
BC	eP	13 01 41
COL	iP	13 02 21
HH	eP	13 02 20
LOG	eP	13 02 07
OV	eP	13 01 45
SH	iP	13 01 29
TUC	iP	13 01 47
Dec. 8		
COL	eP	13 41 00
OV	eP	13 40 45
Dec. 8		
COL	iP	14 28 25
HH	eP	14 28 32
OV	eP	14 28 03
SH	iP	14 27 48
TUC	iP	14 28 05
Dec. 8		
COL	eP	14 59 00
OV	iP	14 58 23.3
Dec. 8, H = 15 31 39** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	15 44 44
COL	eP	15 44 32
OV	eP	15 44 46
SH	eP	15 44 22
TUC	eP	15 44 51
Dec. 8		
COL	eP	20 03 18
Dec. 8		
COL	eP	23 32 21
Dec. 8		
PF	eP	23 51 22
TUC	iP	23 50 35
Dec. 9		
COL	eP	00 23 39
	i	23 52
Dec. 9		
COL	eP	00 37 52
OV	iP	00 42 14.8
PF	eP	00 42 14
TUC	iP	00 42 15
Dec. 9		
BC	eP	03 35 21
COL	eP	03 34 26
	e	36 42
OV	eP	03 35 22
PF	eP	03 35 24
Dec. 9		
COL	eP	04 02 44
Dec. 9, H = 05 45 09** Tonga Islands.		
COL	eP	05 57 46
OV	eP	05 57 10
PF	eP	05 57 10
SH	iP	05 56 54
TUC	eP	05 57 11
Dec. 9		
COL	eP	07 39 29
	e	40 46
Dec. 9		
OV	eP	11 12 52
PF	eP	11 12 52
Dec. 9		
HH	eP	15 51 07
PF	eP	15 50 35
Dec. 9		
COL	eP	16 14 56
Dec. 9		
COL	eP	16 49 03
OV	eP	16 49 14
PF	eP	16 49 15
Dec. 9		
COL	eP	17 47 12
PF	eP	17 47 24
Dec. 9, H = 17 46 18** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	17 59 22
COL	eP	17 59 12
OV	eP	17 59 24
PF	eP	17 59 25
SH	eP	17 59 04
TUC	e	17 59 49
Dec. 9		
HH	iP	20 27 49
OV	iP	20 27 02.3
PF	iP	20 26 59.1
TUC	eP	20 26 30
Dec. 9		
COL	eP	21 12 48
Dec. 9, H = 21 38 44* 24°S, 67°W. Northern Argentina-Chile border. One killed and several injured at Calama, Chile. Also felt at Arica, Chile and on board SS Santa Margarita at 22°42'S, 71°10'W. h=about 100 km. Mag. 8.0.		
BH	iP	21 45 36
	iS	51 10
BER	iP	21 48 18
	ipP	48 55
	iPcP	49 23
	iPPP	51 33
	iS	55 51
	iScS	57 23
	iL	22 01 48
T_P = 8 sec. A = 3.5mm. T_S = 13 sec. A = 66.9mm. T_L = 19 sec. $A_{max.}$=63.0mm.		
BC	eP	21 50 17
	ipP	51 24
	iS	59 46
	iP'P'	22 17 51
BOZ	eP	21 50 46
	ipP	51 36
	e(PP)	54 56
	iS	22 00 22
	isPS	02 01
	eSS	06 14
	eL	11 14

Date and Station		Phase (GCT) h m s
BUT	iP	21 50 52
	iPP	53 48
	iS	22 00 50
	esPS	02 09
	eSS	05 33
	e(SSS)	08 48
	eL	12 36
CHI	iP	21 49 35
	epP	50 35
	ePP	51 57
	epPP	52 36
	e(PPP)	54 43
	iS	58 23
	isS	59 21
	e(SS)	22 03 21
	eL	06 09
COL	eP	21 52 57
	iP'	56 49
	iPP	57 22
	iPPP	59 40
	eSKS	22 03 27
	iS	04 41
	isS	05 14
	ePS	06 44
	iSS	11 52
	eSSS	16 28
	eL	22 32
	eP'P'P'	38 17
COLU	iP	21 48 40
	e(pP)	49 41
	ePP	51 24
	iS	56 35
	isS	57 45
	iScS	58 19
	eSS	22 00 43
	eL	02 44
HONO	eP	21 52 22
	iP	52 23
	ipP	52 53
	ePP	56 32
	ePPP	58 27
	eSKS	22 02 34
	eSKKS	02 57
	e(S)	03 15
	ePS	04 48
	ePPS	06 13
	e(SS)	11 48
	eL	24 24
T_P=2 sec. A=1.0mm.		
T_S=18 sec. A=9.0mm.		
T_L=19 sec. $A_{max.}$=16mm.		
LIN	iP	21 49 59
	ePP	52 35
	e(pPP)	53 25
	iS	58 49
	i(L)	22 06 59
LOG	iP	21 50 26
	i	51 52
	iPP	53 58
	iPPP	55 02
	iS	22 00 07
LOG	iPS	22 01 03
	iSS	05 06
	iSSS	08 50
	i(L)	09 52
OV	iP	21 50 18.4
	iS	59 45.6
	i(PKKP)	22 07 52
	eP'P'	17 55
PHIL	eP	21 49 05
	iP	49 06
	ipP	49 32
	iPcP	49 58
	iS	57 32
	isS	58 08
	iScS	58 37
	iL	22 05 00
PF	iP	21 50 15.0
	iS	59 42.2
	eP'P'	22 17 53
RC	iP	21 50 23
	iPP	53 25
	iS	59 46
	eSS	22 04 20
	eSSS	08 42
SLC	iP	21 50 28
	ipP	50 57
	ePP	53 57
	iS	22 00 05
	iPS	01 08
	iSS	04 48
	iL	10 16
SJ	iP	21 46 30
	i	47 32
	iS	52 32
	iL	55 52
SH	iP	21 50 57
	eS	22 00 42
	iP'P'	17 29
	eSKPP'	20 49
	e(SKS)	21 02
SIT	eP	21 52 16
	ePP	56 18
	ipPP	56 42
	iSKS	22 02 14
	iS	03 33
	iPS	04 52
	i(SSS)	15 20
TUC	iP	21 49 47
	i(pP)	50 43
	iPP	52 40
	ipPP	53 23
	iPPP	53 52
	ipPPP	54 33
	eS	58 43
	iS	58 44
	isS	59 40
	isSS	22 03 51
	iL	07 07
	iP'P'	17 56
UK	eP	21 50 52
	iP	50 59
	ePP	54 09
	iS	22 00 59
	iPS	02 08
	e(SS)	06 31
	eL	13 29
WASH	iP	21 49 06
	iPPP	53 29
	iS	57 12
	isS	58 26
	e(L)	22 04 10
Dec. 9		
PF	iP	22 26 57
Dec. 9		
HH	iP	22 54 50
Dec. 10		
OV	eP	00 09 48
PF	eP	00 09 47
Dec. 10		
HH	iP	00 34 24
OV	iP	00 33 40.4
PF	eP	00 33 37
TUC	iP	00 33 09
Dec. 10, H = 02 50 40* 14°S, 76°W. Near coast of Peru. Four killed, twelve injured, and moderate property damage at Ica. h=about 60 km.		
BH	iP	02 55 54
	eS	03 00 08
BER	iP	02 59 13
	iPP	03 01 07
	iS	06 03
	iSS	09 23
	eL	11 15
T_P=6 sec. A=1.5mm.		
T_{PP}=10 sec. A=2.1mm.		
T_S=9 sec. A=3.6mm.		
T_{SS}=14 sec. A=3.3mm.		
T_L=24 sec. $A_{max.}$=2.4mm.		
BC	iP	03 01 00
	eS	09 27
	eP'P'	29 57
BOZ	eP	03 01 39
	eS	10 24
	iS	10 28
	e(ScS)	11 27
	eSS	14 50
	eL	22 52
BUT	eP	03 01 42
	eS	10 42
	e(sS)	11 35
	eL	18 28
CHI	eP	03 00 19
	epP	00 47
	iS	08 07
	isS	08 31
	eScS	10 04
	e(SS)	13 03
	eL	14 45
COL	iP	03 04 02
	ePP	08 02
	epPP	08 28
	iSKS	14 33
	iS	15 05
	eSS	21 42
	eSSS	25 35
COLU	eP	02 59 21
	ePP	03 01 11
	eS	06 15
	eScS	09 05
	eL	10 35
HH	iP	03 01 55
	eS	11 07
	eP'P'	29 48
LIN	eP	03 00 35
	iS	08 27
	isS	08 53
	iScS	10 13
	eL	14 51
LOG	eP	03 01 15
	e(PPP)	05 11
	iS	09 51
	i(ScS)	11 28
	e(L)	16 47
OV	iP	03 01 02.1
	iS	09 32
	eP'P'	29 58
PHIL	iP	02 59 55
	iS	07 27
	esS	07 51
	i	08 22
	iScS	09 39
	eSS	11 15
	e(L)	16 12
PF	iP	03 00 58.0
	iS	09 22.0
	eP'P'	29 55
RC	eP	03 01 09
	iP	01 12
	ipP	01 40
	iS	09 36
	isS	10 00
	eSS	13 40
	e(L)	21 56

Date and Station	Phase	Phase (GCT) h m s
SLC	eP	03 01 21
	ePP	03 56
	eS	09 49
	esS	10 09
	eScS	10 48
	eSS	13 48
	eL	18 38
SJ	eP	02 57 19
	isP	58 05
	iPP	58 40
	iS	03 02 36
	iScP	03 40
	eL	04 12
SH	iP	03 01 47
	eP'P'	29 52
SIT	e(P)	03 04 00
	eSKS	13 45
	iSKS	13 56
	eS	14 20
	e(SSS)	26 40
TUC	iP	03 00 26
	ipP	00 42
	isP	00 53
	iPP	02 34
	epPP	03 05
	ePPP	04 09
	eS	08 18
	iS	08 21
	esS	08 47
	e(ScS)	10 09
	eSS	12 16
	eL	14 40
	eP'P'	30 05
UK	eS	03 10 53
	eSS	15 19
	eL	21 22
WASH	iP	02 59 55
	e(PP)	03 02 27
	eS	07 22
	eL	12 17
Dec. 10		
BC	eP	04 46 38
COL	eP	04 46 32
HH	iP	04 47 24
	ipP	47 56
OV	iP	04 46 38.7
	ipP	47 10.4
PF	iP	04 46 35.3
SH	iP	04 47 16
	ipP	47 50
TUC	iP	04 46 08
	epP	46 38
Dec. 10		
COL	eP	04 56 10

Date and Station	Phase	Phase (GCT) h m s
Dec. 10, H = 05 09 02** Solomon Islands region. h=about 60 km.		
BC	eP	05 22 03
COL	eP	05 21 29
	iP	21 30
	ipP	21 49
OV	iP	05 22 04.7
PF	iP	05 22 05.7
	ipP	22 23.8
Dec. 10		
HH	iP	06 23 03
OV	iP	06 21 48.4
Dec. 10, H = 06 45 11* 19½°N, 155½°W. Hawaiian Islands. Felt.		
BC	eP	06 52 48
COL	eP	06 53 37
	iP	53 41
HONO	eP	06 46 01
	iS	46 35
	eL	47 16
HH	eP	06 53 24
OV	eP	06 52 52
PF	eP	06 52 51
SH	eP	06 52 16
SIT	eL	07 03 07
TUC	iP	06 53 09
Dec. 10, H = 08 41 40* 54½°N, 161½°E. Near east coast of Kamchatka.		
BC	iP	08 51 37
COL	iP	08 47 22
HH	iP	08 50 36
OV	iP	08 51 35.9
PF	iP	08 51 39.2
SH	iP	08 50 42
TUC	iP	08 52 10
	i	52 20
Dec. 10, H = 09 08 45* 77°W, 15°S. Near coast of southern Peru.		

Date and Station	Phase	Phase (GCT) h m s
BC	eP	09 18 42
COL	eP	09 18 01
HH	eP	09 20 09
OV	eP	09 18 14
	ipP	19 15
PF	eP	09 18 14
	ipP	19 11
SH	eP	09 20 00
TUC	iP	09 18 38
Dec. 10		
COL	eP	09 54 15
OV	eP	09 54 28
PF	eP	09 54 28
TUC	eP	09 54 33
Dec. 10, H = 09 45 44** New Hebrides Islands aftershock. h=about 60 km.		
BC	eP	09 58 49
COL	eP	09 58 38
OV	eP	09 58 51
PF	eP	09 58 51
	i	59 06.7
SH	eP	09 58 30
TUC	eP	09 58 56
Dec. 10		
BC	eP	10 46 20
COL	eP	10 48 09
HONO	e	10 42 26
	e	43 16
	eL	44 08
OV	eP	10 46 40
PF	eP	10 46 23
SH	eP	10 45 55
TUC	eP	10 46 34
Dec. 10		
COL	e	10 50 24
HH	eP	10 50 08
OV	eP	10 49 36
PF	eP	10 49 36

Date and Station	Phase	Phase (GCT) h m s
Dec. 10		
COL	eP	11 19 33
OV	eP	11 22 23
PF	eP	11 22 23
Dec. 10		
HH	iP	11 21 49
Dec. 10, H = 11 16 44** New Hebrides Islands. h=about 60 km.		
BC	eP	11 29 47
COL	eP	11 29 38
	ipP	29 47
	eL	12 01 38
OV	eP	11 29 47
PF	eP	11 29 48
SH	eP	11 29 25
TUC	eP	11 29 57
	e	30 04
Dec. 10, H = 13 23 10* 28½°S, 179°W. Kermadec Islands region. h=about 300 km. Mag. 7-1/4.		
BER	iSS	13 59 43
	iP'P'	14 02 46
	e(SSS)	06 24
	eL	14 13
BH	eSKS	13 46 46
	ePS	49 41
BC	eP	13 35 33
	ePP	39 04
	eSKS	45 27
	iS	45 42
	ePKKP	53 17
	eP'P'	14 01 17
BOZ	eP	13 36 08
	ePP	40 08
	iSKS	46 18
	iS	47 07
	iSS	53 42
	eSSS	57 26
	eL	14 02 52
BUT	eP	13 36 11
	ePP	39 49
	eSKS	46 15
	iS	47 03
	iPS	48 22
	iSS	53 30
	e(L)	14 00 38
CHI	ePP	13 41 41
	eSKKS	48 05

Date and Station		Phase (GCT) h m s
CHI	iS	13 48 59
	ePS	50 45
	eSS	56 25
	eSSS	14 00 49
	eL	07 17
COL	eP	13 36 07
	iP	36 08
	iPP	39 58
	epPFP	43 07
	eSKKS	46 24
	iS	47 03
	ePKKP	52 51
	iSS	53 33
	e(SSS)	57 13
	eP'P'	14 01 02
	eL	03 34
	iSKPP'	04 07
	eP'P'P'	21 30
COLU	eSKS	13 47 24
	eS	49 14
	ePS	51 10
	eSS	57 16
	eSSS	14 01 12
	eL	10 40
HONO	iP	13 32 07
	ipP	33 03
	esP	33 40
	eS	39 18
	iS	39 20
	esS	41 19
	eL	44 52
T_P=10 sec. A=3.2mm.		
T_S=15 sec. A=10.5mm.		
T_L=15 sec. $A_{max.}$=9.0mm.		
HH	iP	13 36 07
	ipPP	40 55
	eSKS	46 14
	i(P'P')	14 03 34
LIN	ePP	13 40 55
	eSKS	46 48
	iS	48 05
	ePS	49 39
	eSS	55 17
	eSSS	59 15
	eL	14 07 16
LOG	iP	13 35 52
	ePP	40 09
	iSKS	46 02
	iS	46 37
	iPS	47 53
	eSS	53 13
	eSSS	56 47
	eL	14 02 27
NK	ePP	13 42 16
	eSKS	47 40
	eS	49 44
	ePPS	53 00
	iSSS	14 02 12
OV	iP	13 35 36.4
	isP	37 13
	iPP	39 10
	eS	46 05
	eP'P'	14 01 20
	eP'P'P'	21 31
PHIL	ePP	13 42 35
	iSKS	47 44
	i(SKKS)	49 02
	iS	50 00
	ePS	51 35
	eSP	51 57
	iPPS	53 18
	iSS	58 24
	iP'P'	14 01 46
	eSSS	02 55
	eL	11 47
PF	iP	13 35 35.9
	eSKS	45 39
	iS	46 04
	iP'P'	14 01 12
	eP'P'P'	21 14
RC	iP	13 36 29
	epP	37 48
	iPP	40 38
	iSKKS	46 40
	eS	47 08
	ePS	48 52
	eSS	54 24
	eSSS	58 30
	eL	14 04 08
SLC	eP	13 35 53
	ePP	39 29
	eSKS	46 02
	iSKS	46 03
	iS	46 39
	ePS	47 40
	e(sSS)	55 12
	e(L)	59 20
SJ	iP'	13 41 25
	ePP	42 40
	epPP	44 16
	esPP	44 33
	iSKS	47 50
	iSKKS	49 12
	iS	50 20
	i(PKKP)	51 45
	iPS	52 10
	eSS	58 40
	eSSS	14 03 30
	e(L)	11 00
SH	iP	13 35 25
	ePPP	40 49
	eSKS	45 19
	eS	45 41
	eP'P'	14 01 26
	eSKPP'	04 12
TUC	iP	13 35 35
	ipP	36 45
	isP	37 30
TUC	eiP	13 39 18
	i	39 43
	iPPP	41 19
	iSKS	45 36
	iS	46 02
	ipS	47 02
	isS	47 55
	eSS	51 20
	iSSS	55 28
	iL	59 05
	eP'P'	14 21 33
SIT	iP	13 35 54
	isP	37 45
	iPP	39 41
	isPP	41 20
	iSKS	46 00
	iS	46 38
	iPS	47 52
	iSS	52 52
	eL	14 00 24
UK	eP	13 35 17
	eSKS	45 14
	iS	45 25
	eSP	46 18
	eSS	50 59
	eSSS	54 37
	e(L)	57 15
WASH	eP'	13 41 28
	iPP	42 32
	ePS	52 06
Dec. 10		
COL	eP'	16 05 18
HONO	e	15 57 43
	eL	58 45
HH	iP'	16 05 05
OV	eP'	16 04 35
PF	eP'	16 04 34
Dec. 10		
BC	eP	18 30 38
COL	eP	18 31 32
HONO	eP	18 23 52
	iS	24 27
	eL	25 07
HH	eP	18 31 14
OV	eP	18 30 41
PF	eP	18 30 42
	iP	30 43.2
TUC	iP	18 30 59
Dec. 10		
OV	eP	19 06 03
PF	eP	19 06 03
TUC	eP	19 06 06
Dec. 10, H = 21 04 53** Salta province, Argentina		
BC	iP	21 16 49
COL	eP	21 16 33
HH	iP	21 17 35
OV	iP	21 16 51.5
PF	iP	21 16 47.2
SJ	iP	21 13 01
SH	iP	21 16 29
TUC	iP	21 16 19
	i	16 44
Dec. 10		
COL	eP	21 49 13
Dec. 10		
COL	eP	21 54 35
Dec. 10		
COL	e(P)	22 16 43
	e	16 51
Dec. 10		
COL	eP	22 36 08
Dec. 10		
BC	eP	23 42 12
HH	iP	23 42 58
OV	iP	23 42 13.3
TUC	iP	23 41 42
Dec. 11		
BC	e(P)	00 17 47
Dec. 11		
HH	iP	00 29 07
OV	eP	00 28 40
PF	eP	00 28 41
TUC	eP	00 28 44
Dec. 11, H = 03 32 55* 23°S, 68°W. Northern Argentina-Chile border. h=about 200 km.		
BC	eP	03 44 15
COL	eP	03 46 53
HH	iP	03 45 01

Date and Station	Phase	Phase (GCT) h m s
OV	iP	03 44 15.7
	ipP	45 10
PF	iP	03 44 13.6
SJ	iP	03 40 26
	iPP	42 13
	eS	46 26
	eL	49 40
SH	iP	03 44 54
TUC	iP	03 43 44
Dec. 11		
BC	iP	04 08 38
HH	iP	04 09 24
OV	iP	04 08 40.5
PF	eP	04 08 36
SH	iP	04 09 17
TUC	iP	04 08 08
Dec. 11		
COL	eP	04 36 43
HH	iP	04 34 37
OV	iP	04 33 43.1
PF	eP	04 33 45
TUC	eP	04 33 07
Dec. 11, H = 07 25 06^{u} 19½°N, 155½°W. Hawaiian Islands. Felt.		
BC	eP	07 32 35
COL	eP	07 33 26
	eSS	43 27
	eL	48 25
HONO	eP	07 25 51
	iP	25 54
	iS	26 29
	iL	26 43
HH	iP	07 33 14
OV	iP	07 32 44.2
PF	eP	07 32 42
SH	eP	07 32 14
SIT	eL	07 43 32
TUC	iP	07 32 57
Dec. 11		
COL	iP	07 52 41
HH	iP	07 51 52
Dec. 11		
BC	iP	10 57 22
CHI	eL	11 21 19
COL	eP	10 54 57
HH	iP	10 56 59
OV	iP	10 57 22.2
PF	eP	10 57 25
SH	iP	10 56 45
TUC	eP	10 57 44
Dec. 11		
BC	iP	11 44 13
COL	eP	11 48 30
	ipP	49 09
HH	eP	11 45 26
OV	iP	11 44 14.0
PF	eP	11 44 09
TUC	eP	11 43 28
	ipP	43 48
Dec. 11		
OV	iP	12 09 35.6
	i(S)	10 22.7
Dec. 11, H = 14 46 41^{s} 8°S, 71°W. Western Brazil. h=about 650 km. Mag. 6-1/4.		
BH	iP	14 50 27
	iS	53 28
	eScS	15 00 39
BER	iS	14 58 54
	eL	15 02 18
BC	eP	14 55 52
CHI	eS	15 01 22
	iScS	03 36
COL	iP	14 58 43
	iSKS	15 08 43
	iPKKP	16 00
	iSS	17 35
	eSSS	23 14
HH	iP	14 56 40
	iS	15 04 50
LOG	eP	14 55 52
	esP	59 03
	eS	15 03 34
	iS	03 37
LOG	eScS	15 04 09
	eSS	07 58
	eL	12 42
OV	iP	14 55 53.9
PF	iP	14 55 49.9
RC	iP	14 55 50
	iS	15 03 11
SJ	iP	14 51 35
	iPP	53 09
	iPcP	54 29
	iS	55 22
	iScP	57 14
	ePcS	58 23
	iScS	15 01 08
	eL	02 19
SH	iP	14 56 39
	e(S)	15 05 31
TUC	iP	14 55 19
	i	55 39
	iPcP	56 12
	epP	57 05
	sPP	57 23
	esP	58 17
	eS	15 02 09
Dec. 11		
COL	eP	15 22 38
	i	22 51
HH	iP	15 24 02
	i	27 17
OV	e	15 27 41
PF	eP	15 24 38
Dec. 11		
COL	eP	16 29 20
	e	29 37
	ipP	29 56
HH	iP	16 27 09
OV	eP	16 26 17
PF	eP	16 26 12
Dec. 11		
COL	eP	18 33 33
	e	33 37
OV	eP	18 31 47
PF	eP	18 31 45
TUC	eP	18 31 31
Dec. 11		
COL	eP	18 52 14
HH	eP	18 51 14
OV	eP	18 50 44
	e	51 44
PF	eP	18 50 42
	i	51 42
Dec. 11		
HH	iP	19 02 15
	i	02 35
Dec. 11		
HH	e(P)	21 39 22
Dec. 11, H = 22 29 01 By BERK, 40°05'N, 120°04'W. Herlong foreshock. Felt at Doyle. Mag. 4.1		
OV	eP	22 30 49
	i	31 28
PF	iP	22 30 36
Dec. 11		
HONO	e(P)	22 54 29
	e	54 50
	eL	55 03
HH	eP	23 01 39
PF	eP	23 01 07
Dec. 12		
OV	eP	01 23 12
PF	eP	01 23 10
Dec. 12		
HH	e(P)	01 35 43
Dec. 12		
BC	eP'	01 52 21
	e	53 32
COL	eP'	01 51 43
	eL	02 37 46
HH	eP'	01 52 16
	e	53 12
OV	eP	01 52 29
	e	53 49
	e	57 32
PF	eP'	01 52 38
SJ	eP'	01 51 49
SH	eP'	01 52 06
SIT	eP'	01 51 47
TUC	eP'	01 52 21
	e	53 46
	e	57 44
	eL	02 57 09

Date and Station		Phase (GCT) h m s
Dec. 12		
OV	eP	03 59 28
PF	eP	03 59 31
Dec. 12		
OV	eP	05 59 19
	e	06 00 51
SH	iP	05 58 21
	i	58 41
Dec. 12		
OV	e	10 23 14
PF	eP	10 22 21
	epP	23 06
TUC	eP	10 22 21
	epP	22 57
Dec. 12		
COL	e(P)	12 11 05
Dec. 12		
COL	eP	15 57 33
Dec. 12		
PF	iP	22 44 50
Dec. 13		
COL	eP	01 23 30
Dec. 13		
COL	eP	02 42 16
PF	eP	02 42 31
Dec. 13		
PF	eP	03 00 46
Dec. 13		
COL	eP	04 27 25
Dec. 13		
COL	eP	12 03 03
OV	iP	12 02 26.6
PF	eP	12 02 26
Dec. 13		
HH	iP	18 36 03
OV	iP	18 35 18.3
PF	iP	18 35 14.5
Dec. 13		
COL	eP	18 55 43
Dec. 13		
COL	iP	22 38 30
HH	eP	22 38 05
OV	eP	22 39 47

Date and Station		Phase (GCT) h m s
Dec. 14, H = 00 31 53* 19°S, 171°E. New Hebrides Islands region.		
BC	eP	00 44 55
COL	eP	00 44 54
OV	eP	00 44 59
	i	46 09
	ePP	48 28
PF	iP	00 44 59
SH	eP	00 44 37
TUC	eP	00 45 03
Dec. 14		
OV	eP	00 53 39
PF	eP	00 53 39
Dec. 14		
COL	eP	01 28 01
HH	eP	01 30 40
OV	eP	01 32 12
PF	eP	01 32 12
Dec. 14, H = 01 52 46* 19½°S, 176°W. Tonga Islands region. Felt at Nukualofa and Apia. h=about 200 km. Mag. 7.7		
BH	eP	02 06 14
	eSKS	16 28
BER	epP	02 08 28
	iPP	12 27
	ipPP	13 17
	iPPP	15 16
	ipPPP	15 49
	iSKS	17 46
	i	19 08
	iS	20 05
	iSP	21 48
	iPS	22 13
	isPS	23 08
	iSS	28 08
	eSSS	33 16
	eL	41 53
T_{PP}=18 sec. A = 2.9mm. T_{SKS}=13 sec. A = 10.6mm. T_L=20 sec. $A_{max.}$=3.8mm.		
BER	epP	02 08 28
	iPP	12 27
	ipPP	13 17
	iPPP	15 16
	ipPPP	15 49
	iSKS	17 46

Date and Station		Phase (GCT) h m s
BER	i	02 19 08
	iS	20 05
	iSP	21 48
	iPS	22 13
	isPS	23 08
	iSS	28 08
	eSSS	33 16
	eL	41 53
BC	iP	02 04 38
	iPcP	04 45
	iS	14 35
	ePKKP	23 32
	eP'P'	31 22
BOZ	iP	02 05 19
	ipP	06 12
	e(PP)	09 18
	epPPP	11 32
	iS	15 28
	iPS	16 30
	iSS	21 28
	eL	28 08
BUT	eP	02 05 16
	epP	06 08
	epPP	09 26
	iS	15 24
	ePS	16 42
	iSS	21 20
	eSSS	25 10
	eL	27 52
CHI	eP	02 06 20
	ipP	07 14
	e(PP)	10 00
	ipPP	11 18
	e(PPP)	13 06
	iSKS	16 37
	iS	17 18
	iSP	19 04
	iSS	24 42
	e(SSS)	28 13
COL	iP	02 05 12
	ipP	06 02
	i(PP)	09 04
	i	10 06
	iSKS	15 18
	iS	15 33
	iPS	16 27
	eSS	21 10
	iPKKP	23 08
	eL	28 20
	eP'P'	31 13
	eP'P'P'	51 23
COLU	epP	02 07 28
	ePP	10 56
	iSKS	16 56
	i(S)	18 20
	ePS	19 54
	i(SS)	25 36
	eSSS	29 22
HONO	eP	02 00 41
	iP	00 43
	ipP	01 32

Date and Station		Phase (GCT) h m s
HONO	isP	02 01 48
	ePPP	03 21
	iS	07 00
	isS	08 23
	iL	10 26
T_P=5 sec. A=3.5mm. T_S=16 sec. A=30.5mm. T_L=19 sec. $A_{max.}$=61.0mm.		
HH	iP	02 05 14
	epP	05 51
	iPP	08 45
	iSKS	15 13
	iPKKP	23 09
	iP'P'	31 12
	eP'P'P'	51 29
LIN	iP	02 05 54
	ipP	06 49
	iPP	09 43
	ipPP	10 29
	iSKS	16 01
	i(S)	16 53
	e(SSS)	28 41
LOG	iP	02 04 57
	ipP	05 56
	iPP	08 13
	ipPP	09 02
	isPP	09 32
	iSKS	15 05
	isS	16 09
	iSS	20 37
	isSS	21 58
	e(SSS)	24 50
	iL	27 28
NK	epP	02 07 36
	eP'	10 38
	iSKS	17 03
	iS	17 56
	ePS	20 06
	e(SS)	26 10
OV	iP	02 04 41.9
	iS	14 43
	iPKKP	23 07
	iP'P'	32 33
	eP'P'P'	51 18
PHIL	eP	02 06 54
	epP	07 45
	eP'	11 12
	i(PP)	12 16
	iSKS	17 10
	iSKKS	18 10
	iS	18 54
	esS	20 32
	ipPS	22 12
	iSS	26 45
	esSS	28 18
	iSSS	32 00
	eL	40 09
PF	iP	02 04 42.3
	iS	14 33.0

Date and Station	Phase	Phase (GCT) h m s
PF	iPKKP	02 23 07
	iP'P'	31 33
	eP'P'P'	51 17
RC	iP	02 05 39
	e(pP)	06 32
	epPP	10 26
	i(SKS)	15 52
	i(S)	16 32
	eSS	22 28
	e(PKKP)	23 02
	eL	29 00
	e(P'P')	31 13
SLC	iP	02 05 03
	ipP	05 55
	e(PP)	08 42
	iS	15 11
	iPS	16 12
	iSS	20 36
	isSS	21 24
	eL	27 24
SJ	epP	02 08 12
	eP'	11 05
	iPP	12 00
	iPPP	14 27
	iSKS	17 29
	iS	19 38
	iSP	21 15
	iPS	21 52
	iSS	27 40
	eL	40 25
SH	iP	02 04 27
SIT	iP	02 05 00
	ipP	05 50
	ePP	08 03
	ePPP	09 56
	iSKS	15 02
	isS	16 15
	eSSS	24 22
	eL	27 22
TUC	iP	02 04 44
	ipP	05 37
	iPP	07 51
	esPP	09 05
	epPPP	10 10
	eS	14 30
	iS	14 37
	iSS	19 58
	eSSS	23 23
	eL	26 13
	eP'P'	31 25
	eSKPP'	34 40
	eP'P'P'	51 26
UK	eP	02 04 22
	epP	05 14
	ePP	07 38
	iS	13 53
	isS	14 28
	eSS	18 40
	eSSS	22 05
	eL	23 54
WASH	i(P)	02 06 56
	epP	07 47
	iPP	11 18
	ipPP	12 11
	esS	20 29
	iPKKP	22 10
	eP'P'	30 12
	eL	43 20
Dec. 14		
OV	eP	03 03 27
PF	eP	03 03 23
Dec. 14		
OV	eP	03 07 09
PF	eP	03 07 08
Dec. 14, H = 03 00 26** Tonga Islands aftershock. h=about 200 km		
BC	iP	03 12 19
COL	iP	03 12 52
	i(pP)	13 48
HH	iP	03 12 55
OV	iP	03 12 22.0
	ipP	13 19.5
PF	iP	03 12 22.4
	ipP	13 18.9
SH	iP	03 12 06
TUC	iP	03 12 24
	i	12 47
Dec. 14		
PF	eP	05 22 21
Dec. 14		
OV	eP	06 22 13
PF	eP	06 22 13
Dec. 14		
OV	iP	06 59 53.1
PF	iP	06 59 57.5
Dec. 14		
COL	eP	07 04 32
HH	eP	07 04 29
OV	eP	07 04 07
PF	eP	07 03 54
TUC	eP	07 03 56
Dec. 14		
COL	iP	07 17 14
HH	iP	07 17 22
OV	iP	07 16 54.4
PF	iP	07 16 54.1
TUC	iP	07 16 57
Dec. 14, H = 08 59 34 By BERK, 40°05'N, 120°04'W. Herlong foreshock. Felt at Wendel. Mag. 4.5		
BC	iP	09 01 01
BOZ	eL	09 04 10
HH	iP	09 01 52
	i(S)	03 56
	eL	04 34
LOG	eP	09 01 31
	eS	02 49
	eL	03 27
OV	iP	09 00 59.3
	i(S)	02 23
PF	iP	09 01 06.7
	i	01 34.5
	iL	02 43
TUC	eP	09 02 12
	e	02 52
	eS	04 12
	eL	05 25
UK	e(P)	09 00 33
	eS	00 51
	iS	01 05
	iL	01 27
Dec. 14, H = 09 19 59 By BERK, 40°05'N, 120°04'W. Herlong foreshock. Mag. 4.0		
HH	eP	09 22 18
OV	eP	09 21 24
	i	21 56.0
	iL	23 00.2
PF	iP	09 21 33
	e	21 58
	eL	23 14
Dec. 14, H = 09 29 51 By BERK, 40°05'N, 120°04'W. Herlong foreshock. Felt at Vinton. Mag. 4.0		
BC	eP	09 31 21
	eL	32 56
OV	iP	09 31 18.7
	iL	32 53
PF	iP	09 31 26.7
	e(S)	32 47
	iL	33 08.2
TUC	eP	09 32 31
	e	33 11
	eL	35 35
UK	eS	09 31 10
	eL	31 25
Dec. 14		
HH	iP	10 08 19
Dec. 14		
COL	eP	11 01 11
Dec. 14		
OV	eP	11 03 58
	i	04 24
	iL	05 35
Dec. 14		
COL	iP	11 27 10
HH	iP	11 26 23
OV	eP	11 26 08
PF	eP	11 26 07
Dec. 14		
OV	e(P)	12 23 25
Dec. 14, H = 13 10 38 By BERK, 40°05'N, 120°04'W. Herlong foreshock. Mag. 4.0		
BC	eP	13 12 18
HH	eP	13 13 07
	iL	15 54
OV	eP	13 12 08
	iP	12 16
	iL	13 50
PF	iP	13 12 13.8
UK	e(S)	13 12 06
	e	12 27
	eL	12 48
Dec. 14, H = 13 24 19 By BERK, 40°05'N, 120°04'W. Near Herlong, Calif. Felt in northeastern California and western Nevada. Slight damage at Herlong. Mag. 5.6		

Date and Station	Phase	(GCT)
		h m s
BC	iP	13 25 48
	iL	27 24
BOZ	eP	13 26 28
	e	27 14
	eS	27 56
	eL	28 20
BUT	eP	13 26 23
	eL	28 26
CHI	eP	13 29 39
	iP	29 40
	iS	34 06
	iL	37 20
COL	eP	13 30 25
	ePcP	33 28
	eS	35 52
	eL	39 00
COLU	eL	13 40 14
LIN	eP	13 28 30
	eS	31 51
	eL	34 47
LOG	eP	13 25 51
	i	26 15
	eS	27 16
	iS	27 30
	iL	28 05
NK	eP	13 30 35
	eS	35 53
	eL	40 55
OV	iP	13 25 46.5
	i	25 47.8
PF	iP	13 25 53.8
	i	25 54.5
	iL	27 37
RC	iP	13 27 30
	eS	29 58
	eL	30 57
SLC	eP	13 25 55
	iS	27 08
	iL	27 25
SIT	eP	13 28 50
	eS	32 38
	iS	32 46
	eL	33 49
TUC	iP	13 27 01
	i	27 42
	eS	29 08
	eL	29 41
UK	eP	13 25 03
	iP	25 24
	iS	25 37
	iL	25 59
WASH	iL	13 41 56

Date and Station	Phase	(GCT)
		h m s
Dec. 14		
OV	e(P)	13 35 15
Dec. 14		
COL	eP	13 40 34
Dec. 14		
OV	e(P)	13 55 33
Dec. 14, H = 13 56 23 By PAS, 35°03'N, 119°10'W. Near Wheeler Ridge, Calif. Mag. 4.4		
BC	iP	13 57 31
	iS	58 10
OV	eP	13 57 32
PF	iP	13 57 28.1
	i(S)	58 38
TUC	eP	13 58 16
	i(S)	59 58
	eL	14 00 29
Dec. 14		
BC	iP	14 02 28
COL	iP	14 03 00
	e	03 55
OV	iP	14 02 31
PF	iP	14 02 30.8
Dec. 14, H = 14 15 48* 17°N, 98½°W. Oaxaca, Mexico. Felt in central and south-eastern Mexico. Slight damage in the Federal District. Mag. 7.3		
BH	iP	14 20 28
	iS	24 22
BER	eP	14 22 26
	iP	22 33
	iPP	23 47
	iS	27 57
	eL	30 08
T_P=15 sec. A=8.1mm.		
T_S=15 sec. A=7.4mm.		
T_L=17 sec. $A_{max.}$=21.0mm.		
BC	iP	14 21 05
BOZ	iP	14 22 06
	i(PP)	23 38
	ePcP	24 56
	eS	26 55
	i	27 34
	eL	29 18
BUT	iP	14 22 11

Date and Station	Phase	(GCT)
		h m s
BUT	e(S)	14 27 46
	eL	30 05
CHI	iP	14 21 28
	i	21 48
	iS	26 16
	eL	29 00
COL	eP	14 25 43
	iP	25 45
	iPcP	26 27
	iPP	28 04
	i(PPP)	29 35
	iS	33 36
	eScS	36 09
	eL	38 59
COLU	iP	14 20 56
	iPP	21 20
	iS	25 14
	eL	26 18
HONO	eP	14 25 28
	ePcP	26 28
	eS	33 22
	eL	38 06
T_S=14 sec. A=7.0mm.		
T_L=20 sec. A=5.0mm.		
T_L=10 sec. $A_{max.}$=7.5mm.		
HH	iP	14 22 33
	ePP	24 07
	eS	28 01
	eL	30 07
LIN	eP	14 21 03
	iP	21 11
	e(PP)	21 45
	i(S)	25 31
	eL	27 39
LOG	iP	14 21 28
	iPP	22 27
	i(S)	26 28
	iL	26 54
NK	iP	14 21 48
	iS	26 47
	iL	28 34
OV	iP	14 21 07.1
PHIL	iP	14 21 55
	i	22 21
	eS	26 45
	iS	27 08
	iL	28 47
PF	iP	14 21 02.5
RC	iP	14 21 40
	i(PP)	22 40
	i(S)	26 40
	eL	28 52
SLC	iP	14 21 23
	i	22 30

Date and Station	Phase	(GCT)
		h m s
SLC	eS	14 25 24
	iL	26 33
SJ	iP	14 22 06
	i	22 52
	ePP	23 06
	iS	27 19
	eL	29 08
SH	iP	14 22 10
SIT	iP	14 24 35
	iPcP	25 56
	iS	31 49
	eL	36 00
TUC	iP	14 20 14
	i	20 21
	iS	23 30
	i	23 55
	iL	24 24
UK	eP	14 22 12
	e(S)	27 25
	eL	30 15
WASH	iP	14 21 48
	i(PP)	23 25
	iL	28 03
Dec. 14		
BC	iP	14 58 38
HH	iP	15 00 05
OV	i(P)	14 58 40
PF	eP	14 58 12
TUC	iP	14 57 46
	eL	15 03 32
Dec. 14		
OV	eP	15 24 02
Dec. 14		
COL	eP	16 12 44
HH	eP	16 09 34
Dec. 14		
OV	eP	16 34 57
PF	iP	16 34 50.8
Dec. 14		
COL	eP	16 44 13
	e	45 03
HH	eP	16 41 00
	e	46 06
Dec. 14, H = 16 41 11 By BERK, 40°05'N, 120°04'W. Herlong aftershock. Mag. 4.1		
OV	i	16 44 53.5

Date and Station	Phase	(GCT) h m s
SH	iP	16 41 44
	iS	42 08
Dec. 14		
OV	e(P)	16 50 59
Dec. 14		
COL	e(P)	16 56 19
Dec. 14		
PF	i(P)	17 35 26
Dec. 14		
COL	eP	17 40 07
PF	eP	17 41 59
Dec. 14		
COL	e(P)	18 50 06
Dec. 14		
SH	iP	21 37 23
	iS	37 48
Dec. 14		
OV	eP	22 52 33
SH	iP	22 51 12
	eS	51 36
Dec. 14		
COL	e(P)	23 08 13
Dec. 15		
SH	iP	01 07 34
	iS	07 58
Dec. 15, H = 01 38 01** Bonin Islands region. h=about 100 km.		
BC	iP	01 50 39
	ipP	51 08
COL	eP	01 48 07
	iP	48 08
	ipP	48 36
	eS	56 16
	eL	02 03 00
HH	iP	01 50 14
	ipP	50 42
	e(S)	02 01 16
OV	iP	01 50 39.6
	ipP	51 09
PF	iP	01 50 41.5
	ipP	51 11.1
	eS	02 01 12
SH	iP	01 50 00
	ipP	50 29
TUC	iP	01 51 02
	ipP	51 31
	e(PP)	55 30
Dec. 15		
HH	e(P)	02 08 44
Dec. 15		
OV	eP	03 06 14
PF	iP	03 06 15.1
Dec. 15		
COL	eP	03 18 22
	iP	18 25
OV	eP	03 19 46
PF	eP	03 19 40
Dec. 15		
HH	iP	03 21 04
OV	eP	03 22 32
PF	eP	03 22 36
Dec. 15		
COL	eP	04 23 09
	e	24 06
OV	eP	04 18 33
PF	eP	04 18 28
Dec. 15		
HH	iP	04 28 48
OV	iP	04 27 33.7
	e	29 12
PF	eP	04 27 29
Dec. 15		
HH	iP	05 16 15
OV	eP	05 19 46
PF	eP	05 19 49
TUC	iP	05 20 03
Dec. 15		
OV	e(P)	06 15 37
PF	e(P)	06 15 52
Dec. 15		
SH	iP	09 29 08
	iS	29 30
Dec. 15, H = 09 34 32** Herlong aftershock.		
BC	eP	09 36 01
SH	iP	09 35 02
	iS	35 27
Dec. 15		
SH	iP	09 38 57
	iS	39 22
Dec. 15		
SH	iP	09 40 01
	iS	40 25
Dec. 15, H = 09 49 40** Southern Mexico aftershock.		
BC	eP	09 54 59
COL	eP	09 59 37
	eL	10 22 28
HH	eP	09 56 28
OV	eP	09 55 02
PF	eP	09 54 56
	eL	10 02 38
SLC	eL	10 04 30
TUC	eP	09 54 08
	eL	10 00 08
Dec. 15		
SH	iP	13 26 35
	iS	27 00
Dec. 15		
HH	eP	15 19 05
OV	eP	15 18 43
PF	eP	15 18 40
SJ	iP	15 11 14
	iS	11 41
	i	11 49
	iL	12 00
Dec. 15		
COL	e	15 21 37
Dec. 15		
BH	eP	17 22 00
Dec. 15		
OV	e(P)	17 29 05
Dec. 15		
BC	eP	18 02 44
HH	eP	18 03 35
OV	iP	18 02 43.1
	i	03 08.1
	iL	04 17
PF	iP	18 02 50.4
TUC	e	18 03 58
	eL	07 04
Dec. 15		
OV	e	18 51 03
Dec. 15		
BH	iP	20 02 15
	iS	02 41
Dec. 15		
COL	eP	20 31 18
	e	31 31
Dec. 15		
COL	eP	20 32 13
Dec. 15		
COL	eP	20 34 21
	epP	34 41
Dec. 15		
PF	e(P)	20 44 58
Dec. 15		
PF	e(P)	21 21 25
Dec. 15		
SJ	iP	23 59 08
Dec. 16		
BC	eP	00 03 08
HH	iP	00 03 54
	ipP	04 41
OV	iP	00 03 10
PF	iP	00 03 06.1
TUC	iP	00 02 37
Dec. 16		
PF	iP	00 35 09.4
Dec. 16		
BC	e	01 09 41
TUC	eP	01 06 12
	iP	06 28
	i	06 38
	eS	07 08
	e	07 20
	iS	07 24
	e	07 30
	i	07 34
	eL	07 41
Dec. 16		
OV	eP	01 17 11
PF	eP	01 17 06
Dec. 16		
COL	iP	01 45 44
	epP	45 55
Dec. 16		
OV	e(P)	03 14 46
PF	eP	03 14 47
TUC	eP	03 14 47

Date and Station		Phase (GCT)
		h m s
Dec. 16		
BC	eP	04 22 16
	eL	29 48
COL	eP	04 26 54
HH	eP	04 23 43
OV	iP	04 22 19.1
	eL	29 55
PF	iP	04 22 12.5
SLC	eL	04 31 08
TUC	eP	04 21 24
	eL	27 03
Dec. 16		
COL	iP	07 13 32
Dec. 16		
OV	eP	08 46 28
PF	eP	08 46 54
Dec. 16, H = 10 49 01* 43½°N, 127°W. Off coast of Oregon.		
BOZ	e(P)	10 51 52
	eL	54 48
BUT	eL	10 54 37
CHI	eL	11 06 09
COL	eP	10 54 20
	eS	58 07
	eL	11 01 20
HH	iP	10 51 33
LOG	e(P)	10 51 41
	eL	54 53
OV	iP	10 51 58.1
PF	iP	10 52 05.0
SLC	eL	10 54 44
SJ	iP	10 58 47
SIT	eL	10 55 27
TUC	eP	10 53 05
	e(S)	56 36
	eL	58 19
UK	eL	10 50 37
Dec. 16		
COL	iP	14 45 23
Dec. 16		
COL	eP	15 33 13
OV	eP	15 33 27
PF	iP	15 33 27.4
TUC	eP	15 33 33
Dec. 16		
BC	e	16 36 39
PF	e(P)	16 35 42
Dec. 16		
PF	e(P)	16 52 34
Dec. 16		
BC	eP	16 59 35
COL	eP	16 59 24
PF	eP	16 59 38
TUC	e	16 59 42
Dec. 16		
PF	e(P)	18 31 22
Dec. 16		
COL	eP	18 54 56
HH	iP	18 57 06
Dec. 17		
HH	e(P)	00 50 11
Dec. 17		
PF	e(P)	01 00 17
Dec. 17, H = 01 08 01* 17°N, 98½°W. Southern Mexico aftershock. Mag. about 6-1/4.		
BER	e(S)	01 21 08
	eL	22 16
BC	iP	01 13 19
	eL	20 46
BOZ	eS	01 19 37
	eL	24 48
BUT	eL	01 25 04
CHI	e(S)	01 18 28
	eL	24 28
COL	iP	01 17 56
	eL	37 16
HH	iP	01 14 47
LIN	eS	01 17 22
	eL	21 54
LOG	e(S)	01 18 48
	eL	22 10
OV	iP	01 13 21.0
	eL	21 08
PF	iP	01 13 15.9
	eL	20 56
RC	e	01 14 58
	eL	23 04
SLC	eL	01 22 21
SJ	eP	01 14 17
	eS	19 07
SIT	eL	01 35 21
TUC	iP	01 12 27
	eL	18 10
Dec. 17		
OV	i	01 20 38.3
	i	21 50
TUC	eP	01 15 42
	iP	15 44
	e(S)	16 25
	eL	16 35
Dec. 17		
COL	e(P)	03 29 03
Dec. 17		
OV	iP	03 34 29.9
PF	eP	03 34 23
HH	eP	03 35 55
TUC	eP	03 33 35
	eS	39 32
	e	39 49
	eL	41 19
Dec. 17		
BC	e(P)	05 40 40
COL	e(P)	05 40 29
OV	e(P)	05 40 42
PF	e(P)	05 40 43
Dec. 17		
OV	eP	06 59 05
PF	eP	06 59 05
Dec. 17		
PF	eP	09 23 47
Dec. 17		
COL	eP	10 56 39
	e	56 48
OV	iP	10 57 00.9
PF	iP	10 57 00.9
Dec. 17		
COL	eP	19 04 18
Dec. 17		
COL	e(P)	20 57 06
Dec. 18		
COL	e(P)	00 51 34
Dec. 18		
COL	eP	01 36 16
Dec. 18, H = 02 29 53** Kermadec Islands.		
COL	e(P)	02 43 46
	eSS	03 05 44
	eL	16 44
OV	eP	02 43 02
	e	45 27
PF	eP	02 43 01
	e	45 25
TUC	iP	02 43 01
	e	45 26
	eL	03 19 28
Dec. 18		
HH	iP	02 59 42
OV	eP	02 58 27
PF	eP	02 58 11
TUC	eP	02 56 23
Dec. 18		
OV	eP	03 18 51
PF	eP	03 18 49
TUC	eP	03 18 49
Dec. 18		
COL	eP	03 46 15
HH	iP	03 48 02
	i	48 21
OV	eP	03 48 32
PF	eP	03 48 20
Dec. 18		
TUC	e(P)	04 13 10
Dec. 18, H = 08 04 46* 15°N, 90°W. Guatemala. h=about 200 km.		
BH	eP	08 07 38
BER	iP	08 10 31
	iPP	11 33
	eS	15 33
	eL	17 06
BOZ	eP	08 11 28
	eS	16 52

Date and Station	Phase	(GCT) h m s
BOZ	esS	08 18 12
	eL	20 18
BUR	e(L)	08 17 06
CHI	iP	08 10 16
	epP	10 53
	eS	14 42
	isS	15 51
	eL	16 22
COL	iP	08 14 58
	ipP	14 32
	eL	25 28
HH	iP	08 11 58
	epP	12 39
	iPcP	14 03
	esS	18 44
LIN	ePP	08 11 16
	eL	15 40
LOG	eP	08 10 49
	epP	11 31
	eS	16 07
	eL	19 00
OV	iP	08 10 49.0
PHIL	iP	08 10 19
	ePP	11 26
	eS	14 53
	esS	16 12
	eL	17 24
PF	iP	08 10 43.8
RC	iP	08 10 56
	e(PP)	11 52
	e(PPP)	12 42
	eS	15 40
	esS	17 00
SJ	iP	08 09 42
	ipP	10 20
	isP	10 56
	eL	14 51
TUC	iP	08 10 03
	ipP	10 41
	e	13 58
	eL	15 27
WASH	iP	08 10 16
	iPP	11 22
	eL	16 05
Dec. 18		
BH	eP	09 45 48
Dec. 18		
HH	iP	12 33 50
OV	iP	12 32 37.8
PF	eP	12 32 48
TUC	iP	12 32 36
Dec. 18, H = 15 25 15** About 600 miles off coast of southern Chile.		
BC	iP	15 38 59
HH	eP	15 39 55
OV	eP	15 39 01
PF	eP	15 38 58
SJ	i(P)	15 37 21
TUC	iP	15 38 33
	e	38 40
	i	38 44
Dec. 18, H = 15 44 39* 4°S, 128½°E. Near south coast of Ceram Island.		
BER	ePP	16 08 08
	eSS	27 20
	eL	48 30
COL	eP	15 57 47
	ePP	16 01 27
	eSKS	08 44
	eSS	14 42
	eL	22 20
HH	eP'	16 02 43
	ePKKP	14 26
OV	eP'	16 03 28
	ePKKP	14 16
PHIL	eL	16 49 39
PF	eP'	16 03 28
SJ	eP'	16 05 48
SIT	eSKS	16 09 14
	eSS	16 18
	eL	34 16
TUC	eP'	16 03 35
	ePP	05 10
	eL	40 56
UK	eL	16 39 24
Dec. 18		
OV	eP	18 06 27
PF	eP	18 06 21
Dec. 18		
BC	eP	19 37 42
HH	iP	19 38 30
OV	iP	19 37 44.0
PF	iP	19 37 39.9
Dec. 18		
OV	e(P)	22 56 17
	i	57 14
PF	e	22 57 07
TUC	e(P)	22 56 20
	eL	23 02 16
Dec. 19		
OV	e(P)	00 11 55
	e	13 03
PF	e	00 12 20
	e	13 22
Dec. 19		
HH	iP	00 29 50
Dec. 19		
COL	eP	03 32 21
Dec. 19		
BC	eP	04 05 52
OV	eP	04 05 57
PF	eP	04 05 47
TUC	eP	04 04 57
	eL	10 50
Dec. 19		
SH	iP	04 39 50
Dec. 19		
BC	eP	07 41 29
COL	eP	07 45 56
HH	eP	07 42 50
OV	eP	07 41 31
PF	eP	07 41 26
TUC	eP	07 40 43
Dec. 19, H = 09 18 25** Samoa Islands. Felt at Apia.		
BC	eP	09 30 06
COL	iP	09 30 43
HH	eP	09 30 49
OV	eP	09 30 10
PF	iP	09 30 11.1
TUC	iP	09 30 14
Dec. 19		
COL	eP	09 46 44
HH	eP	09 46 05
Dec. 19		
BC	eP	14 29 26
	i	29 37
COL	eP	14 29 19
HH	eP	14 29 19
OV	eP	14 29 29
PF	eP	14 29 30
TUC	eP	14 29 36
	e	29 45
Dec. 19		
OV	iP	17 44 54.2
	i	46 46.7
PF	iP	17 44 53.9
	e	46 46
Dec. 19		
COL	eP	18 58 45
Dec. 19		
COL	eP	19 28 26
Dec. 19, H = 19 43 53* 49°N, 129°W. Off coast of Vancouver Island, British Columbia.		
BC	eP	19 47 49
COL	eP	19 48 16
HH	eP	19 46 15
OV	eP	19 47 45
PF	eP	19 47 50
	iP	47 53
	i	48 06
SH	iP	19 46 11
	i	46 18
TUC	eP	19 48 43
	iP	48 47
Dec. 19		
COL	iP	20 02 55
	ipP	03 14
Dec. 19		
COL	e(P)	20 50 11
Dec. 19		
COL	eP	20 54 15

Date and Station		Phase (GCT)
		h m s
Dec. 19, H = 21 27 19* 54°N, 35°W. North Atlantic Ocean.		
BC	eP	21 37 02
CHI	eL	21 47 36
COL	eP	21 36 21
HH	eP	21 35 54
	ePP	37 24
OV	eP	21 36 58
PF	eP	21 36 57
TUC	eP	21 37 06
	eL	59 58
Dec. 19 OV	e(P)	21 50 48
Dec. 19 OV	e(P)	22 32 58
Dec. 19 OV	e(P)	23 18 39
Dec. 19 BC	eP	23 21 55
OV	eP	23 21 57
PF	eP	23 21 57
Dec. 20, H = 02 13 06** Southern Mexico aftershock.		
BC	iP	02 18 24
	ipP	18 33
BOZ	eL	02 38 04
COL	eP	02 23 02
	ipP	23 12
HH	iP	02 19 52
	ipP	20 00
OV	iP	02 18 26.6
	eL	26 09
PF	iP	02 18 21.2
	ipP	18 30.3
	eL	25 50
SJ	eP	02 19 21
TUC	eP	02 17 33
	i	17 42
	eL	23 14
Dec. 20 COL	eP	03 21 12
Dec. 20 BC	eP	08 30 29
COL	eP	08 30 21
OV	eP	08 30 32
PF	eP	08 30 33
	i	30 41
TUC	eP	08 30 40
Dec. 20 BC	eP	14 42 03
	eL	43 32
PF	eP	14 41 55
	i(S)	43 10
	eL	43 25
TUC	eP	14 41 10
	iP	41 13
	i	41 22
	i(S)	41 39
	iS	41 46
	iL	41 59
Dec. 20 BC	e	17 22 15
	i	22 33
HH	e	17 22 18
OV	e(P)	17 19 53
	e	20 40
	e	22 41
PF	iP	17 19 44.5
	i	21 58.2
TUC	iP	17 18 48.5
	i	18 52
	i	19 22
	i(S)	19 38
	i	19 50
	iL	20 05
Dec. 20 BC	e(P)	17 49 07
Dec. 20, H = 18 17 52** Southern Mexico aftershock.		
BC	eP	18 23 09
COL	eP	18 27 46
HH	iP	18 24 37
OV	iP	18 23 11.9
PF	iP	18 23 07.0
TUC	iP	18 22 19
	i	22 41
	eL	28 06
Dec. 20 PF	e(P)	18 56 47
Dec. 21 BC	eP	02 26 15
COL	e(P)	02 30 53
	eL	53 20
HH	eP	02 27 44
LOG	eL	02 36 31
OV	eP	02 26 18
	e(S)	34 21
PF	eP	02 26 13
SLC	eL	02 35 39
TUC	eP	02 25 25
	eL	31 05
Dec. 21 HH	iP	02 35 14
Dec. 21 HH	e(P)	03 31 41
Dec. 21 HH	iP	04 52 21
PF	e(P)	04 52 43
WASH	e	05 02 05
Dec. 21 TUC	e(P)	05 12 18
Dec. 21 OV	e(P)	08 55 15
PF	e(P)	08 55 10
	e	09 02 53
TUC	eP	08 54 21
	eL	09 00 17
Dec. 21 OV	e(P)	09 17 15
Dec. 21 BC	eP	10 27 07
HH	eP	10 28 18
OV	eP	10 27 11
PF	eP	10 27 09
TUC	eP	10 26 43
Dec. 21, H = 11 36 48* 29½°S, 71°W. Central Chile. Felt. h=about 100 km.		
BC	iP	11 48 36
	ipP	49 01
COL	eP	11 51 09
HH	iP	11 49 24
OV	iP	11 48 37.7
	ipP	48 48
PF	iP	11 48 34.6
	ipP	49 00.2
SH	iP	11 49 13
	ipP	49 38
TUC	iP	11 48 07
	ipP	48 32
	ePP	50 52
WASH	eP	11 47 45
Dec. 21 BC	eP	15 49 25
BOZ	eL	16 00 34
COL	eP	15 54 03
	eL	16 16 28
HH	eP	15 51 00
LOG	eL	15 59 10
OV	eP	15 49 24
	eL	57 19
PF	eP	15 49 15
	eL	56 47
SLC	eL	15 59 40
TUC	eP	15 48 30
	eL	53 35
Dec. 21 COL	eP	18 49 11
	iP	49 13
HH	iP	18 51 55
OV	iP	18 52 40.5
PF	eP	18 52 42
SH	eP	18 51 56
Dec. 21 COL	eP	18 59 07
Dec. 21 COL	e(P)	20 36 15
Dec. 21, H = 23 57 06** Off south coast of Mexico.		
BC	iP	00 02 38
	e	02 47
COL	eP	00 07 15

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HH	iP	00 04 05
OV	eP	00 02 40
	eL	10 59
PF	iP	00 02 34.5
	ipP	02 44.2
	eL	10 17
TUC	iP	00 01 46
	eL	07 30
Dec. 22		
BC	iP'	00 45 49
COL	e(P)	00 40 29
HH	iP'	00 45 41
OV	iP'	00 45 49.9
PF	iP'	00 45 50.7
TUC	iP'	00 45 57
WASH	eP'	00 46 32
Dec. 22, H = 02 05 36 By PAS, 33°25'N, 116°34'W. Southwest of Santa Rosa Mt., Calif. Felt in Santa Rosa Mts., and at Campo and Hemet. Mag. 4.0		
OV	eP	02 06 32
	iP	06 43.1
	iS	07 33.6
PF	iP	02 06 29.7
	iS	07 25
Dec. 22		
COL	eP	03 03 55
OV	eP	03 00 25
Dec. 22		
OV	e(P)	03 28 58
Dec. 22		
COL	eP	04 43 23
OV	eP	04 47 15
PF	eP	04 47 19
TUC	iP	04 47 53
	e	48 15
Dec. 22, H = 07 56 05* 3°N, 95°W. Galapagos Islands region.		
BC	eP	08 03 29
COL	eP	08 07 32
HH	iP	08 04 49
OV	eP	08 03 27
PF	eP	08 03 22
TUC	eP	08 02 42
Dec. 22, H = 09 10 37* 8°N, 91½°E. Nicobar Islands.		
BC	eP'	09 29 53
COL	eP	09 24 02
	e	24 09
	e(pP)	25 04
	e(PP)	28 04
	eSKS	34 36
	eSS	41 15
	eL	46 46
HH	eP'	09 29 29
LIN	eL	10 14 20
OV	eP'	09 29 02
	ePP	31 57
PHIL	eL	10 19 22
PF	eP'	09 29 52
SH	eP'	09 29 39
SIT	eL	10 01 32
TUC	eP'	09 30 02
	i	30 17
	ePP	32 42
	e(PKS)	33 25
	eL	10 34 16
Dec. 22, H = 17 33 48** Kermadec Islands.		
OV	iP	17 46 47.8
PF	iP	17 46 47.2
TUC	iP	17 46 47
Dec. 23		
OV	iP	04 48 33.3
PF	eP	04 48 36
Dec. 23		
BC	eP	06 44 48
OV	eP	06 44 54
PF	eP	06 44 46
TUC	eP	06 43 50
	eL	47 37
Dec. 23		
BC	iP	07 56 47.0
	e	57 31
COL	eP	07 55 03
Dec. 23, H = 08 53 00* 38°N, 140½°E. Northern Honshu, Japan.		
BC	iP	09 05 03.0
	ipP	05 18.5
	i	05 29.5
	ePP	08 14
COL	iP	09 01 47
	ipP	02 03
	iPcP	02 36
HH	iP	09 04 23
	epP	04 37
OV	iP	09 05 03.2
PF	iP	09 05 05.4
	ipP	05 20
SH	iP	09 04 28
	ipP	04 32
TUC	iP	09 05 29
	ipP	05 43
	ePP	08 54
Dec. 23, H = 17 46 10* 21°S, 179½°W. Fiji Islands region. h=about 600 km.		
BC	iP	17 57 39.5
	e	57 50
COL	iP	17 58 06
	i(pP)	58 16
HH	iP	17 58 12
OV	iP	17 57 43.4
	epP	59 49
PF	iP	17 57 43.6
	ipP	59 47.1
SH	iP	17 57 28
TUC	iP	17 57 45
Dec. 24		
COL	eP	02 18 54
	e	19 16
Dec. 24		
COL	eP	03 51 16
OV	eP	03 50 54
PF	eP	03 50 46
Dec. 24		
BH	iP	04 01 45
	iS	02 06
Dec. 24		
HH	iP	04 25 36
OV	eP	04 24 52
PF	iP	04 24 48.4
SH	iP	04 25 30
TUC	eP	04 24 20
Dec. 24		
COL	eP	04 46 49
Dec. 24		
HH	eP	04 49 33
Dec. 24, H = 05 10 03** Off south coast of Kyushu, Japan.		
BC	iP	05 23 10
COL	eP	05 20 01
	e	20 10
	eL	38 15
HH	iP	05 22 24
	i(pP)	22 33
OV	eP	05 23 10
PF	eP	05 23 12
SH	iP	05 22 21
	ipP	22 31
	i	22 47
TUC	eP	05 23 23
	e	23 33
	ePP	27 14
Dec. 24, H = 09 16 20** Kyushu, Japan.		
BC	eP	09 29 10
COL	eP	09 26 08
	e	26 18
HH	eP	09 28 32
	e(pP)	28 41
OV	eP	09 29 08
PF	eP	09 29 09
SH	iP	09 28 30
	i(pP)	28 41
TUC	eP	09 29 32
	e	29 41

Date and Station	Phase	(GCT)
		h m s
Dec. 24, H = 16 33 48** Ascension Island.		
BER	eL	16 52 18
PF	e(P)	16 47 11
TUC	e(P)	16 47 57
	e	48 25
Dec. 24		
COL	e	17 04 27
Dec. 24		
COL	eP	17 16 59
Dec. 24		
OV	eP	18 41 29
PF	eP	18 41 27
Dec. 24, H = 20 36 44* 18½°S, 168½°E. New Hebrides Islands.		
BC	iP	20 49 50
COL	eP	20 49 46
OV	iP	20 49 53.8
PF	iP	20 49 53.5
SH	iP	20 49 35
TUC	iP	20 49 59
	e	50 18
Dec. 24		
OV	iP	23 27 34.0
PF	iP	23 27 31.1
Dec. 25, H = 00 16 09 By PAS, 37°20'N, 118°04'W. Near Deep Springs, Calif. Mag. 3.5		
BC	eP	00 16 06
	e(S)	16 47
	eL	17 06
OV	iP	00 16 08.5
	iS	16 51.8
PF	eP	00 16 08
	iL	17 03.6
TUC	e	00 19 28
Dec. 25		
COL	e(P)	00 21 24
Dec. 25		
OV	eP	01 43 18
PF	eP	01 43 17
Dec. 25		
OV	eP	04 22 20
Dec. 25		
COL	e(P)	06 25 28
Dec. 25		
OV	e(P)	15 21 14
Dec. 25		
COL	eP	15 48 15
OV	eP	15 47 54
PF	eP	15 47 51
Dec. 25		
COL	e(P)	19 25 04
Dec. 25		
HH	iP	21 01 02
Dec. 25		
COL	e(P)	21 33 14
Dec. 25		
COL	eP	21 54 07
HH	eP	21 56 24
SH	eP	21 56 45
Dec. 26		
PF	eP	00 09 48.0
Dec. 26		
COL	e(P)	04 23 46
Dec. 26, H = 06 18 35** Southeastern Peru.		
HH	eP	06 30 12
OV	iP	06 29 26.0
PF	iP	06 29 22.2
SH	iP	06 30 07
TUC	eP	06 28 52
Dec. 26		
OV	eP	07 55 57
PF	eP	07 56 00
TUC	eP	07 55 03
	eL	08 00 57
Dec. 26		
OV	iP	08 02 05.4
TUC	eP	08 01 11
	eL	06 57
Dec. 26, H = 12 05 49 By PAS, 33°57'N, 117°35'W. North of Arlington, Calif. Felt at Riverside. Mag. 3.1		
OV	iP	12 06 45.2
	i	06 58.7
	iS	07 45.0
PF	iP	12 06 44.6
	i	06 55
	i(S)	07 28
Dec. 26		
BH	iP	12 44 10
	iS	44 48
Dec. 26, H = 13 51 43* 17°N, 98°W. Southern Mexico aftershock. Felt. Mag. 6-1/2.		
BER	e(P)	13 59 33
	eL	14 10 06
BC	iP	13 56 59
	ePP	57 29
	eL	14 04 34
BOZ	eP	13 58 00
	eS	14 03 09
	eL	05 22
BUT	eP	13 58 05
	eL	14 08 44
CHI	iP	13 57 18
	eS	14 01 52
	eL	06 26
COL	iP	14 01 37
	i	02 09
	eL	14 18
HH	iP	13 58 26
	i	58 32
	eL	14 10 06
LIN	eL	14 03 50
OV	eP	13 57 01
	eL	14 04 43
PF	iP	13 56 55.1
	iL	14 04 17
SLC	eP	13 57 22
	eS	14 02 00
	eL	06 46
SJ	e(P)	13 57 54
	eS	14 03 08
	eL	05 16
SH	iP	13 58 04
	e	58 32
	eL	14 08 34
TUC	iP	13 56 07
	i	56 49
	i	57 06
	eS	59 53
	eL	14 00 54
UK	eL	14 07 16
Dec. 26		
BC	iP	14 27 56
OV	iP	14 27 58.4
PF	iP	14 27 57.8
SH	iP	14 27 51
TUC	eP	14 27 55
Dec. 26		
SH	i(P)	16 31 00
Dec. 26		
COL	eP	21 17 40
HH	iP	21 23 00
	i	23 54
OV	iP	21 22 15.3
PF	iP	21 22 11.7
Dec. 26		
BC	eP	21 22 14
SH	iP	21 22 53
Dec. 26		
COL	eP	23 04 54
	e	05 04
Dec. 27		
HH	e(P)	01 34 28
Dec. 27		
HH	eP	04 16 32
Dec. 27, H = 04 34 07* 20°S, 70°W. Northern Chile. h=about 100 km.		
BC	iP	04 45 16
	ipP	45 46
HH	iP	04 46 03
OV	iP	04 45 17.8
	ipP	45 48.2
PF	iP	04 45 13.8
TUC	iP	04 44 44
Dec. 27		
COL	eP	05 04 56

Date and Station	Phase	Phase (GCT) h m s
Dec. 27		
OV	e(P)	06 10 59
	i	11 36.0
Dec. 27		
HH	eP	07 29 24
OV	e(P)	07 28 07
PF	eP	07 27 53
Dec. 27		
OV	eP	09 59 12
PF	eP	09 59 12
Dec. 27		
PF	e(P)	11 47 22
	i	48 15.0
Dec. 27		
COL	e(P)	12 21 50
Dec. 27		
BC	eP	13 26 51
HH	eP	13 27 07
OV	iP	13 26 54.9
PF	iP	13 26 53.8
TUC	iP	13 26 53
	i	27 00
Dec. 27		
COL	e(P)	14 14 12
Dec. 27		
COL	eP	15 24 58
OV	iP	15 26 12.8
PF	iP	15 26 15.3
Dec. 27		
HH	eP	19 53 05
OV	eP	19 51 48
PF	eP	19 51 39
TUC	eP	19 50 59
Dec. 27		
OV	eP	23 00 57
PF	eP	22 59 01
Dec. 27, H = 23 10 02** Leeward Islands foreshock. h=about 100 km.		
BER	e(P)	23 14 06
	eS	17 01
	eL	24 14
BC	iP	23 19 03
BOZ	eL	23 36 12
COL	eP	23 21 22
	ipP	21 37
	eL	46 09
HH	eP	23 19 07
	iP	19 19
	ipP	19 36
OV	eP	23 19 11
PHIL	eP	23 15 44
	eS	19 56
	eL	22 09
PF	eP	23 18 44
	ipP	18 59
SJ	eP	23 10 54
	iS	11 46
	iL	11 58
TUC	eP	23 18 22
	i	18 35
	e(PP)	20 33
	e(S)	25 27
Dec. 27		
COL	eP	23 30 43
HH	iP	23 28 25
OV	eP	23 28 09
PF	iP	23 28 03.7
SJ	iP	23 20 15
	iS	20 48
	iL	21 05
TUC	eP	23 27 40
	i	27 55
Dec. 27		
PF	e(P)	23 24 33
Dec. 27		
OV	eP	23 48 20
PF	eP	23 48 08
Dec. 28, H = 02 31 22** Off southeast coast of Kamchatka.		
BC	iP	02 41 38
COL	eP	02 37 32
HH	iP	02 40 40
OV	iP	02 41 37.2
PF	iP	02 41 40.8
TUC	iP	02 42 11
Dec. 28		
COL	eP	03 59 58
Dec. 28		
COL	eP	06 32 17
TUC	eP	06 31 49
Dec. 28		
OV	e(P)	07 04 02
Dec. 28		
OV	e(P)	07 55 26
	e(S)	56 04
	iL	57 19
PF	e(P)	07 55 07
Dec. 28		
OV	e(P)	08 03 11
Dec. 28		
OV	e(P)	08 20 04
	e	20 25
PF	e(P)	08 20 23
Dec. 28		
HH	eP	13 06 32
Dec. 28		
COL	e(P)	14 24 06
Dec. 28, H = 14 17 26* 7½°S, 71°W. Western Brazil. h=about 650 km. Mag. 6-1/4.		
BC	iP	14 26 37
COL	eP	14 29 28
	iP	29 29
	ipP	31 44
	iPP	33 22
HH	iP	14 27 25
	ipP	29 55
	iS	35 33
	eP'P'	54 46
	eSKPP'	58 01
OV	iP	14 26 38.2
	ipP	28 24
	eScP	30 14
PF	iP	14 26 34.2
SJ	iS	14 26 10
	eL	29 17
SH	iP	14 27 22
TUC	iP	14 26 03
	iScP	29 53
	eS	33 14
WASH	iP	14 25 07
Dec. 28		
HH	iP	19 03 56
Dec. 28		
COL	e(P)	19 47 09
Dec. 28		
COL	eP	20 20 07
	e	20 26
Dec. 28		
OV	eP	21 07 57
	i(S)	08 45
Dec. 28, H = 21 06 16* 15°S, 76°W. Near coast of southern Peru. h=about 60 km.		
BC	iP	21 16 37
COL	iP	21 19 38
HH	iP	21 17 32
OV	iP	21 16 38.6
PF	iP	21 16 34.9
	i	17 18.1
TUC	iP	21 16 03
	epP	16 32
Dec. 28		
HH	iP	22 44 19
Dec. 28, H = 22 41 11* 23°N, 142½°E. Volcano Islands region. h=about 100 km.		
BC	iP	22 53 48
COL	eP	22 51 17
	iP	51 18
	ipP	51 43
HH	iP	22 53 24
	epP	53 49
	i	54 09
	iPP	56 51
	eS	23 03 24
OV	iP	22 53 48.1
	epP	54 14
PF	iP	22 53 50.3
	ipP	54 18.0
	eS	23 04 09
SH	iP	22 53 09
	ipP	53 34
TUC	iP	22 54 10
	epP	54 28

Date and Station	Phase	(GCT)
		h m s
Dec. 29		
OV	i(P)	02 41 26
PF	eP	02 41 26
TUC	iP	02 41 29
Dec. 29		
OV	eP	03 10 47
PF	iP	03 10 47.3
TUC	eP	03 10 52
Dec. 29, H = 11 15 30** Tonga Islands.		
BC	eP	11 27 11
COL	iP	11 27 50
HH	iP	11 27 48
OV	iP	11 27 13.8
PF	iP	11 27 14.1
SH	iP	11 26 57
TUC	eP	11 27 15
Dec. 29, H = 11 56 03* 32½°N, 87½°E. Tibet.		
BER	eL	12 54 14
BOZ	eL	12 48 24
CHI	eL	12 45 17
COL	iP	12 07 39
	i	08 10
	iPP	10 22
	eS	16 15
	eSSS	25 24
	eL	33 28
HH	iP	12 09 34
	ePP	13 05
OV	ePP	12 14 52
PHIL	eL	12 46 46
PF	ePP	12 14 36
SIT	eL	12 41 42
Dec. 29		
COL	eP	16 31 39
HH	iP	16 34 05
Dec. 29		
HH	iP	20 10 51
OV	iP	20 10 06.7
PF	eP	20 10 09
Dec. 29, H = 20 16 30* 17°N, 62½°W. Leeward Islands. h=about 100 km.		
BER	eP	20 19 58
	eS	23 04
	eL	23 18
BC	eP	20 25 17
BOZ	eL	20 40 27
BUT	eL	21 39 36
COL	eP	20 27 50
	i	27 53
	i	28 06
	ipP	28 23
	eL	47 32
HH	iP	20 25 33
	iPP	27 19
OV	iP	20 25 15.6
	epP	25 34
PHIL	eP	20 22 10
	iS	26 10
	eL	28 08
PF	iP	20 25 12.3
SLC	eSS	20 36 06
	eL	40 30
SJ	eP	20 17 20
	iP	17 24
	eS	17 56
	iS	18 02
	iL	18 32
SH	iP	20 26 02
SIT	eL	20 48 14
TUC	eP	20 24 48
	iP	24 49
	eS	32 09
	eSS	35 37
	eL	40 34
WASH	e	20 21 48
	eL	29 02
Dec. 29		
WASH	i(P)	20 51 13
Dec. 29		
PF	e(P)	21 24 46
	i	24 48
Dec. 29		
BC	e(P')	22 54 03
COL	eP	22 47 29
	e	50 37
	eL	23 18 20
HH	eP	22 49 28
PF	e(P')	22 53 41
TUC	e(P')	22 54 11
Dec. 30		
BC	eP	03 03 30
	e	03 36
COL	eP	03 00 19
HH	iP	03 02 37
	i	02 47
	e	02 57
OV	eP	03 03 24
	i	03 29
PF	eP	03 03 11
	i	03 32.0
SH	iP	03 02 48
Dec. 30		
BC	iP	03 09 13
COL	eP	03 05 40
OV	iP	03 09 12.1
PF	eP	03 09 15.2
SH	eP	03 08 25
Dec. 30, H = 03 48 09 By PAS, 33°57'N, 116°30'W. Near Desert Hot Springs, Calif. Felt at Whitewater. Mag. 3.7		
OV	iP	03 48 57.9
	i	48 59.6
	iS	49 40
PF	iP	03 48 55.3
	iS	49 41.0
Dec. 30		
BC	eP	04 44 00
	i	44 11
COL	eP	04 40 14
HH	eP	04 42 40
	e	43 21
OV	eP	04 43 59
	i	44 11
PF	eP	04 44 03
	i	44 14
SH	eP	04 43 18
TUC	eP	04 44 31
	e	44 42
Dec. 30		
COL	e(P)	04 53 42
Dec. 30		
COL	e(P)	06 25 25
PF	iP	06 25 06.9
Dec. 30, H = 06 42 51* 31°S, 176½°W. Kermadec Islands region. h=about 60 km.		
BC	iP	06 55 43
COL	eP	06 56 26
HH	eP	06 56 19
OV	iP	06 55 46.7
PF	iP	06 55 46.4
SH	iP	06 55 37
TUC	iP	06 55 45
Dec. 30		
PF	e(P)	07 14 09.
	e	14 28
Dec. 30		
PF	eP	09 22 29
HH	iP	09 23 40
	i	25 29
Dec. 30		
HH	iP	11 37 28
OV	eP	11 36 42
Dec. 30		
COL	eP	12 05 44
HH	iP	12 05 46
OV	eP	12 05 06
PF	eP	12 05 08
SH	eP	12 04 55
TUC	eP	12 05 14
Dec. 30		
BC	iP	12 49 57
COL	eP	12 46 41
OV	eP	12 49 58

Date and Station	Phase	Phase (GCT) h m s
PF	eP	12 49 56
	i	50 02
TUC	eP	12 50 20
	i	50 25
Dec. 30, H = 13 02 19* 1°S, 77°W. Central Ecuador. h=about 200 km.		
BH	iP	13 04 48
	iS	06 42
BC	iP	13 11 04
	epP	11 49
COL	eP	13 14 25
	iP	14 26
	ePP	17 37
OV	iP	13 11 05.4
PF	iP	13 11 00.7
	ipP	11 44.7
SJ	iP	13 07 07
	eS	11 03
	eL	12 12
SH	iP	13 11 56
TUC	iP	13 10 26
	eS	17 03
Dec. 30		
COL	eP	14 31 17
Dec. 30, H = 16 08 52 By PAS, 36°26'N, 118°13'W. Near Cottonwood Lakes, Calif. Felt at Cottonwood. Mag. 3.2		
OV	eP	16 09 44
Dec. 30		
COL	eP	16 16 11
Dec. 30		
HH	eP	17 09 38
OV	eP	17 06 11
PF	iP	17 06 12.6
Dec. 30		
BC	eP	17 08 06
	i	08 15
COL	e(P)	17 10 23
HH	iP	17 11 55
	i(pP)	12 32
OV	eP	17 08 07
	i	08 16
PF	eP	17 08 01
	i	08 11
SH	iP	17 11 54
TUC	eP	17 07 10
	eL	12 20
Dec. 30		
COL	e(P)	17 25 51
Dec. 30, H = 21 14 44* 18½°S, 175½°W. Tonga Islands region. h=about 250 km.		
BC	iP	21 26 27
	e	26 34
	ipP	27 26
COL	iP	21 27 00
	ipP	28 05
HH	iP	21 27 02
	ipP	28 05
OV	iP	21 26 30.5
	ipP	27 29.5
	eS	36 31
PF	iP	21 26 30.5
	ipP	27 30.2
	eS	36 13
SH	iP	21 26 15
	ipP	27 14
TUC	iP	21 26 33
	ipP	27 32
Dec. 30		
COL	eP	21 52 22
PF	iP	21 56 05.0
Dec. 30		
COL	e(P)	22 00 04
Dec. 30		
OV	eP	22 22 44
PF	eP	22 22 45
Dec. 31		
COL	eP	02 35 51
HH	eP	02 38 44
PF	eP	02 39 35
Dec. 31		
COL	e(P)	07 00 33
Dec. 31		
COL	eP	07 41 53
Dec. 31, H = 09 46 29** Leeward Islands aftershock. h=about 100 km.		
BER	eL	09 52 38
COL	e(P)	09 57 53
HH	iP	09 55 33
TUC	eP	09 54 49
SJ	iP	09 47 19
	i	47 26
	iS	47 59
	iL	48 14
Dec. 31		
BC	eP	11 37 33
	e(S)	38 43
OV	eP	11 37 10
	i	37 31
	i(S)	38 37
PF	eP	11 37 14
	i(S)	38 56
TUC	e	11 41 40
Dec. 31		
COL	eP	15 26 46
	e	27 26
HH	iP	15 23 42
PF	eP	15 22 19
TUC	iP	15 21 38

ADDENDUM

Date and Station	Phase	Phase (GCT) h m s
Oct. 23		
SIT	eP	16 22 42
	ePcP	23 32
	ePP	24 31
	ePPP	26 00
	iS	30 20
	iScS	32 44
	eL	34 28

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
BUT		COL		SLC		SJ		TUC		TUC	
Nov.		Nov.		Dec.		Dec.		Nov.		Nov.	
14	06.7	29	04.1	14	09.0	29	21.3	4	05.8	18	10.5
		30	19.1		09.5		23.7		05.8		20.0
BOZ					13.2	30	01.2		06.0		21.0
Dec.		Dec.		15	18.1	31	23.8		06.2	19	12.3
11	15.1	1	21.4	31	18.0				06.4	21	23.1
		2	21.6			SIT			06.5	22	17.7
COL		3	09.4	SJ		Dec.			06.6	23	10.2
Oct.		4	20.1	Oct.		13	22.6		07.1		22.2
2	06.7	5	00.2	6	06.3				07.2	24	04.4
	19.6		06.5		15.2	TUC			07.4		04.5
5	02.6		09.4		23.6	Oct.			08.5		08.9
	16.9		09.6	7	19.7	1	10.9		08.6		12.6
	21.2		13.6	23	21.5	3	09.5		10.0	25	01.1
6	00.2	6	12.7	27	23.2	5	01.7		10.6		04.4
9	05.4	7	16.7	29	12.8		13.0		11.5		04.1
12	17.9	10	03.0	31	23.2	8	12.7		11.6		11.1
13	08.0	11	08.6				19.2		11.6		16.8
	12.7		08.9	Nov.		11	02.7		11.8		18.5
18	06.4		10.0	2	20.7	14	02.4		11.8		18.7
19	14.4		13.9	15	00.5		19.4		11.9	26	05.8
	16.2	15	09.7		13.7	15	19.8		12.5		05.9
	16.2	17	03.7		13.9		20.7		12.5		11.5
	16.6		20.3	17	00.7	16	00.8		12.6		11.6
20	13.4	18	16.2		21.2	22	07.8		12.7		12.6
22	12.4	24	06.0	18	00.2	23	01.1		12.7		13.0
	19.7		08.0		12.8		06.9		13.1		13.1
23	04.3	25	00.6		13.7		19.5		13.2		15.9
	07.6		02.5	19	17.7		20.8		13.2		16.9
24	06.4	27	02.7		18.2	24	06.9		13.5		17.9
25	18.0		14.7	20	01.2		12.4		13.6		18.1
29	17.7		18.1	21	05.7		22.5		15.7		18.2
	12.4	31	20.1		18.7	25	05.2		15.8		21.1
	19.4				19.8		11.6		16.6		22.9
30	06.2	HONO			20.2		11.6		18.3		23.3
31	12.0	Oct.		23	20.8		11.7		20.7		23.3
	12.2	15	14.9	26	06.5		13.2	5	05.9	27	01.7
		23	18.6	27	12.8		14.3		11.6		06.6
Nov.			18.9		17.5		18.7		12.3		06.8
2	22.3		18.9		21.1	27	09.2	6	02.4		06.8
3	15.2		18.9	28	01.8		10.4		03.8		08.0
6	06.7				08.2	28	20.6		04.4		08.3
	11.4	Nov.			10.5	29	01.8		05.6		08.5
11	14.3	7	03.6		10.6		02.0		11.1		10.6
	22.2	15	23.9	30	05.3		02.1		18.5		10.8
12	02.7				05.8		04.2		22.1		11.1
	10.7	Dec.			21.6		04.4	7	05.2		21.3
	10.7	4	17.6				08.6	8	08.3	28	02.8
13	06.8	9	21.6	Dec.			20.9		20.3		04.1
14	13.0		23.2	2	02.6	30	13.6	9	01.8		04.2
16	23.4				05.4	31	00.6		07.7		07.3
17	22.4	11	03.5	3	06.5		04.2	10	00.6		12.4
18	03.7	14	02.7		15.3		05.2		05.1		13.1
	08.7	18	05.9	5	01.8		23.9	11	14.5	29	04.2
	10.6		21.1		06.1				15.8		04.8
	13.4	22	21.5	11	21.2	Nov.		12	15.6		08.2
	13.4	26	12.9	15	15.3	1	17.5		23.6		11.0
	14.6			16	17.0		20.4	14	06.3		23.9
19	10.6	LOG		18	19.2	2	12.1	15	06.2	30	00.1
	12.4	Nov.		19	13.2	3	02.1	16	05.0		07.5
	16.8	14	01.1	28	00.8		02.5		09.2		06.5
20	07.7		03.3		03.8		02.8	17	03.8		09.6
	16.8				04.0		03.9		07.1		
25	10.0	SLC			10.2		04.4		12.0	TUC	
	13.7	Nov.			10.7		05.0		13.4	Dec.	
26	09.2	6	21.0		19.7		05.0		21.3	1	18.5
28	14.5			29	20.9	4	02.2	18	04.2	2	10.5
	17.6				21.0		05.0		05.0		15.4

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
TUC Dec.		TUC Dec.		TUC Dec.							
3	00.5	14	21.2	23	20.8						
	01.2		21.3		22.7						
	07.3		21.4	24	04.2						
4	07.8		21.6		04.8						
	11.3		21.7		22.0						
	12.0		21.9	25	04.3						
	12.3	15	01.1		15.8						
	20.0		01.6	25	01.2						
	20.9		01.8		04.2						
5	01.3		02.0		08.3						
	04.6		02.7		11.8						
	05.7		03.1		12.1						
	08.2		03.1		12.2						
	08.2		03.4		12.5						
	13.6		04.3		13.6						
7	04.9		04.3		21.3						
	05.2		04.4		21.5						
	05.3		05.1	27	10.0						
	05.6		05.3		10.8						
	06.0		05.9		12.0						
	06.5		06.2		23.8						
	07.6		09.4	28	05.4						
8	13.7		09.5		08.3						
9	04.1		10.7		08.4						
	09.0		10.7		11.9						
	22.2		10.8		12.9						
10	00.2		11.1	29	01.2						
	01.6		11.1		02.7						
	06.0		11.9		04.6						
	07.2		12.7		12.2						
	08.5		12.9		12.7						
	08.9		13.2		14.5						
	09.9		14.8	30	03.8						
	13.5	16	01.4		09.3						
11	04.1		04.7		09.4						
	09.1		05.7		10.1						
12	03.7		10.4		12.6						
	04.0	17	18.2		13.9						
	08.7	18	01.1		22.8						
13	05.0		05.8	31	12.7						
	05.1		10.3								
	07.7	19	04.0								
14	00.9		04.3								
	03.1		07.5								
	04.4		10.5								
	04.8		14.5								
	08.9		15.6								
	11.4		21.9								
	12.7	20	04.1								
	13.2		13.0								
	16.0		14.8								
	16.2		14.9								
	16.3	21	05.4								
	16.4		09.3								
	16.5		10.9								
	16.6		12.7								
	16.7	22	00.8								
	16.7		02.1								
	16.9		12.5								
	17.4		22.0								
	17.6		22.7								
	17.7	23	08.6								
	17.8		09.9								
	17.9		12.7								
	19.3		16.6								
	21.0		20.6								