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Department of Commerce

Charles Sawyer, Secretary

U. S. Coast and Geodetic Survey

R. F. A. Studds, Director

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SEISMOLOGICAL BULLETIN

July, August, September, 1949

MSI - 139

ISSUED BY THE U. S. COAST AND GEODETIC SURVEY

Washington 25, D. C.

National Oceanic and Atmospheric Administration

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DEPARTMENT OF COMMERCE

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

July, August, September, 1949
MSI-139

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Local and minor earthquakes 105

Issued by the U. S. Coast and Geodetic Survey

Washington 25, D. C.

A-4259-4 (108)+

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

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

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

**Indicates a station operating on an independent basis.

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

All seismogram interpretations are made or revised at Washington except those for Balboa Heights. All magnitudes are determined by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the report.

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.

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PROVISIONAL EPICENTERS

Date 1949	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
July	h m s	° '		° '		
1	03 26 53*	22	S	68	W	Near Bolivia-Chile border. Depth about 100 km.
1	04 16 36*	25	S	177	E	South of Fiji Islands. Depth about 600 km.
1	22 19 10*	35	N	24	E	Mediterranean Sea, near north coast of Crete.
2	00 43 05**					New Hebrides Islands region.
2	11 27 48*	50½	S	162	E	About 350 miles southwest of New Zealand.
2	19 57 16*	16	N	147½	E	Mariana Islands region. Depth about 60 km. Mag. 7.2
3	04 13 50**					Mariana Islands region.
3	07 35 53**					New Britain region. Depth about 150 km.
3	21 45 59*	13	S	76	W	Central Peru.
4	01 46 06**					Ryukyu Islands region. Depth about 60 km.
4	03 40 40*	27½	N	56	E	Persian Gulf.
4	04 22 40**					Persian Gulf aftershock.
4	13 47 58*	21	S	174	E	Loyalty Islands region. Depth about 100 km.
5	02 30 01**					Persian Gulf aftershock.
6	19 45 06*	10	S	162	E	Solomon Islands.
7	04 32 13*	35	N	36	W	North Atlantic Ocean.
7	12 21 06*	36	N	27½	E	Off southwest coast of Turkey.
8	08 02 10**					Eastern Turkistan foreshock.
8	12 40 47*	14	N	91½	W	Near coast of Guatemala. Depth about 100 km. Mag. 6
8	18 18 06*	72	N	0		Arctic Ocean, about 200 miles east of Jan Mayen Island.
9	00 36 51*	58	S	24	W	Sandwich Islands.
9	18 44 44*	32½	N	70½	W	Atlantic Ocean.
10	03 53 35*	39½	N	70½	E	Eastern Turkistan. Mag. 7.7

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
July	h m s	° '	° '	
10	10 57 32**			Eastern Turkistan aftershock.
10	11 57 50*	39 N	71 E	.....Do.
10	14 13 19**			.....Do.
10	15 18 58*	39½ N	71 E	.....Do.
10	15 49 13**			.....Do.
10	16 23 59**			.....Do.
10	23 08 55**			.....Do.
11	00 14 58**			Off south coast of Panama.
11	01 12 25**			Eastern Turkistan aftershock.
11	03 55 34**			.....Do.
11	09 30 28**			Fiji Islands region.
11	16 10 50*	34 N	132 E	Near south coast of Honshu, Japan. Two killed and minor property damage in Kure City. Depth about 50 km.
11	16 28 11*	1 S	127 E	Moluccas. Depth about 150 km.
12	08 01 51**			Northern Chile. Felt. Depth about 100 km.
12	19 17 26	35 22 N	117 38 W	By Pasadena. West of Cuddeback Lake, Calif. Felt in Cantil. Mag. 3.4
13	09 07 18**			Near coast of Vera Cruz, Mexico.
13	09 59 17*	3 S	80 W	Near coast of Ecuador. Felt in Guayaquil.
13	10 14 00**			Eastern Turkistan aftershock.
13	18 28 23**			Eastern Turkistan aftershock.
14	03 01 30**			Gulf of Fonseca, Nicaragua.
14	03 35 33**			Eastern Turkistan aftershock.
14	11 09 52*	43½ N	20½ E	Yugoslavia.
14	19 20 12**			Andreanof Islands, Aleutian Islands.
14	19 40 11**			Kermadec Islands region. Depth about 60 km.
14	23 21 10*	30 N	139 E	Bonin Islands region. Depth about 450 km.

Date 1949	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
July	h m s	° '		° '		
15	09 15 32*	6	S	154	E	New Britain region.
15	10 59 58*	25	N	95	E	Northwestern Burma.
15	23 45 23*	9½	N	78	W	Off north coast of Panama. Felt.
16	09 57 20*	13½	N	92½	W	Off coast of Guatemala.
18	00 33 19**					Celebes region. Depth about 200 km.
18	04 42 04*	5½	N	127	E	Off south coast of Mindanao, Philippine Islands. Depth about 150 km.
18	07 35 00**					Fiji Islands region. Depth about 300 km.
18	08 27 21*	11½	S	171	E	Santa Cruz Islands region.
18	09 53 02*	41½	N	143	E	Off south coast of Hokkaido, Japan.
19	09 43 00**					Near coast of Oaxaca, Mexico. Depth about 100 km.
19	14 58 37**					Banda Sea.
19	17 42 10*	39½	N	71	E	Eastern Turkistan.
20	22 20 05*	11	S	102	E	Off south coast of Sumatra.
21	08 01 39*	15½	S	73	W	Near coast of southern Peru. Depth about 150 km. Mag. 6½
21	17 07 54*	54	N	158	E	Kamchatka. Depth about 200 km.
23	10 26 44*	19	S	169½	E	New Hebrides. Depth about 150 km. Mag. 7.2
23	15 03 30*	38½	N	26½	E	Near west coast of Turkey. Destructive in Izmer and Karaburun. One killed, several injured. Heavy property damage in Marmara and Kardamyea, northern part of island of Chios, where 4 died and several hundred houses collapsed. Mag. 6-3/4
23	17 42 05**					Eastern Turkistan.
24	14 51 25**					Off coast of Guatemala.
24	18 50 14	32 21	N	117 48	W	By Pasadena. Off coast of San Diego, Calif. Felt in Mt. Helix. Mag. 3.6
25	03 50 30*	19	N	148	E	Mariana Islands region. Mag. 6-3/4

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
July	h m s	° '	° '	
25	11 24 33*	33 S	112 W	Easter Island region. Mag. 6-3/4
26	08 24 24	34 01 N	115 41 W	By Pasadena. Pinto Basin, Calif. aftershock. Mag. 3.3
27	11 01 29**			Banda Sea, north of Timor.
27	15 11 40*	27½ S	177 W	Kermadec Islands region. Mag. 7.1
28	03 36 36*	15½ S	76 W	Near south coast of Peru. Depth about 60 km.
29	11 08 15*	50 N	129 W	Off coast of Vancouver Island, British Columbia.
29	20 48 05**			Gulf of California. Mag. 2.3
29	21 47 06**			Gulf of California.
29	21 59 25**			.....Do.
30	06 29 34*	45 N	149 E	Kurile Islands region.
30	15 25 20*	8 N	83 W	Off south coast of Panama.
30	16 22 35**			Ryukyu Islands region.
30	17 47 06*	39 N	26 E	Off west coast of Turkey. Depth about 60 km.
30	23 55 59**			Off coast of Guerrero, Mexico.
31	04 14 04*	32 S	72½ W	Near coast of central Chile.
31	06 55 33**			Solomon Islands region.
Aug. 1	04 47 00**			Samoa Islands region.
1	07 39 45*	35½ N	74½ E	Northern India.
1	08 03 47*	19½ N	96 W	Off east coast of Mexico.
1	15 27 50*	35 N	21 E	Eastern Mediterranean, near Crete. Depth about 200 km.
1	22 42 22*	39 N	26 E	Off west coast of Turkey.
2	23 02 40**			Pacific Ocean, about 300 miles southwest of Easter Island.
3	03 47 17**			Formosa Strait, about 150 miles northeast of Formosa.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.		° '	° '	
3	20 23 45**			South Atlantic Ocean, about 300 miles south of Capetown, South Africa.
4	07 51 40**			New Britain Island region.
4	10 47 50**			Fiji Islands region. Depth about 600 km.
5	07 49 29*	6½ S	77 W	Northern Peru. Depth about 100 km.
5	14 42 43	34 04 N	116 24 W	By Pasadena. East of Morongo Valley Post Office, Calif. Mag. 2.8
5	19 02 56*	1 S	78 W	Central Ecuador foreshock.
5	19 08 48*	1 S	78 W	Central Ecuador. Destructive in Ambato, Guano, Pelileo, Patate, and Pillaro. 4,000-6,000 killed, $7½ million property damage. Depth about 60 km. Mag. 6-3/4
6	00 35 33*	18½ S	175 W	Tonga Islands region. Felt at Nukualofa. Depth about 70 km. Mag. 7.6
6	11 56 03**			Kermadec Islands.
6	15 51 03*	19 S	175 W	Tonga Islands region.
6	18 53 36*	19½ N	96 W	Near coast of Vera Cruz, Mexico.
7	08 15 20*	50½ N	130 W	Off coast of British Columbia.
7	10 44 42*	50½ N	130 W	British Columbia aftershock.
7	23 53 52*	15 S	71½ W	Southern Peru.
8	07 09 05*	19 S	65½ E	Indian Ocean, about 1100 miles east of Madagascar.
8	11 00 03	37 57 N	122 19 W	By Berkeley. Felt in Richmond, Martinez, and Pinole. Mag. 3.3
8	13 11 42**			Tonga Islands region.
8	14 10 32*	14 N	93½ W	Near coast of Chiapas, Mexico. Depth about 100 km.
8	17 12 32**			Kermadec Islands region.
8	19 07 24*	16 S	76 W	Off coast of southern Peru. Depth about 100 km.
9	00 39 27	38 35 N	122 40 W	By Berkeley. West of Calistoga, Calif. Mag. 3.6

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	° ′	° ′	
9	10 58 00**			Fiji Islands. Depth about 600 km.
9	21 31 51**			Eastern Turkistan.
10	03 17 38**			Mediterranean Sea, off south coast of Turkey.
10	09 37 08	33 45 N	115 50 W	By Pasadena. Near Cottonwood Springs, Calif. Mag. 3.4
10	13 45 15*	86½ N	67 E	North Polar region foreshock.
10	20 33 47*	86½ N	67 E	North Polar region.
11	00 09 30	33 50 N	115 53 W	By Pasadena. Pinto Basin, Calif. Mag. 3.4
11	03 13 10**			Central Ecuador aftershock.
11	13 49 55*	14 N	93½ W	Chiapas, Mexico, aftershock.
11	14 40 36*	45 N	29 W	North Atlantic Ocean, about 400 miles north of Azores.
11	15 00 43*	15 S	173½ W	Samoa Islands. Felt in Apia. Depth about 60 km.
12	07 38 33**			Turkistan.
12	23 15 49*	14½ S	167 E	New Hebrides Islands.
13	18 24 51*	0	146½ E	Admiralty Islands region. Mag. 6½
16	11 48 53**			Southern Baluchistan.
16	20 51 40**			Northern Peru.
17	05 14 19	34 00 N	117 12 W	By Pasadena. East of Riverside, Calif. Felt. Mag. 3.4
17	18 34 09*	43 N	146 E	Near east coast of Hokkaido, Japan. Depth about 100 km. Mag. 6½
17	18 43 13*	39 N	40½ E	Eastern Turkey. 320 killed, Aga Kevy destroyed. Also destructive in Erzusum, Karilova, and Bingel. Mag. 6-3/4
17	20 45 22*	39 N	40½ E	Eastern Turkey aftershock.
18	09 58 12**			Bonin Islands. Depth about 400 km.
18	13 33 25*	8½ N	83 W	Off south coast of Panama. Mag. 6½

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	° '	° '	
18	14 25 16	38.8 N	118.6 W	By Berkeley. East of Walker Lake, Nev. Mag. 3.7
18	20 31 16*	52 N	175½ W	Andreanof Islands, Aleutian Islands.
19	08 25 31*	18 S	175½ W	Tonga Islands. Depth about 60 km.
20	01 56 09**			Kurile Islands region.
21	03 46 25**			.....Do.
21	05 38 23	37 04 N	117 31 W	By Pasadena. Death Valley, Calif. Mag. 3.8
21	08 45 52**			Tonga Islands region.
21	11 45 20	40 17 N	121 10 W	By Berkeley. Lake Almanor, Calif. Mag. 3.9
21	20 48 16	40 16 N	121 14 W	By Berkeley. Near Lake Almanor, Calif. Felt. Mag. 4.5
21	20 33 31*	10½ N	62½ W	Near north coast of Venezuela. Depth about 100 km.
22	01 51 56	33 56 N	116 00 W	By Pasadena. Pinto Basin, Calif. Mag. 3.0
22	03 16 33**			New Britain region.
22	04 01 12*	54 N	133 W	Queen Charlotte Islands. Felt from Portland, Oreg. to southern Alaska. Two-foot tidal wave at Ketchikan, Alaska. Mag. 8.1
22	07 11 40**			Southern Peru. Depth about 100 km.
22	08 51 18*	37 S	18 W	South Atlantic Ocean, near Tristan da Cunha.
22	09 15 20**			Queen Charlotte Islands aftershock.
22	11 41 23**			Bonin Islands region.
22	12 22 05**			Queen Charlotte Islands aftershock.
22	13 40 20**			.....Do.
22	20 26 08*	14 S	14 W	South Atlantic Ocean, about 375 miles south of Ascension Island.
23	02 59 02**			Queen Charlotte Islands aftershock.
23	15 13 44*	16 S	73 W	Southern Peru. Depth about 150 km.
23	19 37 30**			Queen Charlotte Islands aftershock.

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	° '	° '	
23	19 43 35**			.....Do.
23	20 24 32*	53 N	132 W	Queen Charlotte Islands aftershock. Felt. Mag. 6¼
23	22 03 50*	39 N	71 E	Eastern Turkistan.
24	02 37 21**			Queen Charlotte Islands aftershock.
24	06 07 14*	43½ N	127 W	Off coast of Oregon.
24	06 25 45*	21½ S	177 W	Tonga Islands region. Depth about 100 km.
24	09 20 00**			Queen Charlotte Islands aftershock.
24	09 22 02*	9 S	109 W	Pacific Ocean, 1200 miles north of Easter Island.
24	12 42 39**			Queen Charlotte Islands aftershock.
24	12 52 05**			Tonga Islands region.
24	21 51 41**			Queen Charlotte Islands aftershock.
24	22 37 03**			.....Do.
25	04 14 28*	51½ N	179 W	Andreanof Islands, Aleutian Islands. Mag. 6-3/4
25	05 50 22**			Atlantic Ocean, about 500 miles east of Azores.
25	11 27 38	34 03 N	115 52 W	By Pasadena. Pinto Basin, Calif. Mag. 3.2
25	11 42 44**			Off east coast of Honshu, Japan.
25	18 33 16**			Near coast of northern Chile. Depth about 100 km.
25	23 25 57*	7 S	129 E	Banda Sea. Depth about 200 km.
26	05 25 58*	56 N	135 W	Off coast of southeastern Alaska.
26	16 52 32	34.5 N	120.5 W	By Pasadena. San Luis Obispo, Calif., foreshock. Felt. Mag. 4.2
26	22 39 40**			Queen Charlotte Islands aftershock.
27	14 51 46	34.5 N	120.5 W	By Pasadena. Near Pt. Concepcion, Calif. Felt from San Luis Obispo to Point Arguello. Mag. 4.9

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	° '	° '	
27	15 35 42	33 48 N	120 17 W	By Pasadena. Southwest of Santa Rosa Island, Calif. Mag. 3.7
27	15 54 28	33 51 N	120 18 W	By Pasadena. Southwest of Santa Rosa Island, Calif. Mag. 4.0
27	21 30 40**			Queen Charlotte Islands aftershock.
28	09 45 02**			Fox Islands, Aleutian Islands.
28	19 28 54*	54 N	34 W	North Atlantic Ocean.
29	00 19 11**			Eastern Turkey aftershock.
29	01 56 01	37 41 N	121 32 W	By Berkeley. East of Salinas, Calif. Mag. 4.0
29	12 07 20	36.0 N	120.1 W	By Berkeley. North of Avenal, Calif. Felt in Avenal and Kettleman. Mag. 3.0
30	16 50 21*	34 E	44½ N	Near coast of Crimea.
31	00 08 10**			Mariana Islands. Depth about 100 km.
31	13 47 11*	62 N	153 W	Southern Alaska. Felt in Anchorage.
Sept.				
1	13 58 14*	36 S	97 W	Pacific Ocean, southeast of Easter Island.
1	16 59 15**		.	Mariana Islands.
1	18 26 50*	2½ N	90 W	Galapogos Islands region.
2	01 31 18**			Queen Charlotte Islands aftershock.
3	03 06 47*	62 N	148 W	Southern Alaska. Depth about 100 km.
3	07 38 05**			Western Wyoming.
4	14 55 20**			Samoa Islands region.
5	02 54 14*	19 N	122 E	Northern Luzon, Philippine Islands. Felt in Manila. Depth about 100 km.
5	03 18 10*	17 N	121½ E	Luzon, Philippine Islands. Felt in Manila.
5	06 54 15*	53½ N	132 W	Queen Charlotte Islands.
6	11 20 30	40 23 N	124 42 W	By Berkeley. Off Cape Mendocino, Calif. Felt in Eureka. Mag. 4.1

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	° '	° '	
7	07 02 04	33 47 N	120 38 W	By Pasadena. Southwest of Santa Rosa Island, Calif. Mag. 3.5
7	07 26 57*	2 S	93 W	Galapagos Islands.
7	13 33 55*			Fiji Islands region.
8	02 46 52*	47½ N	154 E	Kurile Islands.
8	16 02 02*	15½ S	75½ W	Near south coast of Peru. Depth about 100 km.
9	11 26 50	33 53 N	119 05 W	By Pasadena. South of Point Mugu, Calif. Mag. 3.4
9	20 26 21*	16½ S	172½ W	Samoa Islands region.
11	13 38 47*	57½ N	164½ E	Near east coast of Kamchatka. Depth about 100 km.
11	21 44 40**			Off the east coast of Honshu, Japan.
12	08 36 12*	56 N	132 W	Queen Charlotte Islands region.
12	09 17 04*	22 S	170 E	Loyalty Islands region.
12	10 43 25*	5 S	150½ E	New Britain region. Depth about 100 km.
12	10 54 02*	24 S	179 E	Fiji Islands region. Depth about 500 km.
12	14 37 52**			Queen Charlotte Islands aftershock.
12	22 24 05**			Near Adak, Aleutian Islands.
13	06 54 09**			Samoa Islands region.
13	16 10 35**			Off south coast of Panama.
14	05 27 40*	40½ N	126 W	Off Cape Mendocino, Calif. Mag. 4½
14	16 38 45**			Molucca Passage foreshock.
14	19 50 16*	1 N	126 E	Molucca Passage. Mag. 7.2
14	20 49 50	30.7 N	114.9 W	By Pasadena. Lower California. Mag. 4.4
16	15 45 10*	31½ N	116 W	Lower California. Mag. 4.8
16	19 11 07*	1 N	126 E	Molucca Passage aftershock.
16	20 44 45*	32 N	116 W	Lower California. Mag. 5.1

Date 1949	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	° '	° '	
17	02 31 35*	50 N	129 W	Off west coast of Vancouver Island, British Columbia.
17	08 59 05**			Southern Greece foreshock.
17	11 30 06*	37 N	22½ E	Southern Greece.
17	13 48 46*	35 N	25 E	Eastern Mediterranean.
17	15 22 11*	6 S	154 E	Solomon Islands region.
17	22 46 25*	35 S	154 W	South Pacific Ocean.
18	11 59 00**			Queen Charlotte Islands aftershock.
18	12 45 57*	18 S	69 W	Northern Chile-Bolivia border. Depth about 200 km.
19	13 08 51**			Mona Passage.
19	21 42 21*	53½ S	2½ W	South Atlantic Ocean.
20	02 26 42*	39 N	138 E	Off north coast of Honshu, Japan.
20	04 14 11	34 53 N	116 40 W	By Pasadena. North of Newberry, Calif. Felt in Yermo. Mag. 4.1
20	11 55 29*	30 S	178 W	Kermadec Islands. Depth about 80 km. Mag. 6.9
20	12 18 20**			Off coast of British Columbia.
21	12 55 11*	17 N	94½ W	Oaxaca, Mexico. Depth about 100 km.
21	18 19 40**			Samoa Islands region.
22	00 37 50*	52 N	175 W	Aleutian Islands.
22	15 38 15*	42 N	142 E	Near south coast of Hokkaido, Japan.
24	04 17 38*	6 S	153½ E	Solomon Islands region. Mag. 7
24	07 22 43*	1 S	102½ E	Central Sumatra. Felt in Painan.
25	15 15 00*	6 S	154½ E	Solomon Islands region. Mag. 6½
25	15 57 32*	6 S	154½ E	Solomon Islands region aftershock.
26	03 05 11*	6 S	154½ E	.....Do.
26	08 04 13*	6 S	154½ E	.....Do.

Date 1949	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Sept.	h m s	° '		° '		
26	10 00 59**					Northwestern Argentina.
26	22 32 00**					Solomon Islands aftershock.
27	11 54 12**					Moluccas.
27	15 30 43*	60	N	149	W	Near south coast of Alaska. Felt in Anchorage. Depth about 50 km. Mag. 7
27	17 54 17**					Fiji Islands region. Depth about 550 km.
27	18 21 54*	60	N	149	W	Alaska aftershock.
27	19 23 10**					Fiji Islands region.
27	20 53 14**					Mindanao, Philippine Islands.
28	15 07 21*	31	S	177	W	Kermadec Islands region.
30	03 58 48*	24	S	175½	W	Tonga Islands region. Mag. 6½
30	04 09 44**					Tonga Islands aftershock.
30	08 50 06*	11	S	163	E	Solomon Islands.
30	15 16 07*	22	S	170	E	Loyalty Islands region. Depth about 100 km.
30	18 19 35*	23	S	176	W	Tonga Islands region.
30	22 06 55*	23	S	176	W	Tonga Islands region.

SEISMOGRAM INTERPRETATIONS

Date and Station		Phase (GCT) h m s
July 1		
COL	eP	01 29 05
July 1		
OV	eP	02 16 32
July 1		
COL	iP	03 33 37
OV	iP	03 33 01
PF	iP	03 33 00
July 1, H = 03 26 53* 22°S, 68°W. Near Chile-Bolivia border. h = about 100 km.		
HUAN	eP	03 29 46
	eS	31 33
	eL	32 09
HH	iP	03 39 03
LOG	eP	03 38 28
OV	iP	03 38 17
PF	iP	03 38 13
TUC	iP	03 37 44
	ipP	38 02
July 1		
OV	i	03 49(59)
July 1		
COL	e	04 04 54
July 1, H = 04 16 36* 25°S, 177°E. South of Fiji Islands. h = about 600 km.		
BC	iP	04 28 28
COL	eP	04 28 53
OV	iP	04 28 31

Date and Station		Phase (GCT) h m s
July 1, cont.		
PF	iP	04 28 31
SH	iP	04 28 18
TUC	iP	04 28 33
	e	28 42
	epP	30 51
July 1		
TUC	eP	06 09 27
	e	09 34
July 1		
COL	e	07 09 51
OV	eP	07 09 29
July 1		
OV	eP	07 51 13
July 1		
COL	eP	10 13 52
	iP	13 53
	iS	14 06
	iL	14 16
July 1, H = 22 19 10* 35°N, 24°E. Mediterranean Sea, near north coast of Crete.		
COL	eP	22 31 19
HH	iP	22 32 05
PF	eP	22 32 53
July 1		
COL	e(P)	22 58 35
	eL	23 02 12
HONO	eL	23 08 15
HH	e	23 01 45
OV	eP	23 02 31
PF	iP	23 02 36

Date and Station		Phase (GCT) h m s
July 1, cont.		
SH	e	23 01 25
	i	01 27
TUC	iP	23 03 13
July 1		
OV	e	23 42 11
July 1		
TUC	eP	23 59 45
July 2		
OV	iP	00 09 57
	i	10 00
	i	13 19
PF	eP	00 08 00
	e(S)	08 55
TUC	eP	00 07 52
	i	08 06
	i	08 18
	eS	08 32
	eL	08 52
July 2		
HH	eP	00 30 01
July 2		
OV	eP	00 37 15
July 2, H = 00 43 05** New Hebrides Islands region.		
COL	iP	00 56 13
PF	iP	00 56 30
SH	iP	00 56 07
TUC	eP	00 56 37
July 2		
TUC	e	02 30 33
July 2		
COLU	eL	03 30 10

Date and Station		Phase (GCT) h m s
July 2		
COL	eP	03 29 54
July 2		
HH	iP	03 59 28
OV	iP	03 58 45
PF	iP	03 58 41
SH	iP	03 59 20
TUC	iP	03 58 14
	i	58 29
July 2		
COL	e	04 38 39
	e	38 53
July 2		
TUC	eP	08 35 56
July 2, H = 11 27 48* 50½°S, 162°E. About 350 miles southwest of New Zealand.		
BER	eP'	11 47 17
	ePP	50 56
	e	52 29
	eSS	12 09 12
	eL	26 06
CHI	e(PP)	11 50 24
	e	12 05 22
	eL	41 56
COL	eP'	11 46 41
	ePP	48 07
	eL	12 24 14
HONO	eL	12 06 16
HUAN	e	11 48 39
	eSKS	52 12
	ePS	54 30
	eSS	59 40
	e	12 09 59
	eL	14 27
HH	eP'	11 46 39

Date and Station		Phase (GCT) h m s
July 2, cont.		
OV	eP'	11 46 32
SJ	e(PP)	11 50 06
	e	53 15
	eL	12 25 17
SIT	e	11 59 33
	eL	12 24 19
TUC	e	11 46 55
	ePP	47 14
	eL	12 19 40
July 2		
COL	e	12 00 19
HH	e(P)	11 56 36
OV	eP	11 57 19
SH	e(P)	11 56 48
	i	57 25
July 2		
OV	i	12 04 48
TUC	eP	12 04 19
	eL	19 39
July 2		
OV	eP	12 24 56
July 2		
BH	eP	13 45 14
July 2		
COLU	eL	17 47 15
July 2, H = 19 57 16* 16°N, 147½°E. Mariana Islands region. h = about 60 km. Mag. 7.2		
BER	e	20 17 40
	ePP	17 51
	e	25 41
	e	27 15
	eSS	34 25
	eL	52 15

Date and Station		Phase (GCT) h m s
July 2, cont.		
BOZ	eP	20 09 57
	e	10 12
	e(PP)	13 32
	eS	20 19
	i	20 33
	eSS	25 51
	eSSS	29 55
	eL	33 32
BUT	eP	20 09 48
	ePP	12 59
	eS	20 11
	eSS	25 32
	e	28 46
	eL	32 26
CHI	eP	20 11 06
	ePP	15 26
	eSKS	21 41
	eS	22 53
	iPS	24 31
	eSS	29 43
	eSSS	34 10
	eL	41 21
COL	iP	20 07 49
	i	08 07
	i	09 24
	i(PP)	10 37
	e	12 38
	iS	16 14
	eSS	20 29
	eL	23 20
COLU	e(PP)	20 16 27
	e	20 28
	eSKS	22 32
	ePS	26 00
	eSS	31 43
	eSSS	36 00
	eL	43 00
HONO	eP	20 06 16
	ePP	08 06
	e(S)	12 55
	e	14 06
	eL	18 32
HUAN	eP	20 14 00
	e	15 32

Date and Station		Phase (GCT) h m s
July 2, cont.		
HUAN, cont.		
	eP'	20 16 41
	ePP	19 24
	eSKKS	25 31
	eSKSP	28 55
	ePPPS	33 11
	i	39 20
	e	45 17
	eL	52 36
HH	iP	20 09 41
	e	12 00
	ePP	12 50
	eS	19 59
	eP'P'	36 00
	e(SKPP)	39 25
	eP'P'P'	56 12
LIN	eP	20 10 45
	ePP	14 37
	eS	21 15
	iPS	22 33
	e(SS)	28 44
	eL	45 51
LOG	iP	20 09 56
	e	12 27
	ePP	13 26
	e	14 01
	eS	20 20
	eSS	25 19
	eSSS	29 14
	eL	35 35
NK	ePP	20 16 08
	eSKS	22 07
	e(PS)	25 35
	e(PPS)	26 28
	eL	54 23
PHIL	e(P')	20 16 08
	eSKS	22 05
	e	23 36
	e(PS)	25 52
	e(SS)	32 10
	eL	46 28
PF	iP	20 10 00
	ePP	13 05
	eS	20 26

Date and Station		Phase (GCT) h m s
July 2, cont.		
PF, cont.		
	ePKKP	20 27 52
	eP'P'	35 46
RC	i	20 20 56
	ePS	25 29
	eL	42 11
SJ	eP'	20 16 30
	ePP	18 49
	i	19 53
	e(SKS)	23 43
	eSS	36 25
	e(SSS)	41 39
	eL	21 01 45
SH	iP	20 09 21
	ePP	12 19
	e(S)	19 21
SIT	iP	20 08 20
	ePP	10 49
	ePPP	12 30
	eS	17 25
	iS	17 26
	iScS	18 10
	eSS	21 50
	eSSS	25 10
	eL	26 00
TUC	iP	20 10 18
	e	11 28
	e	13 34
	iPP	13 53
	ePPP	15 41
	eS	21 07
	iPS	22 31
	eSS	27 15
	e(SSS)	31 04
	eL	34 44
UK	eP	20 09 26
	ePP	12 22
	e(S)	19 19
	e	21 09
	e(SS)	24 44
	e(SSS)	28 44
	eL	32 44

Date and Station		Phase (GCT) h m s
July 2, cont.		
WASH	iPP	20 16 24
	e(PPS)	27 10
	eL	55 15
July 2		
COL	e	20 36 37
TUC	e	20 35 49
July 2		
OV	e	20 56 23
TUC	e	20 56 37
July 2		
COL	e	22 09 21
OV	iP	22 10 05
	i	11 00
PF	iP	22 10 04
SH	eP	22 10 36
TUC	eP	22 09 58
July 2		
COL	e	22 42 28
July 2		
COL	iP	23 10 44
	i	10 59
HH	iP	23 10 57
July 3		
COL	eP	02 18 32
HH	eP	02 18 29
PF	eP	02 17 54
SH	e(P)	02 17 38
July 3, H = 04 13 50** Mariana Islands region.		
COL	eP	04 25 23
HH	eP	04 26 19

Date and Station		Phase (GCT) h m s
July 3, cont.		
OV	iP	04 26 43
PF	eP	04 26 45
SH	eP	04 26 05
TUC	eP	04 27 04
July 3		
COL	eP	05 53 25
	i	53 48
HH	e(P)	05 53 35
OV	e	05 52 51
	i	52 53
PF	eP	05 52 50
SH	eP	05 52 41
TUC	eP	05 52 54
July 3		
OV	iP	07 28 42
PF	iP	07 28 43
SH	i(P)	07 28 26
TUC	iP	07 28 45
July 3, H = 07 35 53** New Britain region. h = about 150 km.		
HH	eP	07 49 14
PF	e(P)	07 49 13
SH	eP	07 48 46
July 3		
OV	e	09 30 40
	i	30 57
July 3		
HUAN	e	11 51 28
	e	52 04
TUC	eP	11 57 46

Date and Station		Phase (GCT) h m s
July 3, cont.		
COL	iP	13 50 45
	i(S)	50 58
	iL	51 13
July 3		
COL	e	15 42 05
OV	e	15 41 24
July 3		
OV	iP	16 45 33
PF	eP	16 45 27
TUC	iP	16 45 29
July 3		
OV	i	16 59 03
PF	e	16 58 46
TUC	iP	16 57 53
July 3		
COL	e	18 35 30
July 3		
COL	eP	19 19 19
July 3		
OV	i	19 34 47
July 3		
HUAN	eP	21 00 46
	eL	01 17
July 3		
COL	e	21 25 53
July 3, H = 21 45 59* 13°S, 76°W. Central Peru.		
COL	e	21 59 19
HUAN	eP	21 46 15
	iP	46 17
	i(S)	46 20
	i	46 23
HH	eP	21 57 12

Date and Station		Phase (GCT) h m s
July 3, cont.		
OV	e	21 56 14
	i	56 17
	i	56 19
PF	eP	21 56 13
SH	e	21 56 55
TUC	eP	21 55 39
July 3		
COL	iP	22 52 38
	e	52 50
July 3		
COL	eP	23 44 14
July 4		
COL	eP	00 35 38
July 4, H = 01 46 06** Ryukyu Islands region. h = about 60 km.		
COL	eP	01 56 38
	iP	56 39
	e	02 00 33
HH	iP	01 58 52
OV	eP	01 59 25
PF	eP	01 59 28
SH	iP	01 58 48
	ipP	59 02
July 4, H = 03 40 40* 27½°N, 56°E. Persian Gulf.		
COL	eP	03 52 21
	e	55 43
HH	eP	03 54 45
	e	58 58
OV	iP'	03 59 27
PF	eP'	03 59 26

Date and Station		Phase (GCT) h m s
July 4, cont.		
SH	e	03 58 46
SIT	eP	03 53 50
	e(PP)	57 56
	eS	04 04 40
	ePS	06 45
	eSS	10 48
	eL	27 30
TUC	iP'	03 59 32
July 4		
COL	e	04 11 25
HH	e(P)	04 10 54
OV	eP	04 10 05
PF	eP	04 10 02
SH	eP	04 10 19
July 4, H = 04 22 40** Persian Gulf aftershock.		
COL	e	04 35 21
July 4		
HUAN	eL	04 52 59
July 4		
TUC	eP	05 47 52
	e	48 39
	eL	49 03
July 4		
COL	iP	06 28 27
July 4		
COL	iP	07 44 49
PF	e	07 44 13
	e	44 26
SH	e(P)	07 43 54
	i	44 12
July 4		
COL	eP	08 22 11

Date and Station		Phase (GCT) h m s
July 4		
COL	eP	09 18 51
July 4		
COL	eP	10 21 47
July 4		
HH	iP	10 53 44
SH	iP	10 53 38
July 4, H = 13 47 58** 21°S, 174°E. Loyalty Islands region. h = about 100 km.		
COL	e	14 00 53
	i	01 01
HH	e	14 01 09
OV	eP	14 00(47)
PF	eP	14 00 46
SH	e	14 00 29
TUC	eP	14 00 48
July 4		
COL	eP	14 08 10
HUAN	e	14 04 52
	e	05 37
	eL	08 10
HH	iP	14 11 18
OV	iP	14 10 37
SH	eP	14 11 17
July 4		
COL	e	15 28 43
July 4		
COL	e	15 36 34
July 4		
COL	e	16 28 04
	eS	28 48
	eL	29 26

Date and Station		Phase (GCT) h m s
July 4		
COL	eP	21 36 20.5
July 4		
HH	iP	22 28 43
July 5		
OV	e	00 38(36)
July 5		
COL	eP	01 10 50
	e	11 33
July 5		
OV	e	01 34(56)
	i	34 58
July 5, H = 02 30 01** Persian Gulf aftershock.		
COL	eP	02 42 42
HH	eP	02 44 10
July 5		
HH	e(P)	02 47 36
OV	i	02 49(53)
TUC	e	02 48 54
July 5		
HH	iP	03 50 27
PF	iP	03 49 59
SH	iP	03 49 42
TUC	iP	03 50 00
July 5		
COL	eP	05 07 09
July 5		
COL	eP	07 19 11
July 5		
OV	e	09 17(10)
	i	17(25)

Date and Station		Phase (GCT) h m s
July 5		
HONO	eP	10 45 29
	e(S)	46 07
	eL	46 24
HH	eP	10 52 07
OV	eP	10 51 34
PF	iP	10 51 36
TUC	eP	10 51 57
July 5		
COL	eP	12 36 53
July 5		
COL	iP	14 33 24
	iL	33 48
July 5		
COL	e	15 23 07
July 5		
COL	eP	15 31 58
July 5		
COL	eP	16 58 07
July 5		
TUC	eP	22 02 36
July 5		
COL	eP	22 44 20
July 6		
OV	i	01 37 04
July 6		
COL	e	04 21 52
OV	iP	04 20(03)
PF	e(P)	04 19 59
TUC	eP	04 20 19
July 6		
COL	iP	05 21 49
	iS	22 13
	iL	22 25

Date and Station		Phase (GCT) h m s
July 6		
TUC	eP	06 29 36
July 6		
OV	eP	08 31 01
	iP	31 03
July 6		
OV	eP	08 58 43
	i	09 00 43
July 6		
TUC	eP	09 58 46
July 6		
HH	e	10 53 51
OV	iP	10 53 05
	i	53 21
PF	eP	10 53 05
SH	eP	10 52 50
TUC	e	10 53 07
July 6		
OV	e	12 16 54
	i	17 11
July 6		
OV	e	18 03 47
July 6, H = 19 45 06* 10°S, 162°E. Solomon Islands.		
COL	eP	19 57 35
	iP	57 46
HH	eP	19 58 23
LOG	eP	19 58 22
OV	iP	19 58 12
	iPP	20 01 47
PHIL	eL	20 46 35
PF	eP	19 58 12
SH	iP	19 57 48

Date and Station		Phase (GCT) h m s
July 6, cont.		
TUC	eP	19 58 22
July 6		
COL	iP	20 24 02
	i(S)	24 06
	i	24 07
	iL	24 15
July 7		
HH	eP	00 03 39
July 7		
COL	iP	04 33 23
	i	33 27
	iS	33 44
	i	33 55.5
	iL	34 00
July 7, H = 04 32 13* 35°N, 36°W. North Atlantic Ocean.		
BER	eP	04 37 30
	eL	41 58
COL	eP	04 43 09.5
HH	eP	04 42 02
LOG	eP	04 42 05
OV	iP	04 42 37
PHIL	eP	04 38 37
	eS	43 43
	e	44 15
	eL	44 52
PF	eP	04 42 35
SJ	eP	04 38 45
	eS	43 50
	eL	45 42
SH	iP	04 43 00
TUC	eP	04 42 30
July 7		
TUC	e	09 47 01
	e(S)	47 30
	eL	47 53

Date and Station		Phase (GCT)
		h m s
July 7		
COL	e	11 43 53
	e	44 03
HH	eP	11 45 10
OV	e	11 45 34
	e	45 38
	i	45 42
PF	eP	11 45 42
SH	eP	11 45 02
	i	45 07
TUC	eP	11 46 05
July 7		
TUC	eP	12 06 16
July 7		
COL	e	12 24 13
July 7, H = 12 21 06* 36°N, 27½°E. Off southwest coast of Turkey.		
COL	e	12 33 38
	e	34 13
HH	eP	12 34 31
July 7		
TUC	eP	13 51 31
July 7		
TUC	iP	15 10 24
	i	10 34
	iS	10 44
	i	10 47
	iL	10 51
July 7		
COL	iP	15 37 44
	iS	38 10
	i	38 14.5
	i	38 24.5
	iL	38 42
July 7		
OV	e	18 14 04
	e	14 08

Date and Station		Phase (GCT)
		h m s
July 7		
OV	e	19 37 54
	e	38 27
July 7		
OV	iP	20 12 54
July 7		
OV	iP	20 38 09
July 8		
OV	eP	01 16 48
	i	17 26
July 8, H = 08 02 10** Eastern Turkistan foreshock.		
PHIL	eL	08 57 11
SIT	eL	08 54 45
TUC	eL	09 10 12
July 8		
OV	e	10 40 48
PF	e	10 40 39
TUC	eP	10 40 27
July 8, H = 12 40 47* 14°N, 91½°W. Near coast of Guatemala. h = about 100 km. Mag. 6		
BER	eL	13 07 10
BOZ	eP	12 47 44
	eS	53 29
	eL	57 26
BUT	eP	12 47 50
	eS	53 40
	eL	58 10
CHI	eP	12 46 32
	eS	51 17
	esS	52 01
	eL	52 34

Date and Station		Phase (GCT)
		h m s
July 8, cont.		
COL	eP	12 51 14
	e	53 24
	eS	59 41
	e(SS)	13 05 14
	eL	07 10
COLU	eP	12 45 40
	eS	49 47
	esS	49 54
	eL	52 00
HONO	eL	13 08 10
HUAN	epP	12 47 22
	e	47 50
	ePP	48 02
	i	51 17
	e	51 33
	iL	53 13
LIN	eL	12 54 59
LOG	eP	12 48 13
	epP	48 35
	eS	52 40
	esS	52 56
	eL	55 05
NK	eS	12 51 36
	eL	54 22
OV	eP	12 46 55
	iP	46 56
PHIL	eS	12 51 47
	eL	53 36
PF	eP	12 46 50
RC	e(P)	12 47 12
	esS	52 50
	eL	56 10
SJ	eP	12 45 59
	eS	50 30
	iL	51 57
SH	e(P)	12 47 58

Date and Station		Phase (GCT)
		h m s
July 8, cont.		
SIT	eP	12 50(10)
	eS	57 55
	eSS	13 01 54
	eL	11(15)
TUC	eP	12 46 09
	e	46 20
	e	47 13
	e(S)	50 43
	esS	50 56
	eL	52 38
UK	eP	12 48 10
	e	51 28
	ePcS	53 56
	eL	13 00 28
July 8, H = 18 18 06* 72°N, 0°. Arctic Ocean, about 200 miles east of Jan Mayen Island.		
HH	eP	18 27 12
LOG	eP	18 27 49
OV	iP	18 28 33
PF	eP	18 28 35
SH	e(P)	18 28 16
TUC	eP	18 28 52
	eL	56 05
July 8		
OV	eP	19 04 57
July 8		
OV	iP	19 48 02
July 8		
TUC	eP	19 56 42
	iP	56 43
	i	56 50
	eS	57 08
	i	57 15
	iL	57 31
July 8		
OV	eP	22 24 30

Date and Station		Phase (GCT)
		h m s
July 8		
OV	iP	23 45 11
TUC	eP	23 44 42
	e	44 48
July 8		
OV	eP	23 59 39
July 9		
OV	iP	00 32 00
July 9, H = 00 36 51* 58°S, 24°W. Sandwich Islands.		
HH	eP'	00 56 03
OV	iP'	00 55 47.5
	iPP	57 21
PF	eP'	00 55 46
SJ	eS	00 59 22
SH	eP'	00 55 59
July 9		
COL	e(P)	04 58 37
	i(S)	58 47
	i(L)	58 57
July 9		
OV	e	01 05 56
July 9		
HH	iP	05 01 59
OV	eP	05 03 13
	i	03 23
PF	iP	05 03 28
SH	e(P)	05 02 22
July 9		
LOG	eP	15 11 49
OV	eP	15 11 32
PF	eP	15 11 33

Date and Station		Phase (GCT)
		h m s
July 9, cont.		
SH	iP	15 11 14
TUC	eP	15 11 38
July 9, H = 18 44 44* 32½°N, 70½°W. Atlantic Ocean.		
BER	iP	18 46 00
	iS	46 50
	iL	47 17
BOZ	eP	18 51 29
	ePcP	54 06
BUT	eS	18 57 13
	eL	59 43
	eScS	19 02 01
CHI	eP	18 48 34
	eS	51 54
	eL	52 35
COL	eL	19 16 13
COLU	eP	18 46 50
	eS	48 13
	e	48 23
	eL	50 10
HH	iP	18 51 50
	iPcP	54 15
	e	56 13
LOG	iP	18 51 28
	ePP	52 33
	eS	56 55
	e	57 19
	eL	59 09
	eScS	19 02 01
NK	eP	18 47 26
	iS	49 24
	eL	50 22
OV	iP	18 51 51
	iL	19 02 40.5
PHIL	iP	18 46 48
	eS	48 14
	iS	48 15
	iL	48 19

Date and Station		Phase (GCT) h m s
July 9, cont.		
PF	eP	18 51 48
	ePP	53 08
RC	iP	18 50 38
	eS	55 24
	iL	58 22
SJ	iP	18 48 15
	eS	50 55
	iS	50 57
	eL	51 43
SH	iP	18 52 35
SIT	eL	19 10 20
TUC	iP	18 51 30
	ePP	52 33
	ePPP	52 54
	ePcP	53 45
	eS	56 57
	eL	19 01 14
WASH	iP	18 46 49
	eS	48 13
	eL	51 54
July 9		
BOZ	eP	19 01 22
	eL	02 30
July 9		
TUC	iP	20 30 03
	i	30 07
	i	30 11
	iS	30 40
	iL	30 50
July 10		
OV	e	01 08 45
July 10, H = 03 53 35* 39½°N, 70½°E. Eastern Turkistan. Mag. 7.7		
BER	e(P)	04 07 14
	ePP	10 37
	eS	18 00
	iS	18 04
	iPS	18 42
	i	20 05

Date and Station		Phase (GCT) h m s
July 10, cont.		
BER, cont.		
	i	18 20 30
	i	29 10
	iL	31 02
T_S = 13 sec. A = 5 mm.		
T_L = 20 sec. A = 14 mm.		
$T_{L\ max.}$ = 25 sec. A=15mm.		
BC	iP	04 07 50
BOZ	eP	04 07 06
	ePP	10 56
	eSKS	17 40
	eS	18 16
	eScS	18 26
	ePS	19 43
	iPS	19 48
	eSS	25 01
	e	29 48
	eL	36 48
BUT	eP	04 07 05
	ePP	10 55
	e(PPP)	13 07
	eSKS	17 41
	e(PS)	19 37
	eSS	24 44
	e	29 41
	eL	37 49
CHI	eP	04 07 12
	ePP	11 03
	ePPP	13 16
	eSKS	17 45
	eS	18 26
	ePS	19 59
	eSS	24 50
	eSSS	29 18
	eL	33 31
COL	iP	04 04 58
	iPP	07 39
	i(PPP)	09 31
	i(S)	14 21
	e	16 47
	i(SS)	20 06
	iL	22 40
COLU	ePP	04 11 45
	ePPP	14 00

Date and Station		Phase (GCT) h m s
July 10, cont.		
COLU, cont.		
	eSKS	04 18 16
	eS	19 18
	ePS	20 42
	e	21 00
	eSS	26 18
	eSSS	30 20
	eL	37 56
HONO	ePP	04 12 05
	eSKS	18 16
	eS	19 32
	ePS	20 41
	e(SS)	26 11
	eSSS	31 00
	eL	35 33
HUAN	eP'	04 13 04
	iPP	16 04
	i	16 41
	i	19 02
	e(SKS)	20 32
	eSKKS	22 43
	eSKSP	25 58
	eL	53 05
HH	iP	04 06 49
	eSKS	17 19
	ePKKP	24 00
	eP'P'	32 06
LIN	e(P)	04 07 31
	ePP	11 31
	eSKS	17 55
	eS	18 45
	e(PS)	30 16
	eL	37 11
LOG	eP	04 07 18
	iP	07 22
	e	10 01
	ePP	11 03
	ePPP	13 23
	e	17 02
	iSKS	18 00
	ePSPS	25 55
	i	31 09
	eL	33 20
NK	e(P)	04 07 29
	eSKS	17 50
	eL	39 07

Date and Station		Phase (GCT) h m s
July 10		
OV	eP	04 07 47
	iP	07 49
	i	07 52.5
	iPP	12 12
	e	52 26.5
PHIL	eP	04 07 02
	ePP	10 50
	e	17 16
	iS	18 16
	i(PS)	19 41
	eSS	24 39
	e(SSS)	28 50
	i	30 40
	eL	34 15
PF	eP	04 07 49
	ePP	11 46
	eSKS	18 32
	eS	19 50
RC	eL	05 53 00
SJ	eP	04 08 04
	ePP	12 44
	iPP	12 48
	eSKS	18 44
	i(S)	20 28
	e	21 22
	iPS	22 15
	eSS	27 44
	e	27 54
	eSSS	31 58
	eL	38 22
SH	iP	04 07 21
	ePP	11 21
	eSKS	18 00
SIT	iP	04 06 00
	ePP	09 10
	ePPP	11 00
	eS	16 06
	iS	16 15
	eSS	21 35
	eSSS	25 08
	eL	26 32

Date and Station		Phase (GCT) h m s
July 10, cont.		
TUC	eP	04 08 06
	e	11 17
	e(P')	11 47
	ePP	12 35
	ePPP	14 58
	eSKS	18 39
	eSKKS	19 34
	e(S)	20 18
	ePS	21 28
	iPKKP	23 17
	eSS	27 32
	i	28 09
	e	29 53
	eP'P'	31 39
	eL	37 04
UK	(e)	04 07 39
	ePP	11 47
	e(SKS)	18 11
	e(S)	19 11
	ePS	20 11
	e	26 15
	e	30 25
	eL	36 11
WASH	eP	04 07 12
	e	10 54
	i(SKS)	17 50
	i(PS)	20 01
	e(SS)	25 45
	eL	39 48
July 10		
COL	iP	04 11 15
	i	15 32
July 10		
COL	iP	04 54 33
July 10		
COL	iP	04 57 14.5
July 10		
COL	iP	05 26 49
HH	e(P)	05 28 45
July 10		
COL	e	05 38 09

Date and Station		Phase (GCT) h m s
July 10, cont.		
TUC	e	05 34 47
July 10		
COL	iP	05 45 43
July 10		
COL	iP	06 56 19
	i	56 22
	iS	56 37
	i	56 39.5
	eL	56 48
July 10		
COL	eP	08 30 13
	i	30 23.5
July 10		
HH	iP	10 57 08
July 10, H = 10 57 32** Eastern Turkistan aftershock.		
HH	eP	11 10 41
July 10		
OV	e	11 16 02
July 10		
COL	iP	11 56 02.5
	i	56 06
	i	56 09.5
	iL	56 15
July 10, H = 11 57 50* 39°N, 71°E. Eastern Turkistan aftershock.		
COL	iP	12 09 15
HH	iP	12 11 04
July 10		
OV	e	12 16 21
	e	16 36
July 10		
OV	e	12 20 40

Date and Station		Phase (GCT) h m s
July 10		
TUC	eP	12 27 41
July 10, H = 14 13 19** Eastern Turkistan aftershock.		
HH	iP	14 26 35
July 10		
COL	e	15 19 13
July 10, H = 15 18 58** 39½°N, 71°E. Eastern Turkistan aftershock.		
COL	iP	15 30 22
	eS	39 42
	eL	48 05
HUAN	e	15 38 27
HH	iP	15 32 12
LOG	eP	15 32 41
	e	36 32
OV	e	15 33 15
	i	37 33.5
PHIL	e(SKS)	15 43 01
	ePS	45 02
	eL	56 38
PF	eP	15 33 08
SH	e(P)	15 32 43
TUC	e	15 36 43
	e	37 58
July 10, H = 15 49 13** Eastern Turkistan aftershock.		
BER	iS	16 13 31
	iPS	14 25
	e	22 09
	eL	35 54

Date and Station		Phase (GCT) h m s
July 10, cont.		
BOZ	eP	16 02 43
	ePP	06 32
	eSKS	13 20
	eSS	19 43
BUT	eP	16 02 41
	ePP	06 31
	eSKS	13 13
	eL	30 51
CHI	(e)	16 02 50
	eSKS	13 23
	iS	14 11
	e	19 18
	e	24 56
	eL	28 11
COL	eP	16 00 38
	iS	10 00
	eL	26 22
COLU	e	16 12 51
	eL	17 05 47
HONO	eL	16 38 20
HUAN	eP'	16 08 46
	i(PP)	12 18
	iPKS	13 09
	i	13 39
	eSKKS	18 23
	e(SS)	31 00
HH	eP	16 02 27
LIN	eSKS	16 13 31
	eL	25 15
LOG	eP	16 02 59
	ePP	07 01
	ePPP	09 03
	eSKS	13 35
	eSS	21 14
NK	eSKS	16 13 24
	eL	35 15
OV	eP	16 03 23
	iPP	07 52

Date and Station		Phase (GCT) h m s
July 10, cont.		
PHIL	iSKS	16 13 15
	eSKKS	13 31
	e(S)	14 08
	e(PS)	15 24
	eL	32 49
PF	eP	16 03 26
RC	iSKS	16 13 26
	iS	14 14
	e	18 16
SJ	e(P')	16 08 05
	ePP	08 16
	eSKS	14 23
	ePS	17 56
	eL	36 34
SH	eP	16 02 59
SIT	iP	16 01 34
	ePP	04 44
	ePPP	06 40
	eS	11 46
	iS	11 49
	eSS	17 10
	eSSS	20 50
	e	21 26
	eL	27 07
TUC	eP	16 03 48
	eP'	07 51
	iPP	08 13
	eSKS	13 56
	ePS	17 37
	ePKKP	18 53
WASH	iSKS	16 13 26
July 10		
OV	e	16 19 05
July 10, H = 16 23 59** Eastern Turkistan aftershock.		

Date and Station		Phase (GCT) h m s
July 10, cont.		
BOZ	eP	16 37 32
	ePP	41 10
	eSKS	47 50
	eS	48 30
	eL	17 10 13
BUT	eP	16 37 27
	ePP	41 15
	e(PPP)	43 39
	eSKS	48 07
	i(S)	48 53
	e(SSS)	57 09
	eL	17 09 19
CHI	eP	16 37 36
	iSKS	48 16
	ePS	50 21
	eL	17 07 41
COL	eP	16 35 20
	iP	35 24
	iS	44 43
	e	50 48
	eL	17 00 56
HONO	eL	17 10 00
HUAN	eP'	16 43 29
	iPP	47 10
	e	57 38
	e(SS)	17 04 45
	eL	24 00
HH	iP	16 37 12
LIN	eS	16 48 31
	eL	17 04 11
OV	eP	16 38 09.5
	iP	38 14.5
	iPP	42 13
	e(S)	50 25.5
PHIL	e	16 40 17
	ePP	41 18
	ePPP	43 21
	i(SKS)	48 09
	iPS	50 05
	eL	17 08 11

Date and Station		Phase (GCT) h m s
July 10, cont.		
PF	eP	16 38 11
RC	iP	16 37 36
	e(PP)	41 30
	e(SKS)	48 20
	e(PS)	50 22
	e(SS)	55 24
	eL	17 09 00
SJ	ePP	16 43 11
	ePS	52 32
	iPS	52 40
	eL	17 13 54
SH	eP	16 37 45
TUC	eP	16 38 30
	i(P')	42 39
	iPP	43 06
	e(PPP)	45 32
	i(SKKS)	50 12
	iPS	52 29
	ePKKP	53 40
	eSS	58 13
	eL	17 14 08
UK	e(SKS)	16 48 41
	e	53 43
	eL	17 11 11
WASH	iSKS	16 48 20
	e(S)	50 24
	eL	17 10 54
July 10		
COL	iP	18 41 44.5
	iS	41 51
	iL	42 00
July 10		
COL	iP	18 58 54
	iL	59 16
July 10		
COL	eP	19 06 06
	iP	06 10
July 10, H = 23 08 55** Eastern Turkistan aftershock.		

Date and Station		Phase (GCT) h m s
July 10, cont.		
COL	eP	23 20 20
July 11, H = 00 14 58** Off south coast of Panama.		
BH	iP	00 15 54
	iS	16 34
BC	iP	00 22 41
HUAN	e	00 19 35
	e	20 04
HH	iP	00 23 41
	e	23 50
LOG	eP	00 22 53
OV	iP	00 22 41.5
PF	iP	00 22 36
SJ	eL	00 24 11
TUC	iP	00 22 00
July 11		
COL	iP	00 23 07
	i	23 13
	i(S)	23 35
	iL	23 53
July 11, H = 01 12 25** Eastern Turkistan aftershock.		
COL	eP	01 23 48
July 11		
COL	eP	02 08 46
July 11		
COL	eP	03 58 49
July 11, H = 03 55 34** Eastern Turkistan aftershock.		
COL	iP	04 06 59.5

Date and Station		Phase (GCT) h m s
July 11		
BC	i(P)	06 17 01
HH	iP	06 14 56
OV	iP	06 17 01
PF	iP	06 17 05
SH	iP	06 15 57
TUC	eP	06 17 43
July 11		
COL	eP	07 27 30
July 11		
HH	iP	07 47 55
SH	iP	07 47 49
July 11, H = 09 30 28** Fiji Islands region.		
BC	iP	09 42 38
COL	iP	09 43 06
HH	iP	09 43 13
OV	iP	09 42 42
PF	iP	09 42 42
TUC	eP	09 42 44
July 11		
OV	eP	09 53 21
	eS	53 59
July 11		
COL	iP	10 40 43
	iS	41 16.5
	eL	41 28.5
July 11		
OV	iP	12 43 49

Date and Station		Phase (GCT) h m s
July 11		
OV	e	14 32 37
	i	33 07
July 11		
HH	eP	14 58 27
OV	e	14 57 44
	i	57 58
July 11		
OV	eP	15 46 07
July 11		
COL	eP	15 57 01
July 11, H = 16 10 50* 35°N, 132°E. Near south coast of Honshu, Japan. Two killed and minor property damage in Kure City. h = about 50 km.		
BC	iP	16 23 29
COL	iP	16 20 20
	i	20 35
	eS	28 01
	iS	28 03
	eL	36 55
HONO	eL	17 05 49
HUAN	eP'	16 30 28
	ePP	34 06
HH	iP	16 22 50
LOG	iP	16 23 16
	i	23 38
	eS	33 37
	e	33 58
	eL	47 05
OV	iP	16 23 28
	i	23 51.5
PHIL	e(SKS)	16 35 12
	e(PS)	37 49
	ePPS	39 01
	e	50 36
	eL	58 27

Date and Station		Phase (GCT) h m s
July 11, cont.		
PF	iP	16 23 30
	eS	34 07
SJ	e(SS)	16 49 24
	eL	17 12 58
SH	iP	16 22 48
SIT	iP	16 21 16
	iS	29 48
	e	30 05
	i	30 14
	eSS	34 10
	e	34 20
	eL	37 05
TUC	iP	16 23 52
	ePP	27 47
	eL	56 16
UK	eL	17 21 08
July 11, H = 16 28 11* 1°S, 127°E. Moluccas. h = about 150 km.		
BC	eP	16 47 16
COL	eP	16 40 49
	e	43 56
	e	47 47
HH	e	16 46 00
OV	iP	16 47 21
	i	48 41
PF	e	16 46 32
	e	47 22
SH	e	16 46 34
TUC	e	16 47 56
July 11		
OV	e	21 11 59.5
	i	12 07
July 12		
OV	eP	00 14 51
	e	15 31
	i	16 00

Date and Station		Phase (GCT) h m s
July 12		
COL	iP	01 25 14
	iS	25 24
	i	25 27
	iL	25 34
July 12		
COL	eP	02 42 19
July 12		
COL	eP	04 03 22
July 12		
BOZ	eL	04 55 22
BUT	eL	04 54 52
COL	eP	04 45 47
HH	e	04 45 14
	e	45 38
	i	53 57
	e	54 10
PHIL	eL	04 58 36
TUC	eP	04 47 28
July 12		
COL	iP	04 59 30
	i	59 40
	iS	05 00 20
	iL	00 31
July 12		
COL	iP	07 24 31
	iS	24 55
	iL	25 37
July 12, H = 08 01 51** Northern Chile. Felt. h = about 100 km.		
BC	eP	08 13 35
HUAN	e(P)	08 04 57
	e	05 26
	eL	07 23
HH	iP	08 13 58
	ipP	14 24

Date and Station		Phase (GCT) h m s
July 12, cont.		
OV	iP	08 13 38
PF	iP	08 13 34
	iPcP	13 46
SJ	eL	08 18 38
SH	iP	08 13 50
	ipP	14 16
	i(sP)	14 28
TUC	eP	08 12 39
	iP	12 40
	ipP	13 05
July 12		
PF	e	09 25 03
TUC	iP	09 24 41
July 12		
COL	eP	14 06 39
July 12		
COL	eP	14 41 52
July 12		
COL	eP	16 01 55
July 12		
COL	iP	16 46 28.5
	i	46 34
	iS	46 49
	iL	47 08
July 12, H = 19 17 26 By PAS, 35°22'N, 117°38'W. West of Cuddeback Lake, Calif. Felt in Cantil. Mag. 3.4		
BC	eP	19 18 09
	e	18 14
	eS	18 36
PF	iP	19 18 17
	i	18 25
	i	19 09

Date and Station		Phase (GCT) h m s
July 12, cont.		
TUC	eP	19 19 13
	e	19 30
	e	20 07
	eL	20 35
July 12		
OV	e	21 57 43
	e	58 13
	i	58 22
	i	58 26
July 12		
COL	e	22 37 44.5
July 13		
COL	eP	09 02 01
	iP	02 04
July 13, H = 09 07 18** Near coast of Vera Cruz, Mexico.		
BC	eP	09 12 15
OV	iP	09 12 25
PF	eP	09 12 13
TUC	eP	09 11 25
	e	13 15
	eL	17 47
July 13, H = 09 59 17* 3°S, 80°W. Near coast of Ecuador. Felt in Guayaquil.		
BC	eP	10 08 18
COL	eP	10 11 46
HUAN	eP	10 01 48
	i	02 03
	eS	03 23
	i	03 48
	eL	04 13
HH	iP	10 09 19
OV	iP	10 08 19

Date and Station		Phase (GCT)
		h m s
July 13, cont.		
PF	iP	10 08 16
SJ	eP	10 04 47
	eS	09 12
	eL	10 33
SH	iP	10 09 11
TUC	eP	10 07 40
	i	07 52
July 13, H = 10 14 00** Eastern Turkistan aftershock.		
COL	iP	10 25 23
HH	eP	10 27 11
SH	i(P)	10 27 29
July 13		
BC	eP	10 39 08
HH	e	10 38 31
LOG	e	11 08 33
OV	iP	10 39 05.5
PF	eP	10 39 04
TUC	eP	10 39 01
July 13		
OV	eP	13 23 43
	i	24 16
July 13		
COL	eP	14 05 33
July 13		
COL	iP	16 19 52
	i(S)	19 57
	iL	20 07
OV	eP	16 16 48
July 13		
COL	e	16 33 13

Date and Station		Phase (GCT)
		h m s
July 13, H = 18 28 23** Eastern Turkistan aftershock.		
COL	iP	18 39 48
HH	e	18 41 38
SH	eP	18 42 09
July 13		
OV	eP	20 41 43
July 13		
OV	iP	21 21 55.5
SJ	eP	21 14 23
	iS	14 50
	eL	14 58
July 13		
COL	iP	22 27 28
	i	27 29
	i	27 35
	iS	27 50
	iL	28 04
July 14, H = 03 01 30** Gulf of Fonseca, Nicaragua.		
BC	iP	03 08 05
HH	iP	03 09 13
PF	eP	03 08 01
SH	e	03 09 06
TUC	eP	03 07 21
	iP	07 25
July 14		
TUC	eP	03 10 33
	e	10 48
July 14, H = 03 35 33** Eastern Turkistan aftershock.		
COL	iP	03 46 57.5

Date and Station		Phase (GCT)
		h m s
July 14, cont.		
HH	e	03 48 47
TUC	e	03 50 46
July 14		
COL	iP	04 57 35
	i	57 50
	iS	58 04
	iL	58 17
July 14		
OV	e(P)	08 16 03
	i	16 52
	i	16 56
July 14		
COL	e	10 23 41
HH	iP	10 24 05
SH	iP	10 23 58
July 14, H = 11 09 52* 43½°N, 20½°E. Yugoslavia.		
HH	iP	11 22 05
PF	e	11 22 57
TUC	eP	11 23 07
July 14		
COL	e	14 00 40
July 14, H = 19 20 12** Andreanof Islands, Aleutian Islands.		
BC	eP	19 28 31
COL	eP	19 24 36
HH	eP	19 27 36
OV	eP	19 28 31
PF	iP	19 28 34
SH	iP	19 27 31
	i	27 42

Date and Station		Phase (GCT) h m s
July 14, cont.		
TUC	eP	19 29 08
	i	29 19
	i	29 39
July 14, H = 19 40 11** Kermadec Islands region. h = about 60 km.		
BER	eL	20 02 00
BC	eP	19 53 09
OV	eP	19 53 13
PF	eP	19 53 12
SH	iP	19 53 03
TUC	iP	19 53 10
	i	53 15
	ipP	53 26
July 14		
BC	eP'	20 55 13
COL	ePP	20 53 17
HH	iP'	20 54 50
LOG	e(PP)	20 58 25
OV	eP'	20 55 12
	iPP	57 29
	i	58 37
PF	eP'	20 55 13
SH	iP	20 54 53
TUC	eP'	20 55 12
	ePP	58 07
	e	58 50
July 14		
BC	e	22 47 56
HH	e	22 49 15
PF	iP	22 47 57

Date and Station		Phase (GCT) h m s
July 14, H = 23 21 10* 30°N, 139°E. Bonin Islands region. h = about 450 km.		
BC	eP	23 33 01
	epP	34 35
	eS	42 46
BUT	iS	23 42 10
COL	eP	23 30 07
	epP	31 31
	eS	37 24
HH	iP	23 32 28
	ipP	34 00
	eScS	41 47
LOG	eP	23 32 52
	epP	34 26
	iS	42 33
OV	eP	23 33 00
	iPcP	33 02
	i	34 36
	eS	42 47
PF	iP	23 33 04
	epP	34 36
SH	iP	23 32 21
	ipP	33 55
TUC	eP	23 33 23
	epP	35 02
	iPP	37 02
	eSKS	43 17
July 15		
COL	iP	04 57 55
	iS	58 03
	eL	58 12
July 15		
HUAN	iP	05 30 14
	i	30 18
	i	30 56
	eS	31 03
	iL	31 17
OV	iP	05 38 55

Date and Station		Phase (GCT) h m s
July 15, cont.		
PF	eP	05 38 51
TUC	eP	05 38 16
July 15		
COL	iP	05 42 27
	i	42 30
	iS	42 49
	iL	42 59
July 15		
COL	e	08 57 41
	e	58 35
July 15		
COL	eP	09 11 51
July 15, H = 09 15 32* 6°S, 154°E. New Britain region.		
BC	eP	09 29 18
COL	iP	09 27 56.5
	i	28 15
HH	eP	09 29 01
	i	29 25
OV	eP	09 29 02
	e	29 19.5
PF	e	09 28 58
	e	29 21
SH	e(P)	09 28 30
	e	28 51
TUC	e	09 29 36
	e	33 15
July 15		
HH	e	09 54 02
OV	iP	10 14 16
July 15, H = 10 59 58* 25°N, 95°E. Northwestern Burma.		
COL	e	11 11 57

Date and Station		Phase (GCT) h m s
July 15, cont.		
OV	eP	11 19 28
July 15		
COL	eP	11 34 16
	iP	34 19.5
HH	eP	11 36 19
OV	iP	11 41 36.5
July 15		
COL	eP	11 52 52
	i	53 02
July 15		
COL	iP	12 02 35
	iS	02 46
	eL	02 55
July 15		
OV	eP	12 56 31
	iP	56 33
	eS	57 12.5
July 15		
COL	eP	13 09 52
	iP	09 54
	iS	10 39.5
	iL	10 52
July 15		
COL	eP	14 34 44
July 15		
COL	eP	14 45 53
July 15		
COL	eP	14 53 38
July 15		
COL	eP	15 05 38
	e	06 26
July 15		
OV	eP	15 40 07
	eS	40 42
July 15		
BC	iP	18 36 00

Date and Station		Phase (GCT) h m s
July 15, cont.		
HH	iP	18 35 12
OV	iP	18 35 56.5
PF	iP	18 35 55
SH	eP	18 36 12
TUC	eP	18 35 56
July 15		
COL	eP	20 30 12
	eS	30 39
	i	30 47
	eL	31 00
July 15		
BC	eP	23 34 48
OV	eP	23 34 55
PF	iP	23 34 47
TUC	iP	23 33 50
	i	33 57
July 15, H = 23 45 23* 9½°N, 78°W. Off north coast of Panama. Felt.		
BH	iP	23 45 53
	iS	46 15
BC	eP	23 53 22
HH	eP	23 54 12
PF	eP	23 53 17
TUC	iP	23 52 42
July 16		
OV	eP	03 38 54
July 16		
TUC	eP	04 45 35
July 16		
OV	eP	04 55 57
	e	56 32

Date and Station		Phase (GCT) h m s
July 16		
COL	eP	05 48 11
HH	e	05 45 15
TUC	eP	05 43 03
July 16		
BH	iP	05 59 55
	iS	06 00 17
July 16, H = 09 57 20* 13½°N, 92½°W. Off coast of Guatemala.		
BC	iP	10 03 34
BOZ	eP	10 04 20
	eS	10 06
	eL	17 14
COL	eL	10 28 25
COLU	eP	10 02 23
	eS	06 35
	eL	09 08
HUAN	eL	10 10 37
HH	iP	10 04 50
LOG	eP	10 03 54
	eS	09 14
	eL	16 14
OV	iP	10 03 36
	i	03 43.5
PHIL	eP	10 03 32
	e	04 20
	eS	08 29
	eL	10 31
PF	eP	10 03 30
RC	eL	10 10 12
SJ	(e)	10 02 50
	e	06 57
	eL	09 03
SH	eP	10 04 44

Date and Station		Phase (GCT)
		h m s
July 16, cont.		
SIT	eP	10 06 53
	eS	14 34
	eL	27 15
TUC	eP	10 02 49
	i	02 58
	e	03 47
	eS	07 28
	eL	10 08
July 16		
COL	e	16 08 48
July 16		
BC	eP	16 41 15
OV	e	16 39 55.5
	i	41 34
	i	42 52
PF	iP	16 41 02
	i	41 29
TUC	iP	16 40 46
	i	40 54
	iS	41 27
	eL	41 57
July 16		
BC	e(P)	17 31 46
OV	e	17 31 47
	e	32 12.5
	e	33 07.5
PF	iP	17 31 20
TUC	iP	17 30 59
	i	31 05
	eS	31 45
	iL	32 09
July 16		
OV	e	18 22 36
July 16		
HH	iP	18 29 05
	i(S)	29 36
July 16		
OV	e	19 04 23

Date and Station		Phase (GCT)
		h m s
July 17		
TUC	e	07 55 11
July 17		
COL	eP	10 48 11
OV	iP	10 47 35
PF	iP	10 47 34
TUC	eP	10 47 37
	e	47 45
July 17		
COL	eP	15 12 12
	e	12 20
OV	iP	15 08 52.5
PHIL	eL	15 21 35
PF	e	15 09 07
TUC	eP	15 08 06
	e	12 46
	eL	47 43
July 17		
COL	e	15 17 54.5
July 17		
COL	e	15 27 35
July 17		
HUAN	e	16 56 26
	i(S)	57 12
	iL	57 43
July 17		
COL	e	20 35 34
July 17		
COL	e	20 48 40
July 17		
COL	iP	23 15 11
	e	16 07
July 18, H = 00 33 19** Celebes region. h = about 200 km.		

Date and Station		Phase (GCT)
		h m s
July 18, cont.		
COL	e	00 45 57
	e	48 58
HONO	eL	01 13 09
OV	eP	00 52 10.5
	i	53 02
PHIL	e	00 55 58
	e	01 13 17
	eL	40 05
PF	e	00 52 51
SJ	e(PP)	00 57 43
	eL	01 20 48
SH	e(PP)	00 51 57
TUC	eL	01 05 27
July 18		
COL	e	03 06 53.5
July 18, H = 04 42 04* 5½°N, 127°E. Off south coast of Mindanao, Philippine Islands. h = about 150 km.		
COL	eP	04 54 17
	i	55 15
	iS	05 04 29
	eSS	09 32
SH	e(P)	04 55 46
July 18		
BC	iP	05 00 25
HUAN	i	05 01 52
	e	02 22
OV	iP	05 00 25.5
	i	03 49
PF	eP	05 00 25
TUC	iP	05 00 34
	e	12 04

Date and Station		Phase (GCT) h m s
July 18		
BC	eP	05 11 40
BUT	e	05 06 40
COL	e	05 12 28
OV	eP	05 11 34
	iP	11 40
	e(S)	15 37
PF	eP	05 11 38
SH	e(P)	05 12 10
SIT	iS	05 05 13
	e	05 36
	e	06 25
TUC	iP	05 11 21
July 18, H = 07 35 00** Fiji Islands region. h = about 300 km.		
BC	iP	07 47 00
COL	eP	07 47 28
	iP	47 28.5
	e	47 45
LOG	eP	07 47 21
OV	iP	07 47 03
	i	48 19
PF	iP	07 47 03
	e	48 18
SH	iP	07 46 47
TUC	iP	07 47 06
July 18, H = 08 27 21* 11½°S, 171°E. Santa Cruz Islands region.		
BC	eP	08 39 52
	e	42 02
COL	iP	08 39 41

Date and Station		Phase (GCT) h m s
July 18, cont.		
OV	iP	08 39 55
	i	42 04
PF	eP	08 39 55
SH	eP	08 39 32
TUC	e	08 40 08
	e	42 13
July 18, H = 09 53 02 41½°N, 143°E. Off south coast of Hokkaido, Japan.		
BC	eP	10 04 48
	e	05 03
COL	eP	10 01 17
OV	iP	10 04 47.5
	e	05 02
PF	iP	10 04 50
SH	iP	10 04 01
TUC	eP	10 05 15
	e	05 31
July 18		
BC	eP	12 05 59
OV	iP	12 06 02
PF	eP	12 06 03
SH	iP	12 05 51
TUC	iP	12 06 02
July 18		
COL	eP	13 55 09
July 18		
COL	eP	18 26 48.5
	e	26 59
	e	27 30
July 18		
COL	eP	22 22 37
	iP	22 37.5
	(e)	23 14

Date and Station		Phase (GCT) h m s
July 19		
HH	iP	00 53 13
SH	eP	00 53 09
July 19		
COL	iP	02 02 20
	i	02 21
	eL	02 27
July 19		
HH	iP	08 35 16
SH	iP	08 34 59
July 19		
COL	eP	08 53 01
HH	iP	08 58 26
SH	e	08 58 54
July 19		
TUC	eP	09 00 16
July 19, H = 09 43 00** Near coast of Oaxaca, Mexico. h = about 100 km.		
BC	iP	09 49 04
HH	iP	09 49 36
OV	iP	09 48 07
	i	48 58.5
PF	eP	09 48 01
TUC	iP	09 47 09
	eL	51 55
July 19		
COL	eP	12 48 36
July 19		
COL	iP	13 40 19
	i	40 27
HH	iP	13 42 08

Date and Station		Phase (GCT)
		h m s
July 19, H = 14 58 37** Banda Sea.		
COL	eP	15 09 25
	e	12 32
July 19		
HH	e	15 18 03
PF	e	15 18 14
SH	e	15 17 18
TUC	e	15 18 29
July 19		
HH	iP	15 24 47
July 19		
COL	eP	16 57 42
July 19, H = 17 42 10* 39½°N, 71°E. Eastern Turkistan.		
BOZ	e	18 06 19
	ePP	08 12
	eL	35 12
BUT	e	18 06 14
	eL	37 30
COL	iP	17 53 35.5
	i	53 41
HH	iP	17 55 25
LOG	e(P)	17 55 54
	e(PP)	59 19
	eScS	56 33
	ePPS	57 38
	eL	40 04
PHIL	eSKS	18 06 15
	ePS	08 19
	eL	31 26
SH	eP	17 55 56
SIT	eP	17 54 32
	ePP	57 42
	eS	18 04 39
	eL	25 28

Date and Station		Phase (GCT)
		h m s
July 19, cont.		
TUC	e(P')	18 00 21
	ePP	01 02
	eL	46 38
July 19		
COL	iP	19 34 38
	i	34 34
	i(S)	35 50
	eL	36 28
July 19		
TUC	iP	21 15 41
July 20		
COL	eP	02 32 46
	e	33 27
	e(S)	33 38
	i	34 05
	iL	34 23
HH	e	02 35 52
July 20		
COL	eP	04 16 47
July 20		
TUC	eP	09 57 18
July 20		
COL	eP	10 27 38.5
	i	27 43
	i(S)	28 06
	iL	28 27
July 20		
COL	iP	14 19 22
	eS	19 56
	eL	20 18
July 20		
OV	eP	19 52 16
July 20, H = 22 20 05* 11°S, 102°E. Off south coast of Sumatra.		
BC	eP'	22 39 26
COL	e	22 37 59
	eP'	38 25
	e	38 48

Date and Station		Phase (GCT)
		h m s
July 20, cont.		
HH	iP'	22 39 18
	ePP	41 32
OV	eP'	22 39 39.5
PHIL	eSS	23 02 52
	eL	35 32
PF	eP'	22 39 31
SH	eP'	22 39 17
	iPP	41 30
TUC	iP'	22 39 38
	i	40 02
	ePP	42 23
	ePPP	45 33
July 21, H = 08 01 39* 15½°S, 73°W. Near southern coast of Peru. h = about 150 km. Mag. 6½		
BC	iP	08 12 05
	epP	12 45
BOZ	eP	08 12 39
	epP	13 12
	eS	21 34
	esS	22 14
HUAN	iP	08 02 37
	i	02 46
	iS	03 04
	iL	05 00
HH	iP	08 13 04
	epP	13 35
LOG	eP	08 12 19
	ipP	12 42
	ePP	15 21
	eS	21 09
OV	iP	08 12 06
	ipP	12 34.5
	isP	12 47
PHIL	iP	08 11 00
	ipP	11 40

Date and Station		Phase (GCT) h m s
July 21, cont.		
PHIL, cont.		
	eS	08 18 33
	esS	19 17
	eL	29 24
PF	eP	08 12 02
	epP	13 41
SJ	eP	08 08 12
	e(PP)	09 35
	e	09 40
	iS	13 28
	isS	14 15
	e	16 47
	i	19 18
	eL	22 08
SH	iP	08 12 50
SIT	eL	08 24 52
TUC	iP	08 11 32
	e	11 49
	ipP	11 59
	isP	12 10
	ePP	13 24
	eS	19 37
	esS	20 33
	eL	30 21
July 21		
BC	eP	08 40 55
PF	eP	08 40 55
TUC	e	08 41 53
July 21		
COL	eP	13 03 33
July 21, H = 17 07 54* 54°N, 158°E. Kamchatka. h = about 200 km.		
HH	iP	17 16 53
	ePP	19 07
	iPPP	20 11
PF	iP	17 16 52
	e(PPP)	20 12

Date and Station		Phase (GCT) h m s
July 21, cont.		
SH	iP	17 16 58
	ipPP	19 43
TUC	e	17 12 22
	i	13 26
July 21		
LOG	e	22 39 27
	e	42 09
July 22		
TUC	e	03 58 25
	i	58 40
	i	58 48
	eS	59 28
	i	59 38
	i	59 49
	iL	59 53
July 22		
OV	e	04 02 15
	e	02 32
July 22		
HH	e(P)	09 39 55
OV	iP	09 38 50
	iS	39 01.5
July 22		
SJ	e	14 11 27
	e(S)	11 41
	i(S)	11 45
	i	11 47
	eL	11 53
July 22		
COL	eP	21 35 30
HH	iP	21 37 45
SH	iP	21 37 38
July 22		
COL	eP	22 31 41
	e	31 58
July 23		
COL	e	00 55 03
	e	57 32

Date and Station		Phase (GCT) h m s
July 23		
COL	e	03 32 08
July 23		
TUC	eP	04 49 41
July 23		
COL	e	05 40 57.5
	e	43 38
July 23		
HUAN	eP	05 44 20
	e	45 36
	e	49 08
HH	e	05 48 45
SH	e	05 48 28
July 23		
BER	eL	06 58 56
TUC	eP	06 59 34
July 23		
OV	eP	07 10 59
SJ	e	07 00 10
	e(S)	04 54
	eL	09 13
TUC	eP	07 10 37
July 23		
COL	eP	08 57 52
HH	e	08 59 19
OV	e	09 01 03
July 23		
BOZ	e	09 09 06
	eL	09 44
BUT	(e)	09 07 14
	e(S)	08 38
	eL	09 04
CHI	e	09 10 51
	eL	11 22
COLU	eL	09 15 18

Date and Station		Phase (GCT)
		h m s
July 23, cont.		
HH	e	09 04 52
	e	06 24
	i	07 53
LOG	e	09 09 01
	eL	11 34
OV	e	09 14 43.5
PHIL	eL	09 12 45
RC	(e)	09 06 18
	e	07 26
	eL	10 00
SIT	eS	09 03 04
	eL	05 38
TUC	eL	09 15 04

July 23, H = 10 26 44*
19°S, 169½°E. New Hebrides. h = about 150 km. Mag. 7.2

BER	ePP	10 48 00
	isPP	49 10
	esPS	59 56
	esSS	11 06 21
	eL	25 06

T_{PP} = 3 sec. A = 0.5 mm.
T_{SS} = 16 sec. A = 0.5 mm.
T_L = 18 sec. $A_{max.}$=0.3 mm.

BOZ	eP	10 40 00
	ePP	43 54
	iSKS	50 18
	e(S)	51 09
	e	51 44
	eL	11 08 56
BUT	eP	10 39 57
	ePP	43 22
	e	45 19
	eSKS	50 14
	esS	52 24
	eSS	57 32
	eL	11 06 38

Date and Station		Phase (GCT)
		h m s
July 23, cont.		
CHI	ePP	10 45 50
	eSKS	51 28
	ePS	56 19
	eSS	11 01 28
	iSSS	06 27
	eL	19 14
COL	eP	10 39 26
	iP	39 26.6
	ipP	40 18
	e	41 58
	iPP	42 57
	eSKS	49 36
COLU	esS	10 55 23
	eL	11 17 16
HONO	iP	10 35 38
	i	35 48
	i	36 54
	e(PPP)	38 10
	eS	42 30
	eSS	44 02
	eL	47 38

T_P = 2 sec. A = 1.8 mm.
T_L = 19 sec. $A_{max.}$=2.5 mm.

HUAN	e(P)	10 41 18
	ePP	45 30
	iPP	45 35
	eSKS	51 12
	eS	53 09
	eSP	54 32
	e	57 06
	iSS	06 00 47
	isSS	02 00
	eL	12 37
LIN	eP	10 40 40
	ePP	45 05
	e	50 04
	ePS	54 20
	e	11 00 15
LOG	iP	10 39 47
	iPP	43 35
	e	47 29

Date and Station		Phase (GCT)
		h m s
July 23, cont.		
LOG, cont.		
	e	10 49 46
	iSKS	50 07
	iS	50 49
	ePS	52 16
	esPS	52 31
	esSS	58 38
	eP'P'	11 05 00
	eL	05 23
OV	iP	10 39 34.5
PHIL	eP'	10 45 22
	iPP	46 57
	iSKS	52 04
	i	53 35
	eSPP	57 56
	iP'P'	11 05 40
	eL	26 12
PF	iP	10 39 34
RC	iP	10 40 22
	i	42 46
	iPP	44 32
	i	50 42
	i(S)	51 19
	e	52 10
	eL	11 15 11
SJ	eP'	10 45 34
	ePP	47 36
	ipP	47 38
	isPP	48 53
	e(SKS)	52 58
	ePS	57 44
	e(SS)	11 05 14
	eL	15 22
SIT	iP	10 39 24
	i(PP)	42 54
	e(PPP)	44 47
	eSKS	49 36
	epS	51 00
	e(SS)	54 45
	e	55 10
	eL	11 03 26

Date and Station		Phase (GCT)
		h m s
July 23, cont.		
TUC	iP	10 39 40
	ipP	40 27
	i	43 07
	iPP	43 19
	eSKS	49 55
	e	50 39
	eL	54 46
	eP'P'	55 02
UK	eP	10 39 11
	epP	39 44
	e(PP)	49 18
	eSP	50 30
	eL	11 02 14
July 23		
TUC	e	11 05 08
	e	05 53
	i(S)	08 04
	e	08 29
	e(L)	11 42

July 23, H = 15 03 30*
38½°N, 26½°E. Near west coast of Turkey. Destructive in Izmer and Karaburun. One killed, several injured. Heavy property damage in Marmara and Kardamyea, northern part of Island of Chios where four were killed and several hundred houses collapsed. Mag. 6-3/4

Date and Station		Phase (GCT)
		h m s
BER	eP	15 15 02
	eS	24 25
	iS	24 30
	iScS	25 07
	eL	35 22

T_S = 10 sec. A = 2 cm.
$T_{Lmax.}$ = 20 sec. A = 2 cm.

Date and Station		Phase (GCT)
		h m s
BC	eP	15 17 07
BOZ	eP	15 16 24
July 23, cont.		
BOZ	eP	15 16 24
	e	19 52
	iS	27 10
	e(SS)	32 28
	eL	44 16
BUT	eS	15 26 52
	e(SS)	32 55
	e	37 20
	eL	44 20
CHI	eP	15 15 43
	iP	15 44
	eS	25 40
	iS	25 48
	e	27 53
	eL	37 47
COL	eP	15 15 22
	i	15 34
	e	18 21
	e(S)	25 12
COLU	eP	15 15 58
	eS	26 08
	e	28 15
	eSS	31 10
	eL	43 13
HONO	eL	16 07 43
HUAN	e	15 22 02
	ePP	22 18
	i	23 00
	e	23 39
	eSKS	28 26
	e	29 53
	e(PS)	31 47
	e(SS)	37 14
	e(SSS)	41 48
	eL	46 00
HH	iP	15 16 15
	ePP	19 44
	eS	26 39
LIN	eP	15 16 11
	e	25 31
July 23, cont.		
LIN, cont.	e	15 34 18
	eL	42 25
LOG	eP	15 16 36
	ePP	20 07
	e	21 20
	eSKS	27 06
	eS	27 41
	ePS	28 50
	e(SS)	34 10
	eL	42 26
OV	eP	15 17 06
	ePP	20 53.5
PHIL	eP	15 15 11
	ePP	17 55
	e(PPP)	19 57
	e(S)	24 41
	eSSS	32 37
	eL	35 44
PF	eP	15 17 03
	ePP	21 00
RC	eP	15 16 12
	eS	26 34
	eL	42 06
SJ	iP	15 15 50
	e(PP)	19 09
	iS	25 56
	eSS	31 18
	e(SSS)	34 18
	eL	40 10
SH	iP	15 16 59
SIT	iP	15 16 04
	ePP	19 19
	eS	26 21
	e(SS)	32 10
	eL	41 20
TUC	iP	15 17 12
	ePP	21 16
	eSKS	27 40
	ePS	30 20
	eL	46 20

Date and Station		Phase (GCT)
		h m s
July 23		
COL	iP	15 16 56
	iS	17 10
	iL	17 18
July 23		
COL	e	15 34 29
July 23		
COL	eP	16 12 49
July 23		
HH	e	16 21 55
PF	eP	16 20 44
SH	iP	16 21 15
TUC	e	16 20 20
July 23		
COL	eP	17 11 38
July 23		
COL	eP	17 21 45
July 23, H = 17 42 05** Eastern Turkistan.		
COL	iP	17 52 56.5
July 23		
COL	iP	19 49 38.5
July 23		
OV	iP	19 50 18
July 23		
TUC	eP	22 06 41
July 24		
COL	e	02 30 48.5
	e	31 26
July 24		
HH	e(P)	03 13 45
July 24		
HH	eP	10 43 49
PF	iP	10 42 34

Date and Station		Phase (GCT)
		h m s
July 24, cont.		
TUC	eP	10 42 06
July 24, H = 14 51 25** Off coast of Guatemala.		
BC	eP	14 57 41
HH	iP	14 58 56
TUC	e	14 56 55
July 24		
COL	e	15 01 59
July 24		
HUAN	iP	17 37 52
	i	37 57
	iS	38 04
	iL	38 12
July 24, H = 18 50 14 By PAS, 32°21'N, 117°48'W. Off San Diego, Calif. Felt in Mt. Helix. Mag. 3.6		
OV	e	18 51 49
	i	52 58.5
	i	56 52
TUC	eP	18 51 41
	e	52 04
	eS	52 39
	iL	53 16
July 24		
OV	e	20 44 36
July 24		
TUC	eP	23 27 37
July 24		
OV	e	23 35 34
TUC	iP	23 31 17
	i	31 31
	i	31 40
	iS	32 24
	iL	32 48

Date and Station		Phase (GCT)
		h m s
July 25, H = 03 50 30* 19°N, 148°E. Mariana Islands region. Mag. 6-3/4		
BC	i(P)	04 03 04
	e	03 24
COL	iP	04 00 51.5
	i	01 47
HH	iP	04 02 46
	e	03 36
	ePP	05 50
	eS	12 41
LOG	iP	04 03 02
	ePP	06 31
	eS	13 23
OV	iP	04 03 05
PF	iP	04 03 06
SH	iP	04 02 28
TUC	iP	04 03 24
	e(PP)	07 05
July 25		
COL	eP	05 18 15
July 25		
COL	iP	06 29 37
July 25		
COL	e	06 35 10
OV	i	06 33 30.5
July 25		
OV	eP	08 12 51
	e	13 45.5
July 25		
COL	iP	09 43 58.5
July 25, H = 11 24 33* 33°S, 112°W. Easter Island region. Mag. 6-3/4		
BER	eL	12 00 15

Date and Station		Phase (GCT) h m s
July 25, cont.		
BC	iP	11 35 39
	e(S)	44 52
BOZ	eP	11 36 37
	ePP	39 42
	eS	46 40
	eL	12 00 28
BUT	eP	11 36 38
	ePP	39 38
	eS	46 42
	eL	12 03 16
COL	eP	11 38 25.5
	ePP	42 29
	eS	49 08
	eL	12 12 44
HONO	e(S)	11 45 06
	eL	56 09
HUAN	iP	11 32 07
	i	33 34
	i	34 01
	eS	38 13
	iS	38 22
	e	41 19
	iL	43 09
HH	iP	11 36 49
	ePP	39 48
LOG	iP	11 36 12
	i	36 29
	ePP	39 24
OV	iP	11 35 43
PHIL	e(S)	11 46 59
	e	48 02
	eL	12 06 57
PF	iP	11 35 39
SJ	eP	11 35 35
	eS	44 29
	eL	12 00 10
SH	iP	11 36 10
SIT	eL	12 08 22

Date and Station		Phase (GCT) h m s
July 25, cont.		
TUC	iP	11 35 15
	e	38 29
	e	39 57
	i(S)	44 07
	eL	53 10
UK	eS	11 45 40
	eL	56 26
July 25		
OV	e	12 03 48.5
	i	03 51
July 25		
OV	i	20 59 40
July 26		
TUC	e	00 07 07
	i	07 12
	eS	07 26
	i	07 45
	eL	07 54
July 26		
TUC	e	00 32 44
	eS	33 19
	eL	33 32
July 26		
COL	e	00 22 46
	e(L)	23 55
July 26		
TUC	eP	01 00 13
July 26		
COL	eP	04 05 38.5
TUC	eP	04 07 07
July 26		
COL	eP	05 07 44
OV	eP	05 07 07
July 26		
COL	iP	07 22 28
	i	22 56
	iS	23 45
	iL	24 25

Date and Station		Phase (GCT) h m s
July 26, cont.		
HH	iP	07 24 54
July 26		
OV	eP	08 15 37
	e	19 50
	e	19 56
July 26, H = 08 24 24 By PAS, 34°01'N, 115°41'W. Pinto Basin Calif., aftershock. Mag. 3.3		
OV	e	08 25 20
	e	25 58
July 26		
LOG	e	19 52 14
July 26		
OV	e	20 49 29
TUC	eP	20 47 15
	i	47 23
	i	47 27
	eS	47 47
	i	47 58
	eL	48 13
July 26		
COL	eP	21 56 39
July 27		
COL	iP	05 45 35.5
HH	iP	05 47 54
OV	iP	05 48 28.5
SH	eP	05 47 51
July 27, H = 11 01 29** Banda Sea, north of Timor.		
COL	eP	11 19 19
HH	eP	11 19 57
OV	iP	11 20 23

Date and Station		Phase (GCT) h m s
July 27, cont.		
TUC	eP	11 20 28
July 27		
OV	iP	12 40 42.5
	e	41 20
July 27		
COL	eP	13 49 56
July 27		
COL	eP	15 08 48
July 27, H = 15 11 40* 27½°S, 177°W. Kermadec Islands region. Mag. 7.1		
BER	eP	15 32 18
	eSKKS	38 53
	ePS	42 05
	eSS	49 12
	eSSS	53 00
	eL	16 07 07
T_{PS} = 8 sec. A = 0.8 mm. T_{SS} = 20 sec. A = 0.7 mm. T_L = 20 sec. $A_{max.}$=0.8 mm.		
BC	iP	15 24 22
	eS	35 02
	e	38 47
BOZ	eP	15 25 02
	ePP	28 48
	eSKKS	35 45
	ePS	37 26
	e	40 54
	e	41 14
	eL	53 08
BUT	eP	15 24 58
	eSKS	35 44
	eS	36 24
	e	41 42
	eL	51 58
CHI	ePP	15 30 31
	eS	38 09
	ePS	39 44
	eSS	45 39
	eL	56 13

Date and Station		Phase (GCT) h m s
July 27, cont.		
COL	eP	15 25 00
	ePP	28 54
	ePPP	31 04
	iSKS	35 37
	i(PS)	37 40
	e	41 45
	eS	45 32
	eL	50 50
HONO	eP	15 20 54
	eS	28 20
	eL	32 16
T_S = 13 sec. A = 2.3 mm. T_L = 20 sec. $A_{max.}$=2.0 mm.		
HUAN	eP	15 24 58
	e	27 38
	iS	36 10
	iPS	37 22
	iSS	42 17
	eL	49 20
HH	eP	15 24 57
	iPP	28 47
	eS	35 43
LOG	iP	15 24 44
	i	25 05
	e	27 16
	ePP	28 01
	eSKS	35 32
	eS	36 05
	iPS	37 04
	e	40 44
	eSS	42 03
	e	45 12
	eL	49 19
NK	eP'	15 30 22
	ePP	31 08
	ePS	40 32
	eL	58 34
OV	iP	15 24 25
PHIL	ePP	15 31 22
	eSKS	37 24
	eSKKS	38 33
	ePS	41 11
	eSS	47 22
	eL	16 01 26

Date and Station		Phase (GCT) h m s
July 27, cont.		
PF	iP	15 24 24
	eS	35 06
	eP'P'	50 13
	eL	51 42
RC	i(P)	15 26 18
	eS	36 58
	eL	58 10
SLC	iP	15 24 34
	eSKS	35 24
	eL	50 45
SJ	e	15 31 20
	e(PP)	31 30
	e(SKS)	37 08
	e(S)	39 20
	ePS	41 20
	eL	58 24
SH	iP	15 24 15
SIT	eS	15 24 15
	iPS	37 10
	eSS	41 52
	eL	48 51
TUC	iP	15 24 24
	e	27 37
	ePP	27 53
	ePPP	29 45
	eS	35 04
	eSS	40 57
	eL	48 55
UK	eP	15 24 09
	eS	34 33
	e(SS)	39 21
	eL	45 39
July 27		
BC	e	15 50 27
COL	e	15 48 03
	e	50 03
HH	eP	15 50 04

Date and Station		Phase (GCT) h m s
July 27, cont.		
OV	e	15 50 23
TUC	e	15 50 23
July 27		
OV	eP	17 14 25
July 28		
BH	eP	01 14 27
	iS	14 58
July 28, H = 03 36 36* 15½°S, 76°W. Near south coast of Peru. h = about 60 km.		
COL	eP	03 50 02
HUAN	iP	03 37 27
	i	37 35
	i	38 04
	i	38 12
	iL	39 30
HH	iP	03 47 58
OV	eP	03 47 09
PF	eP	03 46 59
SH	e	03 47 48
TUC	eP	03 46 27
	iP	46 28
July 28		
COL	e	04 41 33
HH	e(P)	04 41 40
OV	eP	04 41 13
PF	iP	04 41 13
SJ	e	04 51 14
	eL	54 16
SH	eP	04 40 57
TUC	iP	04 41 16

Date and Station		Phase (GCT) h m s
July 28		
OV	iP	09 11 33
July 28		
BC	iP	13 30 11
COL	e(P)	13 32 12
HH	eP	13 29 16
OV	iP	13 30 11
PF	iP	13 30 13
SH	iP	13 29 19
TUC	iP	13 30 42
July 28		
COL	iP	19 54 24
	i	55 41
July 28		
BOZ	e	20 22 20
	eL	23 04
BUT	eL	20 27 00
COL	eP	20 17 39
HH	eP	20 17 51
	e	18 02
	e	21 26
LOG	e	20 18 29
	eL	24 19
OV	eP	20 19 03
PHIL	eL	20 35 24
PF	e	20 16 18
	e	19 09
SLC	eL	20 24 24
SH	e	20 17 38
SIT	iP	20 15 22
	e(S)	16 00
	eL	16 14

Date and Station		Phase (GCT) h m s
July 28, cont.		
TUC	e	20 19 52
	eL	30 03
July 28		
COL	e(P)	20 21 56
	e	23 02.5
July 28		
COL	eP	22 12 34
July 29		
COL	e	07 14 26
HH	eP	07 10 30
TUC	eP	07 10 36
July 29		
BC	e	07 20 19
COL	iP	07 15 06
	e(PP)	15 48
	e(S)	19 00
HH	iP	07 18 47
	i(PcP)	19 48
PF	e	07 19 55
TUC	eP	07 20 03
	e	20 57
July 29		
OV	eP	08 12 27
July 29, H = 11 08 15* 50°N, 129°W. Off coast of Vancouver, British Columbia.		
BC	eP	11 12 23
HH	iP	11 10 42
LOG	eP	11 11 47
OV	eP	11 12 21
SIT	eL	11 11 30
TUC	iP	11 13 17
	e	13 27

Date and Station		Phase (GCT) h m s
July 29		
OV	eP	13 20 35
	iS	21 13
July 29		
OV	e	13 53 54
July 29		
COL	eP	17 16 02
	e	17 33.5
HH	iP	17 18 00
July 29		
COL	iP	17 25 44
	e	27 24
	e	28 32.5
July 29		
COL	e	17 47 26
HH	iP	17 42 59
PF	e(P)	17 43 39
July 29		
COL	eP	19 06 01
	i	06 55
OV	e	19 12 12
	eP	12 49
July 29, H = 20 48 05** Gulf of California.		
BC	eL	20 52 32
BOZ	eL	20 58 22
BUT	eL	20 59 21
CHI	eL	21 01 08
HONO	eL	21 25 37
HH	eP	20 53 03
LOG	eL	20 55 59
OV	eL	20 52 43
PHIL	eL	21 04 09

Date and Station		Phase (GCT) h m s
July 29, cont.		
PF	iP	20 50 29
	eL	53 01
SLC	eL	20 55 10
TUC	iP	20 49 30
	i	49 47
	e	49 55
	i	49 58
	eS	50 29
	i	50 56
	eL	50 40
July 29		
BC	eL	20 58 15
BOZ	eL	21 03 26
HH	eP	20 58 15
LOG	eL	21 08 06
PHIL	eL	21 05 22
PF	eL	20 58 27
SLC	eL	21 00 10
TUC	eP	20 54 38
	i	54 56
	iS	55 35
	i	55 51
	eL	55 58
July 29, H = 21 47 06** Gulf of California.		
BC	eL	21 50 42
BOZ	e	21 56 18
	eL	57 40
BUT	e	21 56 21
	eL	59 37
CHI	eL	22 00 30
HH	eP	21 52 05
LOG	e	21 52 00
	eL	56 25

Date and Station		Phase (GCT) h m s
July 29, cont.		
OV	e	21 50 48
PF	iP	21 49 30
SLC	eL	21 53 37
TUC	eP	21 48 31
	e	48 45
	eS	49 37
	iL	49 53
UK	eL	21 56 46
July 29, H = 21 59 25** Gulf of California.		
BC	e(P)	22 01 50
BOZ	eL	22 09 20
BUT	eL	22 10 20
CHI	eL	22 12 30
HH	eP	22 04 19
OV	iP	22 01 58.5
PF	iP	22 01 45
	e(L)	04 09
SLC	eL	22 06 28
TUC	iP	22 00 46
	i	01 04
	i	01 40
	iS	01 56
	iL	02 07
UK	eL	22 03 34
July 29		
COL	e	23 00 23
OV	eL	22 54 12.5
TUC	eP	22 50 16
	e	50 39
	i	50 52
	eS	51 20
	eL	51 49

Date and Station		Phase (GCT) h m s
July 29, cont.		
UK	eL	23 07 34
July 29		
OV	e	23 39 51
	i	40 37
July 30		
HONO	eL	00 21 02
OV	e	00 17 21
	i	17 47.5
July 30		
TUC	iP	00 13 18
	e	13 34
	e	13 45
	i	14 21
	i(S)	14 28
	eL	14 40
July 30		
TUC	eP	00 51 14
July 30		
COL	eP	01 31 04
	e	32 39
July 30		
TUC	e	02 16 45
	e	17 02
	e(S)	17 40
	eL	18 09
July 30, H = 06 29 34* 45°N, 149°E. Kurile Islands region.		
BC	iP	06 40 45
COL	iP	06 37 02
	e	38 06
	ePP	38 36
HH	iP	06 39 56
LOG	iP	06 40 29
OV	iP	06 40 44.5
PF	iP	06 40 46

Date and Station		Phase (GCT) h m s
July 30, cont.		
TUC	iP	06 41 14
July 30		
BH	eP	06 58 30
	eS	59 21
July 30		
HH	eP	14 32 05
July 30		
COL	e	15 18 48
July 30, H = 15 25 20* 8°N, 83°W. Off south coast of Panama.		
BH	iP	15 26 19
	e	27 18
BC	eP	15 32 58
COL	e	15 34 02
	e	36 43
	e	39 45
HH	eP	15 34 00
OV	eP	15 32 59
PF	iP	15 32 54
TUC	e	15 32 14
July 30		
BH	iP	15 48 39
	iS	48 50
July 30, H = 16 22 35** Ryukyu Islands region.		
COL	iP	16 33 27
	e	33 48
HH	eP	16 35 37
July 30, H = 17 47 05 39°N, 26°E. Off west coast of Turkey. h = about 60 km.		
HH	iP	17 59 49

Date and Station		Phase (GCT) h m s
July 30, cont.		
TUC	e	18 00 47
July 30		
OV	eP	20 12 37
	i	14 36.5
TUC	e	20 13 08
	i	13 15
	i(S)	13 39
	i	13 50
	iL	14 06
July 30		
BC	e	21 02 45
HH	eP	21 04 16
LOG	e	21 03 26
OV	eP	21 02 50
PF	e	21 02 42
SH	e	21 02 37
TUC	e	21 02 09
July 30		
OV	eP	21 11 07.5
July 30		
COL	eP	22 23 24
	e	24 08
July 30, H = 23 55 59** Off coast of Guerrero, Mexico.		
BC	eP	00 01 02
BOZ	eL	00 20 44
COL	eP	00 05 05
HH	eP	00 02 34
LOG	eP	00 01 40
OV	eP	00 01 06.5
PHIL	eL	00 09 55

Date and Station		Phase (GCT) h m s
July 30, cont.		
PF	iP	00 00 43
SJ	eL	00 37 32
TUC	e	00 00 07
	e	00 12
	eL	05 50
July 31		
OV	eP	01 28 49
July 31		
OV	iP	02 05 56.5
	iS	06 39.5
July 31, H = 04 14 04* 32°S, 72½°W. Near coast of central Chile.		
BC	eP	04 26 00
HUAN	iP	04 18 47
	iS	22 48
	eL	33 37
HH	eP	04 26 55
LOG	eP	04 26 21
SJ	e	04 23 19
	e(S)	30 25
	eSS	33 59
	eL	38 11
July 31		
HH	eP	06 59 50
TUC	eP	04 25 39
July 31, H = 06 55 33* Solomon Islands region.		
COL	eP	07 07 25
	e	08 11
	e	08 22
HH	iP	07 08 39
July 31		
TUC	eP	08 55 46

Date and Station		Phase (GCT) h m s
July 31		
COL	e	21 37 41
July 31		
COL	iP	22 24 37.5
Aug. 1		
COL	eP	01 38 58
TUC	eP	01 43 11
Aug. 1		
COL	e	02 12 15
	e	13 28
Aug. 1		
COL	eP	03 49 00
Aug. 1, H = 04 47 00** Samoa Islands region.		
COL	iP	04 59 26
HH	eP	04 59 25
OV	eP	04 58 49.5
TUC	eP	04 58 51
Aug. 1, H = 07 39 45 35½°N, 74½°E. Northern India.		
COL	iP	07 51 27
	eL	08 30 33
SIT	eP	07 52 21
	eS	08 02 53
	eL	30 05
TUC	e(P')	07 58 36
	ePP	59 06
Aug. 1		
COL	eP	08 07 36
	i	07 47.5
HONO	eL	08 13 26
OV	eP	08 07 14
TUC	e	08 07 14

Date and Station		Phase (GCT) h m s
Aug. 1, H = 08 03 47* 19½°N, 96°W. Off east coast of Mexico.		
BER	eS	08 15 30
	eL	17 00
BC	iP	08 08 59
	eL	16 46
CHI	eP	08 09 01
	eS	13 03
	eL	14 30
LOG	eP	08 09 34
	eS	14 00
	eL	18 20
OV	iP	08 09 00.5
PHIL	e(S)	08 14 28
	eL	14 50
SLC	eL	08 18 16
SJ	ePP	08 10 44
	eS	14 19
	eL	16 01
TUC	iP	08 08 06
	e	08 38
	e(S)	11 45
	eL	13 58
UK	eL	08 20 16
Aug. 1		
COL	e	09 13 31
Aug. 1		
OV	iP	10 47 13.5
Aug. 1		
PF	e	15 10 19
	e	17 17
Aug. 1, H = 15 27 50* 35°N, 21°E. Eastern Mediterranean Sea, near Crete. h = about 200 km.		

Date and Station		Phase (GCT) h m s
Aug. 1, cont.		
COL	eP	15 39 37
HH	eP	15 40 17.5
Aug. 1		
PF	eP	16 31 05
Aug. 1		
PF	eP	19 00 53
SH	eP	19 00 38
Aug. 1, H = 22 42 22* 39°N, 26°E. Off west coast of Turkey.		
HH	eP	22 55 04
	i	55 09
PF	eP	22 55 00.1
Aug. 1		
BC	eP	23 28 31
HH	eP	23 29 20
PF	eP	23 28 28
SH	eP	23 29 13
	i	30 25
Aug. 2		
TUC	e	03 33 52
Aug. 2		
HH	e	05 01 39
Aug. 2		
OV	e	06 26 23
Aug. 2		
HUAN	iP	06 53 47
	i	53 59
	iS	54 13
	iL	54 30
Aug. 2		
COL	e	09 10 56
Aug. 2		
HH	e	11 21 12

Date and Station		Phase (GCT) h m s
Aug. 2, cont.		
PF	eP	11 20 22
SH	eP	11 21 05
Aug. 2		
BC	eP	12 11 20
OV	eP	12 10 57
PF	eP	12 10 36
	e(S)	11 54
TUC	e	12 09 56
	i	10 07
	i	10 18
	iS	10 40
	eL	10 46
Aug. 2		
TUC	e	15 21 23
Aug. 2		
HH	eP	15 40 18
Aug. 2		
HH	eP	16 04 59
	e	05 01
	e	05 33
Aug. 2		
HH	eP	17 04 59
Aug. 2		
TUC	e	17 24 41
Aug. 2		
HH	eP	22 55 04
Aug. 2, H = 23 02 40** Pacific Ocean, about 300 miles southwest of Easter Island.		
BC	iP	23 13 33
HUAN	eL	23 19 10
HH	eP	23 14 47
OV	eP	23 13 37
	eL	30 35.5

Date and Station		Phase (GCT) h m s
Aug. 2, cont.		
PF	iP	23 13 33
SH	eP	23 14 01
	iP	14 05
TUC	eP	23 13 08
	eL	33 10
Aug. 3		
HH	eP	00 50 00
Aug. 3, H = 03 47 17** Formosa Strait, about 150 miles northeast of Formosa.		
COL	eP	03 58 08
SH	e	03 59 20
	i	04 00 19
Aug. 3		
HH	eP	04 07 17
Aug. 3		
HH	eP	05 43 25
SH	eP	05 43 17
Aug. 3		
COL	e	08 39 21
	e	45 01
TUC	e	08 44 39
Aug. 3		
LOG	eP	10 59 40
Aug. 3		
COL	e	14 38 28
	e	38 38
	e	41 38
Aug. 3		
SJ	eP	14 43 58
	iS	44 12
	eL	44 33
Aug. 3		
BC	eP	15 56 02

Date and Station		Phase (GCT) h m s
Aug. 3, cont.		
HH	eP	15 55 16
PF	eP	15 56 04.5
	i	56 18.5
Aug. 3		
HH	e	20 39 06
Aug. 3, H = 20 23 45** South Atlantic Ocean, about 300 miles south of Capetown, So. Africa.		
BC	eP'	20 43 14
COL	i(P')	20 44 48
	e	45 29
	e	46 09
HH	iP'	20 43 27
	i	43 39
	i	45 31
LOG	eP'	20 43 17
OV	eP'	20 43 16
PF	iP'	20 43 11
SH	eP'	20 43 29
	i	43 44
TUC	eP'	20 43 09
Aug. 3		
SH	eP	23 16 26
Aug. 4		
PF	eP	01 09 53
TUC	eP	01 09 13
Aug. 4		
BC	eP	01 51 39
COL	eP	01 48 37
HH	eP	01 51 07
	i	51 24
	i	51 35

Date and Station		Phase (GCT) h m s
Aug. 4, cont.		
PF	eP	01 51 45
SH	eP	01 51 02
	i	51 30
Aug. 4		
COL	eP	05 41 05
	e	49 30
HH	e	05 43 56
	e	44 02
	i	44 13
	i	46 22
OV	eP	05 45 01
	i	45 06.5
PF	e	05 44 57
	i	45 09
SH	eP	05 44 00
	i	44 06
TUC	e	05 45 33
Aug. 4, H = 07 51 40** New Britain Island region.		
BER	eL	09 01 15
COL	iP	08 03 45
	e(PP)	07 15
	e(PPP)	08 53
HONO	eL	08 20 17
HH	eP	08 04 57
PF	eP	08 05 00
SH	eP	08 04 25
TUC	eL	08 38 17
Aug. 4		
HH	e	08 29 41
Aug. 4, H = 10 47 50** Fiji Islands region. h = about 600 km.		

Date and Station		Phase (GCT) h m s
Aug. 4, cont.		
BC	iP	10 59 19
COL	eP	10 59 42
HH	iP	10 59 50
	iPKKP	11 17 38
PF	iP	10 59 22
SH	iP	10 59 05
	i	59 20.5
TUC	iP	10 59 26
	e	59 41
	ePP	11 02 28
	eL	24 33
Aug. 5		
HUAN	eL	00 49 35
HH	e	00 19 05
	i	19 12
SH	i	00 17 57
	e	19 14
Aug. 5		
HH	iP	00 42 47
OV	eP	00 43 12
Aug. 5		
HH	e	01 12 03
Aug. 5		
SH	eP	01 27 03
Aug. 5		
HH	e	02 21 09
SH	eP	02 21 02
Aug. 5		
HH	i	03 28 49
Aug. 5		
HH	e	04 49 39
Aug. 5		
BC	e	07 04 20

Date and Station		Phase (GCT)
		h m s
Aug. 5, cont.		
OV	eP	07 04 22.5
	i	04 41
PF	eP	07 04 23
	i	04 50
Aug. 5		
SH	eP	07 04 12
	e	04 29
	e	04 49
TUC	iP	07 04 21
	ipP	04 39
Aug. 5, H = 07 49 29* 6½°S, 77°W. Northern Peru. h = about 100 km.		
BC	eP	07 58 57
	e	59 26
HUAN	iP	07 50 49
	i	51 20
	i	51 30
	iS	51 47
	iL	51 49
HH	iP	07 59 56
	ipP	08 00 26.5
OV	eP	07 59 00
PF	eP	07 58 55
	i	59 24
	ipP	59 39
SH	eP	07 59 48
	ePcP	08 00 17.5
TUC	iP	07 58 21
	e	58 50
Aug. 5		
HH	eP	09 47 09
Aug. 5		
HH	eP	12 09 34
Aug. 5, H = 14 42 43 By Pasadena. 34°04'N, 116°24'W. East of Morongo Valley Post-office, Calif. Mag. 2.8		

Date and Station		Phase (GCT)
		h m s
Aug. 5, cont.		
OV	iP	14 43 39
Aug. 5, H = 19 02 56* 1°S, 78°W. Central Ecuador foreshock.		
BER	eP	19 10 02
	e(PP)	11 31
	i(S)	15 49
	eL	17 45
BC	eP	19 11 55
HONO	eL	19 31 13
HUAN	iP	19 05 39
	eS	07 38
	iS	07 41
	iL	08 18
HH	eP	19 12 54
LOG	eP	19 12 08
OV	eP	19 11 57
PHIL	iP	19 10 43
PF	iP	19 11 52
RC	iP	19 11 57
SLC	eP	19 11 35
	iS	18 27
	eScS	20 23
	eL	24 33
SJ	iP	19 08 05
	e(S)	12 19
	i(S)	12 24
	eL	13 04
SH	eP	19 12 48
TUC	iP	19 11 18
	ePP	13 06
WASH	iP	19 10 33

Date and Station		Phase (GCT)
		h m s
Aug. 5, H = 19 08 48* 1°S, 78°W. Central Ecuador. Destructive in Ambato, Guano, Pelileo, Patate, and Pillaro. 4000-6000 killed, $7½ million property damage. h = about 60 km. Mag. 6-3/4		
BH	iP	19 11 19
	e(S)	13 21
	eL	14 11
BC	iP	19 17 46
	eS	25 03
BOZ	iP	19 18 21
	ePP	20 25
	ePPP	21 46
	eS	26 10
	e(SS)	30 06
	eL	34 59
BUT	iP	19 18 28
	e	21 18
	e(PPP)	22 00
	e(S)	26 22
	eL	31 25
CHI	iP	19 17 00
	iPP	18 41
	e(PPP)	19 21
	eS	23 29
	eL	26 41
COL	eP	19 21 09
	i(PP)	24 39
	iS	31 33
	eL	48 49
COLU	eP	19 15 44
	ePPP	17 14
	eS	21 22
	eL	23 14
HONO	eL	19 42 41
HUAN	i(P)	19 11 25
	i(S)	13 20

Date and Station		Phase (GCT) h m s
Aug. 5, cont.		
HH	iP	19 18 44
	eS	26 50
	i(P'P')	47 03
LIN	eP	19 17 03
	ePP	18 43
	ePPP	19 29
	e(S)	23 17
	eSS	26 47
	eL	30 17
LOG	iP	19 18 00
	i	18 24
	i	20 20
	eS	25 36
	iS	25 40
	iSS	29 06
	iL	30 05
NK	eP	19 16 38
	ePP	18 21
	eS	23 02
	eL	26 06
OV	iP	19 17 47.5
PHIL	iP	19 16 32
	i	16 55
	ePP	18 17
	eS	22 50
	iS	23 04
	iL	26 06
PF	iP	19 17 42.5
	eS	25 00.5
RC	iP	19 17 48
	iPP	19 42
	iS	25 04
	eSS	28 29
	eL	32 45
SJ	iP	19 13 55
	iS	18 07
	iL	19 51
SH	eP	19 18 38.5
	e	46 39
	iP'P'	48 39

Date and Station		Phase (GCT) h m s
Aug. 5, cont.		
SIT	iP	19 20 23
	ePP	23 10
	iPP	23 11
	ePPP	25 05
	iS	30 05
	eSS	34 55
	eL	42 20
TUC	iP	19 17 08
	e(pP)	18 49
	ePP	18 58
	ePPP	19 36
	iS	24 02
	e(SS)	27 24
	eL	28 13
UK	eP	19 18 36
	eS	26 37
	e	30 47
	eL	34 06
WASH	iP	19 16 22
	iPP	18 01
	eS	22 23
	eL	25 51
Aug. 5 TUC	i	20 02 41
Aug. 5 TUC	e	20 43 33
Aug. 5 HH	e	20 51 11
Aug. 5 HH	i	22 11 44
Aug. 5 HH	eP	22 44 53
SH	eP	22 44 54

Aug. 6, H = 00 35 33* 18½°S, 175°W. Tonga Islands region. Felt in Nukualofa. h = about 70 km. Mag. 7.6

Date and Station		Phase (GCT) h m s
Aug. 6, cont.		
BER	eP	00 50 25
	esP	51 06
	iPP	55 20
	ipPP	55 42
	iSKS	01 01 05
	iSKKS	01 36
	i	02 16
	iSP	05 01
	eSS	11 21
	e(SSS)	16 25
	eL	27 35

T_{PP} = 6 sec. A = 1.6 mm.
T_{PS} = 6 sec. A = 3.6 mm.
T_{SKS} = 10 sec. A = 1.5 mm.
T_L = 30 sec. A_{max} = 1.0 mm.
T_L = 20 sec. A = 0.7 mm.

BC	eP	00 47 32
	iP	47 33
	ipP	47 51
	eS	57 24.5
	ipS	57 45.5
	iPS	58 20.5
BOZ	iP	00 48 14
	ipP	48 40
	e	49 37
	ePP	51 36
	e(PPP)	54 19
	iS	58 34
	ipS	59 13
	eSS	01 04 16
	esSS	04 59
	e	09 33
	eL	15 12
BUT	iP	00 48 09
	isP	48 46
	epPP	52 04
	iS	58 33
	ipS	59 02
	e(SS)	01 04 03
	e(SSS)	07 51
	eL	11 00
CHI	e(P)	00 49 26
	e	52 39
	iPP	53 29
	ePPP	55 39
	iSKS	59 57
	i(S)	01 00 29

Date and Station		Phase (GCT) h m s
Aug. 6, cont.		
CHI, cont.		
	eSS	01 07 47
	eL	17 06
COL	iP	00 48 09
	ePP	51 45
	iSKS	58 29
	i	01 03 37
	eL	10 53
COLU	eP	00 49 27
	ePP	53 44
	iSKS	01 00 05
	e(SKKS)	00 35
	e(S)	01 23
	ePS	02 46
	eSS	08 15
	eSSS	12 05
	eL	19 33
HONO	iP	00 43 30
	ipP	43 53
	eS	49 52
	iS	49 53
	isS	50 22
	eSS	53 16
	eL	53 53

T_P = 2 sec. A = 2.5 mm.
T_S = 12 sec. A = 5 mm.
T_L = 12 sec. A_{max} = 15 mm.
T_L = 20 sec. A = 4 mm.

HUAN	iP	00 48 54
	i	49 49
	iPP	52 49
	eSKS	59 13
	iSKKS	59 29
	iS	01 00 00
	iPS	01 32
	iSS	06 28
	eL	14 06
HH	eP	00 48 09.5
	epP	48 33
	ePP	51 29
	eSKS	58 25
	iS	58 33
	epS	59 03
	iPKKP	01 06 13
	iP'P'	14 14
Aug. 6, cont.		
HH, cont.	e	01 21 36
	e	22 05
	e(P'P'P')	34 46
NK	eP	00 49 38
	iPP	53 59
	e	55 29
	iSKS	01 00 09
	i(SKKS)	00 42
	iS	01 25
	eSS	08 41
	eL	23 36
LIN	iP	00 48 45
	ipP	49 07
	ePP	52 23
	ePPP	54 41
	iSKS	59 13
	e(SS)	01 05 48
	eL	18 41
LOG	iP	00 47 58
	ipP	48 24
	iPP	51 06
	ipPP	51 37
	isPP	51 50
	eS	58 16
	iS	58 18
	isS	58 49
	iPS	59 32
	e(SS)	01 03 28
	e(SSS)	08 08
	eL	10 28
OV	iP	00 47 36
	eS	57 37
PHIL	eP	00 49 55
	epP	50 21
	e(P')	53 27
	iPP	54 25
	ipPP	54 45
	eSKS	01 00 22
	eSKKS	01 01
	iS	02 05
	ipS	02 32
	eSP	03 44
	ipPS	04 15
	esSS	10 14
	eL	21 41
Aug. 6, cont.		
PF	iP	00 47 33.5
	iPcP	47 37
	eS	57 31
	epS	58 04.5
	ePS	58 26.5
	e(S)	01 00 54.5
	iP'P'	14 29.5
	eSKPP'	17 59.5
RC	iP	00 48 32
	ePP	51 58
	iSKS	59 00
	eL	01 15 25
SLC	iP	00 47 55
	epP	48 17
	ePP	51 15
	ePPP	53 13
	epPPP	53 39
	iS	58 13
	eSS	01 03 25
	e(SSS)	07 27
	eL	09 55
SJ	iPP	00 54 53
	iSKS	01 00 47
	iSKKS	01 22
	iSP	04 22
	iPS	04 40
	e	09 32
	eL	24 27
SH	iP	00 47 25
	eS	57 06
	i	01 00 44
	i	06 55
	e(P'P'P')	34 23
SIT	iP	00 47 52
	ipP	48 19
	ePP	51 00
	ipPP	51 27
	ePPP	53 19
	iS	58 02
	isS	58 39
	eSS	01 03 36
	esSS	04 00
	eSSS	07 24
	eL	09 47

Date and Station		Phase (GCT)
		h m s
Aug. 6, cont.		
TUC	iP	00 47 37
	ipP	48 00
	ePP	50 35
	i	51 42
	e	51 52
	iS	57 37
	ipS	57 53
	esS	58 15
	iPS	58 29
	eSS	01 03 00
	eL	08 57
	eP'P'	14 32
UK	iP	00 47 08
	ePP	50 08
	iS	56 44
	iPS	57 18
	esSS	01 02 14
	eSSS	05 23
	eL	09 08
WASH	ePP	00 54 12
	epPP	54 38
	eL	01 27 45
Aug. 6		
TUC	e	01 00 56
Aug. 6		
TUC	e	03 10 10
Aug. 6		
TUC	e	05 44 43
Aug. 6		
PF	e	09 18 42
Aug. 6		
COL	e	09 37 57
	e	39 43
HH	eP	09 40 09
PF	eP	09 41 39
TUC	e	09 42 05

Date and Station		Phase (GCT)
		h m s
Aug. 6, H = 11 56 03** Kermadec Islands.		
BC	iP	12 08 56
COL	iP	12 09 34
	e	12 08
HH	iP	12 09 34
PF	iP	12 09 00
SH	iP	12 08 45.5
	i	09 04
TUC	eP	12 09 02
	e	09 23
Aug. 6		
HH	eP	14 57 07
	iP	57 14
Aug. 6, H = 15 51 03* 19°S, 175°W. Tonga Islands region.		
BC	iP	16 03 08
COL	eP	16 03 46
	iP	03 49
HH	eP	16 03 44
PF	iP	16 03 10.5
TUC	iP	16 03 12
	i	03 28
	e	04 22
Aug. 6		
HH	e	16 44 36
PF	iP	16 43 50
SH	iP	16 43 38
TUC	iP	16 43 50
Aug. 6		
TUC	e	18 34 40

Date and Station		Phase (GCT)
		h m s
Aug. 6, H = 18 53 36* 19½°N, 96°W. Near coast of Vera Cruz, Mexico.		
BER	eL	19 10 25
BC	iP	18 58 48
HH	eP	19 00 07
PF	iP	18 58 43
	i	58 49
TUC	eP	18 57 56
	e	58 46
	e(S)	19 01 30
	eL	03 30
Aug. 6		
TUC	e	19 32 29
Aug. 6		
TUC	e	21 41 08
Aug. 6		
TUC	e	22 00 20
	i	00 29
Aug. 6		
BC	eP	23 30 50
	e	30 54
	i	31 09
PF	iP	23 30 57
	i	31 07
	e	31 49
	i	31 57
Aug. 7		
TUC	e	05 47 02
Aug. 7, H = 08 15 20* 50½°N, 130°W. Off British Columbia.		
BOZ	eL	08 22 40
BUT	eL	08 21 44
CHI	eL	08 29 56

Date and Station		Phase (GCT)
		h m s
Aug. 7, cont.		
COL	eP	08 19 23
	e	26 14
HH	iP	08 17 52
	eS	20 43
LOG	eP	08 18 57
	e	22 16
	eL	22 53
OV	iP	08 19 36.5
PHIL	eL	08 34 51
PF	eP	08 19 36
SH	iP	08 18 02
SIT	eL	09 18 45
TUC	iP	08 20 27
	e	21 45
Aug. 7, H = 10 44 42* 50½°N, 130°W. British Columbia aftershock.		
BOZ	eL	10 52 06
BUT	eL	10 51 14
CHI	eL	11 00 54
COL	eL	10 54 54
HH	eP	10 47 14
	e	50 08
LOG	eP	10 48 18
	eL	53 02
PF	iP	10 48 59
SH	eP	10 47 24

Date and Station		Phase (GCT)
		h m s
Aug. 7, cont.		
SIT	eL	11 48 23
TUC	eP	10 49 49
	e	50 15
Aug. 7		
COL	iP	17 38 54
	i	39 10
HH	eP	17 39 10
SH	e	17 38 04
	e	38 21
TUC	e	17 38 22
	e	38 37
Aug. 7		
COL	e	19 02 45
SH	iP	18 59 50.9
Aug. 7		
COL	e	19 54 38
HH	eP	19 56 15
Aug. 7		
COLU	eL	20 56 13
Aug. 7		
COLU	eL	21 11 51
Aug. 7		
TUC	i	22 52 37
	i	52 44
	iL	53 48
Aug. 7		
COLU	eL	23 01 45
Aug. 7, H = 23 53 52* 15°S, 71½°W. Southern Peru.		
COL	e	00 12 07
HH	iP	00 05 28

Date and Station		Phase (GCT)
		h m s
Aug. 8, cont.		
SH	iP	00 05 23
TUC	eP	00 04 05
Aug. 8		
COL	e	02 11 53
	e	18 59
Aug. 8		
HH	eP	03 49 43
Aug. 8		
COL	e	04 15 33
HH	eP	04 20 16
SH	e(P)	04 19 46
Aug. 8		
BER	eL	06 19 25
SJ	eP	06 14 32
	e	14 51
	e(S)	15 14
	eL	15 33
TUC	e	06 21 18
Aug. 8		
BER	eL	06 48 40
HH	eP	06 51 57
SJ	eP	06 44 08
	e(S)	44 42
	eL	44 56
SH	iP	06 52 25
TUC	eP	06 51 17
	e	51 30
Aug. 8, H = 07 09 05* 19°S, 65½°E. Indian Ocean, about 1100 miles east of Madagascar.		
BER	e	07 46 35
	eSS	48 40
	eL	08 11 30

Date and Station		Phase (GCT)
		h m s
Aug. 8, cont.		
CHI	eL	08 25 41
COL	eP'	07 28 19
HH	iP'	07 29 03
	e	29 37
LOG	eP'	07 29 11
PHIL	e	07 51 50
	eL	08 18 41
PF	eP'	07 29 05
SJ	eL	08 19 14
SH	eP'	07 29 04
	e	29 18
TUC	eP'	07 29 19
	i	29 29
	e	30 21
	e	34 10
	ePP	34 50
	eL	34 30
Aug. 8		
SH	i	09 29 30
	e	29 42
	e	30 01
Aug. 8, H = 11 00 03 By BERK, 37°57'N, 122°19'W. Felt in Richmond, Martinez, and Pinole. Mag. 3.3		
SH	eP	11 00 57
Aug. 8		
HH	eP	11 33 14
SH	e	11 32 53
Aug. 8		
COL	e	11 59 10

Date and Station		Phase (GCT)
		h m s
Aug. 8, cont.		
TUC	eP	11 56 57
Aug. 8		
COL	e	12 16 32
HH	iP	12 09 05
Aug. 8		
COL	iP	12 19 25
	iS	19 36
	eL	19 39
Aug. 8, H = 13 11 42** Tonga Islands region.		
COL	iP	13 24 34.5
HH	iP	13 24 33
	i	24 51
LOG	eP	13 24 21
OV	iP	13 24 01
PF	e(P)	13 24 13
SH	iP	13 23 44
	i	24 02
	i	25 10
	i	25 21
	i	25 46
TUC	iP	13 24 02
	e	24 19
Aug. 8, H = 14 10 32* 14°N, 93½°W. Near coast of Chiapas, Mexico. h = about 100 km.		
BER	e	14 19 15
	eL	23 43
BC	eP	14 16 37
BOZ	eL	14 31 21
CHI	eL	15 28 55
COL	eP	14 20 49
	e	22 51

Date and Station		Phase (GCT)
		h m s
Aug. 8, cont.		
COLU	eL	14 24 06
HH	eP	14 17 45
	iP	17 47
LOG	eP	14 16 49
	eL	30 04
OV	iP	14 16 29
PF	eP	14 16 24
	e	16 31
SJ	eP	14 16 30
	eL	25 07
SH	iP	14 17 31
	e	17 38
	e	17 53
	i	18 02
	iPcP	19 55
SIT	eL	14 43 50
TUC	iP	14 15 42
	i	15 53
	e	16 41
	eS	20 07
	eL	22 54
UK	eL	14 29 37
Aug. 8		
COL	e	14 31 48
Aug. 8		
COL	e	14 58 12
	i	58 20
	e	59 18
Aug. 8, H = 17 12 32** Kermadec Islands.		
BC	eP	17 25 32
COL	iP	17 26 09
HH	iP	17 26 09
LOG	eP	17 25 57

Date and Station		Phase (GCT)
		h m s
Aug. 8, cont.		
OV	iP	17 25 35
PF	i	17 25 34.5
SH	iP	17 25 09
TUC	iP	17 25 31
Aug. 8, H = 19 07 24* 16°S, 76°W. Off the coast of southern Peru. h = about 100 km.		
HUAN	iP	19 08 17
	i	08 26
	iS	09 02
	iL	09 20
HH	eP	19 18 45
	iP	18 47
	ePcP	19 09
LOG	eP	19 18 08
OV	eP	19 17 52
PF	eP	19 17 46
SJ	eL	19 29 10
SH	e(P)	19 18 32
	epP	18 53
	e	19 04
TUC	eP	19 17 15
	iP	17 17
	epP	17 44
	eL	37 07
Aug. 9, H = 00 39 27 By BERK, 38°35'N, 122°40'W. West of Calistoga, Calif. Mag. 3.6		
SH	iP	00 40 04
	i	40 13
	eS	40 34
	iL	40 42

Date and Station		Phase (GCT)
		h m s
Aug. 9		
COL	i	01 58 10
OV	e	01 57 36
TUC	e	01 57 37
Aug. 9		
HH	iP	03 30 58
OV	iP	03 30 15
SH	iP	03 30 51
TUC	iP	03 29 43
UK	eL	04 40 06
Aug. 9		
OV	iP	05 39 37
Aug. 9		
HH	iP	08 06 58
Aug. 9		
TUC	e	10 39 36
	i	39 53
Aug. 9, H = 10 58 00** Fiji Islands. h = about 600 km.		
BC	eP	11 09 22
COL	eP	11 09 45
	ePP	13 36
HH	iP	11 09 52
OV	iP	11 09 25
PF	eP	11 09 24
SH	iP	11 09 08
TUC	iP	11 09 28
Aug. 9		
HH	e	14 16 18
	i	16 33

Date and Station		Phase (GCT)
		h m s
Aug. 9		
HH	eP	14 51 42
	i	51 48
	i	51 55
Aug. 9, H = 21 31 51** Eastern Turkistan.		
COL	e	21 43 09
Aug. 10, H = 03 17 38** Mediterranean Sea, off south coast of Turkey.		
HH	iP	03 30 36
Aug. 10		
COL	e	04 50 44
TUC	iP	04 50 22
Aug. 10		
TUC	e	07 08 34
Aug. 10		
HH	e	08 18 42
Aug. 10, H = 09 37 08 By PAS, 33°45'N., 115°50'W. Near Cottonwood Springs, Calif. Mag. 3.4		
BC	e(P)	09 37 47
	i	37 52
	iS	38 03
	iL	38 49
PF	iP	09 37 50.7
	i	37 55.6
	i	37 59.5
	i	38 07.2
	i	38 22.7
	iS	38 29.5
	iL	38 35.5
TUC	eP	09 38 12
	e	38 23
	i	38 30
	i	38 51
	eL	39 25

Date and Station		Phase (GCT)
		h m s
Aug. 10, H = 13 45 15* 86½°N, 67°E. North Polar region foreshock.		
TUC	e	13 49 08
COL	e	13 44 37
HH	eP	13 46 42
	e	46 56
	i	47 01
	i	47 08
OV	iP	13 48 01
PF	e	13 48 33
	e	48 47
Aug. 10		
BC	eP	13 55 07
COL	eP	13 51 09
	i	51 16
HH	iP	13 53 34
	i	53 42
	e	55 13
	iPP	55 23
LOG	eP	13 54 27
OV	iP	13 55 04
PF	eP	13 55 06
	e	55 16
SH	iP	13 54 32
	i	54 39
TUC	eP	13 55 33
	i	55 41
Aug. 10		
COL	e	14 06 14
HH	iP	14 08 39
Aug. 10		
HH	iP	16 54 00
	i	54 07
OV	iP	16 55 30

Date and Station		Phase (GCT)
		h m s
Aug. 10, cont.		
TUC	eP	16 55 59
Aug. 10, H = 20 33 47 86½°N, 67°E. North Polar region.		
BC	eP	20 43 40
COL	eP	20 39 41
HH	iP	20 42 07
	i	42 14
	iPP	44 02
LOG	eP	20 42 56
OV	iP	20 43 36.5
PF	iP	20 43 39
	i	43 44
SH	e(P)	20 42 49
	i	43 21
TUC	iP	20 44 05
Aug. 11, H = 00 09 30 By PAS, 33°50'N, 115°53'W. Pinto Basin, Calif. Mag. 3.4		
BC	iL	00 10 10.5
PF	e(P)	00 10 11
	iS	10 18.1
	iL	10 25.6
TUC	iP	00 10 55
	eL	11 58
Aug. 11, H = 03 13 10** Central Ecuador aftershock.		
BC	eP	03 22 17
COL	eP	03 25 37
HUAN	eP	03 15 59
	iS	18 08
	eL	18 38

Date and Station		Phase (GCT)
		h m s
Aug. 11, cont.		
HH	iP	03 23 14.5
OV	iP	03 22 18
PF	iP	03 22 13
SH	iP	03 23 08
TUC	eP	03 21 38
	iP	21 39
Aug. 11		
BC	e	11 57 17
PF	e	11 57 30
	e	58 19
SH	iP	11 57 23
	i	57 30
Aug. 11		
OV	iP	12 36 17
Aug. 11		
OV	eP	12 40 55
TUC	e	12 40 57
Aug. 11, H = 13 49 55* 14°N, 93½°W. Chiapas, Mexico, aftershock.		
BER	eL	14 04 20
BC	eP	13 55 52
	e	55 59
	epP	56 16
BOZ	eL	14 09 54
CHI	eL	14 07 17
COL	eP	14 00 14
	e	01 05
	e	01 54
	eL	24 28
COLU	eL	14 03 14
HH	iP	13 57 07
	i	57 16
	i	57 21

Date and Station		Phase (GCT)
		h m s
Aug. 11, cont.		
LOG	eP	13 56 13
OV	eP	13 55 52
	iP	55 54
PF	eP	13 55 45
	e	55 54
	e	56 34
SJ	eL	14 05 42
SH	eP	13 56 55
TUC	iP	13 55 06
	ipP	55 36
	e(PP)	56 11
	eS	59 32
	e	59 50
	eL	14 02 33
UK	eL	14 08 35
Aug. 11, H = 14 40 36* 45°N, 29°W. North Atlantic Ocean, about 400 miles north of Azores.		
BER	e	14 47 30
	eS	51 50
	eL	53 45
BOZ	eL	15 11 24
CHI	eL	15 03 17
COL	eP	14 50 50.5
	eS	59 11
	eL	15 15 00
HH	eP	14 50 13
LOG	eP	14 50 26
OV	eP	14 51 00
SH	e	14 51 13

Date and Station		Phase (GCT)
		h m s
Aug. 11, cont.		
TUC, cont.		
	eP	14 51 03
	e	51 24
	eL	15 16 06
UK	eL	15 19 21
Aug. 11, H = 15 00 43* 15°S, 173½°W. Samoa Islands. Felt in Apia. h = about 60 km.		
BC	iP	15 12 27
	i	12 33
COL	iP	15 13 04.5
	ePPP	18 07
	eL	39 00
HH	iP	15 13 05
	i	13 31
	e	13 49
	e	14 13
	e	14 37
LOG	iP	15 12 54
OV	iP	15 12 35
PF	iP	15 12 32
	i	12 43
SH	iP	15 12 14.5
	i	12 32
TUC	iP	15 12 34
	e	12 52
	e	12 59
Aug. 11		
TUC	e	16 09 33
Aug. 11		
COL	e	17 13 56
HH	eP	17 16 58
Aug. 11		
HH	eP	19 44 20
TUC	e	19 41 31

Date and Station		Phase (GCT)
		h m s
Aug. 11		
SH	iP	20 07 25
Aug. 11		
SH	iP	21 54 54
Aug. 11		
HH	eP	23 21 46
SH	iP	23 16 49
Aug. 12		
COL	e	07 06 51
OV	iP	07 07 45
SH	iP	07 07 34
TUC	eP	07 07 44
Aug. 12, H = 07 38 33** Turkistan.		
COL	eP	07 49 35
HH	iP	07 51 31.5
SH	eP	07 51 58.5
Aug. 12		
TUC	e	12 44 37
Aug. 12		
BC	iP	13 47 48.5
	i	47 50
	e	48 05.5
	iS	48 08.5
PF	e	13 47 58.5
	i(S)	48 23.5
Aug. 12		
BC	e	15 13 25.5
	e	13 30.5
	e	13 58.5
COL	eP	15 15 34
PF	e	15 13 38.5
TUC	e	15 14 42

Date and Station		Phase (GCT)
		h m s
Aug. 12		
COL	eP	16 20 00
	e	20 05
HH	iP	16 22 26
Aug. 12		
COL	eP	16 30 10
Aug. 12		
OV	iP	17 35 40
SH	iP	17 35 29.5
TUC	e	17 35 38
Aug. 12		
OV	iP	19 27 27
Aug. 12		
BER	eL	19 56 06
BC	e	19 54 11
COL	e	19 54 38
HH	iP	19 54 11
OV	eP	19 54 09
PF	e	19 54 07
SH	iP	19 54 43
TUC	e	19 53 50
Aug. 12, H = 23 15 49* $14\frac{1}{2}$°S, 167°E. New Hebrides Islands.		
BC	iP	23 28 32.5
	i	28 50
	i	29 03
	ePP	32 04
COL	eP	23 28 17
	e	28 43
	i	28 54
HONO	eS	23 32 14
	e(SS)	36 38
	eL	37 34

Date and Station		Phase (GCT)
		h m s
Aug. 12, cont.		
HH	eP	23 28 51
	ePP	32 41
	ePKKP	45 53
	eP'P'	54 09
LOG	eP	23 29 07
	ePP	32 31
OV	iP	23 28 35
PF	eP	23 28 34
	i	28 43
	e	29 48
	ePP	32 09
SH	eP	23 28 13
	e	28 47
	e	29 18
	e	29 40
	ePP	31 32
TUC	eP	23 28 42
	e	29 11
	ePP	32 18
	eL	57 03
Aug. 12		
HH	eP	23 45 55
Aug. 12		
SH	eP	23 50 56
Aug. 12		
HH	eP	23 54 12
Aug. 13		
COL	iP	00 35 28
	i	35 34
	eS	35 56
	i	36 07
	iL	36 40
Aug. 13		
HH	iP	02 08 36
SH	iP	02 08 55

Date and Station		Phase (GCT)
		h m s
Aug. 13		
COL	eP	04 57 21
	iP	57 22
	e(S)	57 40
	e(L)	57 49
Aug. 13		
OV	eP	05 50 48
Aug. 13		
COL	iP	06 36 32.5
	iL	37 24
Aug. 13		
HH	iP	09 12 47
Aug. 13		
HH	eP	09 24 53
OV	e	09 23 43
TUC	e	09 23 15
Aug. 13		
OV	e	09 29 23
TUC	e	09 29 24
Aug. 13		
COL	e	10 47 55
SH	eP	10 47 35
Aug. 13		
TUC	e	16 37 45
Aug. 13		
BC	eP	17 38 22
	e	38 35
OV	eP	17 38 35
PF	eP	17 38 18
	e	38 31
TUC	e(P)	17 37 39
	e	37 51
Aug. 13		
HH	eP	18 28 01

Date and Station		Phase (GCT)
		h m s
Aug. 13, H = 18 24 51* 0°, 146½°E. Admiralty Islands region. Mag. 6½		
BER	e	18 47 02
	ePP	47 08
	e(SKS)	52 04
	eSS	19 04 15
	eSSS	09 21
	eL	20 25
T_L = 20 sec. A = 0.3 mm.		
BC	eP	18 30 27
	e	30 48
	ePP	42 28
BOZ	ePP	18 42 38
	eSKS	49 13
	eS	50 04
	ePS	51 27
	eSS	56 33
	eL	19 04 30
BUT	ePP	18 42 25
	eSKS	49 09
	e	54 45
	eL	19 04 51
CHI	eP'	18 43 18
	e	55 14
	e(SS)	19 01 34
	eL	13 02
COL	eP	18 36 59
COLU	eL	19 00 16
HONO	e(P)	18 35 02
	eS	42 45
	eL	48 38
HUAN	eP'	18 44 13
	iPP	47 05
	e	52 40
	i(SKKS)	53 16
Aug. 13, cont. HUAN, cont.		
	e	18 55 45
	e	56 32
	ePPS	59 30
	eSS	19 04 30
	e	05 03
	eSSS	09 50
	e	12 05
	eL	22 25
HH	iP	18 38 22
	i	38 38
	i	38 46
	e	40 03
OV	eP	18 38 27
	e	38 31
PHIL	e(P')	18 43 45
	ePP	45 40
	eSKKKS	52 49
	ePS	55 39
	eSS	19 02 14
	e	02 41
	eL	16 40
PF	eP	18 38 29
	e	38 45
	e	41 27
	ePP	42 44.5
RC	eP	18 38 57
	eSKS	49 40
	e(SSS)	19 01 40
SLC	ePP	18 42 36
	eSKS	49 12
	ePS	51 29
	eSS	56 49
	eL	19 06 42
SJ	eP'	18 44 39
	e	46 12
	ePP	47 40
	eSS	19 05 58
SH	eP	18 37 57
Aug. 13, cont. SIT	eP	18 37 23
	iS	47 47
	ePS	48 37
	eSS	53 15
	e(SSS)	57 11
	eL	59 10
TUC	eP	18 38 53
	e	39 56
	e	42 21
	ePP	42 56
	e(PPP)	45 28
	eSKS	49 20
	e(PS)	51 50
	e	52 01
	eL	19 06 25
UK	eS	18 48 54
	eL	19 01 41
Aug. 13 TUC	e	23 42 35
	eL	00 13 57
Aug. 14 HH	iP	03 33 00
Aug. 14 TUC	e	05 18 03
Aug. 14 HH	e(P)	07 51 23.5
Aug. 14 TUC	e	10 41 44
	e(S)	42 28
	eL	42 46
Aug. 14 TUC	e	11 22 13
Aug. 14 HH	eP	12 51 41

Date and Station		Phase (GCT) h m s
Aug. 14		
COL	e	15 07 35
	e	07 39
Aug. 14		
OV	iP	17 14 08
PF	e	17 14 06
TUC	eP	17 14 05
Aug. 14		
TUC	eP	17 40 14
Aug. 14		
HH	iP	18 51 37
TUC	e	18 51 45
Aug. 14		
TUC	eP	20 40 30
Aug. 14		
TUC	eP	22 10 52
Aug. 15		
TUC	e	00 10 05
Aug. 15		
SH	eP	07 29 27
TUC	e	07 31 15
Aug. 15		
HH	iP	08 02 54
Aug. 15		
TUC	e	12 08 02
Aug. 15		
COL	eP	15 46 57
	i	47 05.5
	eS	47 32
	i	47 38.5
	iL	47 48.5
Aug. 15		
HH	e	16 03 54
Aug. 15		
TUC	e	20 26 06

Date and Station		Phase (GCT) h m s
Aug. 15, cont.		
HUAN	e	20 24 00
	e	29 12
	eS	29 17
	e	32 03
	eL	34 00
HH	eP	20 27 40
SH	eP	20 27 04
Aug. 15		
HH	eP	21 27 09
SH	iP	21 25 13
TUC	e	21 36 57
Aug. 16		
HH	iP	01 08 46
TUC	e	01 07 06
	e	11 11
Aug. 16		
HH	eP	08 50 09
Aug. 16		
HH	iP	09 30 15
Aug. 16, H = 11 48 53** Southern Baluchistan.		
COL	iP	12 01 33
	e	04 38.5
Aug. 16		
HUAN	e	16 02 00
	e(S)	03 30
	e	03 40
	eL	03 52
Aug. 16		
COL	e	20 20 29
Aug. 16, H = 20 51 40** Northern Peru.		
COL	e	21 00 20
Aug. 16		
CHI	eL	21 54 09

Date and Station		Phase (GCT) h m s
Aug. 16, cont.		
HH	iP	21 02 04.5
SH	iP	21 01 59
TUC	eP	21 00 28
Aug. 16		
OV	iP	22 49 56
Aug. 17		
BC	eP	01 21 02
HH	iP	01 21 58
SH	e	01 21 03
	e	21 11
TUC	eP	01 20 21
Aug. 17		
TUC	eP	01 33 33
Aug. 17		
SH	iP	02 33 51
	i	33 59
	i	33 07
Aug. 17		
BC	iP	03 27 14
	i	27 51
COL	e	03 25 30
HH	iP	03 26 50
	i	27 27
OV	iP	03 27 14
PF	iP	03 27 16
SH	iP	03 26 35
	i	27 12
	i	27 18
TUC	iP	03 27 36
Aug. 17		
HH	eP	03 33 32

Date and Station		Phase (GCT)
		h m s
Aug. 17		
BC	iP	04 05 59
OV	eP	04 05 58
PF	eP	04 06 01.5
SH	eP	04 04 56
TUC	e	04 06 37
Aug. 17, H = 05 14 19 By PAS, 34°00'N, 117°12'W. East of Riverside, Calif. Felt. Mag. 3.4		
BC	iP	05 15 03
	i	15 10
	iS	15 34
	iL	15 46
PF	iP	05 15 11
	iL	15 59
TUC	eP	05 15 56
	e	16 03
	e	16 08
	e(S)	17 06
	eL	17 18
Aug. 17		
OV	iP	07 01 02
TUC	e	07 01 02
Aug. 17		
COL	e	07 26 52
	i(L)	27 59
Aug. 17		
TUC	e	08 33 28
	e	38 31
Aug. 17		
COL	iP	16 09 36.5

Date and Station		Phase (GCT)
		h m s
Aug. 17, cont.		
PF	e	16 10 40
Aug. 17		
HH	eP	17 33 27.3
Aug. 17		
COL	eP	17 56 02
Aug. 17, H = 18 34 09* 43°N, 146°E. Near east coast of Hokkaido, Japan. h = about 100 km. Mag. 6½		
BC	iP	18 45 31
	ipP	46 02
BOZ	eP	18 45 06
	iS	54 04
BUT	eP	18 44 53
	iS	53 45
COL	iP	18 41 57.5
	ipP	42 18
	i	45 34.5
HH	iP	18 44 45
	epP	45 05
	ePPP	48 48
	eS	53 19
	eScS	54 33
LOG	eP	18 45 15
	epP	45 34
	e(S)	54 25
	esS	54 55
	eSS	19 09 14
	eL	21 58
OV	eP	18 45 31
PF	iP	18 45 33
	ipP	45 56
SLC	eP	18 45 23
	eS	54 25
	e	55 24
	eSS	59 18
	eL	19 08 16

Date and Station		Phase (GCT)
		h m s
Aug. 17, cont.		
SJ	ePP	18 53 19
	e	57 54
	e	58 23
	eS	19 00 43
SH	iP	18 44 43.5
	esS	53 56
SIT	iP	18 42 58
	ipP	43 14
	e	44 30
	e(PPP)	46 06
	i(S)	50 05
TUC	iP	18 46 00
	iPcP	46 10
	ipP	46 20
	iS	55 47
	epS	56 11
UK	e(S)	18 53 28
	eL	19 16 45
Aug. 17, H = 18 43 13* 39°N, 40½°E. Eastern Turkey. 320 killed. Aga Kevy destroyed. Also destructive in Erzurum, Karilova, and Bingel. Mag. 6-3/4		
BER	e(P)	18 56 41
	e(S)	19 06 49
	e(SS)	12 30
	eL	17 35
BC	iP	18 58 13
	ePP	19 02 16
	i	02 23
BOZ	e(P)	18 58 12
	eSKS	19 08 10
	e	09 38
	ePPS	10 05
	e	15 17
	eL	27 50

Date and Station		Phase (GCT) h m s
Aug. 17, cont.		
BUT	e	18 58 37
	eSKS	19 08 06
	ePS	09 21
	e(SS)	14 53
	eL	30 25
CHI	eP	18 56 43
	e(PP)	19 00 45
	eS	07 21
	ePPS	08 55
	e	12 08
	e	13 02
	e	14 04
	eL	20 04
COL	iP	18 56 02
	i(PP)	58 49
COLU	eP	18 57 12
	eSKS	07 40
	eSS	13 43
	eL	22 06
HONO	e(SS)	19 21 15
	e	26 38
	eL	32 25
HUAN	ePP	19 04 16
	e	04 50
	e	07 34
	eSKS	10 00
	e(S)	12 10
	ePS	14 02
	eSS	19 56
	eSSS	24 40
	e	28 02
	eL	31 45
HH	iP	18 57 13
	e	19 07 12
	eScS	08 11
	eSS	13 25
	e	13 42
	e(P'P')	22 43
LOG	eP	18 45 14
	iP	45 15
	i	45 35
	e	57 34
	e	19 01 26

Date and Station		Phase (GCT) h m s
Aug. 17, cont.		
NK	e	18 57 22
	e	19 02 44
	eS	07 06
	e(PPS)	08 24
	eL	27 25
LIN	ePP	19 00 47
	eSKS	07 47
	eL	21 09
OV	iP	18 58 10
PHIL	eP	18 56 24
	e	57 43
	ePP	59 45
	eS	19 06 44
	eSS	12 07
	e	16 19
	eL	19 01
PF	iP	18 58 10.5
	iPP	19 02 17
	e	06 09
SJ	eP	18 57 24
	e	19 01 46
	eSKS	07 50
	eL	24 35
SH	eP	18 57 48
	e	57 52
	e	58 25
	ePP	19 01 56
SIT	eP	18 56 47
	e	19 00 24
	iS	07 10
	iPS	07 47
	i	09 09
	eSS	12 32
	eL	18 25
TUC	eP	18 58 23
	e	19 01 14
	eSKS	09 09
	eS	10 10
	ePS	11 41
	eSSS	21 24
	eL	31 47

Date and Station		Phase (GCT) h m s
Aug. 17, H = 20 45 22* 39°N, 40½°E. Eastern Turkey aftershock.		
COL	i	20 57 11
HH	eP	20 58 22
PF	iP	20 58 57
SH	e	20 59 07
Aug. 18		
HH	eP	01 58 20
Aug. 18		
BC	iP	02 34 57
	i	35 06
	i	35 13
OV	iP	02 34 55
PF	iP	02 35 00
	i	35 09
TUC	iP	02 35 38
	i	35 47
	e	37 41
Aug. 18		
TUC	e	04 42 03
Aug. 18		
SH	e	05 34 47
Aug. 18		
COL	eP	08 03 27
HH	iP	08 07 43
Aug. 18, H = 09 58 12** Bonin Islands. h = about 400 km.		
BC	iP	10 10 05
	i	10 27
COL	iP	10 07 14
HH	iP	10 09 33

Date and Station		Phase (GCT)
		h m s
Aug. 18, cont.		
LOG	iP	10 09 50
OV	iP	10 10 05.5
	ePP	13 28
PF	iP	10 10 08
	isP	11 44.5
	iPP	13 31.5
SH	iP	10(09 26)
	i	(09 31)
	i	(11 02)
TUC	iP	10 10 29
	ePP	14 06
Aug. 18		
COL	i	11 08 09
	i	08 18
Aug. 18		
COL	eP	11 24 52
SH	e	11 23 54
Aug. 18		
COL	eP	12 25 20
	i	25 40.5
HH	iP	12 28 46.5
	i	29 12.5
OV	eP	12 29 59
PF	iP	12 30 02
SH	e	12 28 49
TUC	eP	12 30 33
Aug. 18, H = 13 33 25* 8½°N, 83°W. Off south coast of Panama. Mag. 6½		
BH	eP	13 34 16
	eS	35 07

Date and Station		Phase (GCT)
		h m s
Aug. 18, cont.		
BER	eP	13 39 35
	eS	44 20
	eL	46 45
BC	eP	13 41 01
	iP	41 04
BOZ	iS	13 48 12
	eL	57 18
CHI	eP	13 40 09
	ePP	41 21
	eS	45 29
	eL	48 37
COL	eP	13 44 48
	i	45 08.5
	ePP	47 26
COLU	eP	13 38 54
	eS	43 18
	eL	44 59
HUAN	iP	13 38 20
	iPP	38 50
	i	39 10
	i	39 14
	eS	42 16
	iS	42 21
	iL	42 50
HH	iP	13 42 01
	e	42 32.5
NK	e	13 40 40
	e(S)	44 53
	eL	47 49
LOG	eP	13 41 13
	ePP	43 04
	eS	47 27
	eL	50 55
OV	eP	13 41 02
	iP	41 03
PHIL	e	13 44 44
	eS	45 10
	eL	46 43

Date and Station		Phase (GCT)
		h m s
Aug. 18, cont.		
PF	eP	13 40 57
	i	42 00
	iPcP	43 05
SLC	eL	13 50 37
SJ	iP	13 37 49
	i	41 03
	iS	41 24
	i	42 00
	eL	42 50
SH	iP	13 41 58
	i	42 00
	i	42 12
	ePcP	43 31
SIT	e(P)	13 44 03
	e(S)	52 38
	e(SS)	56 56
	eL	14 02 20
TUC	iP	13 40 21
	i	40 42
	iPP	40 55
	ePPP	41 40
	i	42 53
	e(S)	45 53
	eL	48 47
UK	e(S)	13 49 20
	eL	14 00 06
Aug. 18, H = 14 25 16 By BERK, 38.8°N, 118.6°W. East of Walker Lake, Nev. Mag. 3.7		
BC	eP	14 26 31
OV	i(P)	14 26 31
PF	eP	14 26 33
	e	26 39
	iS	27 39

Date and Station		Phase (GCT) h m s
Aug. 18, cont.		
SH	iP	14 26 10
	i	26 21
	iL	27 04
Aug. 18		
OV	iP	15 07 34.5
SH	eP	15 07 13
Aug. 18, H = 20 31 16* 52°N, 175½°W. Andreanof Islands, Aleutian Islands.		
COL	eP	20 35 47
HH	iP	20 38 42
TUC	e	20 40 13
Aug. 19		
HH	i	00 41 24
Aug. 19		
OV	eP	01 04 21
Aug. 19, H = 08 25 31* 18°S, 175½°W. Tonga Islands. h = about 60 km.		
BC	iP	08 37 30.5
	iPcP	37 40
COL	iP	08 38 09
	ipP	38 28
HH	iP	08 38 08
LOG	eP	08 37 51
	epP	38 11
OV	iP	08 37 35
PF	iP	08 37 34.5
	i	37 48
	ipP	37 56.5
	esP	38 08.5
SH	iP	08 37 20
	i	37 23.5

Date and Station		Phase (GCT) h m s
Aug. 19, cont.		
TUC	iP	08 37 35
Aug. 19		
TUC	e	09 46 14
	e	46 25
	eS	47 23
	eL	47 39
Aug. 19		
BC	iP	10 58 02
	i	58 09
	iS	58 31
	i	58 44
	i	59 34.5
PF	iP	10 58 40
	i	58 49.5
	iS	59 14
	i	59 31
	i	11 00 06
Aug. 19		
COL	eP	12 19 40
Aug. 19		
COL	eP	13 17 55.5
Aug. 19		
HH	iP	16 46 18
Aug. 19		
HH	iP	19 24 00
SH	iP	19 23 56
Aug. 19		
OV	e(P)	22 35 09
	e	36 00.5
PF	e	22 35 23
	e	35 58

Date and Station		Phase (GCT) h m s
Aug. 20		
COL	e	00 14 25
Aug. 20, H = 01 56 09** Kurile Islands region.		
BC	eP	02 06 55.5
COL	iP	02 03 06
	e	03 29
HH	eP	02 06 04
	e	07 02
OV	iP	02 06 55
PF	iP	02 06 58
	i	07 02
SH	iP	02 06 05
	e	06 22
	i	08 57
TUC	eP	02 07 26
	iP	07 27
	e	07 36
Aug. 20		
BC	e	04 09 59
HH	e	04 09 54
OV	eP	04 09 57
PF	e	04 09 52
SH	eP	04 10 29
	i	10 38
TUC	e	04 09 35
Aug. 20		
SH	eP	05 05 24
Aug. 20		
COL	eP	08 31 24
Aug. 20		
BH	iP	09 00 22
	iS	01 05
HH	eP	09 08 00

Date and Station		Phase (GCT)
		h m s
Aug. 20		
PF	e	11 06 20
	e	06 30
Aug. 20		
COL	e	11 33 38
HH	iP	11 35 55
	i	36 05
	i	36 30
SH	iP	11 35 35
Aug. 20		
COL	eP	13 57 35
Aug. 20		
OV	e(P)	14 53 01
	iP	53 07.5
Aug. 20		
COL	e	15 15 43
Aug. 20		
COL	i	18 46 21
Aug. 20		
PF	e(P)	20 38 34
Aug. 20		
COL	e	21 08 05
Aug. 21, H = 03 46 25** Kurile Islands region.		
BC	eP	03 57 05
COL	eP	03 53 05
HH	iP	03 56 10
OV	eP	03 57 02
PF	eP	03 57 14.5
	e	57 33
SH	iP	03 56 12
	i	56 16
TUC	eP	03 57 36

Date and Station		Phase (GCT)
		h m s
Aug. 21, H = 05 38 23 By PAS, 37°04'N, 117°31'W. Death Valley, Calif. Mag. 3.8		
TUC	iP	05 40 10
	i	40 37
	i	40 44
	eS	41 30
	iL	41 41
Aug. 21		
BC	e	08 45 37
COL	eP	08 46 16.5
	e	46 33.5
HH	iP	08 46 14.5
OV	eP	08 45 41
PF	e	08 45 45
SH	iP	08 45 25
	i	45 35
TUC	e	08 45 39
Aug. 21, H = 08 45 52** Tonga Islands region.		
BC	eP	08 57 56
COL	iP	08 58 33.5
	i	58 50
HH	iP	08 58 33
	i	58 50
OV	eP	08 58 01
PF	iP	08 58 06
	e	58 22
SH	iP	08 57 44
	e	57 58
	i	58 00.5
TUC	iP	08 58 01
	e	58 18

Date and Station		Phase (GCT)
		h m s
Aug. 21, H = 11 45 20 By BERK, 40°17'N, 121°10'W. Mag. 3.9		
HH	eP	11 47 42
PF	eP	11 47 13
	eL	49 07
SH	iP	11 45 37
Aug. 21		
PF	e	11 53 36
Aug. 21		
HH	eP	13 09 35
	e	09 37
Aug. 21		
HH	iP	15 15 28.8
OV	e	15 15 19
PF	e	15 15 03
	e	15 20
TUC	eP	15 15 39
Aug. 21, H = 20 33 31* 10½°N, 62½°W. Near north coast of Venezuela. h = about 100 km.		
BC	iP	20 42 46
COL	iP	20 45 23
HH	iP	20 43 09
	i	43 36
LOG	eP	20 42 39
	e	50 32
OV	iP	20 42 46.5
PF	iP	20 42 32.9
	e	43 09
SJ	eP	20 35 36
	eS	37 16
	eL	38 04

Date and Station		Phase (GCT)
		h m s
Aug. 21, cont.		
TUC	eP	20 42 13
	i	42 36
	e	47 19
Aug. 21		
COL	eP	20 48 23
	iP	48 24
Aug. 21, H - 20 48 16 By BERK, 40°16'N, 121°14'W. Near Lake Almanor, Calif. Felt. Mag. 4.5		
BC	i	20 49 58.5
	e	50 05
	i	50 30.5
	i(S)	51 56
HH	e	20 50 40
	i	51 16
	e	51 37
	e	53 10
OV	iP	20 47 38
	e	49 56
PF	e(P)	20 50 03
	i	50 05
	i	50 31
	i(S)	52 00
SH	iP	20 48 34
	iS	48 46
UK	i	20 49 02
	e	49 08
	e	49 22
	e	49 31
Aug. 21		
COL	e	22 20 21
	e	21 38
Aug. 22		
HH	eP	01 02 42
	i(pP)	02 51
	i	02 56
	e	06 37

Date and Station		Phase (GCT)
		h m s
Aug. 22, H = 01 51 56 By PAS, 33°56'N, 116°00'W. Pinto Basin, Calif. Mag. 3.0		
BC	eP	01 52 32.5
	eS	53 04
PF	e(P)	01 52 49
	eL	53 24
TUC	e(P)	01 53 17
	e	53 25
	e(S)	54 16
	iL	54 29
Aug. 22, H = 02 41 38 By PAS, 33°57'N, 115°55'W. Pinto Basin, Calif. Mag. 3.0		
BC	e	02 42 19
	eL	43 02
PF	eP	02 42 26
	eL	44 40
Aug. 22, H = 03 16 33** New Britain region.		
BC	iP	03 29 53
	i	30 08
COL	iP	03 28 54
	i	29 10
HH	iP	03 29 57
	e	30 17
	e	30 35
	e	31 33
OV	iP	03 29 55
PF	eP	03 29 15
	i	29 26
SH	iP	03 29 27
TUC	eP	03 30 09
	ePP	33 54

Date and Station		Phase (GCT)
		h m s
Aug. 22, H = 04 01 12* 54°N, 133°W. Queen Charlotte Islands. Felt in Portland, Oreg., to southern Alaska. 2-ft. tidal wave at Ketchikan, Alaska. Mag. 8.1		
BH	e	04 11 40
	eS	20 00
BER	eP	04 10 34
	iP	10 39
	iS	17 59
	iL	21 41
T_P = 6 sec. A = 6.3 mm. T_S = 18 sec. A = 27 mm. T_L = 15 sec. A_{max} = 114 mm. T_L = 20 sec. A = 79 mm.		
BC	eP	04 06 08
	i	06 18.5
	i(S)	10 20
	i	12 54.5
BOZ	iP	04 05 04
	eS	07 59
	iS	08 05
	eL	08 41
BUT	iP	04 04 40
	iS	07 25
	iL	08 11
CHI	iP	04 07 42
	iPP	08 56
	iS	12 51
	eL	14 14
COL	eP	04 04 21.5
	iP	04 22
COLU	eP	04 08 59
	i	09 20
	iPP	10 44
	iS	15 14
	i	15 22
	iL	17 59

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
HONO	eP	04 08 28
	e	09 33
	iPP	09 51
	e	10 07
	i	13 06
	eS	14 24
	iS	14 26
	i	15 58
	iL	16 57
HUAN	iP	04 13 43
	i	23 17
	i	28 40
	iL	34 40
HH	iP	04 04 21
	i	05 53
NK	iP	04 08 30
LIN	eL	04 12 00
LOG	iP	04 05 30
OV	iP	04 06 05
PHIL	iP	04 08 55
	iPP	10 36
	iS	15 05
	eL	18 13
PF	iP	04 06 11.5
	i	06 23
	i	09 42.5
	iL	12 26
RC	iP	04 06 08
SLC	iP	04 05 42
	iS	09 21
SJ	eP	04 11 33
	iP	11 36
	i(PP)	14 13
	i	15 35
	i(S)	20 00
	e	25 46
	eL	28 52

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
SH	iP	04 04 46
	iS	07 12
	i	08 09
	iL	08 45
SIT	iP	04 01 04
TUC	eP	04 06 55
	iP	06 56
	i	10 41
	iS	11 20
	i	11 43
	iL	12 15
UK	iP	04 05 02
	iS	08 01
	eL	09 21
Aug. 22		
PF	e	05 54 45
Aug. 22		
COL	e	05 56 45
	eL	06 00 34
SIT	eP	05 54 45
	eS	55 22
	eL	55 52
Aug. 22		
HH	iP	06 10 30
SIT	eP	06 07 50
	eS	08 30
	eL	08 45
Aug. 22		
COL	iP	06 19 25
	i	19 59
	eS	21 26
	eL	22 39
Aug. 22		
BC	eP	06 22 00
BUT	eL	06 25 05

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
HH	iP	06 20 11
	i	20 51
	i	21 11
PF	eP	06 22 03
	ePP	22 38
	e	23 14.5
SH	iP	06 20 43.5
	i	20 50.5
	i	21 17.5
	i	21 52.5
SIT	eP	06 17 13
TUC	eP	06 22 43
	i	23 18
Aug. 22		
COL	iP	06 35 48.5
	i	36 19
Aug. 22		
HH	iP	06 38 58
OV	iP	06 39 44
SH	iP	06 38 43
	i	49 27
	i	49 37
	i	50 40
SIT	e(P)	06 34 30
	eS	35 10
	eL	35 28
TUC	iP	06 40 21
	i	40 38
	i	41 12
Aug. 22		
SIT	e	06 50 52
	eS	51 09
Aug. 22		
HH	iP	06 56 55
	i	57 05
	i	57 10

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
HH, cont.	i	06 57 23
	i	58 13
	i	07 00 55
PF	e	06 58 48.5
Aug. 22		
SIT	e(P)	07 02 46
	eS	03 25
	eL	03 49
Aug. 22		
SIT	e(P)	07 22 02
	eS	22 42
	eL	22 56
Aug. 22, H = 07 11 40** Southern Peru. h = about 100 km.		
BC	iP	07 22 32.5
	e	23 01.5
HH	eP	07 23 19
	i	23 50
	i	24 52
	e	28 35
OV	iP	07 22 35
PF	iP	07 22 30
	e	23 10
SH	iP	07 23 14
	i	23 44.5
	e	24 14.5
TUC	iP	07 22 01
Aug. 22		
BC	i	07 39 43
PF	i	07 39 46.5
	e	40 22
Aug. 22		
COL	eP	07 53 23
	eL	56 27

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
HH	eP	07 53 42
	i	53 50
	e	57 36
PF	e	07 55 55
SH	e	07 54 10
SIT	e(P)	07 51 10
	eS	51 49
	eL	52 12
Aug. 22		
COL	eP	08 16 08
	e	17 11
HH	eP	08 17 18.8
Aug. 22		
COL	e	08 21 15
	eL	25 06
PF	eP	08 23 43
SIT	e(P)	08 19 26
	eS	20 14
	eL	20 58
Aug. 22, H = 08 51 18* 37°S, 18°W. South Atlantic Ocean, near Tristan da Cunha.		
BER	eP	09 04 02
	eS	14 11
	eSS	19 11
	eL	25 35
BC	ePP	09 11 05
HH	eP'	09 10 12
	ePP	11 52
	e	15 35
OV	ePP	09 10 59
PF	ePP	09 11 03
SH	eP'	09 10 19

Date and Station		Phase (GCT) h m s
Aug. 22, cont.		
TUC	e	09 09 23
	e	10 32
Aug. 22		
SIT	eP	09 09 22
	eS	10 02
	eL	10 19
Aug. 22, H = 09 15 20** Queen Charlotte Islands aftershock.		
COL	e	09 18 20
	eS	20 18
	eL	21 08
HH	eP	09 18 40
	i	18 49
	e	22 44
LOG	eP	09 20 51
	eL	26 04
OV	eP	09 20 24
PF	e	09 20 30
SH	i	09 19 11
TUC	e	09 21 12
Aug. 22		
OV	eP	09 30 05
Aug. 22		
OV	iP	10 42 15
Aug. 22		
OV	iP	10 54 05
	i	56 00
Aug. 22, H = 11 41 23** Bonin Islands region.		
COL	eP	11 51 20
	iP	51 21
	e	51 34
HH	iP	11 53 35
PF	iP	11 54 07

Date and Station		Phase (GCT)
		h m s
Aug. 22, cont.		
SH	iP	11 53 25.7
Aug. 22, H = 12 22 05** Queen Charlotte Islands aftershock.		
BOZ	eL	12 33 42
BUT	eL	12 30 55
CHI	eL	12 39 34
COL	eP	12 24 21
	i	24 49
	eS	26 21
	eL	27 26
HH	eP	12 25 15
	eS	27 36
	e	29 39
LOG	eP	12 26 29
	e	27 02
	eS	33 04
	eL	34 08
OV	eP	12 27 04
PHIL	eL	12 43 29
PF	eP	12 27 07.5
	e	27 37
RC	e	12 40 10
	i(S)	40 39
	eL	42 30
SH	eP	12 25 49
	e	26 07
SIT	i	12 22 07
	i	22 17
TUC	eP	12 27 51
	e	28 23
Aug. 22		
HH	eP	13 27 47

Date and Station		Phase (GCT)
		h m s
Aug. 22, H = 13 40 20** Queen Charlotte Islands aftershock.		
BOZ	eL	13 49 24
BUT	eL	13 48 11
CHI	eL	13 57 30
COL	eP	13 44 21
	i	44 39
	e	46 31
	e(S)	47 44
HH	iP	13 43 40
	i	44 24
	eL	47 29
LOG	e(P)	13 44 58
	eS	48 00
	eL	50 24
PHIL	eL	14 01 45
PF	eP	13 45 29
RC	eL	13 52 27
SH	eP	13 44 10
	e	44 40
SIT	e(P)	13 40 28
	eS	41 10
	iL	41 32
TUC	eP	13 46 13
Aug. 22		
COL	iP	15 06 17
	i	06 51
HH	iP	15 05 28
	e	34 45
OV	iP	15 05 14.5
SH	iP	15 05 24
	i	05 29
TUC	iP	15 05 04

Date and Station		Phase (GCT)
		h m s
Aug. 22		
SH	eP	15 14 37
	e	15 02
Aug. 22		
HH	eP	15 34 30.6
Aug. 22		
HH	iP	17 43 44
	i	43 56
PHIL	eL	18 02 28
SH	e	17 44 09
Aug. 22		
HH	eP	18 20 54
	iP	20 56
	e	24 28
	e	25 40
SH	e	18 21 17
Aug. 22		
BUT	eL	19 53 49
CHI	eL	20 03 08
HH	iP	19 48 51
	iL	52 49
LOG	eP	19 50 13
	eL	56 03
PHIL	eL	20 06 54
SH	eP	19 49 18
	e	49 50
	e	50 11
TUC	eP	19 51 28
Aug. 22		
HH	eP	20 22 18.5
Aug. 22, H = 20 26 08* 14°S, 14°W. South Atlantic Ocean, about 375 miles south of Ascension Island.		

Date and Station		Phase (GCT)
		h m s
Aug. 22, cont.		
HUAN	eL	20 58 05
Aug. 22		
BUT	eL	21 48 49
HH	e(P)	21 43 37
SH	e	21 44 12
Aug. 22		
BC	e	22 36 58
	e	37 07
	i	37 21.5
	e	38 11.5
Aug. 22		
OV	eP	22 50 42
Aug. 23		
HH	eP	00 40 19
Aug. 23		
HH	eP	01 20 15
Aug. 23		
BUT	eL	02 45 04
Aug. 23		
BC	e	02 55 59
SH	eP	02 56 22
Aug. 23, H = 02 59 02** Queen Charlotte Islands aftershock.		
BER	eL	03 28 35
BOZ	eL	03 08 20
BUT	eL	03 07 23
CHI	eL	03 16 28
COL	iP	03 03 00
	e	05 30
	eS	06 06
	eL	06 32
NK	eL	03 18 44

Date and Station		Phase (GCT)
		h m s
Aug. 23, cont.		
LOG	eP	03 03 37
	e	03 42
	eL	07 37
OV	eP	03 04 14
	e	04 17.5
PHIL	eL	03 20 15
RC	i(P)	03 04 13
	e(S)	08 15
	eL	10 45
SLC	eL	03 09 38
SH	eP	03 02 58
	e	03 03
	e	03 26
TUC	eP	03 05 00
	e	08 29
	eL	16 16
Aug. 23		
SIT	iP	03 59 43
	eS	04 00 22
	iS	00 23
	iL	01 16
Aug. 23		
HH	eP	06 20 17
Aug. 23		
HH	eP	13 01 07
Aug. 23		
COL	eP	13 17 51
	eL	21 35
Aug. 23		
HH	iP	13 43 41
Aug. 23		
HH	iP	14 18 10
	epP	18 19
OV	eP	14 20 00
SH	e	14 18 38

Date and Station		Phase (GCT)
		h m s
Aug. 23, H = 15 13 44* 16°S, 73°W. Southern Peru. h = about 150 km.		
BER	eP	15 21 25
	eS	29 26
	e(SS)	32 20
	eL	34 29
BC	eP	15 24 10
	ePcP	24 31
	epP	24 48
CHI	eS	15 31 31
	e	33 16
	e	37 50
	eL	42 35
COL	eP	15 27 04
COLU	e	15 34 11
	eL	39 43
HUAN	iP	15 14 46
	i	15 16
	iS	15 43
HH	i	15 25 33
	ipP	25 41
	isP	26 10
LOG	eP	15 24 25
OV	eP	15 24 12
	iP	24 13
PHIL	e(P)	15 22 59
	ePP	25 10
	eS	30 41
	i	31 13
	e(ScS)	32 50
	eL	37 18
SJ	eP	15 20 35
	eS	25 49
	eL	28 39
SH	iP	15 24 55
	iPcP	25 20
	i	25 26
	ipP	25 50

Date and Station		Phase (GCT)
		h m s
Aug. 23, cont.		
SIT	eL	16 04 48
TUC	eP	15 23 35
	epP	24 05
	e	31 50
	eScS	33 24
	eL	43 33
UK	eL	15 50 23
Aug. 23		
COL	eP	17 11 18
Aug. 23		
SH	eP	18 21 50
Aug. 23		
SH	iP	18 47 48
Aug. 23, H = 19 37 00** Queen Charlotte Islands aftershock. Felt. Mag. 6¼		
BC	eP	19 42 14
BOZ	eL	19 45 51
BUT	eL	19 44 46
COLU	e	19 59 10
HH	iP	19 40 29
LOG	eL	19 47 31
NK	eL	19 53 38
OV	iP	19 42 10
TUC	eP	19 43 04
Aug. 23, H = 19 43 35** Queen Charlotte Islands aftershock.		
BER	eL	20 04 21
BC	eP	19 48 17.5
	e	48 31.5
	e	48 53.5

Date and Station		Phase (GCT)
		h m s
Aug. 23, cont.		
BOZ	eL	19 51 41
BUT	eS	19 50 34
	eL	51 12
CHI	eL	20 00 04
COL	e	19 45 11
	eL	48 05
COLU	eL	20 04 29
HONO	eL	19 59 18
HH	iP	19 47 04
LOG	eL	19 52 40
NK	e(S)	19 57 38
	eL	20 02 48
OV	eP	19 48 14
PHIL	e	19 52 42
	e(S)	58 14
	e	59 14
	eL	20 04 21
SLC	eP	19 47 51
	e	50 52
	eL	53 08
SH	iP	19 46 52
	e	46 58
SIT	eL	19 44 50
TUC	eP	19 49 07
	e	49 36
	e	50 03
	e	52 38
	eL	56 25
Aug. 23, H = 20 24 32* 53°N, 132°W. Queen Charlotte Islands aftershock. Felt. Mag. 6¼		
BER	eP	20 34 01
	ePP	36 11
	iS	41 15

Date and Station		Phase (GCT)
		h m s
Aug. 23, cont.		
BER, cont.		
	eScS	20 43 38
	eSS	45 10
	eL	46 36
BC	iP	20 29 43.5
	i	31 23
	i	32 30.5
BOZ	eP	20 28 11
	eS	31 13
	iS	31 15
	eL	32 15
BUT	eP	20 27 46
	e	30 25
	iL	31 37
CHI	eP	20 30 59
	ePP	32 01
	eS	36 04
	eL	38 55
COL	iP	20 27 59
	e	30 16
	eL	32 25
COLU	eP	20 32 13
	e(PP)	33 47
	eS	38 23
	iS	38 31
	eSS	41 27
	eL	42 23
HONO	eP	20 31 45
	ePP	33 11
	eS	37 34
	eL	40 12
HUAN	eP	20 36 52
	i	37 26
	iS	47 02
	eSS	53 00
	eL	59 16
HH	iP	20 27 59
	e(S)	30 40
LOG	iP	20 28 37
	i	29 09
	i	30 11

Date and Station		Phase (GCT) h m s
Aug. 23, cont.		
LOG, cont.		
	eS	20 32 13
	iS	32 23
	iL	33 17
MK	eP	20 31 47
OV	eP	20 29 10.5
	i	29 12.5
PHIL	eP	20 32 12
	ePP	33 42
	eS	38 24
	eL	41 23
SLC	iP	20 28 46
	iS	32 19
	i	32 45
	iL	33 49
SJ	eP	20 34 50
	ePP	37 00
	iS	43 11
	eL	54 35
SH	iP	20 27 48.5
	i	27 50
	i	27 56.5
	e	29 18.5
	e	29 41
	e	30 10
SIT	eP	20 25 42
	iP	25 43
	iS	26 25
	eL	26 47
TUC	iP	20 30 03
	i	30 09
	i	30 43
	eS	35 11
	eL	37 30
Aug. 23		
BC	e	20 43 31
	e	45 28
TUC	e	20 45 20
Aug. 23		
HH	eP	21 37 01

Date and Station		Phase (GCT) h m s
Aug. 23, cont.		
OV	iP	21 38 12
Aug. 23		
COL	iP	21 45 48
Aug. 23, H = 22 03 50* 39°N, 71°W. Eastern Turkistan.		
COL	iP	22 15 17
Aug. 23		
SH	iP	23 27 50
Aug. 23		
HH	eP	23 35 19
Aug. 23		
COL	iP	23 48 44
HH	e	23 45 47
Aug. 24		
HH	eP	20 15 37
Aug. 24		
HH	iP	00 44 15
Aug. 24, H = 02 37 21** Queen Charlotte Islands aftershock.		
BOZ	eL	02 46 02
COL	eL	02 45 23
HH	eP	02 41 01
LOG	eL	02 47 38
OV	iP	02 42 12.5
PHIL	eL	02 59 25
SH	e	02 42 08
TUC	eP	02 43 05
Aug. 24		
HH	eP	03 36 42

Date and Station		Phase (GCT) h m s
Aug. 24, H = 06 07 14* 43½°N, 127°W. Off coast of Oregon.		
BER	eL	06 35 15
BC	eP	06 10 13
	e	10 53
	e	11 06
BOZ	eP	06 10 04
	eL	13 08
BUT	e	06 10 32
	eL	13 00
CHI	eS	06 18 04
	eL	22 19
COL	iP	06 12 32
	e	15 50
HONO	eL	06 22 04
HH	i(P)	06 10 15
	i	10 20
	e(S)	11 02
	eL	14 00
LOG	eP	06 09 58
	e	10 28
	eL	13 13
OV	iP	06 10 11
PHIL	eL	06 23 50
SLC	eL	06 12 59
SH	iP	06 08 23
	i	08 28
	iS	09 10
	iL	10 00
SIT	eP	06 10 40
	eS	13 24
	e	13 38
	eL	14 15
TUC	iP	06 11 18
	i	12 04
	e(S)	14 42
	eL	15 45

Date and Station		Phase (GCT)
		h m s
Aug. 24, H = 06 25 45* 21½°S, 177°W. Tonga Islands region. h = about 100 km.		
BC	ipP	06 38 28
	e	38 45.5
	i	38 54.5
COL	iP	06 38 33
	ipP	39 01
HH	ipP	06 39 04
	i	39 31
	ePP	42 29
	e	48 34
LOG	eP	06 38 23
	epP	38 50
OV	iP	06 38 01
SH	iP	06 37 47
	i	37 53
	ipP	38 13
	e	40 46
	eS	47 39
TUC	iP	06 38 02
	ipP	38 29
Aug. 24		
HH	eP	06 59 08
Aug. 24		
BC	iP	07 10 13
Aug. 24		
OV	iP	07 28 22
Aug. 24		
SH	iP	11 20 46
Aug. 24, H = 09 20 00** Queen Charlotte Islands aftershock.		
BC	eP	09 24 51
BOZ	eL	09 28 32
BUT	eL	09 27 30

Date and Station		Phase (GCT)
		h m s
Aug. 24, cont.		
CHI	e	09 37 33
	e	39 09
	eL	49 01
COL	eP	09 24 22
	eS	26 33
	eL	28 22
HONO	e	09 38 30
	e	39 46
	eL	48 16
HH	eP	09 23 33
	e	23 45
	e	23 51
	eL	27 14
LOG	eP	09 24 14
	eL	30 01
OV	eP	09 24 46
PHIL	e(S)	09 44 45
	eL	51 45
SH	eP	09 23 27
TUC	eP	09 25 37
	e	25 52
Aug. 24, H = 09 22 02** 9°S, 109°W. Pacific Ocean, 1200 miles north of Easter Island.		
BER	iS	09 40 21
	eL	49 11
BC	iP	09 30 25
	e	50 46
BUT	eL	09 50 02
COL	eP	09 34 11
	e	37 41
COLU	eL	09 48 18
HUAN	eP	09 28 40
	iPP	29 48

Date and Station		Phase (GCT)
		h m s
Aug. 24, cont.		
HUAN, cont.		
	e	09 31 13
	e	32 47
	iS	34 00
	iL	36 00
HH	i(P)	09 32 23
	e	32 53
LOG	eP	09 30 58
	eS	38 22
	eL	44 58
OV	eP	09 30 28
	iP	30 29
SH	eP	09 31 08
	e	31 37
TUC	eP	09 29 50
	e	30 06
	e	31 03
	eS	36 08
	eL	39 40
Aug. 24		
BC	e	09 41 26
HH	iP	09 39 55
OV	eP	09 41 25
SIT	eL	09 55 00
Aug. 24		
TUC	e	10 01 53
	i	02 09
	i	02 19
	eS	02 56
	e	03 05
	eL	03 13
Aug. 24		
OV	iP	10 05 40
Aug. 24		
BC	e	10 23 22
HH	iP	10 24 51

Date and Station		Phase (GCT)
		h m s
Aug. 24, cont.		
LOG	e	10 24 01
OV	eP	10 23 25
Aug. 24		
COL	e	10 36 51
HH	iP	10 32 21
Aug. 24		
BC	eP	11 16 55
	e	18 02
OV	eP	11 17 02.5
TUC	eP	11 16 31
	i	16 35
	i	17 01
	eL	17 11
Aug. 24		
LOG	eP	11 54 48
Aug. 24, H = 12 42 39** Queen Charlotte Islands aftershock.		
COL	eP	12 46 00
	eS	49 00
	eL	49 20
HH	iP	12 45 11
	eL	49 13
OV	iP	12 47 26
SH	e(P)	12 46 09
Aug. 24		
COL	iP	13 02 41
	eS	03 24
	iL	03 55
Aug. 24, H = 12 52 05** Tonga Islands region.		
BC	eP	13 04 34
COL	iP	13 05 04
HH	iP	13 04 54

Date and Station		Phase (GCT)
		h m s
Aug. 24, cont.		
OV	iP	13 04 38
	i	06 02
SH	iP	13 04 20
	e	04 25
Aug. 24		
COL	iP	14 53 30
	iS	54 18
	i	54 23
	eL	55 00
TUC	eP	13 04 41
Aug. 24		
OV	iP	15 09 13
Aug. 24		
SH	eP	20 30 33
Aug. 24		
COL	iP	21 10 29
	iS	11 06
	iL	11 17
HH	iP	21 14 44
OV	iP	21 16 08
SH	iP	21 15 07
Aug. 24		
COL	e	21 41 38
Aug. 24, H = 21 51 41** Queen Charlotte Islands aftershock.		
BUT	eL	21 59 48
HH	iP	21 54 51
OV	eP	21 56 39
SH	eP	21 55 20
Aug. 24		
HH	eP	22 17 33

Date and Station		Phase (GCT)
		h m s
Aug. 24, H = 22 37 03** Queen Charlotte Islands aftershock.		
BC	eP	22 41 57
BUT	eL	22 44 32
CHI	eL	22 54 07
COL	eL	22 45 08.5
HH	iP	22 40 13
	eS	42 45
	eL	43 42
LOG	eP	22 41 30
	eS	45 00
	eL	46 28
OV	iP	22 41 54
PHIL	eL	22 58 02
SH	e(P)	22 40 19
	e	40 32
SIT	e	22 38 25
	eL	39 10
TUC	e(P)	22 42 47
	eL	52 05
Aug. 25		
HUAN	eL	02 40 08
HH	iP	02 33 53
TUC	eP	02 31 39
	e	31 43
Aug. 25, H = 04 14 28* 51½°N, 179°W. Andreanof Islands, Aleutian Islands. Mag. 6-3/4		
BC	iP	04 23 00.5
	ipP	23 18.5
	esP	23 41
	ePcP	24 28
	e(PP)	25 05.5

Date and Station		Phase (GCT)
		h m s
Aug. 25, cont.		
CHI	eL	04 41 25
COL	iP	04 19 04
	eS	22 41
	i	23 04
HONO	eL	04 29 13
HH	iP	04 21 56
	isP	22 46
	e(PPP)	24 35
	iS	28 16
	isS	28 50
	eL	32 32
LOG	iP	04 22 43
	ePcS	28 05
	eS	29 25
	eScS	32 31
	eL	35 07
OV	iP	04 22 59
PF	iP	04 23 03.5
	i	23 21.5
	ipP	23 24
	iPP	24 57
SH	iP	04 21 59.5
	ipP	22 15.5
	eScP	27 40.5
	iS	27 54
SIT	eL	04 24 35
TUC	iP	04 23 38
	e	24 09
	e(PP)	25 34
	ePcS	28 39
	eS	30 59
	e	33 49
	eL	38 00
Aug. 25, H = 05 50 22** About 500 miles east of Azores.		
HH	eP	06 01 15
NK	eL	06 29 00

Date and Station		Phase (GCT)
		h m s
Aug. 25, cont.		
OV	eP	06 01 59
Aug. 25		
OV	iP	09 35 39
Aug. 25		
HH	e	09 45 32
Aug. 25		
COL	iP	10 12 10
	iL	12 48
Aug. 25, H = 11 27 38 By PAS, 34°03'N, 115°52'W. Pinto Basin, Calif. Mag. 3.2		
BC	eL	11 28 53
PF	eP	11 28 26
	e	28 31
	iL	29 03.5
Aug. 25, H = 11 42 44** Off east coast of Honshu, Japan.		
BC	e	11 54 59
COL	e	11 51 52
HH	iP	11 54 21
OV	iP	11 54 58
PF	i	11 55 01
	e	55 10
SH	iP	11 54 15
TUC	eP	11 55 24
Aug. 25		
BH	eP	16 47 07
	iS	47 33
Aug. 25, H = 18 33 16** Near coast of northern Chile. h = about 100 km.		

Date and Station		Phase (GCT)
		h m s
Aug. 25, cont.		
BC	eP	18 44 21
	epP	44 49
HUAN	e	18 36 21
	iS	37 12
	iL	37 32
HH	iP	18 45 09.5
	epP	45 33.5
OV	iP	18 44 22
PF	eP	18 44 19
	epP	44 46.5
SH	iP	18 45 03
	ipP	45 32
	i	46 05
TUC	iP	18 43 48
	e	44 38
Aug. 25		
HH	eP	21 54 28
Aug. 25, H = 23 25 57* 7°S, 129°E. Banda Sea. h = about 200 km.		
BC	eP'	23 44 23
	ePP	45 09
BOZ	i(SKS)	23 51 02
	eL	00 21 28
BUT	iSKS	23 50 42
	e(SSS)	00 04 26
CHI	iPKS	23 48 09
	e	54 08
	e(SS)	00 04 37
COL	epPP	23 43 27
	iSKS	49 13
	i(S)	49 43
HONO	iScS	23 47 08
	eL	00 01 57

Date and Station		Phase (GCT) h m s
Aug. 25, cont.		
HUAN	eP'	23 45 28
	ipP'	46 23
	e	59 45
	e	00 05 16
	eL	36 30
HH	e(P)	23 40 40
	iP'	44 17.5
	esPP	46 07
	e	46 27
	iSKS	50 47
LOG	eP'	23 44 22
	eSKS	51 03
	ePS	55 01
OV	eP'	23 44 23
	iP'	44 24
	iPP	45 22
PHIL	esSS	00 06 20
	eL	28 22
PF	eP'	23 44 25
RC	i(PP)	23 46 22
	i	47 50
	eSKSP	55 22
SLC	i(SKS)	23 51 05
	e	52 18
SJ	e(P')	23 46 14
	e	46 41
	e(SKKS)	56 42
SH	e	23 40 02
	iP'	44 12
	iPP	44 34
SIT	iSKKS	23 49 47
	iS	50 18
	ePS	52 00
	e(SSS)	57 26
	eL	00 00 43
TUC	eP'	23 44 31
	i	45 48
	e	47 55
	e	52 35

Date and Station		Phase (GCT) h m s
Aug. 25, cont.		
TUC, cont.		
	eSP	23 55 12
	e	55 21
	ePS	55 28
	e(SS)	00 01 51
	eL	10 42
Aug. 25		
BC	eP	23 55 22
COL	eP	23 56 04
	e	56 41.5
HH	iP	23 54 09
SH	iP	23 55 21
	e	55 35
TUC	iP	23 54 51
Aug. 26		
BC	e	00 35 18
OV	eP	00 35 21
TUC	iP	00 35 23
Aug. 26		
OV	eP	01 00 24
Aug. 26		
HH	iP	02 12 53
OV	iP	02 13 41.5
Aug. 26, H = 05 25 58* 56°N, 135°W. Off coast of southeastern Alaska.		
BC	eP	05 31 19
BOZ	eL	05 35 57
BUT	eL	05 34 56
CHI	iL	05 43 50
COL	eP	05 29 35
	e	31 36
	e(S)	32 06.5
	iL	32 45

Date and Station		Phase (GCT) h m s
Aug. 26, cont.		
COLU	eL	05 47 50
HONO	eL	05 45 40
HH	eP	05 29 34
	i	29 41
	iL	33 54
LOG	eP	05 30 43
	eL	34 57
NK	eL	05 16 59
OV	eP	05 31 15
	iP	31 17
PHIL	eL	05 47 50
RC	iL	05 38 49
SLC	eL	05 37 06
SH	eP	05 30 04.5
	i	30 06.5
SIT	iP	05 26 18
	iS	26 44
	eL	27 02
TUC	eP	05 32 05
	eL	42 37
UK	eL	05 34 06
Aug. 26		
OV	iP	07 51 05
Aug. 26		
PF	e	09 51 04
Aug. 26		
OV	eP	14 27 59
SH	iP	14 25 45
Aug. 26, H = 16 52 32 By PAS, 34.5°N, 120.5°W. San Luis Obispo foreshock. Felt. Mag. 4.2		

Date and Station		Phase (GCT) h m s
Aug. 26, cont.		
BC	eP	16 53 54
	i	54 06.9
	i	54 11
	iL	55 25
HH	eP	16 56 00
LOG	e	16 54 56
	eL	58 16
OV	eP	16 54 00
	i	54 19
PF	iP	16 53 55
	i	53 13.4
	i	53 18.1
	i	53 33.9
	iL	55 08.9
SH	iL	16 55 24
TUC	eP	16 54 37
	e	55 30
	eL	56 40
Aug. 26		
SH	eP	21 40 27
Aug. 26, H = 22 39 40** Queen Charlotte Islands aftershock.		
BC	eP	22 44 45
BOZ	eL	22 48 46
BUT	eL	22 47 54
CHI	eL	22 57 02
COL	eP	22 42 39
	eL	46 18
COLU	eL	23 02 04
HH	eP	22 42 55
	i	43 06
	eL	46 43

Date and Station		Phase (GCT) h m s
Aug. 26, cont.		
LOG	e	22 44 07
	eL	49 50
OV	eP	22 44 40
PHIL	eL	23 01 16
PF	eP	22 44 46
	e	45 16
	e	45 59
RC	eP	22 44 43
	e(S)	48 54
	iL	51 38
SLC	eL	22 50 42
SH	eP	22 43 24.5
SIT	eP	22 40 19
	eS	41 03
	eL	41 24
TUC	eP	22 45 29
	eL	56 26
Aug. 27		
BC	e	02 01 30
Aug. 27		
OV	e	02 16 21
Aug. 27		
OV	iP	03 57 13
Aug. 27		
HH	e	05 14 08
Aug. 27		
OV	e	05 55 13
Aug. 27		
HH	iP	06 00 24
Aug. 27		
HH	e(P)	06 56 12
Aug. 27		
COL	eP	09 45 06
	i	45 32

Date and Station		Phase (GCT) h m s
Aug. 27, cont.		
COL, cont.	i	09 45 50
	iL	46 18
HH	iP	09 49 34
OV	iP	09 51 00.5
TUC	e	09 51 44
Aug. 27		
SH	iP	13 44 18
Aug. 27, H = 14 51 46 By PAS, 34.5°N, 120.5°W. Near Point Conception, Calif. Felt from San Luis Obispo to Point Arguello. Mag. 4.9		
BC	iP	14 53 01
	i	53 02.7
	i	53 23.7
	iL	54 46
BOZ	eL	14 58 14
BUT	eL	14 58 24
CHI	eL	15 06 10
HH	i(P)	14 55 15
	eL	58 12.5
LOG	iP	14 54 15
	e	54 31
	eL	56 20
PF	iP	14 53 09.3
	i	53 10.5
	i	53 21
	iL	55 05
RC	iP	14 55 42
	eL	59 45
SLC	e(P)	14 52 05
	eL	56 33
SH	iP	14 53 17
	eL	54 49

Date and Station		Phase (GCT) h m s
Aug. 27, cont.		
TUC	eP	14 53 51
	i	54 21
	i	54 44
	e	54 46
	e(S)	55 37
	iL	55 59
UK	e	14 54 06
	eS	54 26
	eL	54 55
Aug. 27, H = 15 35 42 By PAS, 33°48'N, 120°17'W. Southwest of Santa Rosa Island, Calif. Mag. 3.7		
BC	e	15 37 20
PF	e	15 37 30.5
	eL	39 45
TUC	eL	15 40 39
Aug. 27		
COL	iP	15 55 34
Aug. 27, H = 15 54 28 By PAS, 33°51'N, 120°18'W. Southwest of Santa Rosa Island, Calif. Mag. 4.0		
BC	e	15 56 05.5
	eS	56 20.5
	eL	56 43
PF	eP	15 55 54
	e	56 17
	e(S)	57 05
	e	57 43.5
TUC	eP	15 56 36
	e(S)	58 19
	eL	59 20
Aug. 27		
HH	e	20 10 28
OV	eP	20 09 09

Date and Station		Phase (GCT) h m s
Aug. 27, cont.		
PF	eP	20 09 02
Aug. 27		
HH	i	20 43 12
	e	44 07.5
Aug. 27, H = 21 30 40** Queen Charlotte Islands aftershock.		
BC	eP	21 35 25
	e	35 43
BOZ	eL	21 38 50
BUT	eL	21 38 00
CHI	eL	21 47 26
COL	eP	21 34 41.5
	eL	38 37
HH	eP	21 33 40
	eL	37 15.5
LOG	e	21 34 52
	e	40 05
OV	eP	21 35 21.5
PHIL	eL	21 52 22
PF	iP	21 35 23
RC	iP	21 35 28
	eL	41 27
SH	eP	21 34 01
SIT	e(P)	21 31 45
	e(S)	32 30
	eL	32 50
TUC	eP	21 36 14
	eL	46 23
Aug. 27		
BC	e	22 49 39
OV	eP	22 49 56

Date and Station		Phase (GCT) h m s
Aug. 27, cont.		
PF	e	22 49 46.5
	e	50 47
Aug. 27		
PF	eP	23 22 13
SH	i	23 20 24
Aug. 28		
SH	e	20 41 27
Aug. 28		
HH	e	02 25 34
PF	e	02 27 09
	e	27 13
SH	e	02 25 43
	e	25 45
Aug. 28		
TUC	e	03 20 59
Aug. 28		
BC	eP	03 48 31
	iP	48 46
	i	49 08
	i(S)	49 20
	i	49 45.5
PF	eP	03 48 47
	iP	49 01.8
	i	49 26
	iS	49 39.5
SH	eP	03 50 49
Aug. 28		
BC	e	04 20 49
OV	iP	04 20 48
PF	eP	04 20 44
Aug. 28		
COL	eP	05 21 08.5
Aug. 28		
HH	i	06 41 58

Date and Station		Phase (GCT)
		h m s
Aug. 28, H = 09 45 02** Fox Islands, Aleutian Islands.		
BC	ePcP	09 54 43
COL	eP	09 48 25.5
	eL	51 45
HH	iP	09 51 39.5
	i	54 25
OV	iP	09 52 42
PF	iP	09 52 43
SH	iP	09 51 37
Aug. 28		
HH	i	10 34 45
Aug. 28		
COL	iP	14 51 29
	e	52 16
	eL	52 52
HH	iP	14 52 47
SH	eP	14 52 43
Aug. 28		
HH	e	15 32 04
Aug. 28		
PF	iP	18 07 08
SH	i	18 06 54
Aug. 28		
HH	eP	19 30 22
	i	34 18
Aug. 28, H = 19 28 54* 54°N, 34°W. North Atlantic Ocean.		
BC	iP	19 38 39
COL	e	19 39 03
HH	iP	19 37 34

Date and Station		Phase (GCT)
		h m s
Aug. 28, cont.		
LOG	eP	19 37 54
OV	iP	19 38 35
PF	iP	19 38 32
SH	eP	19 38 42
TUC	eP	19 38 41
	eL	20 01 00
Aug. 28		
COL	e	21 04 18
Aug. 28		
BC	e	22 50 15
OV	eP	22 50 31.5
Aug. 28		
COL	e	23 01 37
	e	03 07
Aug. 29, H = 00 19 11** Eastern Turkey aftershock.		
COL	e	00 30 53.5
HH	e	00 32 11
Aug. 29, H = 01 56 01 By BERK, 37°41'N, 121°32'W. East of Salinas, Calif. Mag. 4.0		
OV	e	01 57 58
SH	eP	01 57 03
Aug. 29		
HH	e	02 52 57
Aug. 29		
COL	eP	04 55 18
HH	eP	04 49 36
	iP	49 40.5
OV	iP	04 48 13

Date and Station		Phase (GCT)
		h m s
Aug. 29, cont.		
SH	iP	04 48 54
TUC	e	04 47 28
	e	47 45
Aug. 29		
COL	e	05 30 17
Aug. 29		
COL	eP	05 52 23
Aug. 29		
BC	e	09 13 51
COL	e	09 15 15
LOG	e	09 14 12
OV	iP	09 13 49
PF	eP	09 13 47
SH	e	09 13 35
TUC	e	09 13 53
Aug. 29		
OV	eP	11 36 25
PF	iP	11 34 52
SH	eP	11 34 40
TUC	eP	11 34 56
Aug. 29, H = 12 07 20 By BERK, 36.0°N, 120.1°W. North of Avenal, Calif. Felt in Avenal and Kettleman. Mag. 3.0		
BC	eP	12 08 43
	e	08 44
	eS	09 38
OV	eP	12 08 45
PF	eP	12 08 43
	e	08 49
SH	eP	12 09 02

Date and Station		Phase (GCT) h m s
Aug. 29, cont.		
TUC	e	12 10 06
	eL	11 43
Aug. 29		
COL	eP	12 31 18
Aug. 29		
COL	eP	12 46 04.5
Aug. 29		
COL	iP	13 17 48.5
	e	18 56
	eL	19 05
Aug. 29		
COL	eP	14 43 50.5
Aug. 29		
COL	e	16 42 25
Aug. 29		
BC	e	18 34 04
OV	iP	18 34 00
PF	iP	18 33 57
SH	eP	18 34 25
Aug. 29		
PF	eP	21 09 12
SH	iP	21 09 01.5
Aug. 29		
COL	e(P)	23 12 33
Aug. 30		
BC	e	02 46 57.5
PF	i(P)	02 46 29
	e	46 37
	i	46 41
	e	46 51
TUC	eP	02 45 57
	e	50 47
Aug. 30		
BC	i	04 24 01

Date and Station		Phase (GCT) h m s
Aug. 30, cont.		
SH	iP	04 23 16
Aug. 30		
OV	e	07 40 01
PF	eP	07 40 00
SH	eP	07 39 56.5
Aug. 30		
OV	iP	08 38 15
PF	eP	08 38 13
SH	eP	08 37 58
	iP	37 59
TUC	iP	08 38 16
Aug. 30		
HH	i	10 13 02
Aug. 30		
COL	eP	10 23 01
Aug. 30		
COL	iP	10 31 03.5
	i	31 05
	i	31 14
	iS	31 20
	iL	31 44
Aug. 30		
TUC	eP	12 27 15
Aug. 30		
COL	iP	13 24 46.5
	i	24 54
	i(S)	24 26
	eL	24 35
Aug. 30		
HUAN	iP	14 53 07
	i	53 16
	i(S)	53 36
	iL	53 52
Aug. 30, H = 16 50 21* 34°E, 44½°N. Near coast of Crimea.		

Date and Station		Phase (GCT) h m s
Aug. 30, cont.		
COL	e	17 02 41
	e(PP)	06 07
HH	e	17 02 20.4
Aug. 30		
COL	e	19 06 57
OV	iP	19 06 20
SH	iP	19 06 07
TUC	eP	19 06 20
Aug. 30		
SH	e	22 34 30
Aug. 30		
COL	iP	23 04 38
SH	iP	23 05 38
Aug. 31, H = 00 08 10** Mariana Islands. h = about 100 km.		
BC	iP	00 21 05
COL	e	00 19 04
HH	iP	00 20 50
LOG	eP	00 21 04
OV	iP	00 21 05
PHIL	eL	01 11 12
SH	eP	00 20 30
TUC	eP	00 21 22
	eL	53 00
Aug. 31		
HH	eP	00 41 19
SH	iP	00 41 14.5
Aug. 31		
BC	e	02 13 26

Date and Station		Phase (GCT)
		h m s
Aug. 31, cont.		
OV	eP	02 13 28
PF	e	02 13 24
SH	iP	02 14 01
TUC	iP	02 13 00
Aug. 31		
PF	e	10 33 34
SH	eP	10 33 20
Aug. 31, H = 13 47 11* 62°N, 153°W. Southern Alaska. Felt in Anchorage.		
BC	eP	13 53 52
	epP	54 19
	eS	59 34
COL	iP	13 48 06
	i(S)	48 38
	eL	48 59
HH	iP	13 52 26.4
	iPcS	59 19.7
LOG	eP	13 53 29
	ePP	54 26
	ePcS	59 40
OV	iP	13 53 49
	ipP	54 17.5
PF	eP	13 53 54
	i	54 21
SH	iP	13 52 51
SIT	iP	13 49 26
	eS	51 10
	iS	51 13
	eL	52 54
TUC	iP	13 54 34
	e	54 57
Aug. 31		
OV	i(P)	13 59 54

Date and Station		Phase (GCT)
		h m s
Aug. 31, cont.		
SH	i	13 59 29
TUC	iP	14 00 14
Aug. 31		
COL	e	15 48 16.5
Aug. 31		
HH	iP	18 00 53
Sept. 1		
PF	e	01 57 28
	e	57 37
	e	58 10
Sept. 1		
HH	e	02 30 06
Sept. 1		
SH	eP	12 30 24
Sept. 1		
OV	eP	13 15 55
	i	16 22
Sept. 1		
COL	iP	13 59 00
	iS	59 28
	iL	59 50
Sept. 1, H = 13 58 14* 36°S, 97°W. Pacific Ocean, southeast of Easter Island.		
BC	eP	14 09 51
	e	09 58
COL	eL	14 45 00
HONO	eL	15 07 32
HUAN	iP	14 04 35
	e	08 01
	eS	10 17
	eL	11 49
HH	iP	14 10 51
	i	10 55
LOG	eP	14 10 23
	eL	33 57

Date and Station		Phase (GCT)
		h m s
Sept. 1, cont.		
PF	eP	14 09 47
	iP	09 51.6
	e	10 12
SH	eP	14 10 19
	iP	10 25
SIT	eL	14 44 40
TUC	iP	14 09 25
	ePP	12 13
	eL	27 10
UK	eL	14 32 40
Sept. 1		
SH	e(P)	14 20 25
	iP	20 26
Sept. 1		
PF	e	16 15 55
	i	16 22
Sept. 1, H = 16 59 15** Mariana Islands.		
BC	iP	17 12 04
COL	eP	17 10 04
HH	iP	17 11 51.5
	e	13 17
PF	iP	17 12 06
	e	12 10
SH	iP	17 11 31
	e	11 46
TUC	eP	17 12 27
UK	eL	18 32 39
Sept. 1, H = 18 26 50* 2½°N, 90°W. Galapagos Islands region.		
BER	e(PP)	18 36 02
	e(S)	40 31
	eL	43 28

Date and Station		Phase (GCT)
		h m s
Sept. 1, cont.		
BC	eP	18 34 30
BOZ	e(S)	18 42 24
	eL	51 25
BUT	eL	18 48 32
COL	e(P)	18 38 39
HUAN	eP	18 31 33
	e	33 11
	eS	35 21
	iL	36 15
HH	iP	18 35 44.7
LOG	e	18 35 17
	e	40 57
	eL	47 11
OV	iP	18 34 34.5
PHIL	eS	18 40 22
	eL	43 29
PF	eP	18 34 42
RC	e	18 39 24
	eL	44 54
SLC	eL	18 45 24
SJ	ePP	18 33 43
	e(S)	37 48
	eL	40 20
SIT	eS	18 46 28
	eL	57 50
TUC	eP	18 33 50
	ePP	35 06
	eS	39 20
	eL	41 35
Sept. 1		
COL	e	22 24 09
Sept. 1		
HH	eP	23 09 38
Sept. 2		
HH	eP	01 11 53.4

Date and Station		Phase (GCT)
		h m s
Sept. 2, H = 01 31 18 Queen Charlotte Islands aftershock.		
BOZ	eL	01 40 15
BUT	eL	01 39 08
COL	eP	01 34 22
HH	eP	01 34 32
	i	34 38
	i	34 42
	eL	38 15
OV	eP	01 36 17
PF	e	01 36 16
SIT	iP	01 32 05
	i	32 14
	eS	32 37
	iS	32 40
	eL	32 50
TUC	eP	01 37 04
Sept. 2		
COL	e	01 59 40
Sept. 2		
HH	e(P)	05 51 50
	iP	51 54
	e	53 00
	e(S)	55 36
SH	e(P)	05 50 45
SIT	eP	05 49 17
	eS	49 42
	eL	49 54
Sept. 2		
TUC	e	07 00 04
Sept. 2		
HH	e(P)	08 02 34
	i	02 43
	e(S)	06 40
SIT	e	07 59 38
	e(S)	08 00 16
	eL	00 42

Date and Station		Phase (GCT)
		h m s
Sept. 2		
HH	eP	08 28 53
Sept. 3, H = 03 06 47* 62°N, 148°W. Southern Alaska. h = about 100 km.		
BC	iP	03 13 25.9
	i	13 32
	epP	13 52
	e	13 59
COL	iP	03 07 21
	i	07 37
	iS	07 56
	iL	10 00
HH	iP	03 11 56
	iPP	12 33
	i	14 57
	ePcP	15 33
	iPcS	19 06
OV	iP	03 13 23
PHIL	eL	03 30 20
PF	iP	03 13 27.5
	i	13 35
	ipP	13 53
	i	14 12
SH	iP	03 12 24.5
	i	12 32
	i	14 10
SIT	eP	03 08 50
	e	10 08
	e(S)	10 46
	eL	11 05
TUC	iP	03 14 07
	ipP	14 33
	iPP	15 33
Sept. 3, H = 07 38 05** Western Wyoming.		
BC	eP	07 40 23
	e	40 35
	eL	44 12

Date and Station		Phase (GCT)
		h m s
Sept. 3, cont.		
BOZ	iS	07 38 59
	e	39 29
	eL	39 47
BUT	eP	07(38)43
	eS	(39)22
	eL	(39)36
HH	eS	07 40 02
	iS	40 06
	iL	41 04
LOG	iP	07 38 50
	i	39 02
	e	39 12
	i	39 14
	iS	39 34
OV	iP	07 40 14
PF	e	07 40 17
	e	40 48
	i	41 08.7
RC	i	07 40 03
	iL	41 11
SLC	eP	07 39 08
	e	39 42
SH	eP	07 40 35
	i	40 55
	i	41 14
TUC	eP	07 41 05
	e	41 26
	e	41 46
	e	42 02
	e	42 33
	eL	44 15
Sept. 3		
HH	e	11 23 49
Sept. 3		
COL	e	12 24 12
	e	24 23

Date and Station		Phase (GCT)
		h m s
Sept. 3		
HH	iP	12 38 21
	e	38 31
	i	39 23
	i(S)	39 45
LOG	iP	12 37 30
	eS	37 52
	i	37 58
	eL	38 09
Sept. 3		
TUC	e	12 43 04
Sept. 3		
COL	e	17 32 45
Sept. 3		
SJ	e(P)	23 56 20
	e(S)	56 28
	i	56 37
	eL	57 00
Sept. 4		
HH	eP	00 04 28
Sept. 4		
HH	e	03 07 23
SH	eP	03 07 34
Sept. 4		
SJ	e(S)	08 29 43
	eL	29 52
Sept. 4		
BH	eP	09 53 50
	iS	54 21
Sept. 4		
TUC	eP	10 47 42
Sept. 4		
BC	e	11 07 42.5
	e	08 05
PF	e	11 07 46
	e	07 51
	e	08 22
Sept. 4, H = 14 55 20** Samoa Islands region.		

Date and Station		Phase (GCT)
		h m s
Sept. 4, cont.		
HH	eP	15 07 51
	e	08 00
OV	eP	15 07 14
	e	07 17
SH	eP	15 07 00
TUC	e	15 07 18.5
	eL	33 45
Sept. 4		
BUT	e	17 01 20
	eL	01 54
Sept. 4		
BC	eP	18 34 01
OV	eP	18 34 22
TUC	e	18 33 18
	e	37 39
Sept. 5		
COL	iP	02 39 54
	iS	40 24
	iL	40 49
Sept. 5, H = 02 54 14* 19°N, 122°E. Northern Luzon, Philippine Islands. Felt in Manila. h = about 100 km.		
BC	ePP	03 12 35
COL	eP	03 06 21
	ePP	08 20
HH	iP	03 07 42
	e	11 02
OV	eP'	03 12 17
PF	ePP	03 12 34
TUC	e	03 11 18
	eP'	12 30
	ePP	13 05

Date and Station		Phase (GCT)
		h m s
Sept. 5		
HH	eP	03 21 18
LOG	eP	03 24 51
PF	e	03 23 34.5
TUC	e	03 21 36
	e	24 02
Sept. 5, H = 03 18 10* 17°N, 121½°E. Luzon, Philippine Islands. Felt in Manila.		
COL	eP	03 29 53
HH	eP	03 31 51
OV	iPP	03 36 35.5
PF	ePP	03 36 35
SH	eP	03 31 46
	e	32 03
	i	32 28
TUC	e(P')	03 37 03
	e(SSS)	57 20
Sept. 5		
COL	iP	03 47 59
	i	48 13.5
Sept. 5, H = 06 54 15* 53½°N, 132°W. Queen Charlotte Islands.		
BC	eP	06 59 04
BOZ	eL	07 02 42
CHI	eL	07 11 09
COL	eL	07 01 33
HH	eP	06 57 17
	i	57 29
	eL	07 00 30

Date and Station		Phase (GCT)
		h m s
Sept. 5, cont.		
LOG	eP	06 58 27
	e(S)	07 02 28
	eL	03 58
OV	iP	06 59 00.5
	i	59 03.5
PF	eP	06 59 06
	e	59 25
	e	59 40
RC	e(P)	06 59 05
SLC	eL	07 04 19
SH	iP	06 57 47
	e	58 07
	i	58 26
SIT	eP	06 55 09
	iP	55 10
	i	55 26
	eS	55 52
	iS	55 54
	eL	56 05
TUC	eP	06 59 50
	eS	07 04 27
	e	05 09
	eL	10 17
Sept. 5		
COL	eP	07 17 44
Sept. 5		
COL	iP	10 20 59
	i	21 11
	i(S)	21 36
	iL	21 59
Sept. 5		
COL	e	21 18 34
HH	i	21 15 49
	i	17 03
	i	17 21
	e	20 03
Sept. 5		
TUC	eP	21 21 48

Date and Station		Phase (GCT)
		h m s
Sept. 6		
SH	iP	00 18 34
Sept. 6		
HH	eP	02 03 30.5
Sept. 6		
SH	iP	03 05 02
Sept. 6		
COL	eP	04 23 42
Sept. 6		
HH	e	07 53 18
Sept. 6		
SH	iP	07 59 59
Sept. 6		
COL	e	10 45 11
	e	46 50
	e	47 47.5
	e(L)	48 10
Sept. 6		
BC	i	10 57 47
HH	iP	10 57 27.5
PF	i	10 58 19
SH	iP	10 57 31
Sept. 6, H = 11 20 30 By BERK, 40°23'N, 124°42'W. Off Cape Mendocino, Calif. Felt in Eureka. Mag. 4.1		
BC	eP	11 22 38
	e	22 49
	e	23 12
HH	eP	11 23 20
LOG	eP	11 22 59
	eL	26 05
OV	eP	11 22 45

Date and Station		Phase (GCT)
		h m s
Sept. 6, cont.		
PF	eP	11 22 48
	i	22 52
	i	22 56
	i	23 10
	i	23 16
	eL	26 03
SH	iP	11 20 59
	eS	21 12
TUC	eP	11 23 57
UK	e(P)	11 21 11
	eS	21 19
	e	21 28
	eL	21 36
Sept. 6		
TUC	e	12 49 23
Sept. 6		
BC	e	15 36 00
	i	36 21
COL	eP	15 40 42
HH	eP	15 37 25
PF	e	15 35 15
	e	35 37
Sept. 6		
COL	eP	22 28 37
Sept. 6		
BC	eP	22 44 32
COL	eP	22 44 50
HH	eP	22 44 55
OV	eP	22 44 27.5
PF	eP	22 44 22
SH	iP	22 44 06
	i	44 10
TUC	eP	22 44 27

Date and Station		Phase (GCT)
		h m s
Sept. 6		
COL	e	23 00 47
Sept. 6		
COL	e	23 08 27.5
Sept. 7		
HH	eP	04 19 43
	e	19 59
	e	20 48
Sept. 7, H = 07 02 04 By PAS, 33°47'N, 120°38'W. Southwest of Santa Rosa Island, Calif. Mag. 3.5		
BC	e	07 03 53
OV	e	07 03 56
Sept. 7, H = 07 26 57* 2°S, 93°W. Galapagos Islands.		
BC	eP	07 34 57
HUAN	eP	07 31 29
	iP	31 33
	iPP	31 59
	i	32 19
	i	32 31
	eS	35 21
	eL	36 29
HH	eP	07 36 18
OV	eP	07 35 02
PHIL	e	07 50 04
PF	eP	07 34 57
SJ	eS	07 39 15
	eL	41 28
SH	ePcP	07 37 15
TUC	eP	07 34 17
	eL	48 32

Date and Station		Phase (GCT)
		h m s
Sept. 7		
OV	eP	11 13 36.5
SH	e(P)	11 13 18
Sept. 7		
SH	e	11 57 55.5
Sept. 7		
BC	e	12 48 14
	e	48 29.5
OV	eP	12 48 18
PF	e	12 48 14
	e	48 35.5
	e	49 57
SH	e(P)	12 49 11
TUC	e(P)	12 47 29
	e	47 37
	eL	52 50
Sept. 7, H = 13 33 55* Fiji Islands region.		
BC	eP	13 47 04
COL	eP	13 47 04
OV	iP	13 47 07
PF	eP	13 47 07
SH	iP	13 46 48
	e	46 53
	e	47 12
Sept. 7		
SH	e	14 48 58.5
Sept. 7		
HH	eP	14 56 36
	i	56 47
	i	57 32
Sept. 7		
HH	iP	15 01 21
	i	01 32
	i(S)	02 17

Date and Station		Phase (GCT) h m s
Sept. 7		
COL	e	20 45 23
Sept. 7		
BC	iP	23 06 58
OV	iP	23 06 59
TUC	iP	23 07 17
Sept. 7		
HH	eP	23 38 51
Sept. 8, H = 02 46 52* 47½°N, 154°E. Kurile Islands.		
BC	iP	02 57 36.2
	e	57 55
COL	e	02 54 05
HH	eP	02 56 46
	iPcP	57 38
LOG	iP	02 57 23
	e	57 42
OV	eP	02 57 36
SH	iP	02 56 45
	i	56 51
	e	57 05
TUC	iP	02 58 08
Sept. 8		
HH	iP	03 05 58
Sept. 8		
COL	e	03 23 10
Sept. 8		
COL	eP	04 14 14
	e	15 00.5
Sept. 8		
HH	eP	04 33 17
	i	33 20
	i(S)	34 06

Date and Station		Phase (GCT) h m s
Sept. 8		
BC	e	07 31 01
	e	31 25
	i	31 31
HH	e(P)	07 31 24
LOG	e	07 31 06
OV	eP	07 31 24
SH	eP	07 31 07
	i	31 13
	e	31 18
TUC	e	07 31 31
Sept. 8		
HH	eP	12 12 29
Sept. 8		
BOZ	eL	15 02 54
BUT	e	15 02 12
HH	e(P)	14 58 08
SIT	eP	14 57 50
	e	58 37
Sept. 8, H = 16 02 02* 15½°S, 75½°W. Near coast of southern Peru. h = about 150 km.		
HUAN	iP	16 02 46
	iS	03 27
	iL	04 28
HH	eP	16 13 15
	e	14 01
	e	15 04
OV	iP	16 12 23
PF	eP	16 12 19
TUC	eP	16 11 47
Sept. 8		
HH	e	16 34 04

Date and Station		Phase (GCT) h m s
Sept. 8		
HUAN	eP	19 31 36
	eS	32 13
	i	32 29
	eL	32 58
Sept. 8		
TUC	iP	21 42 54
	i	42 59
	eS	43 24
	i	43 31
	i	43 40
	eL	43 54
Sept. 9		
TUC	e	04 41 39
Sept. 9		
OV	eP	08 02 36.5
PF	e	08 02 37
TUC	eP	08 02 38
	e	03 02
Sept. 9		
COL	e	08 18 17.5
OV	eP'	08 18 21
TUC	e	18 17 52
Sept. 9		
HH	iP	09 45 11
Sept. 9		
COL	e	10 45 00.5
Sept. 9, H = 11 26 50 By PAS, 33°53'N, 119°05'W. South of Point Mugu, Calif. Mag. 3.4		
BC	eL	11 29 11
PF	iP	11 28 04.5
	e	28 25
	eL	29 20.5

Date and Station		Phase (GCT)
		h m s
Sept. 9		
COL	e	12 15 23
Sept. 9		
OV	iP	18 17 55
Sept. 9, H = 20 26 21* 16½°S, 172½°W. Samoa Islands region.		
BC	iP	20 37 58
	i	38 09
	e	39 04
COL	e	20 38 47
HH	iP	20 38 47
	e	39 23.5
LOG	e(P)	20 38 33
OV	eP	20 38 11.5
SH	iP	20 37 56
	e	38 06
	e	38 25
TUC	eP	20 38 13
	eL	21 04 08
Sept. 10		
PF	iP	11 29 38
	i	29 46
	i	30 16
	iS	31 16
Sept. 10		
HH	e	17 51 56
	e	52 36
TUC	e	17 51 49
Sept. 10		
SH	eP	20 09 36
Sept. 10		
HH	eP	22 15 04
Sept. 11		
BC	e	05 53 04

Date and Station		Phase (GCT)
		h m s
Sept. 11, cont.		
HH	iP	05 51 10
	e	52 25
	e	52 32
OV	eP	05 52 48
	i	53 04
PF	eP	05 53 05
SH	eP	05 52 07
	e	52 23
Sept. 11		
LOG	eP	08 40 32
Sept. 11		
LOG	e	11 06 17
Sept. 11		
COL	eP	11 07 26
	i	07 34
	e(S)	08 00
	eL	08 10
Sept. 11		
TUC	e	11 19 15
	e	19 30
	e(S)	20 07
	e	20 29
	eL	21 07
Sept. 11		
TUC	eP	12 20 21
	i	20 26
	i	20 39
	eS	20 57
	i	21 07
	eL	21 15
Sept. 11		
COL	iP	12 43 31
	iS	44 11
	iL	44 17
Sept. 11		
COL	e	13 21 40
	eL	22 28

Date and Station		Phase (GCT)
		h m s
Sept. 11, H = 13 38 47* 57½°N, 164½°E. Near east coast of Kamchatka. h = about 100 km.		
BC	eP	13 48 21
	e	48 34
COL	iP	13 44 01
	ipP	44 19
	eL	49 15
HH	eP	13 47 23
	e	48 35
OV	eP	13 48 21
PF	eP	13 48 23
	e	48 30
	epP	48 49
SH	eP	13 47 21
	i	47 24
TUC	e	13 48 55
Sept. 11		
HH	iP	14 27 47
	i	28 13
	i	28 21
SH	iP	14 27 37
	i	28 00
	e	28 09
	e	28 16
TUC	eP	14 26 29
Sept. 11		
SH	iP	15 28 08
Sept. 11		
COL	eP	15 39 40
	i	39 56.5
	e(S)	40 34
	eL	41 40
Sept. 11		
SLC	eL	20 02 15

Date and Station		Phase (GCT)
		h m s
Sept. 11, H = 21 44 40** Off the east coast of Honshu, Japan.		
COL	eP	21 53 24
HH	iP	21 56 01
	i	56 13
	e	56 53
OV	i	21 56 56
SH	e(P)	21 55 56
	e	56 04
	e	56 11
	e	56 24
TUC	e	21 57 21
Sept. 11		
OV	e(P)	22 10 18.5
	e	10 28.5
TUC	eP	22 07 21
	i	07 27
	i	07 37
	i	07 52
	eS	08 08
	iS	08 09
	eL	08 15
Sept. 11		
HH	eP	22 59 46
Sept. 11		
COL	e	23 35 06
	e	35 33
HH	iP	23 31 45
	i	31 54
	e	35 15.5
Sept. 12		
PF	iP	00 45 15
	i	45 20.5
	i	45 33.5
Sept. 12, H = 08 36 12* 56°N, 132°W. Queen Charlotte Islands region.		
BUT	eL	08 44 29

Date and Station		Phase (GCT)
		h m s
Sept. 12, cont.		
CHI	eL	08 53 14
COL	eP	08 39 04
	eL	43 15
HH	iP	08 39 30.5
	i	40 00.5
	eL	43 20.5
OV	iP	08 41 10.5
PF	i	08 41 11.5
	e	41 34
	e	42 20
RC	eL	08 48 02
SH	iP	08 39 56
	i	39 17
	i	39 23
	e	40 54
	e	41 02
SIT	iP	08 36 38
	eP	36 39
	eL	37 17
TUC	e	08 42 16
Sept. 12, H = 09 17 04* 22°S, 170°E. Loyalty Islands region.		
BER	eL	10 18 20
BC	iP	09 30 12
	i	30 18
	e	30 35
	e	30 40
BOZ	eL	10 03 39
BUT	eL	10 06 44
CHI	eL	10 08 23
COL	iP	09 30 24
	e	30 58
	iPP	33 30
	eL	10 03 08

Date and Station		Phase (GCT)
		h m s
Sept. 12, cont.		
COLU	eL	10 13 20
HONO	eL	09 41 24
HUAN	e	09 40 40
	eS	43 44
	eSS	50 50
	eL	10 02 00
HH	eP	09 30 36
NK	ePS	09 47 03
OV	eP	09 30 14
	iP	30 15
PHIL	eL	10 13 48
PF	iP	09 30 17
	e	30 27
	i	30 39
	e	30 52
	i	33 21
RC	eL	10 08 25
SJ	eP'	09 36 13
	ePP	38 21
	e	39 30
	eSKS	43 14
	e(SS)	55 21
	eL	10 08 16
SH	eP	09 29 56
	ePP	33 25
	e	33 53
	e	34 07
SIT	eSKS	09 40 42
	eL	58 44
TUC	eP	09 30 18
	e	31 55
	eS	41 32
	ePS	42 44
	eL	59 55
UK	eL	09 57 57

Date and Station		Phase (GCT)
		h m s
Sept. 12		
COL	eP	10 00 32
	e	00 43
	eS	01 06
	eL	01 25
Sept. 12		
COL	eP	10 18 00
	i	18 14
	e(S)	18 29
	eL	18 38
Sept. 12, H = 10 43 25* 5°S, 150½°E. New Britain region. h = about 100 km.		
BC	eP	10 56 57.5
COL	iP	10 55 44
HH	eP	10 56 53
OV	eP	10 56 53.5
PF	iP	10 56 54.2
	ipP	57 27
SH	eP	10 56 24
	epP	56 50
	e	57 20
Sept. 12, H = 10 54 02* 24°S, 179°E. Fiji Islands region. h = about 500 km.		
BC	eP	11 05 55
COL	eP	11 06 22
HH	i(P)	11 06 27
OV	eP	11 05 56
	iP	05 58.5
PF	iP	11 05 58
	i	06 02
	i	06 17
	epP	07 54

Date and Station		Phase (GCT)
		h m s
Sept. 12, cont.		
SH	iP	11 05 45
	e	06 04
	e	06 22
TUC	iP	11 06 00
	e	06 18
	eL	41 37
Sept. 12		
HH	eP	12 19 17
	e(S)	22 32
	i	22 48
	i	23 41
Sept. 12, H = 14 37 52** Queen Charlotte Islands aftershock.		
BC	e(P)	14 43 11
BUT	eL	14 46 13
CHI	eL	14 54 59
COL	eP	14 40 49
	eS	43 06
	e	43 58
	e	44 20
	eL	44 29
HH	iP	14 41 04
	eL	44 25
LOG	eP	14 42 15
	eL	47 01
OV	eP	14 42 51
PHIL	eL	14 59 21
PF	iP	14 42 54
	iPP	43 24
RC	eP	14 42 42
	e(S)	47 04
	eL	48 25
SH	iP	14 41 36
	i	41 42
	i	41 45

Date and Station		Phase (GCT)
		h m s
Sept. 12, cont.		
SH, cont.	e	14 42 53
	i	42 08
SIT	iP	14 38 29
	e(S)	38 58
	eL	39 07
TUC	eP	14 43 41
Sept. 12		
BER	eL	16 31 40
SJ	eP	16 27 00
	eS	27 33
	eL	27 49
Sept. 12, H = 22 24 05** Near Adak, Aleutian Islands.		
COL	eP	22 28 45
HH	iP	22 31 42
	i	32 27
TUC	eP	22 33 12
Sept. 12		
LOG	e	22 44 56
Sept. 13		
BC	iP	00 45 13
	e	45 21
COL	eP	00 41 20
HH	iP	00 44 20
	ePcP	45 14
OV	eP	00 45 13
SH	iP	00 44 22
	i	44 33
	e	44 46
TUC	eP	00 45 44
	e	46 33
Sept. 13, H = 06 54 09** Samoa Islands region.		

Date and Station		Phase (GCT)
		h m s
Sept. 13, cont.		
BC	eP	07 05 55
	e	06 12
COL	eP	07 06 28
HH	eP	07 06 37
	e	09 32
	ePP	09 57
OV	eP	07 06 01
PF	eP	07 05 59
	e	06 08
	e	10 21
SH	iP	07 05 47
	e	06 01
	e	09 37
TUC	eP	07 06 04
	ePPP	10 53
Sept. 13		
COL	e	08 18 48
Sept. 13		
HH	i(P)	11 50 01
SH	e	11 49 41
	e	49 50
	e	49 55
Sept. 13		
COL	e	12 08 16
PF	e	12 14 53
Sept. 13		
BC	e	13 33 46
COL	e	13 27 26
HH	iP	13 32 47
	e	34 43
OV	iP	13 33 20
PF	iP	13 33 23
SH	iP	13 32 42

Date and Station		Phase (GCT)
		h m s
Sept. 13		
HH	eP	14 22 29
	i	22 36
	e(S)	25 57
	i	26 04
SH	e	14 22 47
Sept. 13, H = 16 10 35** Off south coast of Panama.		
BH	iP	16 11 14
	iS	11 49
COL	iP	16 22 15.5
HH	eP	16 19 38
TUC	iP	16 18 08
Sept. 13		
COL	e	22 00 37
Sept. 13		
BC	e	23 32 27
PF	i	23 32 29
TUC	iP	23 32 31
Sept. 14		
COL	e	01 41 57
HH	e	01 43 52
	i	43 55
SH	eP	01 43 53
	e	43 57
	i	44 01
	e	47 16
Sept. 14		
HH	eP	05 06 34
Sept. 14, H = 05 27 40* 40½°N, 126°W. Off Cape Mendocino, Calif. Mag. 4½		
BC	eP	05 30 12.5

Date and Station		Phase (GCT)
		h m s
Sept. 14, cont.		
HH	eP	05 30 26
	iP	30 31
OV	iP	05 30 12
PF	eP	05 30 20
TUC	eP	05 31 14
UK	eL	05 28 56
Sept. 14		
BC	iP	07 31 33
	e	31 51
	e	32 21
	i	33 24
HH	eP	07 32 36
LOG	iP	07 30 44
	i	30 50
	e	31 14
	i	31 22
	eL	31 36
OV	iP	07 31 15
PF	eP	07 31 16
	iP	31 23
	i	31 27.5
	i	32 24
Sept. 14		
OV	iP	08 49 30
PF	e	08 50 26
Sept. 14		
TUC	e	14 53 54
Sept. 14		
HH	iP	15 50 13
Sept. 14		
TUC	e	16 09 55
Sept. 14, H = 16 38 45** Molucca Passage foreshock.		

Date and Station		Phase (GCT)
		h m s
Sept. 14, cont.		
COL	eP	16 51 36
	e	52 28.5
	e	54 46.5
	i	55 36
HH	eP	16 53 16
	eP'	57 19
OV	e(P')	16 57 35
	e	57 46
	ePP	58 16
PF	e(P)	16 53 44
	ePP	58 20
SH	eP	16 53 01
	e	56 46
	ePP	57 21
	iPP	57 26
TUC	eP'	16 57 36
	ePP	58 45
Sept. 14		
BC	eP	17 02 46
	i	02 50
HH	e	17 05 19
OV	iP	17 03 14.5
PHIL	eL	17 45 28
PF	iP	17 03 15.5
	i	03 19.8
	i	03 35.5
TUC	eP	17 03 23
	iP	03 29
	eL	39 04
Sept. 14, H = 19 50 16* 1°N, 126°E. Molucca Passage. Mag. 7.2		
BER	e(P')	20 10 09
	iPP	13 41
	e(SKS)	17 18
	eSS	32 10
	e(SSS)	37 50
	eL	48 20

Date and Station		Phase (GCT)
		h m s
Sept. 14, cont.		
BER, cont.		
$T_{P'}$ = 4 sec. A = 2.4 mm.		
T_{PP} = 10 sec. A = 5.2 mm.		
T_{SS} = 16 sec. A = 2.1 mm.		
T_L = 20 sec. $A_{max.}$ = 2.3 mm.		
BC	iP	20 05 01
	e	05 20
	e	05 55
	eP'	08 57
BOZ	ePP	20 09 29
	e(S)	17 23
	e(PS)	18 54
	e	26 12
	eSSS	28 55
	eL	42 21
BUT	ePP	20 09 24
	e(S)	17 14
	ePS	18 56
	e(SS)	24 27
	e(SSS)	28 38
	eL	36 40
CHI	ePP	20 11 24
	eSKS	16 33
	eSKSP	21 29
	e(PS)	21 42
	e(SS)	28 34
	eSSS	33 16
	eL	41 59
COL	eP	20 03 03
	iP	03 07
	e(PP)	06 15
	iS	13 31
	eScS	14 00
	eL	27 31
COLU	e(PP)	20 12 16
	eL	51 27
HONO	eP	20 02 08
	iP	02 10
	ePPP	05 57
	eS	11 40
	eSS	16 54
	eL	25 27

Date and Station		Phase (GCT)
		h m s
Sept. 14, cont.		
HONO, cont.		
T_S = 16 sec. A = 4.5 mm.		
T_L = 20 sec. $A_{max.}$ = 11.0 mm.		
HUAN	iP'	20 10 14
	ePP	14 30
	eSKS	17 07
	i(SKKS)	21 13
	eSKSP	24 52
	eSS	34 28
	i	35 35
	e	44 35
	e	45 30
HH	iP	20 04 45
	i	04 50
	e	05 22
	iPP	09 08
	iPPP	11 20
	eS	16 48
	ePS	18 33
LOG	eP	20 05 01
	e	08 31
	iPP	09 37
	ePPP	12 06
	iSKS	15 39
	eSKKS	16 39
	eS	17 29
	iPS	19 11
	eSS	25 02
	eL	37 19
NK	eP'	20 09 46
	ePP	11 58
	i	13 02
	eSKS	16 48
	e	27 01
	eSSS	34 04
OV	eP	20 05 01
PHIL	ePP	20 12 07
	e	13 09
	e(SKS)	17 09
	e(SKKS)	19 01
	eSKSP	22 14
	e(PS)	22 30
	e	26 07
	eSS	29 43
	eL	47 56

Date and Station		Phase (GCT) h m s
Sept. 14, cont.		
PF	iP	20 05 04.5
	i	05 14.5
	iS	09 45
RC	eP'	20 09 06
	ePP	10 15
	e	15 16
	e(S)	18 10
	ePS	19 52
	eSS	25 55
	e(SSS)	31 30
	eL	39 41
SLC	epP	20 09 40
	e(SKS)	16 56
	ePS	19 12
	eL	36 54
SJ	eP'	20 10 20
	ePP	14 04
	e	15 10
	e(PPP)	17 49
	eSS	34 08
	eSSS	40 05
	eL	52 22
SH	eP	20 04 26
	i	04 29
	i	07 39
	i	08 09
	e	08 31
	ePP	08 47
	eSKS	15 07
SIT	eP	20 03 35
	ePP	07 19
	ePPP	09 12
	eSKS	14 09
	e(SS)	21 07
	eL	35 20
TUC	eP	20 05 18
	eP'	09 04
	iPP	10 10
	e	10 26
	i	11 04
	e(SKKS)	17 09
	eS	18 03
	iPS	19 56
	eSS	26 32

Date and Station		Phase (GCT) h m s
Sept. 14, cont.		
TUC, cont.		
	e(SSS)	20 30 35
	eL	38 30
UK	ePP	20 08 53
	e(SKS)	15 11
	ePS	17 35
	e(SS)	24 45
	eL	33 48
Sept. 14		
BC	i	20 19 26
	e	20 09
HH	iP	20 19 53
	i	20 08
	e	20 21
OV	i(P)	20 19 55.5
PF	iP	20 19 44.5
	i	19 54.5
SH	iP	20 20 34
TUC	e	20 18 14
	e	19 35
Sept. 14, H = 20 49 50* By PAS, 30.7°N, 114.9°W. Lower California. Mag. 4.4		
BC	eP	20 51 07
	i	51 20
	iL	52 20
PF	iP	20 51 16
	i	51 29.5
	i	51 51
	iS	52 07.5
	iL	52 32
TUC	e	20 51 02
	i	51 08
	iS	51 25
	iL	51 49
Sept. 15		
OV	eP	11 11 13

Date and Station		Phase (GCT) h m s
Sept. 15, cont.		
TUC	e	11 11 16
Sept. 15		
BC	eP	14 52 12
COL	eP	14 50 34
	eL	54 38
HH	eP	14 50 25
	i	50 27
	i	50 39
	eL	54 08
OV	eP	14 52 10
PF	eP	14 52 18
SH	eP	14 50 46
TUC	eP	14 52 57
Sept. 15		
BC	eP	16 07 12
	i	07 16
COL	iP	16 02 12
HH	e	16 06 15
	e	06 19
OV	eP	16 07 11.5
PF	eP	16 07 15
	i	07 18
	i	07 31
SH	iP	16 06 24
	e	06 28
TUC	eP	16 07 42
Sept. 15		
BC	eP	18 49 23
	e	49 42
HH	iP	18 47 55
	i	48 26
	i	48 44
	e	50 36

Date and Station		Phase (GCT) h m s
Sept. 15, cont.		
OV	iP	18 49 21
	i	49 39
SH	iP	18 48 24
	e	48 48
	e	48 56
	e	49 01
TUC	eP	18 50 07
Sept. 15		
HUAN	eP	20 55 38
	iP	55 39
	iS	56 22
	i	56 37
	eL	57 02
Sept. 15		
HH	e	21 04 33
PF	e	21 03 59
	e	04 10
	i	04 52
Sept. 15		
SH	i	22 33 29
Sept. 16		
HH	eP	00 45 49
	i	46 09
OV	i(P)	00 46 46.5
PF	i	00 46 52
	i	47 04
SH	i	00 45 41
Sept. 16		
HH	iP	05 07 47
SH	iP	05 07 38
Sept. 16		
TUC	eP	08 08 51
Sept. 16		
HH	i(P)	08 06 15
	e	06 39
OV	e	08 07 52
	i	07 57

Date and Station		Phase (GCT) h m s
Sept. 16, cont.		
PF	e	08 07 52
	i	08 07
SH	eP	08 06 16
	e	06 23
	e	06 31
Sept. 16		
COL	iP	10 39 09
	i	39 16
	iL	40 40
Sept. 16		
SJ	e	11 39 23
	iL	39 31
Sept. 16		
TUC	e	11 47 11
	i	47 28
	e(S)	48 02
	iL	48 37
Sept. 16		
BC	i	15 02 23
HH	iP	15 01 40
OV	i(P)	15 02 23
SH	iP	15 01 38
	e	01 49
	e	01 59
Sept. 16, H = 15 45 10* 31½°N, 116°W. Lower California. Mag. 4.8		
BC	iP	15 46 21.4
	e	46 30
	i	46 42
	i	47 45.5
CHI	eL	15 58 57
HH	eP	15 49 14
LOG	eP	15 47 48
OV	iP	15 46 09
	i	48 15

Date and Station		Phase (GCT) h m s
Sept. 16, cont.		
PHIL	eL	16 03 21
PF	iP	15 46 26
	i	46 33
	i(S)	47 17
SLC	eL	15 50 58
TUC	eP	15 46 17
	i	46 28
	i	46 41
	i(S)	47 06
	i	47 26
	iL	47 56
Sept. 16		
BC	eP	15 59 50.5
	i	16 00 42
	e(S)	00 59.5
OV	eP	15 59 44
	e(S)	16 00 49
PF	iP	15 59 36
	i	59 42
	i	59 58
	i	16 01 58.5
	e	02 06
	i	02 11
	e	05 17.5
TUC	e	15 59 29
	i	59 50
	e(S)	16 00 22
	iL	01 16
Sept. 16		
BC	eP	16 07 50
	i	08 03
	i	08 13
OV	eP	16 07 50
	e(S)	08 44
	i(L)	09 41
PF	iP	16 07 58
	i	08 03.5
	i	08 41
	iS	09 15.5
	i	10 35

Date and Station		Phase (GCT)
		h m s
Sept. 16, cont.		
TUC	e	16 07 47
	i	07 50
	i	08 09
	e	08 28
	i(S)	08 51
	i	09 10
	iL	09 25
Sept. 16		
BC	iP	17 32 23.5
	i	32 47
	i(S)	33 48
OV	iP	17 32 31
	i	33 24
	i(S)	34 13
	iL	35 36
PF	iP	17 32 29
	i	32 45
	i	32 48
	i(S)	33 45.5
	i	34 06
Sept. 16		
BC	eP	17 44 55
	i	45 06
	i	45 32
	i	46 33
OV	iP	17 44 45
	i	45 49
	i(S)	46 23
	eL	46 30
PF	iP	17 44 39.5
	i	44 45.5
	i(S)	45 41
	i	45 11.5
	i	45 19.3
Sept. 16		
BC	e	17 51 08
PF	iP	17 50 50
	i	50 57
	i(S)	52 30
Sept. 16		
SH	eP	18 40 17
	iP	40 20

Date and Station		Phase (GCT)
		h m s
Sept. 16, H = 19 11 07* 1°N, 126°E. Molucca Passage aftershock.		
COL	eP	19 23 55
	e	26 58
HH	e(P')	19 29 55.5
LOG	e	19 45 00
OV	iP'	19 29 50.5
	ePP	30 44.5
PF	eP'	19 29 50
SH	iPP	19 29 41
TUC	eP'	19 29 58
	ePP	31 19
	eL	20 04 55
Sept. 16		
HH	eP	19 48 46
Sept. 16		
HUAN	eL	20 39 22
PHIL	eL	20 18 59
OV	i	19 58 33
	i	59 01
PF	e	19 59 04
Sept. 16, H = 20 44 45* 32°N, 116°W. Lower California. Mag. 5.1		
BER	eL	21 08 30
BC	e	20 45 53
BOZ	eL	20 53 30
BUT	eL	20 53 00
CHI	eL	20 58 03
HH	e(P)	20 48 45
	eL	53 50

Date and Station		Phase (GCT)
		h m s
Sept. 16, cont.		
LOG	e(P)	20 47 19
	eL	50 18
PHIL	eL	21 02 28
PF	i(P)	20 45 57
	iL	47 55
RC	eP	20 48 25
	e(S)	51 59
	eL	53 21
SLC	eL	20 50 16
SH	e	20 48 33
TUC	eP	20 45 47
	i	45 58
	i	46 13
	eS	46 34
	iL	47 13
UK	eL	20 49 33
Sept. 17		
BC	e	01 18 35
	i	18 56
	i	19 13.5
	i	20 07
PF	iP	01 18 40
	i	18 58
	i(S)	19 51
	i	20 39
	i	21 40
TUC	eP	01 18 30
	i	18 45
	i	18 58
	e(S)	19 30
	i	20 13
	eL	20 21
Sept. 17		
OV	i	01 22 39
Sept. 17		
PF	eP	02 26 28
TUC	iP	02 26 18

Date and Station		Phase (GCT)
		h m s
Sept. 17, H = 02 31 35* 50°N, 129°W. Off west coast of Vancouver Island, British Columbia.		
BC	eP	02 35 43
BOZ	eL	02 39 06
BUT	eL	02 37 51
CHI	eL	02 48 44
HH	eP	02 34 00
	eL	36 35
LOG	eP	02 35 05
PHIL	eL	02 51 53
PF	eP	02 35 46
	i	35 57
	i	36 26.5
SH	iP	02 34 15
	e	34 27
TUC	eP	02 36 34
	iP	36 41
Sept. 17		
TUC	eP	02 44 58
Sept. 17		
HUAN	iP	03 48 18
	i(S)	48 36
	i	48 45
	iL	49 12
Sept. 17		
TUC	e	03 57 22
	e	57 38
Sept. 17		
PF	iP	05 00 33
TUC	iP	04 59 44
	e	05 01 40
Sept. 17, H = 08 59 05** Southern Greece foreshock.		

Date and Station		Phase (GCT)
		h m s
Sept. 17, cont.		
HH	iP	09 11 50
TUC	e	09 12 44
Sept. 17		
TUC	eP	09 26 23
Sept. 17		
TUC	iP	10 44 48
	e	46 32
Sept. 17		
BC	iP	10 47 13
HH	iP	10 47 01
	e	48 35
LOG	eP	10 47 08
OV	iP	10 47 12
	e	48 57.5
PF	eP	10 47 12
SH	e(P)	10 46 55
TUC	eP	10 47 20
Sept. 17		
PF	eP	10 49 10
TUC	iP	10 49 58
Sept. 17		
OV	eP	10 56 52
Sept. 17		
OV	eP	11 00 42
Sept. 17, H = 11 30 06* 37°N, 22½°E. Southern Greece.		
HH	iP	11 42 51
PF	eP	11 43 42
TUC	eP	11 43 47

Date and Station		Phase (GCT)
		h m s
Sept. 17, H = 13 48 46* 35°N, 25°E. Eastern Mediterranean Sea.		
COL	e	14 00 57
Sept. 17, H = 15 22 11* 6°S, 154°E. Solomon Islands region.		
BER	eL	16 35 25
BC	e(P)	15 35 21
COL	eP	15 34 37
OV	eP	15 35 39
PHIL	eL	16 28 06
PF	e(P)	15 36 10
TUC	eP	15 35 43
Sept. 17		
TUC	e	15 52 48
	eL	16 14 53
Sept. 17		
OV	eP	21 33 01
Sept. 17		
HUAN	eL	23 07 52
Sept. 17		
HUAN	eL	23 19 25
Sept. 17		
SJ	e(P)	23 29 19
	e(S)	30 05
	eL	30 06
Sept. 17, H = 22 46 25* 35°S, 154°E. South Pacific Ocean.		
COL	eL	23 45 02
HONO	eL	23 25 46
PHIL	eL	23 46 44

Date and Station		Phase (GCT) h m s
Sept. 17, cont.		
SJ	eL	23 41 14
SIT	eL	23 42 11
TUC	eL	23 40 12
Sept. 18		
OV	eP	00 01 28
Sept. 18		
COL	iP	03 20 22
	e(S)	20 55
	iL	21 06.5
Sept. 18		
HH	e(P)	07 56 15
	e	08 00 05
SIT	eP	07 53 46
	eS	54 20
	eL	54 29
TUC	e	07 59 33
	e	08 00 08.5
Sept. 18		
OV	eP	10 58 53
Sept. 18		
OV	eP	11 04 02
Sept. 18, H = 11 59 00** Queen Charlotte Islands aftershock.		
COL	eL	12 05 55
HH	eP	12 02 13
	e	02 22.5
	eL	06 06
SIT	eP	11 59 42
	e(S)	12 00 22
	eL	00 30
Sept. 18, H = 12 45 57* 18°S, 69°W. Northern Chile-Bolivia border. h = about 200 km.		
BC	iP	12 56 45

Date and Station		Phase (GCT) h m s
Sept. 18, cont.		
HUAN	eP	12 47 56
	e	48 11
	e	49 12
	eS	49 22
	eL	49 52
HH	iP	12 57 33
	e	58 03
LOG	eP	12 56 58
OV	iP	12 56 47
	iPcP	57 15
	ipP	57 42
PF	iP	12 56 43
SH	iP	12 57 26
	e	57 58
TUC	iP	12 56 13
Sept. 18		
COL	eP	13 39 18
	e(S)	40 14
	iL	40 30
Sept. 18		
COL	e	17 29 28
	eL	30 00
Sept. 18		
COL	eP	22 04 36
Sept. 19		
OV	e	00 09 02
Sept. 19		
SH	e(P)	02 01 35
Sept. 19		
LOG	eP	02 38 39
Sept. 19		
OV	eP	05 09 30
Sept. 19		
COL	eP	08 04 11
	e	04 18.5
TUC	e	08 10 15

Date and Station		Phase (GCT) h m s
Sept. 19		
TUC	e	08 20 43
Sept. 19		
COL	iP	08 59 16.5
	eL	09 00 16.5
Sept. 19, H = 13 08 51** Mona Passage.		
COL	eP	13 19 51
HH	eP	13 17 22
	i	17 28
OV	eP	13 16 57
	i	17 05
	i	17 28
SJ	eP	13 09 31
	e	09 40
	iS	09 55
	iL	10 11
SH	eP	13 17 47.5
	i	17 54
Sept. 19		
COL	eP	16 32 25
OV	eP	16 36 09
Sept. 19		
HH	eP	17 59 29
TUC	iP	17 55 56
	i	56 11
	i	56 31
	i(S)	57 04
	i	57 09
	i	57 23
	iL	57 47
Sept. 19, H = 21 42 21* 53½°S, 2½°W. South Atlantic Ocean.		
COL	eP'	22 02 29
	iP'	02 47

Date and Station		Phase (GCT) h m s
Sept. 19, cont.		
HUAN	e(P)	21 54 00
	eS	02 45
	e	03 22
	eSS	07 05
	eL	10 35
HH	eP'	22 01 52
PF	e(P')	22 01 56
SJ	eP	21 55 33
	eSKS	22 05 42
	eL	21 10
TUC	e	22 01 15
Sept. 20, H = 02 26 42* 39°N, 138°E. Off north coast of Honshu, Japan.		
BC	e(P)	02 38 51
SH	iP	02 38 07
HH	eP	02 38 08
PF	eP	02 38 33
TUC	eP	02 39 17
Sept. 20, H = 04 14 11 By PAS, 34°53'N, 116°40'W. North of Newberry, Calif. Felt in Yermo. Mag. 4.1		
BC	iP	04 14 44
	i	14 47
	iS	15 06
	i	15 12
	iL	15 22
PF	iP	04 15 53
	i	16 00
	i	16 14
	iS	16 27
TUC	iP	04 15 33
	i	15 40
	e	15 49

Date and Station		Phase (GCT) h m s
Sept. 20, cont.		
TUC, cont.	i	04 15 58
	e	16 07
	e(S)	16 42
	iL	16 59
Sept. 20		
COL	iP	05 57 42
	iL	58 46
Sept. 20		
BC	e	06 51 09
TUC	eP	06 47 45
	i	47 48
	i	48 03
	i	48 14
	e(S)	48 33
	i	48 43
	i	48 57
	e	49 04
	eL	49 18
Sept. 20		
COL	e(P)	07 55 17
Sept. 20		
HH	eP	09 03 43
	i	03 46
Sept. 20		
COL	iP	10 41 42.5
	eL	42 12
HH	iP	10 45 58
Sept. 20, H = 11 55 29* 30°S, 178°W. Kermadec Islands. h = about 80 km. Mag. 6.9		
BER	ePP	12 16 06
	eSKS	21 20
	ePS	26 06
	e(SS)	33 15
	eL	47 10
T_L = 20 sec. $A_{max.}$ = 0.4 mm.		
BC	iP	12 08 14

Date and Station		Phase (GCT) h m s
Sept. 20, cont.		
BOZ	ePP	12 12 46
	e(SKS)	19 30
	eL	40 19
BUT	e	12 25 05
	e	25 29
CHI	e(S)	12 22 05
	eL	52 00
COL	eP	12 08 52
	e	11 57
	ePP	13 02
	eSKS	19 26
	iS	20 10
	e	26 33
	eSSS	31 01
	eL	38 11
HONO	eP	12 04 51
	eS	12 23
	eL	21 17
HUAN	e(P)	12 09 00
	esP	09 16
	e(PP)	12 50
	e(SKS)	19 18
	i	21 23
	e(SS)	26 23
	e(SSS)	34 13
	eL	38 05
HH	eP	12 08 48
	epP	09 14
	i	10 15
	ePP	12 48
LOG	eP	12 08 36
	ePP	12 26
	e(SKS)	19 10
	eS	19 42
	ipS	20 04
	e	22 10
	eSS	26 01
	e	27 29
	eL	34 04
NK	eL	12 58 10

Date and Station		Phase (GCT)
		h m s
Sept. 20, cont.		
PHIL	e(PP)	12 15 31
	eSKS	20 56
	e(SKKS)	22 14
	e(PS)	25 27
	eSS	31 39
	eL	51 34
PF	eP	12 08 16
	iP	08 17
	i	09 34
RC	eP	12 09 10
	e	12 43
	e(SKS)	19 47
	eL	42 46
SLC	e(SKS)	12 19 11
	e	23 31
SJ	iSKS	12 20 55
	ePS	25 04
	eL	50 42
SH	iP	12 08 06
	ePP	11 45
	eS	18 42
SIT	ePS	12 21 06
	i	21 22
	e	23 56
	eL	38 00
TUC	eP	12 08 16
	iP	08 17
	ipP	08 34
	ePP	11 51
	e(PPP)	12 36
	eS	18 58
	ePS	20 10
	eL	35 38
UK	e(P)	12 08 11
	eSKS	18 52
	e	24 26
	eL	34 29
Sept. 20		
COL	eS	12 19 24
	eL	20 01

Date and Station		Phase (GCT)
		h m s
Sept. 20, H = 12 18 20** Off coast of British Columbia.		
BC	eP	12 22 48
BOZ	eL	12 25 51
CHI	eL	12 34 51
COL	e(P)	12 22 09
	e	24 05
	e	25 47.5
	eL	26 12
HH	iP	12 21 03
	eL	23 58
PF	eP	12 22 50
	iP	22 52
RC	eP	12 22 45
	eL	28 29
SLC	eL	12 38 05
SH	eP	12 21 20
	i	21 43
TUC	eP	12 23 39
	e(PP)	24 24
Sept. 20		
COL	e	13 41 16
HH	eP	13 43 53
Sept. 20		
COL	e	22 33 42
Sept. 21		
BER	eL	02 35 10
OV	eP	02 35 12
TUC	e	02 34 52
Sept. 21		
COL	e	02 57 03
Sept. 21		
COL	e	03 42 58

Date and Station		Phase (GCT)
		h m s
Sept. 21		
COL	eP	06 56 08
Sept. 21		
OV	eP	07 42 56
Sept. 21		
OV	eP	12 11 13
Sept. 21, H = 12 55 11* 17°N, 94½°W. Oaxaca, Mexico. h = about 100 km.		
BH	e(P)	12 59 07
BER	e(P)	13 01 32
	epP	01 43
	e	05 29
	eL	07 20
T_L = 20 sec. $A_{max.}$ = 4.0mm.		
BC	iP	13 00 43
	i	00 53
	isP	01 14
BOZ	epP	13 02 00
	iPP	02 53
	eS	06 52
	esS	07 22
	eL	08 35
BUT	eP	13 01 40
	ipP	02 05
	isP	02 22
	e	02 44
	e(S)	07 10
	eL	11 56
CHI	eP	13 00 32
	esP	01 04
	iS	04 55
	esS	05 36
	eL	06 34
COL	iP	13 05 10
	ipP	05 33
	e	07 14
	e	08 27
	eS	13 10
	e	16 58
	eL	23 00

Date and Station		Phase (GCT) h m s
Sept. 21, cont.		
COLU	eP	12 59 51
	eS	03 36
	eL	05 06
HONO	eP	13 05 11
	e(PP)	07 42
	eS	13 11
	eL	20 08
T_L = 22 sec. $A_{max.}$ = 2.5 mm.		
HUAN	iP	13 01 57
	iPP	03 18
	isPP	03 52
	iS	07 23
	iL	09 35
HH	iP	13 02 01
	eS	07 43
LOG	eP	13 01 06
	ipP	01 29
	isP	01 43
	iPP	02 06
	iPcP	04 09
	i	05 31
	iS	06 07
	isS	06 41
	iL	08 17
NK	e(P)	13 01 21
	isS	06 04
	iL	06 25
OV	iP	13 00 44
	ipP	01 00
	isP	01 14
	i	01 29
	isPP	02 01
	e	03 31
	e(PcP)	04 16
PHIL	eP	13 01 01
	ipP	01 29
	eS	05 47
	esS	06 25
	iL	06 58
PF	eP	13 00 40
	iP	00 42
	i	00 57
	iPP	01 39

Date and Station		Phase (GCT) h m s
Sept. 21, cont.		
RC	i(P)	13 01 09
	eS	05 45
	esS	06 27
SLC	e(P)	13 01 10
	e(S)	05 37
	eL	07 21
SJ	epP	13 01 02
	iPP	01 44
	eS	05 25
	eL	06 23
SH	eP	13 01 56
	ipP	02 16
	eS	07 27
SIT	e(S)	13 11 18
	eL	20 05
TUC	eP	12 59 56
	iP	59 59
	ipP	13 00 24
	esP	00 31
	eS	04 01
	iS	04 02
	isS	04 30
	eL	04 53
UK	epP	13 02 21
	esP	02 44
	eS	07 29
	eL	10 21
Sept. 21		
HH	iP	13 32 48
Sept. 21, H = 18 19 40** Samoa Islands region.		
BER	eL	19 19 21
BC	eP	18 31 29
BOZ	eS	18 42 28
	e	43 25
	eL	56 15
BUT	eL	19 02 00
CHI	eL	18 58 12

Date and Station		Phase (GCT) h m s
Sept. 21, cont.		
COL	eP	18 32 05.5
	eL	54 14
HONO	e(P)	18 27 06
	eL	36 06
HUAN	eS	18 43 37
	e	50 40
	eL	19 04 10
HH	iP	18 32 04
LOG	eP	18 31 51
	eS	41 54
	eL	56 53
OV	iP	18 31 31
PHIL	eL	19 07 47
PF	eP	18 31 29
	iP	32 33
RC	eL	19 04 37
SLC	eL	18 59 35
SIT	eL	18 55 33
TUC	eP	18 31 31
	iP	31 35
	eS	41 19
	eL	54 17
UK	eL	18 48 52
Sept. 21		
COL	iP	21 36 03
Sept. 21		
OV	eP	22 09 00
Sept. 21		
COL	e	22 24 35
Sept. 22, H = 00 37 50* 52°N, 175°W. Aleutian Islands.		
BC	eP	00 46 10

Date and Station		Phase (GCT) h m s
Sept. 22, cont.		
COL	e	00 42 42
HH	iP	00 45 14
	e	45 53
OV	eP	00 46 09
PF	iP	00 46 14
SH	iP	00 45 08
	i	45 27
	i	45 37
TUC	iP	00 46 47
Sept. 22		
HH	iP	00 50 56
Sept. 22		
BC	eP	09 36 09
OV	iP	09 36 49
PF	iP	09 37 12
TUC	iP	09 36 44
Sept. 22		
HH	iP	12 12 05
PF	eP	12 11 48
SH	iP	12 11 59
TUC	iP	12 10 51
	e	11 10
Sept. 22		
TUC	e	12 19 12
Sept. 22		
TUC	e	15 04 51
Sept. 22, H = 15 38 15* 42°N, 142°E. Near south coast of Hokkaido, Japan.		
BC	eP	15 50 03
COL	iP	15 46 30.5
Sept. 22, cont.		
HH	iP	15 49 13.5
	i	49 15
	i	49 32
PF	eP	15 50 02
	e	50 20
TUC	eP	15 50 28
	e	50 45
Sept. 22		
SH	eP	18 31 13
Sept. 22		
BH	iP	18 33 53
	eS	34 02
Sept. 22		
COL	eP	19 55 33
HH	eP	19 58 48
	e	58 53
	i	58 59.5
Sept. 23		
PF	eP	06 00 33
TUC	iP	06 00 34
	epP	01 34
Sept. 23		
BC	iP	08 23 27
COL	iP	08 19 57
HH	iP	08 22 39
	e	22 46
PF	iP	08 23 30
SH	iP	08 22 37
	i	22 45
	i	22 51
TUC	iP	08 23 53
Sept. 23		
SH	iP	10 38 47
	i	39 08
	i	39 48
Sept. 23		
PF	eP	21 45 27
	i	46 16
	iL	46 26
TUC	e	21 46 02
	i	46 19
	e(S)	46 47
	i	46 55
	iL	47 22
Sept. 24		
COL	e	03 55 39
Sept. 24, H = 04 17 38* 6°S, 153½°E. Solomon Islands region. Mag. 7		
BER	ePP	04 39 33
	e(SKS)	45 06
	e(SS)	59 41
	eL	05 15 12
T_L = 20 sec. $A_{max.}$ = 1.5 mm.		
BC	eP	04 31 02
	i	31 06
	i	31 14
BOZ	eSKS	04 41 55
	eL	05 03 07
CHI	ePS	04 46 51
	eL	05 09 55
COL	eP	04 30 03
	e(PP)	33 32
	eS	40 11
	eL	53 45
COLU	eL	05 15 09
HONO	eP	04 27 10
	eS	34 48
	eL	42 36
HUAN	e	04 36 22
	e	43 22
	e	51 32
	e	54 22
	eSS	56 45
	eL	05 13 00

Date and Station		Phase (GCT) h m s
Sept. 24, cont.		
HH	eP	04 31 06
	iP	31 11
	e	31 24
	ePP	35 04
LOG	eP	04 31 12
	e	34 41
	e	37 25
	ePS	43 53
	eL	59 27
NK	eL	04 56 57
PHIL	ePP	04 38 41
	e(PS)	48 29
	eSS	55 38
	eL	05 15 56
PF	iP	04 31 08
SLC	ePP	04 35 30
	ePS	44 00
	e	45 01
	eL	05 01 32
SJ	eP'	04 37 12
	ePP	40 22
	eSKS	44 22
	e(SS)	59 10
	eL	05 14 08
SH	iP	04 30 37
	e	32 48
	e	33 00
	i	33 09
SIT	e(P)	04 30 23
	eS	40 34
	eSS	46 04
	eL	56 22
TUC	eP	04 31 17
	ePP	35 10
	ePPP	37 27
	eS	42 48
	ePS	43 53
	eSS	49 10
	eL	05 01 34
UK	eP	04 30 36
	eS	41 12
	eL	57 16

Date and Station		Phase (GCT) h m s
Sept. 24		
TUC	e	04 51 05
Sept. 24, H = 07 22 43* 1°S, 102½°E. Central Sumatra. Felt in Painan.		
COL	ePP	07 40 32
HH	iP	07 41 43
	i	42 12
	i	42 56
	ePP	43 28
LOG	e	07 45 05
TUC	eP'	07 42 12
	i(PP)	45 30
Sept. 24		
COL	e	09 41 13
Sept. 24		
BH	iP	10 10 14
	eS	10 42
Sept. 24		
COL	eP	12 16 24
	i	16 34.5
Sept. 24		
TUC	e	13 09 27
Sept. 24		
HH	iP	23 57 04.5
Sept. 25		
HH	iP	07 27 38
	i	27 53
PF	eP	07 26 26.6
	i	26 51
	e	27 59
	e(S)	29 05.5
TUC	e	07 25 48
	i	25 53
Sept. 25, H = 15 15 00* 6°S, 154½°E. Solomon Islands region. Mag. 6½		

Date and Station		Phase (GCT) h m s
Sept. 25, cont.		
BER	eL	16 21 36
BC	iP	15 28 26.5
	e	28 36.5
	e	28 43
BOZ	eL	16 03 07
CHI	eL	16 10 37
COL	eP	15 27 25
	eS	37 42
	eL	50 25
HONO	eL	15 39 27
HUAN	eL	16 22 00
HH	iP	15 28 32
LOG	eL	16 01 25
PHIL	eL	16 14 42
PF	e(P)	15 27 58
	i	28 07
RC	eL	16 04 19
SLC	eL	16 01 03
SJ	e(P')	15 34 12
	e(PP)	38 07
	e(SKS)	42 00
	eL	16 21 20
SH	eP	15 27 59
	i	28 16
	e(PP)	31 42
SIT	e(P)	15 27 57
	eS	38 04
	eL	53 46
TUC	eP	15 28 36
	ePP	32 33
	e	34 48
	eSKS	39 27
	eL	59 57
UK	eS	15 38 34
	eL	56 30

Date and Station	Phase	(GCT)
		h m s
Sept. 25, H = 15 57 32* 6°S, 154½°E. Solomon Islands region aftershock.		
BC	iP	16 10 57
	e	12 06
COL	eP	16 09 56
HH	iP	16 11 00
PF	eP	16 10 59
	e	11 10
SH	eP	16 10 26
TUC	eP	16 11 11
Sept. 25		
HH	eP	18 12 48
Sept. 25		
PF	e	18 21 37
Sept. 25		
BC	i	22 56 15
	i	56 26.5
	iS	56 49
	i	57 02.5
Sept. 26, H = 03 05 11* 6°S, 154½°E. Solomon Islands region aftershock.		
BC	eP	03 18 35
BOZ	ePP	03 23 14
	eL	46 07
CHI	eL	04 11 06
COL	eP	03 17 32
HH	eP	03 18 39
	i	18 57
LOG	eL	03 55 07
PHIL	eL	04 10 58

Date and Station	Phase	(GCT)
		h m s
Sept. 26, cont.		
SH	e(P)	03 18 09
	i	18 17
	e	18 21
TUC	eL	03 53 40
Sept. 26		
PF	i	05 58 28.5
Sept. 26, H = 08 04 13* 6°S, 154½°E. Solomon Islands region aftershock.		
BC	iP	08 17 37
	e	17 48.5
COL	i(P)	08 16 38
	eL	46 50
HH	eP	08 17 40
	e	17 52
LOG	eL	08 59 00
PHIL	eL	09 08 23
PF	eP	08 17 40.5
	i	17 49
SH	i(P)	08 17 11
TUC	eP	08 17 51
	eL	51 05
Sept. 26, H = 10 00 59** Northwestern Argentina.		
COL	e	10 16 21
HH	iP	10 13 48
PF	eP	10 13 01.5
Sept. 26		
COL	eP	10 28 51
Sept. 26		
HH	iP	22 23 54

Date and Station	Phase	(GCT)
		h m s
Sept. 26, H = 22 32 00** Solomon Islands aftershock.		
COL	iP	22 44 28
HH	eP	22 45 31
PF	e	22 45 33
SH	eP	22 45 03
TUC	eP	22 45 47
Sept. 27		
TUC	e	02 20 32
	i	20 34
Sept. 27		
BC	e	05 29 39
	e	29 56
	e	30 08.5
PF	iP	05 29 52
	i(S)	30 20
Sept. 27		
PF	eP	08 29 08
	i	29 14
	e	30 04
	e	30 47
Sept. 27		
PF	e	09 17 17
Sept. 27		
PF	e	09 21 44
	e	22 19
Sept. 27		
BH	iP	11 35 21
	iS	35 37
PF	e	11 42 43
TUC	eP	11 42 08
	i	42 34
Sept. 27		
COL	e(P)	11 56 03

Date and Station		Phase (GCT)
		h m s
Sept. 27, H = 11 54 12** Moluccas.		
HH	iP	12 13 03
PF	eP	12 13 12
	e	13 21
	e	14 21
TUC	eP	12 13 19
	i	13 27
Sept. 27		
TUC	e	12 26 37
Sept. 27		
PF	e	12 38 49
Sept. 27		
PF	iP	13 09 53.5
Sept. 27, H = 15 30 43* 60°N, 149°W. Near south coast of Alaska. Felt in Anchorage. h = about 50 km. Mag. 7		
BER	e(P)	15 41 07
	i(S)	49 05
	iScS	50 46
	i(SS)	53 05
	eL	54 11
BC	iP	15 37 22
	ipP	37 31.2
	i	37 54.5
	i	40 45
	iS	42 40
	e	43 33
	eL	46 38
BOZ	eP	15 36 24
	e	37 26
	iS	41 03
	eL	42 19
BUT	eP	15 36 14
	e	36 39
	i(S)	41 09
	eL	42 19

Date and Station		Phase (GCT)
		h m s
Sept. 27, cont.		
CHI	eP	15 38 34
	e(PP)	40 12
	e(PPP)	40 55
	iS	44 39
	eSS	47 29
	eL	47 42
COL	iP	15 31 56
	i(S)	32 54
	eL	33 56
COLU	eP	15 39 49
	eS	46 54
	eSS	50 15
HONO	eP	15 38 12
	ePP	39 40
	ePPP	40 22
	e(S)	44 16
	eL	47 13
T_P = 1.5 sec. A = 1.5 mm. T_S = 12 sec. A = 3.0 mm. T_L = 20 sec. $A_{max.}$=17.0mm.		
HUAN	eP	15 43 55
	i	45 02
	ePP	47 54
	e	48 07
	eSKS	54 24
	i(PS)	56 28
	e	59 45
	eSS	16 01 00
	e	04 32
	eSSS	05 00
	eL	10 50
HH	iP	15 35 52
	i(PP)	36 43.5
	i	37 09
	eS	40 01
LOG	iP	15 36 44
	i	37 08
	i	37 30
	i	38 02
	i	38 33
	iS	41 42
	iL	42 44
NK	e(P)	15 38 55
	eS	45 52
	eL	48 57

Date and Station		Phase (GCT)
		h m s
Sept. 27, cont.		
PHIL	eP	15 39 30
	ePP	41 30
	iS	46 29
	eScS	49 19
	eSS	50 01
	eL	52 27
PF	iP	15 37 19
	i	37 32
	iPP	38 30.5
	i(S)	42 52
	eL	46 12
RC	eP	15 37 09
	e(PP)	38 41
	eS	42 13
	eL	44 51
SLC	eP	15 36 54
	iS	41 54
	eL	43 26
SJ	eP	15 41 57
	ePP	44 30
	e(PPP)	46 32
	iS	51 09
	eSS	55 42
	e(SSS)	59 31
	eL	16 01 08
SH	iP	15 36 11.5
	iPP	37 02.5
	eS	40 36
SIT	eP	15 32 36
	iS	33 58
	eL	34 35
TUC	iP	15 37 59
	iPP	39 28
	iPPP	39 58
	eS	43 57
	iS	44 01
	eL	46 38
UK	e(P)	15 36 29
	e(S)	41 08
	eL	42 31
Sept. 27		
BC	e	17 21 39
	e	21 59

Date and Station		Phase (GCT)
		h m s
Sept. 27, cont.		
PF	i	17 21 48
Sept. 27		
COL	iP	17 23 11
	i	23 26
	iS	24 31
	iL	24 49
Sept. 27, H = 17 54 17** Fiji Islands region. h = about 550 km.		
BC	iP	18 05 33.5
	ipP	07 31
COL	e	18 07 55
PF	iP	18 05 37.4
	i	06 49
	ipP	07 37
	i	07 40.5
TUC	iP	18 05 41
	epP	07 37
Sept. 27, H = 18 21 54* 60°N, 149°W. Alaska aftershock.		
BC	eP	18 28 26
COL	iP	18 23 10
	eL	25 00
HH	iP	18 27 01
PF	eP	18 28 28.5
	e	28 48.5
SH	iP	18 27 21
	e	27 53
TUC	eP	18 29 09
Sept. 27		
COL	iP	18 31 25
	e(S)	31 48
	eL	32 20.5
Sept. 27, H = 19 23 10** Fiji Islands region.		
		h m s
Sept. 27, cont.		
BC	eP	19 35 25
COL	iP	19 35 49
HH	iP	19 36 02
PF	iP	19 35 29.2
	e	37 10.5
SH	eP	19 35 12.5
TUC	iP	19 35 33
Sept. 27, H = 20 53 14** Mindanao, Philippine Islands.		
COL	eP	21 05 44.5
HH	eP	21 07 27
SH	eP	21 07 15
	e	07 31
Sept. 27		
HH	e(P)	21 11 36
SH	eP	21 11 24
	e	11 35
TUC	e	21 12 41
Sept. 27		
PF	iP	21 24 28.8
	i	24 51.5
	i(S)	24 55.6
Sept. 27		
COL	eP	22 14 05
	i	14 23
HH	eP	22 17 33
	i	18 01
PF	eP	22 18 46
	i	19 05
	i	19 25
SH	eP	22 17 18
	i(pP)	17 23
	i	17 37
		h m s
Sept. 27, cont.		
TUC	e	22 18 47
Sept. 27		
HH	iP	22 30 14.5
Sept. 27		
COL	iP	23 48 24
HH	iP	23 50 32
SH	eP	23 50 30
	e	50 56
Sept. 28		
COL	i(P)	00 31 12
Sept. 28		
TUC	eP	08 15 18
Sept. 28		
PF	e	09 10 13
Sept. 28, H = 15 07 21* 31°S, 177°W. Kermadec Islands region. Mag. 6½		
PF	eP	13 52 56
Sept. 28		
BC	iP	15 20 18
	i	20 27.0
	e	20 33
HH	eP	15 20 54
LOG	e	15 20 39
PF	iP	15 20 35.2
	i	20 43.5
	i	20 50
	e	22 11.7
SH	iP	15 20 09
	i	20 33.5
	i	20 39
TUC	eP	15 20 19
	iP	20 20
	i	20 29
	i	20 35
	i	20 52
	eL	58 30

Date and Station		Phase (GCT) h m s
Sept. 28		
PF	eP	16 12 07.5
	i	12 19
Sept. 28		
TUC	eP	16 49 33
Sept. 28		
COL	iP	23 29 28
TUC	eP	23 28 53
Sept. 29		
COL	eP	04 48 29
	i(S)	49 28
	iL	49 51
HH	eP	04 51 52
	e	52 01
Sept. 29		
COL	iP	04 58 00.5
Sept. 29		
HH	iP	05 00 06
SH	iP	05 00 33
Sept. 29		
BC	e	06 06 53
PF	e	06 07 18
SH	iP	06 06 42
Sept. 29		
PF	e	12 42 48
TUC	eP	12 42 50
Sept. 29		
HH	iP	13 44 31
PF	e	13 43 15
Sept. 29		
PF	iP	18 44 42.7
	i	45 05.5
	e(S)	45 15
Sept. 29		
HH	iP	23 16 57

Date and Station		Phase (GCT) h m s
Sept. 29, cont.		
SH	eP	23 16 55
	iP	16 56
Sept. 29		
SH	iP	23 28 41
Sept. 30		
PF	e	03 29 31.0
TUC	eP	03 29 31
Sept. 30, H = 04 09 44** Tonga Islands after-shock.		
BER	ePS	04 29 17
BC	e(P)	04 11 32
BOZ	eS	04 22 32
	e	22 57
	eL	40 12
CHI	e(S)	04 24 57
	ePS	25 27
	eL	46 07
COL	eS	04 22 49
	e	22 58.5
	eL	44 00
COLU	eL	04 49 43
HONO	eS	04 14 32
	eScS	17 12
	eL	21 18
HUAN	e	04 22 16
	e(SKS)	22 49
	e	25 46
	e(PS)	30 37
	e	31 16
	eL	42 33
HH	eP	04 11 54
	i	12 40
	e(PP)	15 10
LIN	e(SKS)	04 23 10
	eL	43 35

Date and Station		Phase (GCT) h m s
Sept. 30, cont.		
LOG	eP	04 11 41
	eS	22 14
	eSS	28 18
	eL	38 14
NK	ePS	04 27 19
	e	36 45
	eL	54 04
PHIL	eS	04 26 04
	ePS	27 49
	ePPS	28 59
	eSS	34 05
	e(SSS)	37 59
	eL	49 05
PF	iP	04 11 20.9
	i	11 45
	e	13 03
	e	19 12
RC	eS	04 23 29
	eL	44 11
SLC	eS	04 22 14
	eL	37 40
SJ	ePP	04 18 28
	eSKS	24 16
	eS	26 12
	ePS	28 06
	eSS	34 14
	eL	51 23
SH	iP	04 11 07
	ePP	14 14
SIT	eP	04 11 32
	eS	22 20
	eSS	28 14
	eL	37 42
TUC	eP	04 11 20
	iP	11 22
	eS	21 43
	e(SS)	27 30
	eL	35 13
UK	e(S)	04 21 07
	eL	32 56

Date and Station		Phase (GCT)
		h m s
Sept. 30		
BC	i(P)	04 22 19.5
HH	eP	04 22 44
PF	iP	04 22 13
	i	22 43
	e	23 41
SH	iP	04 22 00
	i	22 12
TUC	iP	04 22 12
Sept. 30		
PF	e	05 40 46
Sept. 30		
COL	iP	07 39 59
	i(pP)	40 01.5
HH	iP	07 42 53
TUC	eP	07 44 13
Sept. 30, H = 08 50 06* 11°S, 163°E. Solomon Islands.		
BC	iP	09 03 10
	i	03 21
HH	eP	09 03 12
	iP	03 23
PHIL	eL	09 57 14
PF	iP	09 03 14
	e	03 50
	i	04 10
SIT	eL	09 47 28
TUC	e(P)	09 03 38
	eL	38 09
Sept. 30, H = 15 16 07* 22°S, 170°E. Loyalty Islands region. h = about 100 km.		

Date and Station		Phase (GCT)
		h m s
Sept. 30, cont.		
BC	eP	15 29 08
BOZ	eL	16 04 07
COL	eP	15 29 10
	eL	16 00 15
PHIL	eL	16 19 09
PF	iP	15 29 10
	e	29 55.5
TUC	eP	15 29 14
	e	36 36
	eL	59 51
Sept. 30		
PF	eP	09 04 24
Sept. 30		
COL	iP	11 53 21
	eL	54 00
Sept. 30		
BC	e	16 51 53
COL	iP	16 52 31.5
OV	iP	16 51 55
PF	iP	16 51 56
	i	52 25.3
SH	iP	16 51 12
TUC	eP	16 51 55
	e	52 08
Sept. 30		
COL	eP	17 31 53
	i	33 11
Sept. 30, H = 18 19 35* 23°S, 176°W. Tonga Islands region.		
BC	iP	18 32 01
BOZ	eL	19 00 47

Date and Station		Phase (GCT)
		h m s
Sept. 30, cont.		
CHI	eL	19 12 07
HUAN	eL	19 04 30
HH	iP	18 32 38
LOG	eP	18 32 22
	eS	43 17
	eSS	49 00
	eL	19 01 34
OV	iP	18 32 05
	i	32 19
PHIL	eL	19 17 49
PF	iP	18 32 05
	e	33 59
SH	iP	18 31 52
	i	32 23
	ePP	35 09
TUC	eP	18 32 05
	eS	42 32
	eL	59 57
Sept. 30		
PF	i	20 29 59
TUC	eP	20 29 21
	e(S)	29 49
	eL	30 09
Sept. 30		
BC	iP	21 54 46.7
	i	54 56
	e	55 40
PF	iP	21 54 46.6
	i	55 16.3
	iS	55 48.3
Sept. 30, H = 22 06 55* 23°S, 176°W. Tonga Islands region.		
BC	iP	22 19 18
	i	20 04
	iPP	22 28

Date and Station		Phase (GCT) h m s
Sept. 30, cont.		
BOZ	eL	22 54 22
CHI	eL	23 00 20
COL	iP	22 19 57.5
	e	23 06.5
HUAN	eL	22 52 16
HH	iP	22 19 55
	i	20 09
	e	23 05
LOG	eP	22 19 42
	eL	48 45
OV	iP	22 19 22
	i	19 35
PHIL	eL	23 07 24
PF	iP	22 19 22
	i	20 08.4
	iPP	22 33
	e	23 32
SLC	eL	22 51 05
SH	iP	22 19 08
	i	19 17
	i	19 21
	ePP	22 20
TUC	eP	22 19 22
	i	22 36
	eL	48 18
Sept. 30		
OV	iP	22 42 32
Sept. 30		
PF	eP	23 23 42.5

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
BOZ		COL,	cont.	COL,	cont.	COL,	cont.	COL,	cont.	COL,	cont.
Aug.		6	13.4	11	10.6	16	00.2	18	12.8	22	00.9
22	19.9		13.4		12.5		01.6		12.8		02.5
	21.8		13.9		14.0		03.3		13.8		02.6
23	02.1		14.1		14.1		04.8		15.4		02.9
			15.1		21.2		06.7		16.5		03.1
COL			20.2		21.6		07.4		16.6		03.2
July			20.7		23.1		08.6		20.4		03.2
1	01.5		22.3		23.8		08.7	19	00.6		03.3
	06.2	7	00.8		23.9		09.0		04.6		03.3
	06.6		01.7		23.9		09.4		05.0		04.1
	07.4		02.4	12	02.1		13.4		06.1		04.1
	09.8		04.6		02.1		15.0		09.7		04.5
	10.5		08.4		02.9		15.4		10.0		06.6
	13.3		12.3		04.7		16.8		10.3		13.2
	15.1		12.9		04.7		17.0		10.7		14.3
2	00.2		13.0		10.1		19.3		10.7		15.3
	01.0		14.0		12.1		22.3		12.4	23	03.5
	01.4		15.6		12.4	17	00.2		14.2		03.7
	09.0		15.8		14.7		03.1		17.5		06.1
	12.7		15.9		20.4		03.7		23.8		06.2
	13.1		16.8		12.4		03.7	20	00.3		09.0
3	01.2	9	04.5		23.2		03.8		00.3		11.6
	02.5		12.8	13	02.1		03.9		02.4		16.0
	03.7		15.0		04.2		04.0		03.3		16.7
	12.8		17.1		05.4		04.0		04.1	24	01.3
	15.8		19.4		10.9		05.5		05.5		02.6
4	00.7	10	04.5		12.4		07.0		05.7		08.7
	23.0		04.9		22.8		10.2		13.3		15.0
	23.4		06.0		23.5		10.3		15.4		19.4
	23.9		06.9		23.7		12.0		16.6		21.3
5	00.7		08.2		23.9		12.2		17.1		23.2
	01.1		10.0	14	00.0		14.9		17.2		23.6
	01.4		12.8		00.7		15.0		18.6	25	00.9
	04.7		15.0		03.6		20.4		18.6		01.4
	05.5		15.5		04.0		20.6		18.9		01.5
	06.9		16.0		07.9		21.3		21.1		01.5
	07.8		19.3		10.1		21.4		21.4		01.5
	09.1	11	02.2		12.8		22.6		22.0		01.6
	10.5		02.3		12.9	18	00.2	21	02.4		01.6
	12.4		03.7		20.7		01.9		03.4		01.6
	12.5		03.7	15	00.8		03.7		03.8		01.8
	14.2		04.8		07.1		03.8		11.6		03.3
	14.4		04.8		08.1		04.3		12.3		05.5
	14.8		05.1		13.0		05.9		12.3		05.7
	15.4		05.8		14.0		08.0		14.6		06.5
	15.5		06.4		16.0		08.2		16.9		09.5
	15.9		07.4		17.1	19	09.1		17.1		10.9
	16.5		07.7		17.2		09.4		21.5		12.9
	16.7		07.8		17.9		10.3		21.6		14.9
	18.5		08.8		19.6		10.3		21.7		18.1
	18.5		08.9		22.5		11.7		21.7		19.1

Local and Minor Earthquakes, cont.

day	hour
COL,	cont.
25	23.8
26	00.6
	00.8
	02.1
	02.3
	02.4
	02.8
	03.3
	03.8
	03.9
	04.0
	04.3
	04.6
	09.3
	11.7
	23.3
27	02.4
	05.4
	06.1
	06.7
	08.6
	10.9
	14.9
	16.3
	16.4
	16.9
30	15.1
	18.0
	21.5
31	00.1
	07.1
	04.5
	10.2
	10.9
	11.0
	11.5
	11.7
	12.1
	15.0
	16.4
	16.6
	21.3
	22.9
Aug.	
1	00.7
	01.4
	01.5
	02.3
	04.7
	07.0

day	hour
COL,	cont.
1	10.7
	10.7
	16.4
	16.6
	21.6
	21.7
	21.8
	22.9
	23.5
2	00.8
	00.9
	02.9
	03.3
	03.8
	07.2
	09.7
	10.1
	11.2
	12.8
	19.8
	23.2
3	01.7
	01.9
	02.4
	05.6
	08.7
	09.5
	10.4
	10.9
	11.9
11	21.2
12	05.2
	09.3
14	00.1
	05.1
	08.6
	09.8
	15.5
15	09.2
	13.4
	15.3
16	12.1
	12.6
	14.1
17	03.1
	03.8
	04.2
	08.0
	11.0
	12.0

day	hour
COL,	cont.
17	13.7
	20.6
	21.0
18	03.2
	06.6
	08.5
	11.2
	13.7
	21.4
	22.0
19	07.9
	08.7
	17.4
20	13.0
	13.8
	13.9
	21.2
21	03.3
	10.1
	13.8
	15.9
	16.2
	23.7
22	03.2
	07.0
	10.8
	12.2
	17.4
	18.3
23	04.4
	11.0
	13.1
	13.7
	14.4
	14.9
	15.8
	18.0
24	13.0
	16.8
25	09.7
	13.9
26	05.5
	08.7
	10.9
	12.8
27	14.0
	16.8
28	21.8
29	17.7
30	10.8

day	hour
COL,	cont.
30	19.0
31	01.1
Sept.	
1	06.9
	19.9
2	12.5
	19.4
	22.0
3	02.1
6	06.5
	07.8
	08.8
	10.5
	12.9
	15.8
	19.5
7	10.0
	11.2
	12.5
8	10.6
	12.9
9	05.9
	09.0
	19.9
10	18.1
11	15.3
	23.2
12	02.3
	10.9
13	04.4
	19.3
14	04.9
15	03.0
	12.8
	19.8
16	10.9
17	08.2
	09.4
	12.2
18	04.3
19	15.1
20	03.5
	07.5
21	08.4
	09.5
	12.6
	14.0
	20.2
22	09.7
	12.3

day	hour
COL,	cont.
22	15.1
23	08.8
HONO	
July	
14	01.0
Sept.	
1	22.9
2	19.7
15	00.0
27	21.0
29	22.0
30	06.4
HUAN	
July	
1	10.2
	18.9
2	02.8
	03.7
	03.8
	11.8
3	04.6
	09.6
	13.1
	17.2
4	01.6
	01.7
	04.0
	14.0
	18.8
5	01.4
6	22.3
9	17.9
	18.4
	22.5
	22.7
10	03.8
	05.7
	18.6
	18.8
	19.0
11	10.5
13	02.3
	18.8
14	03.5
	11.7
15	11.3
	11.6

day	hour
COL,	cont.
16	06.5
17	15.3
18	09.5
	15.3
19	05.4
24	04.3
25	04.2
	17.3
28	05.6
29	19.6
30	15.9
	22.6
Aug.	
3	00.6
8	00.9
12	08.2
14	00.8
	02.6
16	12.1
17	01.5
	09.5
	17.4
21	20.3
	20.6
	20.8
23	21.8
25	05.2
27	13.8
28	05.5
	07.3
29	11.3
	20.1
31	05.6
Sept.	
1	11.0
5	06.3
6	21.5
8	16.5
9	21.2
10	02.5
16	13.8
19	17.4
20	03.0
22	07.8
27	20.4
28	22.8
30	19.8
RC	
Sept.	
3	07.5

Local and Minor Earthquakes, cont.

day	hour	day	hour	day	hour	day	hour	day	hour	day	hour
SJ		TUC, cont.		TUC, cont.		TUC, cont.		TUC, cont.			
July		4	22.1	26	04.4	19	23.6	11	22.6		
9	18.8		22.9		08.4	20	18.1		22.8		
13	08.2		23.2		10.4	22	01.9	12	01.7		
		7	20.6		16.1		02.7		03.4		
Aug.			22.4		17.2		03.1		07.1		
4	23.3	8	10.1		21.3		03.5		10.4		
		11	09.9	27	00.2	23	00.8	13	12.9		
SIT			21.1	29	11.3		00.9		18.0		
Aug.			22.9		13.9		19.3		20.1		
21	19.8	12	18.8		20.6		23.8	14	05.7		
	21.7	13	10.5		20.7	24	10.2		07.5		
22	09.0	15	06.6		21.0		10.7	16	00.8		
	09.3		13.0		21.1		11.2		17.3		
	12.1	16	15.3		21.2		11.4		17.4		
	15.6		16.2		21.2		18.2		17.5		
	17.6		16.3		21.2		19.2		17.7		
	17.7		16.4		21.4		22.0		17.9		
	17.9		16.4		21.5	25	08.3	17	01.7		
	18.2		16.5		21.9		08.4		02.4		
23	01.6		16.6		22.2		09.8		12.8		
	02.0		16.7		22.4		11.5	18	00.0		
	02.3		16.8		22.5	26	07.9		00.1		
	14.3		17.1		22.7	28	02.1		02.6		
	19.7		17.7		22.9		08.9	19	05.2		
	23.7		19.3		23.6	30	02.5		13.4		
24	01.8		23.1	30	00.7		03.3		19.6		
	09.4		23.5	31	02.1		04.4		20.3		
	09.7		23.7		07.1		12.2		22.0		
	13.7	17	09.0	Aug.		31	21.4	20	01.7		
	20.9	19	00.6	1	00.4		22.0		12.6		
	21.9		00.7	4	01.1	Sept.		25	00.0		
25	04.3		01.8		03.7	1	13.9		03.9		
	15.4		02.1		05.1	2	07.1		12.8		
26	15.7		02.2	5	22.2		07.7	27	08.5		
27	05.2		06.7	6	18.5		17.9		17.6		
		20	03.4	7	19.4	3	00.1	28	07.3		
TUC			13.1	8	15.9		23.9	29	06.8		
July			16.6	9	01.2	5	16.7	30	21.5		
1	02.3		16.7	11	20.1	6	15.6		22.0		
	17.5	21	20.2	13	16.0	8	13.7				
2	04.2	22	04.4		20.9		21.1				
	06.5		07.7	16	11.0	9	07.3				
	22.0		12.0		21.5		22.1				
	22.5		12.2	17	05.9		22.9				
3	17.2	23	18.3	18	19.3		23.1				
	20.5		20.2		20.7	10	08.3				
	21.1	24	07.8		22.7		20.5				
	21.4		18.9		23.9	11	03.0				
4	02.4	26	02.2	19	04.0		10.9				
	03.2		02.9		11.0		20.6				