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Department of Commerce
Charles Sawyer, Secretary

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

SEISMOLOGICAL BULLETIN

October, November, December, 1945

MSI - 124

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

Charles Sawyer, Secretary

U. S. COAST AND GEODETIC SURVEY

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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

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Issued by the U. S. Coast and Geodetic Survey

Washington 25, D. C.

A- 4148 -4 (53) +

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)
University of Alaska
*Columbia, S. C. (COLU)
University of South Carolina
*Grand Coulee, Wash. (GC)
Bureau of Reclamation
*Honolulu, T. H. (HONO)
University of Hawaii
*Huancayo, Peru (HUAN)
Carnegie Institution of Washington
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
**Montezuma, Chile (MONT)
Smithsonian Institution
**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
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
**Seattle, Wash. (SEA)
University of Washington
*Shasta, Calif. (SH)
Bureau of Reclamation
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory

*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.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights.

Minor quakes are listed at the end of the report.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) 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.

All magnitudes are determined by Pasadena unless otherwise stated.

* * *

PROVISIONAL EPICENTERS

Date 1945	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
1	05 16 40*	29 N	67 E	Near Afghanistan-India border.
2	00 37 16*	38½ N	122 E	Yellow Sea.
2	22 40 32*	15 S	71 W	Southern Peru. Depth about 200 km.
3	04 26 57	33 59 N	116 21 W	By Pasadena, northwest end of San Bernardino Mountains, Calif. Mag. 3.1
3	06 19 25*	12 N	91 W	Off coast of El Salvador.
5	03 09 40*	23 N	143 E	Bonin Islands region.
5	23 17 28*	13 N	87 W	Off coast of Nicaragua. Depth about 100 km.
6	09 12 31*	3 S	138 E	Northern New Guinea.
7	13 23 25	13 N	89 W	Off coast of El Salvador.
9	14 36 33*	44 N	147½ E	Off coast of Hokkaido, Japan. Depth about 100 km. Mag. 7.0
11	16 52 52*	18 N	97-¾ W	Oaxaca, Mexico. Depth about 100 km. Mag. about 7½
14	04 07 14*	16 S	172½ W	Samoa Islands region. Depth about 100 km.
15	09 01 23*	59 N	138 W	Southern Alaska. Felt in Sitka.
15	18 24 40*	73 N	4 E	Northeast of Jan Mayen Island.
16	16 03 03*	1 N	126 E	Molucca Passage. Depth about 100 km.
19	16 57.7	34 N	114 W	By Pasadena, Arizona-California border.
20	00 32 43*	49½ N	130 W	Vancouver, British Columbia, off west coast.
21	03 21 03*	24 N	122 E	Formosa, near east coast.
24	05 15 23*	36 N	140 E	Honshu, Japan, near east coast.
25	14 58 42*	57 N	165 E	Kamchatka, off east coast.
26	13 56 40*	41½ N	33½ E	Northern Turkey.
27	11 24 28*	15½ N	91 W	Central Guatemala. Depth about 100 km.
29	06 41 21*	70 N	139 W	Northwestern Yukon, Canada.

Date 1945	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
	h m s	° ′	° ′	
29	10 54 15*	51½ N	131½ W	Northwest of Vancouver, British Columbia.
31	20 41 52	34 20 N	117 07 W	By Pasadena, northeast of Lake Arrowhead, Calif. Felt in Fawnskin. Mag. 3.7
Nov. 2	17 43 41*	15 N	97 W	Mexico, off southern coast.
2	18 57 55*	4½ S	127 E	Banda Sea.
3	22 09 00*	59 N	151 W	Alaska, off southern coast.
8	09 05 26*	81 N	18 W	Greenland, near northeast coast.
8	10 02 40*	81 N	18 W	Do.
8	23 51 58*	19 N	68 W	Dominican Republic, off northeast coast.
9	23 58 52*	15 S	76½ W	Peru, near southwest coast.
11	09 22 11*	6 S	152 E	New Britain region.
13	02 46 38*	8½ S	79½ W	Peru, near west-central coast. Slightly deeper than normal.
14	14 43 30	35 24 N	118 55 W	By Pasadena, east of Bakersfield, Calif. Felt at Bakersfield and in Kern Canyon. Mag. 3.7
15	02 56 26	33 12 N	115 06 W	By Pasadena, northeast of Bailey Wells, Calif. Mag. 3.8
15	15 58 21*	4 N	83 W	Pacific Ocean, south of Panama.
15	21 51 51*	4 N	83 W	Do.
16	18 02 20*	58 N	137 W	Juneau, Alaska, about 100 miles west of. Felt.
17	22 19 05*	58 N	137 W	Do.
18	01 07 41*	38 N	112 W	South-central Utah. Felt in Servier County.
19	04 35.3	32 N	116 W	By Pasadena, Baja California, Sierra Juarez.
20	06 27 55*	39 N	43 E	Eastern Turkey.
20	18 07 09*	16 N	98 W	Southern Mexico, near coast.
22	15 19 21*	19½ N	70 W	Dominican Republic, near northern coast.

Date 1945	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
	h m s	° '		° '		
23	04 49 44*	9	S	158	E	Solomon Islands region.
25	19 12 46*	31	N	115	W	Gulf of California.
26	01 03 58*	11	S	69	W	Near Peru-Bolivia border. Depth about 700 km.
26	05 13 10*	21	S	180		Southwest of Tonga Islands. Depth about 600 km. Mag. 7.0
26	13 56 40*	41½	N	33½	E	Northern Turkey.
27	11 54 03*	1½	S	131	E	New Guinea, off northwest coast.
27	12 23 16*	1½	S	131	E	Do.
27	21 57 00	25	N	60½	E	Arabian Sea, off southeast coast of Iran. Strong tidal wave. Destructive at Ormara, Baluchistan, and Karachi, India. Mag. 8¼
28	07 37 15*	2	S	80	W	Ecuador, off west coast.
29	12 02 54*	42	N	38	E	Black Sea, off coast of northern Turkey.
30	11 09 25*	5	N	126	E	Celebes Sea.
Dec. 1	05 49 18*	21	S	176	W	Tonga Islands region. Depth about 400 km.
8	01 04 03*	6½	S	151	E	South of New Britain Island. Mag. 7.1
8	21 55 53	38 09	N	118 03	W	By Pasadena, near Candelaria, Nevada. Mag. 3.8
9	06 08 42*	45-¾	N	27	E	Romania. Depth about 100 km.
9	20 45 47*	14	N	92	W	Guatemala, near coast.
14	17 26 46*	2½	S	76½	W	Southern Ecuador. Depth about 100 km.
20	03 59 12*	8	N	127	E	Mindanao, near east coast.
23	08 10 02*	10	N	62	W	Venezuela, near northeast coast. Depth about 100 km.
25	01 25 55*	54	N	174	E	Bering Sea.
25	17 24 00*	29	S	70	W	Central Chile. Felt.
27	04 41 05*	6½	S	151	E	New Britain region.
28	17 48 49*	6½	S	151	E	South of New Britain. Mag. 7.8

Date 1945	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
	h m s	° '		° '		
29	09 50 39*	6½	S	151	E	New Britain region. Aftershock.
29	12 26 52*	6½	S	151	E	Do.
30	00 48 40*	6½	S	151	E	Do.
31	17 26 00*	6½	S	151	E	Do.

SEISMOGRAM INTERPRETATIONS

Date and Station		Phase (GCT)
		h m s
Oct. 1, H = 05 16 40* Epicenter in the region 29°N, 67°E. Near Afghanistan-India border.		
BC	e	05 36 09
BOZ	eL	06 13 36
	F	06.8
HUAN	eL	06 06 00
	F	06.4
PHIL	eSKS	05 41 18
	eS	42 23
	e	49 49
	eL	06 15 00
	F	06.7
SJ	ePP	05 36 17
	eSKS	42 05
	ePS	46 02
	eL	57 09
	F	06.0
TUC	ePP	05 36 46
	e	37 30
	F	05.6
Oct. 1		
TUC	eP	10 52 02
	F	10.9
Oct. 2, H = 00 37 16* Epicenter in the region 38½°N, 122°E. Yellow Sea.		
BC	iP	00 50 13
	i	50 37
BOZ	eL	01 17 01
	F	01.7
COL	eS	00 54 36
	eL	01 03 18
	F	01.6
GC	eP	00 49 15.5

Date and Station		Phase (GCT)
		h m s
Oct. 2, cont.		
PHIL	eL	01 30 09
	F	01.9
PF	eP	00 50 11
SH	iP	00 49 34.5
	i	49 58.5
SIT	eL	01 08 52
	F	01.5
TUC	e	00 50 49
	e	52 04
	e	54 41
	F	00.9
Oct. 2, H = 22 40 32* Epicenter in the region 15°S, 71°W. Southern Peru. Depth about 200 km.		
BC	eP	22 51 08
HUAN	e	22 42 40
	e(S)	43 00
	eL	43 15
	F	22.9
PF	iP	22 51 14
TUC	iP	22 50 44
	e	53 14
	F	22.9
Oct. 3		
BH	eP	03 49 12
	iS	49 21
Oct. 3, H = 04 26 57 By Pasadena, 33°59' N, 116°21' W. Northwest end of Little San Bernardino Mts. Mag. 3.1		
BC	iP	04 27 41.5
	iS	28 12
	i	28 19

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
OV	eP	04 27 51
	i	28 33
PF	eP	04 27 44
	iS	28 39
TUC	e	04 28 29
	eL	29 27
	F	04.5
Oct. 3, H = 06 19 25* Epicenter in the region 12°N, 91°W. Off coast of El Salvador.		
BC	iP	06 25 55
GC	eP	06 27 22.5
OV	eP	06 25 56
PF	iP	06 25 50
SJ	eL	06 30 46
	F	07.0
TUC	eP	06 25 10
	eL	33 55
	F	06.8
Oct. 3		
TUC	iP	07 56 13
	F	08.0
Oct. 5		
TUC	eP	01 45 46
	F	01.8
Oct. 5		
TUC	iP	02 41 48
Oct. 5, H = 03 09 40* Epicenter in the region 23°N, 143°E. Bonin Islands region.		
BC	iP	03 22 23
GC	eP	03 21 42

Date and Station		Phase (GCT)
		h m s
Oct. 5, cont.		
PF	iP	03 22 26
SH	iP	03 21 44.1
	i	21 59.3
TUC	iP	03 22 46
	i	22 59
	eS	34 29
	eL	52 50
	F	03.4
Oct. 5		
GC	eP	11 25 27
	i	25 48
Oct. 5		
SH	e	14 21 02.3
	i	21 20.5
	i	21 29.8
	e(S)	21 38.3
Oct. 5, H = 23 17 28* Epicenter in the region 13°N, 87°W. Off coast of Nicaragua. Depth about 100 km.		
BH	e	23 19 26
BC	iP	23 24 07.5
	epP	24 27
PF	iP	23 24 03
SJ	e	23 22 13
	eS	26 09
	eL	26 40
	F	23.9
TUC	iP	23 23 24
	ipP	23 46
	ePcP	26 12
	F	23.4
Oct. 6		
LOG	iP	04 11 41
	iL	12 10
	F	04.2

Date and Station		Phase (GCT)
		h m s
Oct. 6, H = 09 12 31* Epicenter in the region 3°S, 138°E. Northern New Guinea.		
BOZ	eL	10 02 15
	F	10.9
BUT	eL	09 56 00
	F	10.5
CHI	eL	10 14 13
	F	10.9
GC	eP	09 26 20.5
LOG	eL	10 02 08
	F	10.7
PHIL	eL	10 20 33
	F	10.8
SJ	eP'	09 32 24
	e	43 12
	eL	10 29 26
	F	11.5
SH	iP	09 26 13
	i	29 38
TUC	eP'	09 31 28
	eL	10 03 31
	F	10.6
UK	eL	10 01 07
	F	10.4
Oct. 6, H = 18 53 15** Probable epicenter, off coast of central Chile.		
TUC	iP	19 04 39
	F	19.1
Oct. 6		
TUC	iP	20 04 41
	F	20.1
Oct. 6, H = 21 56 20** Probable epicenter, Tonga Islands region.		

Date and Station		Phase (GCT)
		h m s
Oct. 6, cont.		
BC	e	22 08 13
	i	08 18
	i	08 23.5
COL	e	22 09 15
	eS	19 38
	eL	33 59
	F	22.9
GC	eP	22 08 47
PF	eP	22 08 20
RC	eL	22 46 10
	F	23.1
SJ	eL	22 58 00
	F	23.1
SH	eP	22 08 07
	iP	08 12.5
TUC	eP	22 08 24
	iP	08 29
	eL	35 40
	F	23.3
Oct. 7, H = 03 34 18** Probable epicenter, Aleutian Islands.		
BC	iP	03 42 51.5
	i	43 00.5
GC	iP	03 41 36
SH	iP	03 42 51.5
TUC	iP	03 43 29
	i	43 39
	F	03.8
Oct. 7		
TUC	eP	07 42 37
	F	07.7
Oct. 7		
TUC	eP	10 02 50
	F	10.1

Date and Station		Phase (GCT)
		h m s
Oct. 7, H = 13 23 25 Epicenter in the region 13°N, 89°W. Off coast of El Salvador.		
BH	eP	13 25 52
BC	iP	13 30 02
	i	30 31
	iPP	31 06
	iPcP	32 45
	eL	32 48
BOZ	eP	13 30 43
	e	31 19
	ePP	32 18
	eS	36 25
	eL	41 00
	F	14.7
BUT	eP	13 30 52
	ePP	32 28
	e(S)	37 10
	eL	41 06
	F	14.8
CHI	iP	13 29 38
	e	30 14
	e	32 45
	iS	34 18
	e	34 37
	eL	37 04
	F	14.9
COL	eP	13 34 12
	eS	42 49
	e	43 58
	eSSS	50 42
	eL	57 08
	F	15.1
COLU	iP	13 28 31
	i	28 49
	e	29 27
	eS	32 40
	i	33 22
	eL	34 10
	F	15.0

Date and Station		Phase (GCT)
		h m s
Oct. 7, cont.		
GC	eP	13 31 26
	iP	31 30
	iPP	33 09
	eS	38 00
HONO	e	13 51 05
	F	14.0
HUAN	eP	13 29 23
	i	30 07
	i	31 00
	iS	34 08
	iL	35 43
	F	15.0
LOG	eP	13 30 22
	e	31 03
	ePP	31 58
	e	34 21
	eS	35 56
	eL	38 18
	F	14.6
PHIL	iP	13 29 38
	e	29 54
	ePP	30 32
	iS	34 36
	i	34 47
	eL	37 30
	F	15.2
PF	iP	13 29 58
	iPP	31 15
	e	39 30.5
RC	iP	13 30 12
	ePP	31 37
	eS	35 35
	eL	38 03
	F	14.8
SLC	eP	13 30 13
	e	36 26
	eL	41 39
	F	14.7
SJ	iP	13 28 34
	i	29 17
	i	33 29
	eL	34 23
	F	15.8

Date and Station		Phase (GCT)
		h m s
Oct. 7, cont.		
SEA	eL	13 46 15
	F	14.3
SH	iP	13 31 04
	iPP	32 50
	iS	37 00
	eL	41 08
SIT	eP	13 33 11
	ePPP	36 51
	eS	41 11
	eL	46 45
	F	15.1
TUC	iP	13 29 19
	i	29 39
	ePP	30 10
	ePcP	31 54
	iS	34 16
	e	34 36
	eL	35 00
	F	15.9
UK	eP	13 31 02
	ePP	32 45
	eS	37 07
	eL	42 10
	F	14.5
Oct. 7		
TUC	eP	20 00 40
	e	00 53
	F	20.0
Oct. 8		
TUC	eP	01 47 28
	F	01.8
Oct. 8		
BC	eP	04 46 47.5
	e	46 52
	i	47 29
PF	iP	04 46 51
	i	47 37
Oct. 8		
BC	iP	05 55 16.5
PF	eP	05 55 15

Date and Station		Phase (GCT)
		h m s
Oct. 8, cont.		
TUC	iP	05 54 18
	i	54 35
	e	58 30
	F	05.9
Oct. 8		
TUC	iP	23 54 08
	i	54 52
	F	Lost.
Oct. 9		
BC	iP	11 08 31.4
	i	08 42.4
GC	iP	11 07 39
PF	iP	11 08 33
SH	iP	11 07 52.2
	iPP	10 46
TUC	iP	11 08 55
	ePP	12 24
	e	12 56
	F	11.2
Oct. 9, H = 14 36 33* Epicenter in the region 44°N, 147½°E. Off east coast of Hokkaido, Japan. Depth about 100 km. Mag. 7.0		
BC	iP	14 47 45
	i	48 06
	eS	56 54
BOZ	eP	14 47 21
	epP	50 12
	iS	56 07
	esS	56 42
	eSS	15 00 36
	eSSS	03 40
	eL	05 40
	F	16.4
BUT	eP	14 47 21
	eS	55 56
	e	57 00
	e	57 38
	e	15 02 24
	eL	10 30
	F	16.1
Oct. 9, cont.		
CHI	eP	14 48 53
	ePPP	53 34
	iS	58 44
	e	15 03 35
	eL	09 50
	F	16.3
COL	eP	14 44 08
	e	45 11
	ePP	45 50
	iS	50 14
	eL	53 22
	F	16.2
COLU	eS	15 00 23
	e	06 38
	eL	19 32
	F	16.3
GC	iP	14 46 41.5
	iPP	48 58
	eS	54 54
HONO	eP	14 45 28
	i	46 07
	eS	52 30
	eL	57 25
	F	15.4
T_S= 1.7 sec.		A = 2.0 mm.
T_L= 20 sec.		A = 1.4 mm.
HUAN	eP'	14 56 00
	e	59 00
	e	15 05 27
	ePS	08 38
	eSS	15 37
	eL	30 50
	F	17.0
LOG	iP	14 47 36
	ipP	47 55
	iS	56 34
	i	57 37
	eSS	15 01 07
	eL	05 53
	F	16.0
PHIL	iP	14 49 19
	i	49 29
	e	52 32
	iS	59 38
	esS	15 00 26
	eSS	05 39
Oct. 9, cont.		
PHIL, cont.		
	eSSS	15 09 17
	eL	15 00
	F	16.3
PF	iP	14 47 48
	eS	57 00
RC	iP	14 47 58
	ePP	50 48
	iS	57 08
	i	57 42
	eSS	15 01 35
	eL	05 23
	F	15.7
SLC	e	14 47 32
	e	48 08
	e	50 05
	iS	56 41
	i	57 32
	eSS	15 00 30
	eL	04 45
	F	16.2
SJ	e(P')	14 55 36
	eSKS	15 01 31
	ePS	05 04
	iSS	11 00
	e	15 00
	eL	27 32
	F	17.0
SH	iP	14 46 56
	i	46 57.2
	e	47 20
	iS	55 26
SIT	iP	14 45 08
	iPP	47 05
	iS	52 10
	eL	15 00 00
	F	16.4
TUC	iP	14 48 14
	ipP	48 37
	iPP	50 50
	e	51 25
	ePPP	53 05
	eS	57 53
	isS	58 26

Date and Station		Phase (GCT)
		h m s
Oct. 9, cont.		
TUC, cont.		
	eScS	14 58 59
	e	59 31
	eSS	15 02 34
	eSSS	06 20
	eL	08 27
	F	17.1
UK	eP	14 46 59
	ePP	49 25
	eS	55 28
	eSS	59 51
	eL	15 02 35
	F	16.6
Oct. 9		
BC	e	15 15 25.5
	e	15 59.5
GC	eP	15 15 44
	e	16 05
PF	eP	15 15 25
SH	e	15 15 27
Oct. 9		
BC	e	23 03 53
PF	e	23 03 57
Oct. 9		
BC	eP	23 40 04.5
	eS	40 48
	i	40 50
PF	iP	23 39 48
	i	40 55
TUC	e	23 39 36
	i	39 44
	i	39 48
	i(S)	40 18
	i	40 26
	iL	41 06
	F	23.7
Oct. 10		
SJ	eL	05 12 20
	F	05.5

Date and Station		Phase (GCT)
		h m s
Oct. 10		
TUC	iP	15 23 22
	F	16.4
Oct. 10, H = 18 38 15** Probable epicenter, off southern coast of Kyushu, Japan.		
BC	eP	18 51 27
PF	iP	18 51 28
TUC	e	18 51 47
	e	52 04
	F	18.9
Oct. 11		
TUC	iP	05 27 27
	i	29 20
	F	05.5
Oct. 11		
TUC	iP	06 31 08
	F	06.5
Oct. 11		
TUC	e	09 15 28
	F	09.3
Oct. 11		
BOZ	eL	12 23 09
	F	12.5
COL	e	12 09 27
	eL	09 53
	F	12.3
GC	eP	12 12 38
	e	19 41
	e	20 26
SIT	eL	12 14 08
	F	12.3
TUC	iP	12 15 04
	F	12.3
Oct. 11, H = 16 52 52* Epicenter in the region 18°N, 97-3/4°W. Oaxaca, Mexico. Depth about 100 km.		

Date and Station		Phase (GCT)
		h m s
Oct. 11, cont.		
BH	eP	16 57 28
BC	iP	16 58 02
	i	58 24.5
	eS	17 00 59
	e	05 51.5
BOZ	e	16 59 19
	eS	17 03 49
	e	04 31
	eL	07 39
	F	17.4
CHI	iP	16 58 18
	ipP	58 38
	i	58 55
	ePcP	17 01 59
	eL	02 36
	F	17.1
COLU	e	16 57 39
	e	58 11
	e(S)	17 01 47
	eL	07 42
	F	17.2
GC	iP	16 59 40.1
	ipP	59 56
	i	17 00 02.7
	iPcP	02 14
	eL	09 43
HUAN	e	17 00 09
	eS	05 51
	e	06 21
	eL	08 44
	F	17.4
LOG	eP	16 58 30
	ePP	59 24
	eS	17 03 05
	eL	06 50
	F	17.4
PF	iP	16 57 58
	ipP	58 18
	eL	17 05 06
RC	eP	16 58 33
	ipP	58 53
	e	59 13

Date and Station		Phase (GCT)
		h m s
Oct. 11, cont.		
RC, cont.		
	eS	17 03 19
	eL	06 00
	F	17.4
SLC	e	16 58 25
	e	58 47
	eS	17 03 16
	eL	06 34
	F	17.4
SJ	e	16 59 03
	epP	59 25
	e	17 00 23
	iS	04 23
	eL	05 06
	F	17.6
SH	iP	16 59 07.8
	ipP	59 29.8
	eL	17 09 23
TUC	iP	16 57 10
	ipP	57 29
	i	57 43
	i	57 55
	eS	17 00 38
	i	01 09
	eL	02 08
	F	17.3
Oct. 11		
TUC	iP	20 03 55
	F	20.1
Oct. 12		
SJ	eL	01 13 32
	F	01.5
Oct. 12, H = 20 50 12** Probable epicenter, Western Colombia.		
BC	e	20 58 43
HUAN	eL	20 58 16
	F	21.3
PF	eP	20 58 36
	i	58 43

Date and Station		Phase (GCT)
		h m s
Oct. 12, cont.		
SJ	e	20 55 08
	eS	59 05
	eL	21 01 52
	F	21.2
TUC	iP	20 58 10
	F	21.0
Oct. 13		
GC	eP	00 46 22
SH	eP	00 46 13
	i	46 21
TUC	eP	00 45 52
	i	45 59
	F	00.8
Oct. 13		
TUC	iP	03 06 20
	F	03.1
Oct. 13		
TUC	iP	06 24 36
	i	24 46
	eS	29 21
	eL	31 01
	F	06.6
Oct. 14		
TUC	eP	02 37 11
	e	37 41
	F	02.6
Oct. 14, H = 04 07 14* Epicenter in the region 16°S, 172½°W. Samoa Island region. Depth about 100 km.		
BC	eP	04 18 49
GC	eP	04 19 15
	ipP	19 45
LOG	iP	04 19 21
	eS	29 32
	eSS	34 30
	eL	43 34
	F	05.2

Date and Station		Phase (GCT)
		h m s
Oct. 14, cont.		
OV	eP	04 18 53
PF	iP	04 17 08
	ipP	18 14
SH	iP	04 18 37.5
TUC	iP	04 18 55
	ipP	19 12
	ePP	21 38
	e	23 48
	eL	42 35
	F	05.1
Oct. 14, H = 04 16 40** Probable epicenter, Samoa Island region.		
BC	iP	04 28 05.5
BOZ	eS	04 30 16
	eL	45 36
	F	05.4
GC	iP	04 28 30
OV	iP	04 28 09.5
PF	iP	04 28 09
RC	e	04 30 48
	eL	49 00
	F	05.2
SJ	e	04 36 21
	eSKS	42 36
	e	45 47
	eL	58 24
	F	05.7
SH	iP	04 27 54
TUC	iP	04 28 11
	i	28 19
	i	28 28
	F	04.5
Oct. 14		
CHI	eL	04 53 52
	F	05.4

Date and Station		Phase (GCT)
		h m s
Oct. 14, cont.		
HUAN	eL	04 50 37
	F	05.2
TUC	iP	04 33 15
	i	33 21
	F	04.6
Oct. 14		
BH	iP	10 41 25
	iS	41 36
Oct. 14		
TUC	iP	14 57 33
	F	15.0
Oct. 15, H = 08 01 23* Epicenter in the region 59°N, 138°W. Alaskan Peninsula. Felt at Sitka.		
BC	iP	08 07 11
	eL	16 10
BOZ	eP	08 06 06
	eS	10 00
	eL	12 07
	F	09.0
BUT	eP	08 05 51
	eS	09 38
	eL	11 25
	F	08.8
CHI	eS	08 14 07
	eL	16 54
	F	08.9
COL	e	08 04 04
	e(S)	04 45
	eL	05 06
	F	08.7
COLU	eL	08 24 00
	F	08.8
GC	iP	08 05 02
	i	06 21.5
	e(S)	06 55
	e	08 25
	eL	08 53

Date and Station		Phase (GCT)
		h m s
Oct. 15, cont.		
LIN	eL	08 56 24
	F	09.1
LOG	eP	08 06 37
	ePP	07 18
	eS	10 56
	e	10 57
	eL	12 58
	F	08.9
OV	eP	08 07 08
PHIL	e	08 19 22
	eL	21 01
	F	09.0
PF	iP	08 07 13
RC	e	08 07 00
	eS	11 38
	iL	14 48
	F	08.9
SLC	eP	08 07 13
	eS	11 38
	eL	13 58
	F	08.5
SJ	eL	08 34 16
	F	09.1
SEA	eL	08 07 25
	F	08.3
SH	eP	08 06 03
	eL	12 14
SIT	iP	08 01 54
	F	08.9
TUC	eP	08 07 52
	i	08 19
	iPP	08 35
	ePcP	10 03
	eL	15 05
	F	08.6
UK	eL	08 10 18
	F	08.5

Date and Station		Phase (GCT)
		h m s
Oct. 15		
SH	iP	18 05 14.9
	eS	05 37
Oct. 15, H = 18 24 40* Epicenter in the region 73°N, 4°E. Northeast of Jan Mayen Island. Possibly slightly deeper than normal.		
BC	iP	18 35 16
OV	iP	18 35 14
PF	iP	18 35 16.5
SJ	eL	18 47 23
	F	19.3
SH	iP	18 34 56
TUC	iP	18 35 33
	F	18.6
Oct. 15		
TUC	eP	18 41 49
	F	18.7
Oct. 15		
TUC	eP	18 58 59
	F	19.0
Oct. 16		
BC	eP	02 27 41
HUAN	e	02 23 03
	eS	28 38
	eL	32 00
	F	03.0
OV	e	02 27 57
PF	e	02 27 47
SJ	e	02 35 02
	e	35 23
	eL	50 06
	F	03.2
SH	e	02 28 16

Date and Station		Phase (GCT)
		h m s
Oct. 16, cont.		
TUC	eP	02 27 15
	i	27 39
	F	02.5
Oct. 16, H = 16 03 03* Epicenter in the region 1°N, 126°E. Molucca Passage. Depth about 100 km.		
BC	eP'	16 21 38
BOZ	e	16 22 26
	eSKS	28 14
	eS	30 07
	ePS	32 03
	e(SS)	38 12
	eSSS	42 26
	eL	49 01
	F	18.3
BUT	ePP	16 22 15
	e	29 02
	ePS	31 55
	eSS	37 49
	eSSS	41 54
	eL	49 52
	F	17.8
CHI	ePP	16 24 15
	i	25 24
	i	31 06
	ePS	34 18
	eSS	41 22
	eSSS	46 23
	eL	17 01 10
	F	18.4
COL	eP	16 15 53
	ePP	18 56
	eS	26 11
	e	26 38
	e	27 53
	eL	39 03
	F	18.8
GC	eP	16 17 17
	iPP	21 37
	iSKS	27 50.5
	e	28 39
	ePS	30 58

Date and Station		Phase (GCT)
		h m s
Oct. 16, cont.		
HONO	e	16 15 07
	i(S)	24 59
	e	25 25
	eL	32 38
	F	17.0
HUAN	e(P')	16 23 00
	ePP	27 38
	e	33 58
	e	40 32
	eSS	47 20
	eSSS	53 00
	eL	17 07 00
	F	18.7
OV	eP'	16 21 36.5
PHIL	iPP	16 24 59
	ePPP	28 17
	i	31 45
	e	35 03
	iSS	42 53
	eL	17 03 00
	F	18.5
PF	e(P)	16 18 05
	eP'	21 43
RC	eP'	16 21 47
	i	28 39
	iS	30 02
	ePS	32 49
	eSS	38 46
	eL	53 30
	F	18.2
SLC	ePP	16 22 15
	e(SKS)	28 25
	e	32 22
	eSS	38 32
	e	39 32
	e	42 58
	eL	49 28
	F	18.8
SJ	iP'	16 22 56
	e	23 30
	iPP	27 14
	i	33 53
	ePP	40 44
	e	46 49

Date and Station		Phase (GCT)
		h m s
Oct. 16, cont.		
SJ, cont.		
	eSS	16 47 00
	eL	17 15 50
	F	18.8
SH	eP	16 17 16
	iPP	21 44
	eSKS	27 52
	e	28 37
	iPKKP	32 40
SIT	e	16 16 25
	ePP	20 14
	i	26 57
	e	27 40
	eSS	33 50
	eL	41 10
	F	18.0
TUC	iP'	16 21 46
	iPP	23 06
	i	24 08
	eSKS	28 42
	e	31 16
	ePS	33 00
	eSS	39 17
	eL	49 40
	F	18.5
UK	e	16 27 54
	ePP	31 23
	eSKS	37 17
	eL	57 55
	F	17.4
Oct. 16		
BC	eP	18 37 03
	i(S)	38 24
OV	eP	18 37 00.5
PF	eP	18 36 45
	i	36 52
	i	38 04
Oct. 17		
TUC	iP	06 29 59
	F	06.5

Date and Station		Phase (GCT) h m s
Oct. 17		
TUC	eP	21 00 34
	F	21.0
Oct. 17		
BC	iP	23 54 01
TUC	eP	23 54 34
	i	54 44
	F	23.9
Oct. 18		
TUC	e	09 05 05
	F	09.1
Oct. 18		
BC	eP	14 02 59
OV	eP	14 03 01
PF	eP	14 03 04
TUC	eP	14 03 35
	i	03 44
	F	14.1
Oct. 18		
TUC	iP	18 34 46
	F	18.6
Oct. 19		
TUC	eP	03 21 33
	F	03.4
Oct. 19		
TUC	eP	04 31 03
	F	04.5
Oct. 19		
TUC	eP	12 51 37
	F	12.9
Oct. 19		
TUC	eP	13 18 27
	F	13.3
Oct. 19		
BC	iP	16 58 51.6
	e	59 42
	eS	59 58
OV	iP	16 58 59

Date and Station		Phase (GCT) h m s
Oct. 19, cont.		
PF	iP	16 58 53
	i	59 03
	i	59 42
TUC	iP	16 58 30
	i	58 40
	i(S)	59 20
	eL	17 00 08
	F	Lost.
Oct. 19		
TUC	eP	23 50 16
	F	23.9
Oct. 20, H = 00 32 43* Epicenter in the region 49½°N, 130°W. Off west coast of Vancouver, British Columbia.		
BC	iP	00 36 52.5
BOZ	eL	00 39 24
	F	01.2
BUT	eL	00 34 08
	F	00.8
CHI	eS	00 44 02
	eL	48 13
	F	01.4
COL	eL	00 41 03
	F	01.2
COLU	eL	00 52 30
	F	01.2
GC	eP	00 34 31
	iP	34 31.6
	e(S)	36 14
	eL	38 00
HONO	eL	00 47 44
	F	01.0
LOG	iP	00 36 17
	e	36 43
	eS	39 03
	eL	40 18
	F	01.0

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
OV	eP	00 36 45
PHIL	eL	00 49 00
	F	01.3
PF	iP	00 36 51
RC	iP	00 37 10
	e	39 02
	i(S)	41 02
	eL	43 12
	F	01.0
SLC	eP	00 36 21
	eS	39 17
	eL	40 05
	F	01.1
SJ	eS	00 51 03
	eL	01 07 00
	F	01.8
SEA	eL	00 36 04
	F	00.9
SH	eP	00 35 13.5
	iP	35 14.7
TUC	iP	00 37 46
	i	37 51
	eS	41 49
	eL	43 39
	F	01.6
UK	eL	00 37 30
	F	01.0
Oct. 20, H = 01 43 30** Vancouver aftershock.		
BC	e	01 47 41
BOZ	eL	01 50 17
	F	02.0
BUT	eL	01 50 11
	F	01.9
GC	eP	01 45 20
	e	48 00

Date and Station		Phase (GCT)
		h m s
Oct. 20, cont.		
LOG	e	01 47 03
	eL	52 08
	F	02.0
OV	iP	01 47 41
PF	iP	01 47 43
RC	iP	01 48 06
	e	52 15
	eL	53 50
	F	02.1
SLC	eL	01 51 16
	F	02.2
SEA	eL	01 47 47
	F	02.1
SH	eP	01 46 01
TUC	eP	01 48 33
	F	01.9
Oct. 20		
TUC	eP	07 19 02
	F	07.3
Oct. 20		
TUC	eP	07 48 04
	F	07.8
Oct. 20		
TUC	eP	12 39 25
	e	39 56
	F	12.7
Oct. 20		
BC	iP	14 18 46.5
BOZ	e	14 22 06
	eL	43 03
	F	15.5
GC	eP	14 16 26.3
	i	17 25
	e	18 50
	i	19 38
OV	iP	14 18 45

Date and Station		Phase (GCT)
		h m s
Oct. 20, cont.		
PF	iP	14 18 47
RC	eP	14 19 19
	eL	25 22
	F	14.6
SLC	eL	14 23 28
	F	14.6
SH	eP	14 17 05
	iP	17 10
Oct. 20		
TUC	eP	14 45 35
	F	14.8
Oct. 20		
BH	e	04 47 30
	e	48 05
Oct. 20		
TUC	e	15 38 17
	F	15.6
Oct. 20		
BC	iP	22 44 45.8
OV	eP	22 44 43
PF	eP	22 44 50
TUC	eP	22 42 19
	e	42 34
	e(S)	42 46
	eL	43 10
	F	22.8
Oct. 21, H = 00 29 40** Probable epicenter, Vancouver aftershock.		
BC	iP	00 34 04
BUT	eL	00 35 07
	F	00.7
CHI	eL	00 45 31
	F	00.9
COL	eL	00 39 58
	F	00.8

Date and Station		Phase (GCT)
		h m s
Oct. 21, cont.		
GC	eP	00 31 15
	iP	31 24
	e(S)	32 46
OV	eP	00 33 55
PF	iP	00 34 17
RC	e	00 33 54
	e	37 38
	eL	39 02
	F	00.8
SH	eP	00 32 15.5
	i	32 39.5
TUC	iP	00 34 42
	i	35 10
	F	00.6
Oct. 21		
BC	eP	02 25 01.5
OV	eP	02 25 13
PF	iP	02 25 12
TUC	eP	02 23 51
	F	02.4
Oct. 21, H = 03 21 03** Epicenter in the region 24°N, 122°E. Near east coast of Formosa.		
BC	iP	03 35 01
BUT	eL	04 15 02
	F	04.7
CHI	eL	04 13 45
	F	05.2
COL	e	03 32 26
	eS	41 19
	eSS	45 41
	eL	52 02
	F	04.8
HONO	eL	03 56 03
	F	04.1

Date and Station		Phase (GCT)
		h m s
Oct. 21, cont.		
HUAN	eL	04 36 00
	F	05.5
PHIL	eL	04 14 29
	F	04.9
PF	eP	03 35 33
RC	eS	03 45 36
	eL	04 11 41
	F	04.7
SJ	ePP	03 43 16
	eSKS	47 37
	e	04 03 13
	eL	24 00
	F	05.8
SH	eP	03 34 16
	iP	34 26.5
OV	eP	03 35 08
TUC	eP	03 35 23
	iPP	39 29
	eL	04 10 31
	F	05.2
Oct. 21, H = 07 04 20* Probable epicenter, Bonin Islands region. Depth about 500 km.		
BC	iP	07 16 14
GC	iP	07 15 29.5
PF	iP	07 16 46.5
SH	iP	07 15 36
	ipP	17 28
TUC	iP	07 16 37
	epP	18 25
	i	20 17
	F	07.4
Oct. 21		
SH	iP	07 37 53
TUC	iP	07 38 55
	F	07.7

Date and Station		Phase (GCT)
		h m s
Oct. 21, H = 12 52 10** Probable epicenter, Vancouver aftershock.		
BOZ	eL	12 59 33
	F	13.1
BUT	eL	12 59 02
	F	13.1
GC	e	12 53 59
	e	56 46
	e	57 08
PHIL	eL	13 13 18
	F	13.3
TUC	eP	12 57 11
	F	13.0
Oct. 21, H = 15 53 15** Probable epicenter, near west coast of Mexico.		
TUC	iP	15 56 50
	eL	16 01 54
	F	16.1
Oct. 21		
TUC	iP	16 24 44
	F	16.4
Oct. 21		
TUC	eP	16 41 16
	F	16.7
Oct. 21		
SH	iP	19 26 36.3
	iS	26 56.2
Oct. 22		
TUC	eP	03 29 58
	F	03.5
Oct. 22		
SH	iP	08 43 31
TUC	iP	08 57 11
	F	08.9

Date and Station		Phase (GCT)
		h m s
Oct. 22		
TUC	iP	09 18 06
	F	09.3
Oct. 22, H = 19 26 10** Probable epicenter, off Cape Mendocino, Calif.		
TUC	eP	19 29 25
	F	19.5
UK	e	19 26 42
	eL	27 16
	F	19.5
Oct. 23		
TUC	eP	08 44 33
	F	08.7
Oct. 24		
TUC	iP	00 34 16
	F	00.6
Oct. 24, H = 02 23 30** Probable epicenter, Kermadec Islands region.		
TUC	eP	02 36 19
	F	02.6
Oct. 24, H = 04 54 50** Probable epicenter, off northern coast of Chile.		
TUC	iP	05 05 39
	F	05.1
Oct. 24, H = 05 15 23* Epicenter in the region 36°N, 140°E. Near east coast of Honshu, Japan.		
BC	iP	05 28 08
GC	eP	05 26 43
PF	iP	05 28 11
SH	iP	05 26 54.5

Date and Station		Phase (GCT)
		h m s
Oct. 24, cont.		
TUC	iP	05 28 04
	i	28 12
	i	28 25
	i	28 58
	F	05.5
Oct. 24		
TUC	eP	09 31 29
	F	09.5
Oct. 24		
TUC	eP	12 29 28
	F	12.5
Oct. 25, H = 03 00 49** Probable epicenter, Kermadec Islands region.		
BC	iP	03 13 50.5
HUAN	eL	03 47 00
	F	04.2
TUC	eP	03 13 54
	e	14 21
	eL	45 08
	F	04.4
Oct. 25		
BC	e	08 55 03
	i	55 09
HUAN	e	08 58 07
	eL	09 06 00
	F	09.5
OV	eP	08 55 05.5
PF	eP	08 55 09
SJ	e	08 48 27
	eS	53 49
	eL	58 06
	F	09.3
TUC	iP	08 52 55
	i	54 49
	F	08.9

Date and Station		Phase (GCT)
		h m s
Oct. 25, H = 14 58 42* Epicenter in the region 57°N, 165°E. Off east coast of Kamchatka.		
BC	iP	15 08 24
	i	08 29
	iPPP	11 46
	eS	16 18
BOZ	eP	15 07 44
	e	08 16
	ePPP	10 43
	eS	15 00
	eSS	18 42
	eL	21 56
	F	17.0
BUT	eP	15 07 36
	ePPP	10 38
	eS	14 43
	eSS	18 16
	eL	20 43
	F	16.3
CHI	eP	15 09 22
	eS	17 46
	iS	18 00
	eSS	22 22
	e	25 00
	eSSS	25 20
	eL	28 24
	F	16.9
COL	iP	15 04 01
	ePP	04 35
	e	05 02
	e	05 53
	eS	08 12
	eL	10 29
	F	16.7
COLU	eP	15 10 17
	ePP	13 11
	eS	19 52
	eSS	24 42
	eSSS	27 57
	eL	33 30
	F	16.7

Date and Station		Phase (GCT)
		h m s
Oct. 25, cont.		
GC	iP	15 07 02
	eS	13 31
	eSS	16 48
HONO	eS	15 13 53
	eL	17 30
	F	15.7
T_L = 15 sec. A max.=2.1 mm.		
T_L = 21 sec. A_L = 1.5 mm.		
HUAN	ePP	15 18 50
	ePS	28 18
	eSS	34 52
	e	39 32
	eL	49 32
	F	17.4
LOG	iP	15 08 06
	ePcP	09 12
	e(S)	15 59
	eSS	19 29
	eL	21 48
	F	16.2
OV	eP	15 08 23
	i	08 56
PF	iP	15 08 27
	i	11 50.5
RC	iP	15 08 22
	ePPP	11 28
	eS	16 07
	eSS	20 14
	eL	24 07
	F	16.3
SLC	eP	15 08 11
	ePP	10 20
	ePPP	11 13
	eS	15 41
	e	19 44
	eL	23 25
	F	16.7
SJ	eP	15 12 02
	iPP	15 47
	iSS	29 36
	eL	47 00
	F	17.3

Date and Station		Phase (GCT)
		h m s
Oct. 25, cont.		
SEA	eP	15 06 39
	e	12 42
	eL	19 28
	F	16.1
SH	iP	15 07 27.8
	iPcP	08 55.5
	eS	14 38
	eL	18 10
SIT	iP	15 05 12
	i	06 37
	F	16.5
TUC	iP	15 08 58
	i	09 10
	e	11 30
	e	12 48
	eS	17 29
	eSS	21 19
	e	23 09
	eL	25 45
	e	38 24
	F	17.3
UK	e	15 07 36
	eS	14 39
	eL	18 25
	F	16.3
Oct. 25, H = 15 02 04** Probable epicenter, Kamchatka aftershock.		
TUC	iP	15 12 20
	i	12 28
	F	Lost.
Oct. 25, H = 15 02 58** Probable epicenter, Kamchatka aftershock.		
TUC	iP	15 13 14
	i	13 23
	F	Lost.
Oct. 25, H = 15 30 56** Probable epicenter, Kamchatka aftershock.		
TUC	iP	15 41 12
	F	Lost.

Date and Station		Phase (GCT)
		h m s
Oct. 25, H = 16 43 56** Probable epicenter, Kamchatka aftershock.		
BC	eP	16 53 32
	i	53 38
OV	eP	16 53 38.2
PF	eP	16 53 37
TUC	iP	16 54 12
	i	54 17
	F	16.9
Oct. 25, H = 17 39 51** Probable epicenter, Kamchatka aftershock.		
BC	iP	17 49 34
	i	49 42
OV	eP	17 49 33.5
PF	iP	17 49 37
TUC	eP	17 50 07
	i	50 16
	F	17.9
Oct. 26, H = 02 43 42** Probable epicenter, Samoa Islands region.		
BC	iP	02 55 11.5
	i	55 14.5
	i	55 49
OV	iP	02 55 05
	i	55 35.5
PF	iP	02 55 07
	i	55 22
	i	55 47
SH	iP	02 54 56
TUC	iP	02 55 14
	F	02.9
Oct. 26		
MONT	e	06 30 25
	iS	30 36
	eL	30 46
	F	06.5

Date and Station		Phase (GCT)
		h m s
Oct. 26, cont.		
TUC	iP	06 40 57
	F	06.7
Oct. 26, H = 09 26 03** Probable epicenter, Samoa Islands region.		
BC	iP	09 37 37
GC	iP	09 38 00
OV	iP	09 37 41
PF	iP	09 37 41
SH	iP	09 37 24
	i	37 44.5
TUC	iP	09 37 42
	i	37 50
	i	38 04
	F	09.7
Oct. 26, H = 13 56 40* Epicenter in the region 41½°N, 33½°E. Northern Turkey.		
BOZ	e	14 20 07
	e	25 50
	eL	32 30
	F	15.7
BUT	eL	14 48 16
	F	15.3
CHI	eL	14 39 08
	F	15.6
COL	e	14 17 59
	e	25 22
	eL	31 59
	F	15.5
HUAN	e	14 30 40
	eL	44 35
	F	15.9
PHIL	e	14 18 23
	eL	35 24
	F	15.3

Date and Station		Phase (GCT)
		h m s
Oct. 26, cont.		
RC	eL	14 36 00
	F	15.3
SLC	e	14 22 33
	eL	39 55
	F	15.5
SJ	e	14 19 44
	eL	34 00
	F	15.9
TUC	eL	14 49 06
	F	15.4
UK	eL	14 45 42
	F	15.3
Oct. 26		
TUC	iP	22 21 00
	F	22.4
Oct. 26		
TUC	iP	23 38 07
	eL	00 12 00
	F	00.7
Oct. 27		
TUC	eP	01 25 29
	F	01.4
Oct. 27		
BC	iP	04 13 07.5
OV	eP	04 13 08.5
PF	iP	04 13 11.5
TUC	iP	04 13 44
	i	14 21
	F	04.3
Oct. 27		
BC	iP	04 25 16
	i	25 34
OV	eP	04 25 17
PF	iP	04 25 19.5
SH	iP	04 24 22.5
	i	24 39.5

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
TUC	iP	04 25 49
	i	26 07
	F	04.5
Oct. 27, H = 06 45 10** Probable epicenter, Aleutian Islands region.		
BC	iP	06 52 53
GC	iP	06 51 35
OV	eP	06 52 53
PF	iP	06 52 57
SH	iP	06 51 50.5
TUC	iP	06 53 32
	i	53 39
	F	06.9
Oct. 27		
TUC	iP	10 27 12
	i	27 37
	e(S)	28 40
	i	28 56
	iL	29 26
	F	10.6
Oct. 27, H = 11 24 28* Epicenter in the region 15½°N, 91°W. Central Guatemala. Depth about 100 km.		
BH	e	11 27 30
BC	iP	11 30 28
	iPP	31 11.5
	iPcP	33 28
	eS	35 11
	iPcS	36 48
	iScP	40 46
BOZ	eP	11 31 12
	e	31 42
	ePP	32 24
	e	32 42

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
BOZ, cont.		
	iS	11 36 24
	isS	37 28
	i	37 45
	eL	39 41
	F	12.9
BUT	eP	11 31 23
	e	32 04
	ePP	32 23
	ePPP	33 02
	eS	36 39
	esS	37 31
	i	38 00
	eL	40 02
	F	12.5
CHI	iP	11 30 01
	ipP	30 44
	ePcP	33 34
	eS	34 16
	iS	34 20
	i	35 00
	iL	36 43
	F	12.7
COL	eP	11 34 43
	epP	35 32
	ePP	37 42
	eS	42 49
	e	43 46
	eSS	47 00
	eL	50 26
	F	12.8
COLU	iP	11 29 08
	iPP	29 46
	iS	32 52
	eL	37 07
	F	12.3
GC	eP	11 31 54
	ipP	32 35
	iPP	33 37
	iScP	37 24
	iS	37 46
	eL	41 03
HONO	eS	11 42 50
	e	44 03
	eL	50 22
	F	12.0

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
HUAN	iP	11 30 48
	e	31 40
	ePP	32 00
	e	32 28
	iS	35 36
	iL	38 00
	F	12.3
LOG	eP	11 30 47
	i	30 51
	i	32 11
	iS	35 46
	iL	37 05
	F	12.5
OV	iP	11 31 00
	i	31 26
PHIL	iP	11 30 18
	i	31 05
	iS	34 43
	i	36 02
	eL	36 58
	F	12.5
PF	iP	11 30 24
	i	31 07
RC	iP	11 30 38
	i	31 49
	iS	35 29
	i	36 36
	iL	37 02
	F	12.2
SLC	iP	11 30 44
	e	31 19
	eS	35 29
	iS	35 36
	i	36 49
	eL	37 28
	F	12.6
SJ	iP	11 29 40
	i	30 10
	i	30 40
	iS	33 45
	iL	35 00
	F	13.4

Date and Station		Phase (GCT)
		h m s
Oct. 27, cont.		
SEA	e	11 39 05
	eL	42 31
	F	12.0
SH	iP	11 31 30.5
	iPcP	33 48
	eS	37 04
	i	41 13.4
	iScS	41 23
SIT	iP	11 33 39
	ePPP	36 54
	iS	41 54
	e	46 03
	eL	50 11
	F	13.0
TUC	eP	11 29 41
	i	29 58
	iPP	30 28
	iPPP	30 50
	e	31 26
	iPcP	33 16
	iS	33 50
	i	34 52
	iScP	36 33
	iScS	40 25
	F	12.3
UK	e	11 31 32
	eS	37 07
	e	38 27
	eL	41 32
	F	12.2
Oct. 27		
TUC	iP	12 02 48
	F	12.1
Oct. 28		
BOZ	eL	01 25 10
	F	01.8
SJ	e	00 42 07
	e	44 47
	e	48 37
	eL	01 05 00
	F	02.2
TUC	e	00 36 22
	eL	01 27 54
	F	01.0

Date and Station		Phase (GCT)
		h m s
Oct. 28		
TUC	eP	02 39 57
	F	02.7
Oct. 28, H = 05 37 43** Santa Cruz Islands region. Depth about 200 km.		
BC	iP	05 50 16.5
	ipP	51 01
	eSKS	06 00 18
BOZ	eSKS	06 00 58
	eL	24 53
	F	06.7
CHI	eL	06 34 47
	F	07.1
COL	eS	06 00 17
	e	06 59
	eL	12 07
	F	06.3
GC	eP	05 50 18
	ipP	51 06
	eS	06 00 48
OV	eP	05 50 48
	epP	51 37
PF	iP	05 50 20
	ipP	51 05
SJ	e	05 59 16
	eSKKS	06 08 00
	eL	43 20
	F	07.1
SH	iP	05 49 57.5
	ipP	50 42
	i	53 56
SIT	e	05 50 43
	ePP	53 37
	iS	06 00 08
	eSS	05 32
	eL	12 32
	F	07.0

Date and Station		Phase (GCT)
		h m s
Oct. 28, cont.		
TUC	iP	05 50 27
	ipP	51 11
	i	53 29
	e	54 33
	eSKS	06 00 13
	esS	02 15
	e	03 10
	eL	19 12
	F	06.7
Oct. 28		
TUC	iP	08 16 53
	F	08.3
BOZ	eL	08 33 01
	F	08.7
Oct. 28		
TUC	eP	10 33 23
	F	10.6
Oct. 28		
BC	e	20 34 53.0
OV	eP	20 34 54
PF	eP	20 34 36
TUC	eP	20 35 39
	F	20.6
Oct. 29, H = 04 58 48** Probable epicenter, Fiji Islands region. Slightly deeper than normal.		
BC	iP	05 11 13.5
	i	11 27
BOZ	eL	05 20 00
	F	05.7
GC	eP	05 11 38
HUAN	eL	05 43(00)
	F	06.1
OV	eP	05 11 19
PF	iP	05 11 18
	i	11 31

Date and Station		Phase (GCT)
		h m s
Oct. 29, cont.		
SH	iP	05 11 03.5
TUC	iP	05 11 18
	i	11 31
	i	11 44
	eL	48 02
	F	06.1
Oct. 29, H = 06 41 21* Epicenter in the region 70°N, 139°W. Northwestern Yukon, Canada.		
BOZ	eL	06 57 06
	F	07.2
BUT	eL	06 56 43
	F	07.0
COL	e	06 42 50
	e	43 00
	eS	43 33
	eL	43 45
	F	06.9
GC	eP	06 46 39
	e	54 37
LOG	eL	06 57 27
	F	07.1
RC	e	06 56 42
	eL	59 25
	F	07.1
SLC	eL	06 58 40
	F	07.1
SIT	e	06 44 32
	iL	48 02
	F	07.0
TUC	iP	06 49 06
	F	06.9
Oct. 29		
TUC	iP	07 00 28
	F	07.0
Oct. 29		
TUC	eP	09 57 03
	F	10.0

Date and Station		Phase (GCT)
		h m s
Oct. 29, H = 10 11 00** Probable epicenter, Queen Charlotte Islands, off British Columbia.		
BC	iP	10 15 44
GC	eP	10 15 46.4
	e	17 25.4
OV	eP	10 15 37
PF	iP	10 15 47
SH	eP	10 14 18.5
TUC	eP	10 16 35
	i	16 48
	F	10.3
Oct. 29, H = 10 54 15* Epicenter in the region 51½°N, 131½°W. Northwest of Vancouver, British Columbia.		
BC	iP	10 58 46
	i	59 00
	e(S)	11 02 41
BOZ	eP	10 57 43
	i	58 15
	eS	11 00 29
	e	00 51
	iL	01 43
	F	12.4
BUT	eP	10 57 36
	e	58 05
	eS	59 44
	eL	11 00 23
	F	12.3
CHI	eS	11 05 43
	eL	07 11
	F	12.3
COL	eP	10 57 58
	e	58 40
	eS	11 01 01
	eL	01 58
	F	12.5

Date and Station		Phase (GCT)
		h m s
Oct. 29, cont.		
COLU	e	11 03 25
	eS	07 52
	eL	10 57
	F	12.8
GC	eP	10 56 22.7
	i	56 53.5
	e	57 52
	e	58 18.5
HONO	eL	11 09 40
	F	12.3
HUAN	e	11 07(03)
	eS	16(37)
	eL	31(20)
	F	12.4
LOG	iP	10 58 12
	i	58 34
	iS	11 01 18
	iL	02 37
	F	12.4
OV	eP	10 58 43
PHIL	e	11 02 43
	eS	07 58
	iScS	10 43
	iL	13 50
	F	12.4
PF	iP	10 58 49
RC	iP	10 58 53
	i	59 48
	i	11 01 24
	iS	02 41
	iL	04 48
	F	12.2
SLC	iP	10 58 19
	i	58 45
	eS	11 01 37
	eL	02 33
	F	12.4
SJ	eP	11 04 13
	iS	12 45
	e	17 18
	eL	22 10

Date and Station		Phase (GCT)
		h m s
Oct. 29, cont.		
SEA	eS	10 57 25
	eL	58 40
	F	12.1
SH	iP	10 57 18.3
	eS	59 56.5
	eL	11 00 11.5
SIT	iP	10 55 44
	i	56 00
	i(S)	56 59
TUC	iP	10 59 37
	e	11 00 02
	e	00 27
	iS	04 03
	i	05 16
	i	06 09
	i	06 25
	eL	07 17
	F	12.7
UK	eP	10 57 34
	e	58 02
	eS	11 00 11
	i	00 35
	eL	00 50
	F	12.3
Oct. 29		
TUC	iP	11 07 39
	F	Lost.
Oct. 29		
SH	iP	11 04 17.5
Oct. 29, H = 11 45 30** Probable epicenter, off southern coast of Mexico.		
BC	iP	11 51 23
	i	51 31.5
OV	eP	11 51 26
PF	iP	11 51 19
TUC	iP	11 50 37
	i	50 46
	F	11.9

Date and Station		Phase (GCT)
		h m s
Oct. 29		
BC	iP	15 21 46
OV	eP	15 21 47.6
PF	eP	15 21 48
SH	eP	15 20 46
TUC	iP	15 22 23
	F	15.4
Oct. 30		
TUC	eP	03 34 18
	F	03.6
Oct. 30		
TUC	eP	13 18 01
	e	23 44
	F	13.5
Oct. 30		
TUC	e	14 27 33
	F	14.5
Oct. 31		
OV	eP	20 42 41
	i	43 24
PF	iP	20 42 44
	i	42 52
	e	43 33.5
Oct. 31, H = 20 41 52 By Pasadena, 34°20'N, 117°07'W. Northeast of Lake Arrowhead. Felt at Fawnskin. Mag. 3.7		
TUC	e	20 43 19
	e	43 26½
	e	43 42
	e(S)	44 05
	e	44 22½
	e	44 44½
	iL	45 03
	F	20.8
Oct. 31		
TUC	iP	21 01 04
	F	21.1

Date and Station		Phase (GCT)
		h m s
Nov. 1		
TUC	iP	10 03 27
	F	10.1
Nov. 1		
BC	iP	11 38 18.5
	i	38 25
	i	38 49
	i(S)	39 07
OV	i	11 38 02
	i	38 05
PF	eP	11 38 13
	iP	38 15
TUC	eP	11 39 19
	i	39 26
	i	39 50
	eS	40 32
	i	40 40
	iL	41 11
	F	11.8
Nov. 1		
TUC	e	19 13 49
	i	14 01
	e(S)	14 22
	eL	14 49
	F	19.3
Nov. 1		
TUC	iP	19 30 31
	i	30 36
	e	30 53
	i(S)	31 04
	e	31 26
	eL	31 56
	F	19.6
Nov. 1		
SJ	i	19 47 58
	eL	48 20
	F	19.9
Nov. 1		
TUC	e	20 14 37
	e	15 07
	e	15 21
	eL	15 54
	F	20.3

Date and Station		Phase (GCT)
		h m s
Nov. 1		
TUC	e	20 27 29
	e	27 50
	e	28 22
	iL	28 44
	F	20.5
Nov. 1		
TUC	e	20 33 10
	i	33 17
	i	33 27
	i	33 42
	iL	34 05
	F	20.6
Nov. 2, H = 17 43 41* Epicenter in the region 15°N, 97°W. Off southern coast of Mexico.		
BC	eP	17 49 21
	iP	49 22
	eL	57 33
GC	eP	17 51 00
PF	iP	17 49 19
TUC	iP	17 48 32
	e	49 32
	e	54 44
	eL	55 10
	F	18.1
Nov. 2, H = 18 57 55* Epicenter in the region 4½°S, 127°E. Banda Sea.		
HUAN	eP	19 17 50
	ePPP	24 13
	eL	20 16 45
	F	21.9
SJ	eP'	19 18 54
	e	25 15
	eL	58 25
	F	20.7
TUC	iP'	19 16 49
	(e)	19 06
	eL	55 24
	F	20.7

Date and Station		Phase (GCT)
		h m s
Nov. 2		
TUC	iP	23 10 49
	F	23.2
Nov. 3, H = 04 06 22** Probable epicenter, Gulf of California.		
BC	eP	04 09 47
	e(S)	13 10
PF	iP	04 09 45
SLC	eL	04 14 45
	F	04.3
TUC	iP	04 08 41
	i	09 00
	e	09 16
	eS	10 31
	eL	10 41
	F	04.3
Nov. 3		
SJ	i(P)	05 01 54
	e(S)	02 27
	eL	03 04
	F	05.1
Nov. 3		
OV	eP	06 35 17
PF	iP	06 35 17.5
Nov. 3, H = 08 03 10** Probable epicenter, near northern coast of Chile.		
OV	eP	08 34 14
TUC	iP	08 14 11
	i	14 38
	F	08.3
Nov. 3		
PF	iP	08 58 07
TUC	eP	08 57 33
	i	57 38
	i	57 47
	i	58 00
	iL	58 41
	F	09.1

Date and Station		Phase (GCT)
		h m s
Nov. 3, H = 22 09 00* Epicenter in the region 59°N, 151°W. Off southern coast of Alaska.		
BC	iP	22 15 40
	i	15 51
	eS	21 01
	e	22 24.5
BOZ	eP	22 15 05
	e	18 38
	eS	19 20
	eL	21 03
	F	23.4
BUT	eP	22 14 40
	e	14 55
	i	15 12
	e	18 02
	iS	19 10
	e	20 45
	eL	22 00
	F	22.9
CHI	eP	22 16 57
	i	17 14
	iPP	18 42
	eS	22 47
	eL	26 28
	F	23.3
COL	iP	22 10 31
	i	10 41
	i(S)	11 13
	e	11 31
	i	11 33
	iL	32 04
	F	22.8
COLU	eP	22 18 09
	e	18 22
	ePP	20 23
	eS	25 22
	eScS	28 11
	eL	33 25
	F	23.3
GC	iP	22 13 56.7
	i	14 07.5
	i	14 08.7
	e	17 47
	eL	20 03

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
HONO	eS	22 22 18
	e	25 10
	eL	26 35
	F	22.7
HUAN	e	22 22 35
	ePP	26 15
	eSKS	33 10
	ePS	34 50
	eL	48 50
	F	23.5
OV	iP	22 15 38
	i	15 39
	i	15 54
	eS	22 03
PHIL	eP	22 18 06
	ePP	20 05
	iS	25 03
	eScS	27 39
	e	29 17
	eL	33 39
	F	23.4
PF	iP	22 15 42.5
	i	15 55
RC	iP	22 15 36
	i	16 29
	eS	20 36
	e	20 50
	e	21 33
	eL	26 45
	F	23.1
SLC	e	22 15 44
	i	16 01
	eS	20 17
	eL	24 49
	F	23.3
SJ	eP	22 20 21
	i	20 42
	eS	29 41
	iScS	30 44
	eL	38 45
	F	23.9
SEA	eL	22 11 48
	F	22.7

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
SH	iP	22 14 35.5
	i	14 49.3
	eS	19 06
	iL	21 44
SIT	iP	22 11 04
	i	11 32
	iL	12 59
	F	22.7
TUC	eP	22 16 22
	ipP	16 38
	iPP	17 58
	eS	22 07
	e	22 21
	eL	25 08
	F	23.6
UK	eP	22 14 40
	i	15 05
	e	15 36
	eL	20 35
	F	23.4
Nov. 4		
HUAN	eL	03 52 30
	F	04.2
TUC	eP	03 58 44
	F	04.0
Nov. 4		
TUC	eP	11 50 46
	e	51 13
	F	11.9
Nov. 4		
TUC	e	12 47 32
	F	12.8
Nov. 4		
BC	eP	16 45 29.5
	i	45 37
	i	46 22.5
PF	iP	16 45 34.5
	e	46 35
Nov. 4		
BH	iP	18 16 03
	iS	16 16
	F	18 18

Date and Station		Phase (GCT)
		h m s
Nov. 4, cont.		
TUC	eP	18 20 28
	F	18.4
Nov. 5		
BC	iP	17 44 01
	i	44 02.7
	e	44 16
	iS	44 19
OV	i(S)	17 44 20.0
PF	iP	17 44 10.8
	i	44 12.0
	iS	44 33.5
	i	44 35.5
Nov. 5		
HUAN	eL	21 51 25
	F	23.3
Nov. 7		
GC	eP	20 22 25.5
SH	i	20 22 43
	i	23 10
TUC	iP	20 24 05
	ipP	24 35
	isP	24 46
	F	20.5
Nov. 7		
TUC	iP	23 48 43
	e	49 08
	F	23.8
Nov. 8		
TUC	eP	01 02 16
	F	01.1
Nov. 8		
OV	iP	02 43 49
PF	iP	02 43 45
SH	iP	02 44 26.5
TUC	iP	02 43 17
	i	43 35
	F	02.8

Date and Station		Phase (GCT)
		h m s
Nov. 8, H = 09 05 26* Epicenter in the region 81°N, 18°W. Greenland foreshock.		
BC	eP	09 15 26
	eL	34 19
BOZ	e(P)	09 20 41
	eScS	23 53
	eL	26 40
	F	10.3
BUT	eS	09 20 54
	e	24 05
	eL	28 54
	F	09.9
CHI	iS	09 20 49
	iScS	24 01
	eL	27 22
	F	10.2
COL	e	09 11 55
	eS	17 06
	eL	23 33
	F	10.1
COLU	eS	09 22 15
	eSS	26 00
	eL	28 38
	F	10.1
GC	eP	09 13 41
	iS	20 20.8
	eScS	23 24
	eL	25 46
HUAN	eSKS	09 29 46
	eSS	36 50
	eL	50 40
	F	10.4
LIN	e	09 24 27
	eL	27 06
	F	09.8
LOG	eS	09 21 42
	eScS	24 08
	eL	29 35
	F	10.1

Date and Station		Phase (GCT)
		h m s
Nov. 8, cont.		
NK	eL	09 28 07
	F	09.7
PHIL	eS	09 20 47
	iSS	24 07
	eL	29 23
	F	10.1
PF	eP	09 15 06
RC	e	09 14 10
	eSS	23 48
	iL	26 24
	F	09.9
SLC	eL	09 30 23
	F	09.8
SJ	eL	09 39 12
	F	10.5
SH	eP	09 14 39.5
	iP	14 49.5
	eL	32 52
SIT	eS	09 18 48
	eL	21 45
	F	10.1
TUC	iP	09 15 28
	e	17 34
	ePP	17 52
	eS	23 48
	eScS	25 26
	eL	31 43
	F	10.2
UK	eL	09 31 44
	F	10.2
Nov. 8, H = 10 02 40* Epicenter in the region 81°N, 18°W. Near northeast coast of Greenland.		
BC	eP	10 12 20
	i	15 11
	eS	20 06
BOZ	eS	10 17 50
	eScS	21 03
	eL	23 41
	F	11.0

Date and Station		Phase (GCT)
		h m s
Nov. 8, cont.		
BUT	eL	10 21 20
	F	10.9
CHI	iP	10 11 07
	eS	17 54
	eScS	21 02
	eL	23 47
	F	10.9
COL	eP	10 09 06
	ePP	10 09
	e(S)	14 20
	eL	21 45
	F	10.8
COLU	eS	10 19 20
	eL	24 55
	F	11.0
GC	eP	10 10 55
	ePP	12 31
	e	13 38
	eS	17 39
	eL	27 06
HUAN	eSKS	10 27 02
	eL	46 20
	F	11.3
LIN	eL	10 22 20
	F	10.7
LOG	ePP	10 13 39
	eScS	21 39
	eL	27 10
	F	11.0
NK	eL	10 25 20
	F	10.7
OV	eP	10 12 21
PHIL	eP	10 11 12
	iS	18 03
	eL	21 15
	F	11.0
PF	iP	10 12 19

Date and Station		Phase (GCT)
		h m s
Nov. 8, cont.		
RC	eP	10 11 20
	eL	21 25
	F	10.8
SLC	eL	10 23 38
	F	10.9
SJ	eL	10 37 08
	F	11.4
SH	eP	10 11 52.5
	iP	11 55.5
	eL	30 02
SIT	ePP	10 11 32
	eL	20 25
	F	10.8
TUC	iP	10 12 41
	iPP	14 52
	ePPP	16 15
	eS	20 40
	e	23 22
	eL	32 32
	F	11.2
UK	eL	10 28 34
	F	11.0
Nov. 8, H = 10 05 32* Probable epicenter, Greenland aftershock.		
TUC	iP	10 15 33
	F	10.8
Nov. 8, H = 11 19 27 By Pasadena, 33°57'N, 117°18'W. Southeast of Riverside, Calif. Felt. Mag. 3.5		
BC	iP	11 20 11.5
	i	20 19
	i	20 55
OV	iP	11 20 30.5
	i	21 15
PF	iP	11 20 20
	i	21 15

Date and Station		Phase (GCT)
		h m s
Nov. 8, cont.		
TUC	e	11 21 18
	e(S)	22 18
	iL	22 38
	F	11.4
Nov. 8, H = 13 06 53 By Pasadena, 33°57'N, 117°18'W. Southeast of Riverside, Calif. Felt. Mag. 3.3		
BC	iP	13 07 37
	i	07 44.5
	e	08 20.5
OV	eP	13 08 00
	e	08 41
PF	iP	13 07 45
	i	08 42
TUC	e	13 08 44
	i(L)	09 53
	F	13.2
Nov. 8		
TUC	eP	17 32 24
	F	17.6
Nov. 8, H = 20 09 10** Probable epicenter, San Francisco area, Calif.		
BC	eP	20 10 59
	e(S)	12 18
OV	eP	20 10 51
	i	11 06
	iS	11 50
PF	e	20 10 48
	e	11 12
	eL	12 57
SH	eP	20 10 13.6
	e(S)	10 52.7
	e	11 22.7
TUC	e	20 14 41
	F	20.3

Date and Station		Phase (GCT)
		h m s
Nov. 8		
BH	eP	21 33 11
	iS	33 51
	F	21 39
TUC	iP	21 39 27
	F	21.7
Nov. 8, H = 23 51 58* Epicenter in the region 19°N, 68°W. Off northeast coast of Dominican Republic.		
SJ	iP	23 52 31
	i	52 35
	i	52 40
	iS	52 52
	e	52 56
	iL	53 06
	F	00.0
TUC	eP	23 59 41
	e	59 55
	F	00.0
Nov. 9		
TUC	iP	13 06 14
	i	06 25
	i	06 33
	F	13.2
Nov. 9, H = 23 58 52* Epicenter in the region 15°S, 76½°W. Near coast of central Peru.		
HUAN	iP	23 59 40
	iS	00 00 14
	iL	00 24
	F	00.4
PF	e	00 09 07.5
TUC	eP	00 08 46
	i	08 47
	eL	28 07
	F	00.9
Nov. 10		
TUC	eP	01 50 50
	i	51 04
	F	01.9

Date and Station		Phase (GCT)
		h m s
Nov. 10		
TUC	e	12 05 55
	F	12.1
Nov. 10		
TUC	eP	17 55 26
	F	17.9
Nov. 10, H = 19 00 00** Probable epicenter, Samoa Islands region.		
BC	eP	19 07 33.5
	i	11 34.5
PF	iP	19 07 37
SH	iP	19 07 12
	i	11 21
TUC	eP	19 07 44
	F	19.2
Nov. 10		
GC	eP	19 11 56
TUC	iP	19 11 40
	e	12 46
	eL	34 20
	F	19.9
Nov. 10, H = 20 50 54** Probable epicenter, Solomon Islands region.		
BC	eP	21 04 12.5
GC	eP	21 04 11
PF	iP	21 04 16
SH	iP	21 03 51
TUC	iP	21 04 24
	i	04 42
	i	04 54
	F	21.1
Nov. 10, H = 22 10 19** Probable epicenter, Samoa Islands region.		

Date and Station		Phase (GCT)
		h m s
Nov. 10, cont.		
BC	eP	22 22 04
HUAN	eL	22 58 46
	F	23.4
OV	iP	22 22 08
PF	eP	22 22 05
SIT	e	22 49 08
	eL	59 10
	F	23.1
TUC	eP	22 22 05
	e	22 08
	eL	48 18
	F	23.4
Nov. 10, H = 22 51 53** Probable epicenter, Samoa Islands region.		
BC	eP	23 03 34
GC	eP	23 03 58
PF	eP	23 03 37
	iP	03 39
SH	eP	23 03 21
TUC	iP	23 03 39
	eL	30 14
	F	00.7
Nov. 11		
TUC	eP	08 39 28
	F	08.7
Nov. 11		
TUC	e	08 49 48
	F	08.8
Nov. 11, H = 09 22 11* Epicenter in the region 6°S, 152°E. New Britain region.		
COL	eL	10 02 05
	F	10.6

Date and Station		Phase (GCT)
		h m s
Nov. 11, cont.		
SH	eP	09 34 17
SIT	i	09 45 36
	eL	10 01 00
	F	10.5
TUC	e	09 36 07
	eL	10 07 40
	F	10.9
UK	eL	10 04 09
	F	10.4
Nov. 11, H = 12 06 03** Probable epicenter, New Britain aftershock.		
TUC	eP	12 19 52
	F	12.3
Nov. 12		
BH	iP	05 32 01
	iS	32 12
	F	05 40
Nov. 12		
BH	e	05 37 33
	e	37 43
	F	05 39
Nov. 12		
SIT	iP	09 13 48
	e	13 55
	iL	14 25
	F	09.3
Nov. 12		
HUAN	e(P)	15 34 02
	e	34 08
	eS	34 29
	eL	34 53
	F	15.7
Nov. 12		
TUC	iP	20 10 20
	i	10 30
	F	20.2
Nov. 12		
TUC	iP	21 00 36
	F	21.0

Date and Station		Phase (GCT)
		h m s
Nov. 13		
OV	e	01 13 37.5
PF	iP	01 13 48
SH	iP	01 12 59.3
	e(S)	13 38
TUC	e	01 14 34
	e(L)	17 58
	F	01.3
Nov. 13, H = 02 46 38* Epicenter in the region $8\frac{1}{2}$°S, $79\frac{1}{2}$°W. Near west-central coast of Peru. Slightly deeper than normal.		
BC	eP	02 56 14
GC	eP	02 57 22
	i	57 27
HUAN	eP	02 48 01
	i	48 07
	e	48 18
	e(S)	48 32
	i	48 36
	iL	48 56
	F	03.1
PF	iP	02 56 11
SH	iP	02 57 02
TUC	iP	02 55 36
	i	55 48
	i	56 07
	eL	03 12 35
	F	03.4
Nov. 13		
BCZ	eL	09 21 25
	F	09.5
BUT	eL	09 20 29
	F	09.4
GC	eP	09 14 53.5
	e	18 04
	e(S)	19 46

Date and Station		Phase (GCT)
		h m s
Nov. 13		
TUC	e	19 51 16
	F	19.9
Nov. 13		
TUC	iP	20 18 03
	e	18 11
	F	20.3
Nov. 13		
TUC	eP	21 09 23
	F	21.2
Nov. 13		
TUC	e	21 31 25
	F	21.5
Nov. 14		
TUC	eP	03 51 25
	F	03.9
Nov. 14		
CHI	eL	10 29 13
	F	10.6
GC	iP	10 14 27.5
	e	17 39
SIT	iP	10 12 28
	i	12 45
	iL	12 59
	F	10.3
TUC	eP	10 18 09
	F	10.3
Nov. 14, H = 14 43 30 By Pasadena, 35°24'N, 118°55'W. East of Bakersfield, Calif. Felt at Bakersfield. Mag. 3.7		
BC	iP	14 44 30.5
	i	44 47.8
	eS	45 16
CV	iP	14 44 44
	iS	45 34
PF	iP	14 44 34
	i	44 52
	e	45 48

Date and Station		Phase (GCT)
		h m s
Nov. 14, cont.		
TUC	eL	14 47 19
	F	14.8
Nov. 15, H = 01 35 32** Probable epicenter, South of Fiji Islands.		
TUC	e	01 48 12
	e	48 20
	eS	02 00 18
	eL	15 52
	F	02.6
Nov. 15, H = 02 56 26 By Pasadena, 33°12'N, 115°56'W. Northeast of Bailey Wells, Calif. Mag. 3.8		
TUC	e	02 57 37
	i	57 56
	i(S)	58 24
	iL	59 01
	F	03.0
Nov. 15		
TUC	eP	13 59 14
	iP	59 17
	i(pP)	59 57
	F	14.1
Nov. 15, H = 15 58 21* Epicenter in the region 4°N, 83°W. Pacific Ocean, south of Panama.		
BH	iP	15 59 50
	eS	16 00 57
	F	16 10
HUAN	e(P)	16 02 29
	e	03 59
	e(S)	06 11
	eL	07 10
	F	16.4
SJ	e(P)	16 03 15
	eS	07 03
	eL	07 20
	F	16.5

Date and Station		Phase (GCT)
		h m s
Nov. 15, cont.		
TUC	eP	16 05 45
	eL	19 28
	F	16.7
Nov. 15, H = 21 51 51* Epicenter in the region 4°N, 83°W. Pacific Ocean, south of Panama.		
BH	iP	21 53 21
	F	22 05
HUAN	i	21 55 57
	i	59 26
	iL	22 00 24
	F	22.4
SJ	eP	21 56 36
	iP	56 47
	e(S)	22 00 52
	eL	04 20
	F	22.3
TUC	iP	21 59 15
	e	59 48
	eL	22 12 40
	F	22.6
Nov. 15		
HUAN	e	22 27 29
	e	28 42
	eL	30 31
	F	22.7
SH	eP	22 28 40
TUC	iP	22 27 41
	i	27 54
	F	22.5
Nov. 16		
BOZ	e	02 20 18
	eL	26 42
	F	03.2
Nov. 16		
SIT	iP	08 56 25
	iL	56 33
	F	09.0

Date and Station		Phase (GCT)
		h m s
Nov. 16, H = 11 07 15** Probable epicenter, Pacific Ocean, south of Panama aftershock.		
BH	e	11 09 29
	i	10 28
	F	11 15
BC	eP	11 15 21.5
PF	iP	11 15 19
TUC	iP	11 14 39
	F	11.3
Nov. 16		
TUC	eP	12 39 07
	F	12.7
Nov. 16, H = 17 47 30** Probable epicenter, Samoa Islands region.		
OV	eP	17 59 15
	i(S)	18 08 00
	eL	16 30
TUC	iP	17 59 16
	F	18.0
Nov. 16, H = 18 02 20* Epicenter in the region 58°N, 137°W. About 100 miles west of Juneau, Alaska.		
BC	iP	18 08 01
BOZ	iP	18 06 59
	iS	10 50
	eL	12 11
	F	19.5
BUT	iP	18 06 48
	e(S)	10 19
	eL	12 08
	F	19.0
CHI	eL	18 17 09
	F	18.9

Date and Station		Phase (GCT)
		h m s
Nov. 16, cont.		
COL	eP	18 04 33
	eS	05 57
	eL	06 23
	F	19.2
COLU	eS	18 17 05
	e	18 43
	eL	20 19
	F	19.3
GC	iP	18 05 54
	i	06 07
	e(S)	09 14
	iL	09 58
HONO	eL	18 19 05
	F	18.7
HUAN	eL	18 44 45
	F	19.1
LIN	eL	18 16 19
	F	18.7
LOG	iP	18 07 31
	i	08 00
	ePP	08 26
	eS	11 50
	eL	13 33
	F	19.3
PHIL	eL	18 19 53
	F	18.9
PF	iP	18 08 03
RC	iP	18 07 50
	iPP	08 28
	e	10 24
	eS	12 25
	e	13 20
	iL	15 00
	F	18.7
SLC	iP	18 07 33
	iS	12 00
	eL	13 43
	F	19.0

Date and Station		Phase (GCT)
		h m s
Nov. 16, cont.		
SJ	e(S)	18 21 37
	eL	29 32
	F	18.4
SEA	e(S)	18 08 15
	eL	08 51
	F	18.4
SH	iP	18 06 53.5
	i(S)	10 53
SIT	iP	18 02 44
	iS	03 02
	F	19.4
TUC	iP	18 08 43
	ePP	09 54
	eS	13 43
	eL	14 46
	F	19.3
UK	e(S)	18 11 11
	eL	13 07
	F	18.6
Nov. 16		
BH	e	23 02 07
	F	23 08
Nov. 17		
COL	iP	04 24 49
	i	24 55
	e	25 00
	eL	25 04
	F	04.5
GC	e	04 36 34
TUC	eP	04 32 13
	F	04.6
Nov. 17		
COLU	eL	17 42 07
	F	17.9
TUC	iP	16 20 06
	e	21 02
	F	16.4

Date and Station		Phase (GCT)
		h m s
Nov. 17		
TUC	iP	20 54 34
	e	54 56
	F	20.9
Nov. 17, H = 22 04 35** Probable epicenter, Juneau, Alaska, aftershock.		
GC	iP	22 07 57.5
	i(S)	12 04.5
SIT	iP	22 04 50
	iS	05 08
	F	22.2
TUC	eP	22 10 51
	F	22.2
Nov. 17, H = 22 19 05* Epicenter in the region 58°N, 137°W. Off southern coast of Alaska, about 150 miles northwest of Sitka.		
BC	eP	22 24 45
BOZ	e	22 15 21
	e	27 42
	eL	29 54
	F	22.7
BUT	eP	22 23 33
	ePP	24 12
	eL	29 11
	F	22.7
CHI	eL	22 37 18
	F	22.7
COL	e	22 21 33
	e(S)	23 00
	eL	23 05
	F	22.7
GC	iP	22 22 37
	i	22 39
	e(L)	26 25

Date and Station		Phase (GCT)
		h m s
Nov. 17, cont.		
OV	eP	22 24 45
PF	iP	22 24 48
SLC	e(S)	22 28 46
	eL	31 19
	F	22.7
SJ	eL	22 51 40
	F	23.1
SH	eP	22 23 38
SIT	iP	22 19 28
	iS	19 45
	F	22.8
TUC	iP	22 25 28
	i	26 03
	ePP	26 40
	eL	35 32
	F	22.5
Nov. 18		
TUC	eP	00 14 57
	F	00.3
Nov. 18, H = 01 07 41* Epicenter in the region 38°N, 112°W. South-central Utah. Felt at Richfield, Glenwood, and Monroe.		
BC	iP	01 08 34.5
	i	08 42.5
	i	09 28
OV	eP	01 08 26
	iP	08 31
	i	08 32
	i(S)	09 10
PF	iP	01 08 27.5
	i	08 32.5
	i	08 33.5
	i(S)	09 12.5

Date and Station		Phase (GCT)
		h m s
Nov. 18, cont.		
TUC	eP	01 09 15
	i	09 32
	i	09 36
	i(S)	10 10
	i	10 38
	i	10 55
	iL	11 22
	F	01.4
Nov. 18		
GC	iP	03 03 57
	e(S)	07 11
TUC	eP	03 30 07
	F	03.5
Nov. 18		
TUC	eP	13 29 44
	F	13.5
Nov. 18		
TUC	e	19 41 43
	e	41 52
	F	19.7
Nov. 19, H = 04 35.3 By Pasadena, 32°N, 116°W. Sierra Juarez, Baja California. Mag. 3.8		
TUC	e(P)	04 36 25
	i	36 40
	i	37 36
	eL	37 49
	F	04.7
Nov. 19		
TUC	iP	11 16 50
	F	11.3
Nov. 19, H = 19 43 41** Probable epicenter, Solomon Islands region. Depth about 100 km.		
BC	iP	19 56 26
	ipP	56 56
GC	iP	19 56 29
	e	57 01

Date and Station		Phase (GCT)
		h m s
Nov. 19, cont.		
OV	e	19 56 30
PF	eP	19 54 34
	epP	55 16
SH	iP	19 56 05
	epP	56 35
TUC	iP	19 56 37
	ipP	57 08
	F	20.0
Nov. 19, H = 23 58 00** Probable epicenter, off coast of British Columbia.		
GC	eP	23 59 44.8
	i	59 59.3
	i	00 00 14
	eS	00 59
SH	iP	00 00 33
TUC	eP	00 02 57
	e	03 14
	F	00.1
Nov. 20		
SJ	iP	02 42 31
	i	42 41
	eL	42 54
	F	02.7
Nov. 20		
SJ	eP	03 55 51
	i	56 08
	iS	56 36
	iL	57 04
	F	04.1
Nov. 20		
TUC	eP	05 25 09
	F	05.4
Nov. 20		
TUC	iP	06 25 33
	ipP	26 16
	F	06.5

Date and Station		Phase (GCT)
		h m s
Nov. 20, H = 06 27 55* Epicenter in the region 39°N, 43°E. Eastern Turkey.		
TUC	eP	06 45 24
	eL	07 26 40
	F	07.7
Nov. 20		
TUC	eP	09 51 40
	e	51 55
	F	09.4
Nov. 20		
TUC	eP	12 16 49
	e	22 09
	F	12.4
Nov. 20		
TUC	eP	13 23 30
	e	23 52
	F	13.4
Nov. 20		
HUAN	iP	14 10 17
	e	10 22
	e(S)	10 35
	eL	10 48
	F	14.3
Nov. 20, H = 18 07 09* Epicenter in the region 16°N, 98°W. Near southern coast of Mexico.		
BC	iP	18 21 41
BOZ	eL	18 24 24
	F	18.6
GC	iP	18 14 19
OV	eP	18 12 43
PF	iP	18 12 36
RC	eL	18 22 50
	F	18.5

Date and Station		Phase (GCT)
		h m s
Nov. 20, cont.		
TUC	iP	18 11 48
	e	12 35
	eL	17 25
	F	18.6
Nov. 20		
TUC	e	19 35 39
	e	41 36
	F	19.8
Nov. 21		
TUC	eP	02 03 42
	F	02.1
Nov. 21		
TUC	e	02 45 05
	e	45 10
	i	45 13
	eS	45 38
	i	45 53
	iL	46 16
	F	02.8
Nov. 21		
TUC	eP	04 55 55
	F	04.9
Nov. 21		
TUC	e	13 57 07
	e	57 12
	e(S)	57 55
	i	58 17
	iL	58 55
	F	14.3
Nov. 21		
HUAN	iP	18 57 23
	e	57 42
	iL	57 46
	F	19.0
Nov. 21		
TUC	iP	23 37 55
	F	23.6
Nov. 22		
TUC	eP	06 45 42
	i	45 47
	e	46 03
	F	06.8

Date and Station		Phase (GCT)
		h m s
Nov. 22		
HUAN	iP	06 56 37
	e	56 54
	e	58 00
	e(L)	58 01
	F	07.0
Nov. 22		
TUC	eP	09 06 29
	e	06 34
	F	09.1
Nov. 22, H = 15 19 21* Epicenter in the region 20°N, 70°W. Dominican Republic.		
BER	eL	15 25 03
	F	16.5
BOZ	eL	15 41 11
	F	16.0
BUT	eL	15 42 10
	F	15.9
CHI	eL	15 30 36
	F	15.8
COLU	eL	15 27 13
	F	16.0
HUAN	eS	15 31 10
	e	32 49
	eL	34 35
	F	16.0
PHIL	e(P)	15 24 11
	eL	28 30
	F	15.8
RC	eL	15 37 37
	F	15.8
SJ	eP	15 20 23
	iP	20 27
	i	20 34
	i(S)	21 14
	i	21 27
	iL	21 45
	F	16.0

Date and Station		Phase (GCT)
		h m s
Nov. 22, cont.		
TUC	iP	15 26 47
	i	27 13
	ePP	28 27
	eL	39 42
	F	16.1
Nov. 22, H = 20 50 42** Probable epicenter, Flores Sea region.		
BC	iP'	21 09 43
HUAN	eL	22 07 00
	F	22.9
OV	iP'	21 09 47
PF	eP'	21 09 44
	iP'	09 45
SJ	e	21 11 03
	e	16 25
	e	24 14
	e	36 51
	eL	22 17 10
	F	23.0
TUC	eP'	21 09 52
	i	10 02
	ePP	12 25
	eL	51 29
	F	22.8
Nov. 23, H = 04 49 44** Epicenter in the region 9°S, 158°E. Solomon Islands region.		
BC	eP	05 02 50
	epP	03 06
GC	iP	05 02 45
	ipP	03 03.5
OV	eP	05 02 53
	epP	03 17
PF	iP	05 02 54
	ipP	03 11
SH	iP	05 02 27.5
	ipP	02 43.5

Date and Station		Phase (GCT)
		h m s
Nov. 23, cont.		
TUC	eP	05 03 02
	epP	03 18
	F	05.1
Nov. 23		
TUC	eP	07 20 47
	F	07.4
Nov. 23		
TUC	e	09 34 12
	F	09.6
Nov. 23		
TUC	eP	13 02 53
	F	13.0
Nov. 23		
SJ	eL	22 09 25
	F	22.3
Nov. 24		
BC	eP	02 26 29
OV	eP	02 26 33
PF	eP	02 26 31
SH	iP	02 26 17.3
TUC	iP	02 26 32
	i	26 44
	e	29 34
	F	02.5
Nov. 24		
TUC	eP	05 26 01
	e	26 15
	F	05.5
Nov. 24		
BH	e	07 09 58
	e	10 40
	F	07 13
Nov. 24		
GC	iP	12 50 08
	i	50 10
	e	50 37
	eS	50 40
	iS	50 41

Date and Station		Phase (GCT)
		h m s
Nov. 24		
TUC	iP	21 13 11
	F	21.2
Nov. 25		
TUC	e	01 48 02
	F	01.8
Nov. 25		
TUC	e	03 29 32
	i	32 58
	F	03.6
Nov. 25		
GC	eP	08 53 43
	i	54 12
TUC	iP	08 56 13
	ipP	56 42
	e	09 01 51
	F	09.1
Nov. 25		
TUC	e	13 57 18
	i	57 56
	F	14.0
Nov. 25, H = 19 12 46* Epicenter in the region 31°N, 115°W. Gulf of California.		
BC	iP	19 14 07
	i	14 12
	i	14 31
	e(S)	15 16
OV	eP	19 14 15
	i	14 33
PF	iP	19 14 10
	i	14 56
TUC	iP	19 13 47
	i	13 52
	i	14 07
	i(S)	14 22
	eL	15 23
	F	19.5

Date and Station		Phase (GCT)
		h m s
Nov. 25		
SJ	e	19 40 30
	i	40 40
	eL	40 51
	F	19.8
Nov. 25		
TUC	e	21 46 42
	F	21.8
Nov. 26		
HUAN	iP	00 16 01
	e(S)	16 46
	iL	17 19
	F	00.4
SJ	eL	00 26 13
	F	00.5
TUC	iP	00 23 05
	i	23 54
	i	25 04
	F	00.5
Nov. 26, H = 01 03 58* Epicenter in the region 11°S, 69°W. Near Peru-Bolivia border. Depth about 700 km.		
BC	iP	01 13 29.5
	ipP	15 30.5
GC	iP	01 16 34.5
	ipP	18 36.5
HUAN	eP	01 05 47
	iP	05 48
	i	06 29
	eS	07 00
	eL	07 06
	iL	07 30
	F	01.6
OV	eP	01 13 31
	epP	15 33
PF	iP	01 13 27
	ipP	15 27

Date and Station		Phase (GCT)
		h m s
Nov. 26, cont.		
SJ	eP	01 09 17
	e	12 06
	i	13 14
	e(S)	15 26
	i(S)	15 27
	i	16 23
	i	18 45
	eL	24 04
	F	01.6
TUC	iP	01 12 55
	ipP	14 53
	iPP	15 16
	i	15 53
	i	16 45
	eS	19 57
	e	20 30
	F	01.4
Nov. 26, H = 04 37 30** Probable epicenter, off southern coast of Mexico.		
BOZ	eL	04 45 18
	F	05.5
GC	eP	04 44 35
SJ	i(S)	04 52 05
	eL	52 27
	F	05.1
TUC	eP	04 42 02
	e(PP)	42 31
	e	43 38
	eL	47 47
	F	05.0
Nov. 26, H = 05 13 10* Epicenter in the region 21°S, 180°. Southwest of Tonga Islands. Depth about 600 km. Mag. 7.0		
BC	iP	05 24 42
	epP	26 49
	iS	34 13
	iP'P'	51 00

Date and Station		Phase (GCT)
		h m s
Nov. 26, cont.		
BOZ	iS	05 34 55
	esS	39 21
	eSS	41 52
	F	05.9
BUT	eSKS	05 34 48
	iS	35 24
	esS	39 11
	F	05.7
CHI	eSKS	05 36 02
	e	36 53
	eS	37 33
	eSP	39 24
	esS	41 24
	e	43 39
	F	05.9
COL	eS	05 35 03
	esS	38 48
	F	05.9
GC	iP	05 25 00.5
	i	25 16
	ipP	27 08
	ePP	28 00
	e	28 14
	eSKS	34 25
	iS	34 58
	eSP	36 19
HUAN	eP	05 25 52
	ePP	30 03
	e	32 17
	iSKS	35 37
	eS	36 09
	e	39 27
	eL	53 27
	F	07.4
LOG	iP	05 25 02
	epP	27 10
	iPP	28 41
	iS	34 37
	F	05.9
OV	iP	05 24 45
	eS	34 15

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
PF	iP	05 24 45
	eS	34 25
SJ	ePP	05 32 13
	iSKS	36 43
	i	38 10
	eSP	41 10
	e	42 45
	e	43 10
	eSS	47 51
	eL	06 02 15
	F	06.7
SH	iP	05 24 30
	i	24 49
	ipP	26 37
	iPP	27 50
	eSKS	35 14
TUC	iP	05 24 46
	epP	26 52
	isP	27 12
	iPP	28 12
	eS	34 16
	eSP	34 50
	isSS	42 50
	iP'P'	50 56
	eSKPP	53 25
	eL	06 16 25
	F	06.4
Nov. 26		
TUC	eP	06 49 02
	F	06.9
Nov. 26		
TUC	eP	07 26 32
	F	07.5
Nov. 26		
TUC	e	11 02 06
	e	02 43
	F	11.1
Nov. 26		
SJ	i(P)	18 23 37
	i(S)	23 50
	eL	24 07
	F	18.5

Date and Station		Phase (GCT) h m s
Nov. 26		
TUC	e	21 08 55
	F	21.2
Nov. 27		
TUC	iP	01 20 12
	F	01.4
Nov. 27		
HUAN	eL	05 19 31
	F	05.4
Nov. 27, H = 05 30 15** Probable epicenter, Kamchatka region.		
BC	iP	05 40 42
COL	eP	05 36 27
	eS	40 42
	eL	43 38
	F	06.3
GC	eP	05 39 21
OV	eP	05 40 44
PF	eP	05 40 46
SJ	eL	06 20 10
	F	06.8
SH	eP	05 39 44
SIT	eL	05 47 45
	F	06.0
TUC	iP	05 41 17
	i	41 33
	F	05.8
Nov. 27		
SJ	e	07 53 33
	iL	53 41
	F	08.0
Nov. 27		
TUC	eP	08 59 27
	F	09.0
Nov. 27		
BC	eP	10 47 19

Date and Station		Phase (GCT) h m s
Nov. 27, cont.		
OV	e	10 47 24
PF	e	10 47 17
	eS	54 35
TUC	eP	10 46 25
	e	46 39
	e	47 29
	e	50 46
	eL	52 41
	F	11.1
Nov. 27		
SLC	e	10 56 45
	F	11.1
SH	eP	10 50 52
TUC	iP	10 52 08
	ipP	52 35
	i	52 47
	F	11.1
Nov. 27		
TUC	e	12 09 47
	F	12.2
Nov. 27, H - 11 54 03* Epicenter in the region 1½°S, 131°E. New Guinea foreshock.		
BER	eP'	12 13 47
	e	17 17
	eL	13 01 15
	F	14.2
BOZ	eL	12 47 37
	F	14.3
CHI	ePP	12 16 43
	e	19 34
	ePS	25 49
	e	33 18
	eL	56 38
	F	14.7
COL	eS	12 17 18
	e	18 14
	e	24 00
	eL	31 28
	F	13.6

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
COLU	ePP	12 17 07
	eL	56 30
	F	14.4
HUAN	eP'	12 14 02
	e(PP)	18 07
	eSKKS	23 33
	e	38 09
	F	Lost.
LOG	e	12 12 04
	ePPP	16 00
	i	16 35
	i	17 24
	eS	21 23
	e	22 34
	eSSS	33 20
	iL	39 17
	F	12.7
PHIL	ePP	12 15 52
	e	17 12
	e	23 39
	e	26 44
	e	27 25
	e	45 56
	eL	13 04 17
	F	14.7
SJ	e	12 27 42
	eL	13 07 33
	F	14.9
SH	e(PP)	12 12 49
SIT	e	12 18 25
	i	24 00
	eSS	35 25
	eL	43 00
	F	13.5
TUC	eP	12 12 51
	e	13 07
	ePP	14 22
	ePS	24 42
	eL	48 16
	F	12.3
Nov. 27		
LOG	i	12 25 14
	F	Lost.

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
TUC	iP	12 26 55
	eL	48 16
	F	12.5
Nov. 27, H = 12 23 16* Epicenter in the region 1½°S, 131°E. Off northwest coast of New Guinea.		
BC	eP	12 41 58
BER	e	12 49 19
	e	55 02
	F	Lost.
CHI	e	12 45 43
	e	49 33
COLU	e	12 46 00
	F	Lost.
HUAN	eP'	12 43 14
	ePP	46 06
	e	57 20
	eSS	13 05 40
	eL	27 12
	F	14.8
PHIL	e	12 45 25
	F	Lost.
SJ	i	12 43 17
	F	Lost.
SLC	eL	12 48 30
	F	13.7
SH	e	12 42 05
TUC	iP'	12 42 06
	iPP	43 27
	ePKS	45 42
	eL	12 17 59
	F	14.5
Nov. 27		
TUC	iP'	12 56 58
	F	13.0
Nov. 27		
TUC	e	15 42 20
	F	15.7

Date and Station		Phase (GCT)
		h m s
Nov. 27, H = 18 09 14** Probable epicenter, off coast of Ecuador.		
TUC	iP	18 16 45
	ePP	18 11
	F	18.3
Nov. 27		
BH	eP	18 11 40
	F	18 14
HUAN	eL	18 17 09
	F	18.5
SJ	eP	18 14 34
	ePP	15 17
	eL	19 10
	F	18.5
Nov. 27		
TUC	iP	19 44 29
	i	44 37
	F	19.3
Nov. 27, H = 21 57 00* Epicenter in the region 25°N, 60½°E. Off southeast coast of Iran. Destructive at Ormara, Baluchistan, and Karachi, India. Mag. 8¼		
BH	e	22 15 00
	F	00 45
BC	eP	22 12 34
	iP'	15 45
	e	26 30
BER	e	22 11 34
	e	14 46
	iPP	15 16
	i	19 54
	i(S)	22 46
	iSS	29 57
	eSSS	33 24
	i	40 49
	eL	53 54
	F	02.8

T_{SS}= 19 sec. A = 8.5 mm.
T_L= 22 sec. A = 16 mm.
T_L= 20 sec. A = 25 mm.

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
BOZ	eP	22 11 31
	ePP	15 51
	i	20 32
	iSKS	22 24
	iPS	25 37
	i	27 00
	iSS	31 23
	iL	51 40
	F	02.6
BUT	eP	22 11 31
	eP'	15 48
	iPP	16 16
	e	20 31
	iSKS	22 32
	iPS	25 29
	iSS	31 01
	iL	52 11
	F	01.9
CHI	eP	22 11 22
	e	14 40
	iPP	15 32
	iSKS	22 04
	ePS	25 00
	eSS	30 50
	eSSS	35 20
	eL	48 09
	F	03.0
COL	eP	22 09 41
	ePP	13 13
	iPP	13 22
	i	17 08
	iS	20 05
	i	20 50
	e	26 03
	iSS	26 24
	iSSS	30 19
	eL	38 38
	F	02.7
COLU	eP	22 11 40
	e	15 40
	iSKS	22 40
	eS	23 42
	i	26 15
	iSS	32 34
	ɜ(SSS)	36 09
	eL	49 50
	F	01.9

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
GC	eP	22 11 14
	iP'	14 36
	iP'	14 58
	ePP	16 20
	eSS	30 00
	eL	40 30
HONO	ePP	22 17 13
	eSKS	22 35
	iPS	27 16
	i	27 28
	iSS	33 35
	iSSS	37 04
	eL	44 44
	F	01.0
T_{PP}= 10 sec.		A= 4.2 mm.
T_L= 22 sec.		$A_{max.}$= 19.5mm.
HUAN	eP'	22 16 18
	e	17 15
	iPP	19 08
	i	20 24
	i	28 37
	e	32 31
	eSS	36 19
	eL	52 11
	F	03.2
LIN	ePP	22 16 11
	eSKS	22 18
	ePS	25 43
	eSS	31 52
	eL	42 18
	F	01.3
OV	eP'	22 15 44
PHIL	eP'	22 11 05
	iPP	15 18
	iSKS	21 57
	ePS	24 38
	i	27 45
	eSS	30 05
	eL	39 15
	F	03.0
PF	eP'	22 15 41

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
RC	e	22 11 59
	e	14 54
	e	15 40
	i	18 18
	eSKS	22 20
	ePS	25 44
	i	33 08
	eL	45 15
	F	01.9
SLC	iPP	22 16 28
	iSKS	22 42
	iPS	26 02
	eSS	31 38
	eL	45 10
	F	02.6
SJ	e(P)	22 11 47
	ePP	16 29
	iPS	26 14
	iSS	32 15
	eL	45 52
	F	04.1
SEA	e	22 12 29
	e	14 05
	e	18 42
	eSKS	21 52
	eL	46 07
	F	01.2
SH	eP	22 12 13
	iP'	15 35
	ePP	16 43
	e	25 50
	iPKKP	26 28
SIT	iP	22 10 38
	ePP	14 35
	i	16 49
	iSKS	21 28
	iPS	23 00
	iSS	28 15
	i	34 10
	iL	41 15
	F	02.6
TUC	e	22 12 31
	eP'	15 47
	iPP	17 25
	e	23 33

Date and Station		Phase (GCT)
		h m s
Nov. 27, cont.		
TUC, cont.		
	i	22 26 39
	e(SS)	35 01
	eL	44 12
	F	05.8
UK	ePP	22 16 40
	eSKS	22 57
	ePS	26 36
	eSS	32 45
	eL	51 35
	F	02.7
Nov. 28		
TUC	eP	07 02 46
	F	07.1
Nov. 28, H = 07 37 15* Epicenter in the region 2°S, 80°W. Off coast of Ecuador.		
TUC	iP	07 45 30
	F	07.8
Nov. 28		
BC	iP	08 48 24
	eS	58 41
GC	eP	08 48 32
	e	50 00
OV	iP	08 48 29
PF	eP	08 48 29
TUC	iP	08 48 32
	i	48 49
	ePP	52 13
	F	08.9
Nov. 28		
TUC	e	09 14 57
	F	09.3
Nov. 28		
GC	iP	14 40 03.8
	i	40 08.5
	i	41 00
	e	41 10
	eS	41 21

Date and Station		Phase (GCT)
		h m s
Nov. 28		
BH	i	22 23 15
	e	23 55
	F	22 28
TUC	e	22 29 32
	F	22.5
Nov. 28		
TUC	iP	22 59 33
	F	23.0
Nov. 29		
BC	iP	05 25 08.5
OV	e	05 25 06
PF	iP	05 25 07
TUC	iP	05 25 34
	i	25 56
	i	26 06
	eL	51 57
	F	06.0
Nov. 29		
SJ	e(S)	08 57 46
	eL	58 12
	F	09.3
Nov. 29, H = 12 02 54* Epicenter in the region 42°N, 38°E. Black Sea, off coast of northern Turkey.		
TUC	iP	12 16 48
	i	19 14
	F	12.4
Nov. 29		
TUC	iP	12 32 54
	eL	13 05 30
	F	13.2
Nov. 29		
TUC	e	15 42 38
	F	15.7
Nov. 29		
TUC	e	16 17 29
	F	16.3

Date and Station		Phase (GCT)
		h m s
Nov. 29		
TUC	i	18 49 09
	F	18.8
Nov. 29		
BC	iP	19 33 22
	ipP	33 55
OV	iP	19 33 25
PF	iP	19 33 24
	ipP	33 56
TUC	iP	19 33 24
	i	33 42
	ipP	33 57
	F	19.6
Nov. 30		
BH	eP	00 26 38
	iS	27 29
	F	00 36
SJ	eP	00 30 12
	i	30 21
	eS	33 37
	eL	34 49
	F	00.7
TUC	eP	00 32 44
	F	00.6
Nov. 30		
TUC	eP	01 11 46
	F	01.2
Nov. 30		
TUC	e	04 32 35
	F	04.6
Nov. 30		
PF	iP	05 14 28
TUC	eP	05 14 29
	e	14 42
	F	05.3
Nov. 30		
TUC	eP	05 38 49
	F	05.7

Date and Station		Phase (GCT)
		h m s
Nov. 30		
BH	eP	06 25 39
	eS	26 09
	F	06 28
Nov. 30		
TUC	eP	06 38 42
	e	39 04
	F	06.7
Nov. 30		
TUC	e	07 16 19
	F	07.3
Nov. 30		
TUC	iP	10 01 03
	e	03 04
	F	10.1
Nov. 30, H = 11 09 25* Epicenter in the region 5°N, 126°E. Celebes Sea.		
PF	eP	11 27 55
TUC	eP'	11 28 09
	eL	13 03 18
	F	13.6
Nov. 30		
TUC	iP	11 38 55
	e	39 30
	e	40 15
	F	11.7
Nov. 30		
TUC	iP	16 10 30
	F	16.2
Nov. 30		
TUC	iP	21 59 44
	F	22.0
Nov. 30		
TUC	iP	22 35 42
	F	22.6
Dec. 1		
SH	e	05 30 50

Date and Station		Phase (GCT)
		h m s
Dec. 1, cont.		
TUC	iP	05 32 26
	i	32 48
	F	05.6
Dec. 1, H = 05 49 18* Epicenter in the region 21°S, 176°W. Tonga Islands. Depth about 400 km.		
BC	iP	06 00 56.5
	ipP	01 10.5
	i	02 32
	eS	10 33
	e	10 51
GC	iP	06 01 16
	ipP	02 53.5
OV	eP	06 01 01
PF	iP	06 00 59.5
SH	eP	06 00 44
	ipP	02 20
	iS	10 11
	eSS	14 54
TUC	iP	06 01 01
	epP	02 39
	i	19 24
	e	27 33
	eL	31 04
	F	06.8
Dec. 1		
SJ	e	11 34 04
	iL	34 15
	F	11.7
Dec. 1		
SJ	e	17 20 39
	i(S)	20 54
	eL	21 05
	F	18.4
Dec. 1		
BH	eP	21 33 29
	iS	33 37
	F	21 36

Felt near Gatun.

Date and Station		Phase (GCT)
		h m s
Dec. 2		
TUC	eP	00 18 30
	F	00.3
Dec. 2		
BC	iP	00 38 18.5
GC	e	00 36 32
	e	36 49
OV	i	00 38 13
PF	i(P)	00 38 21
TUC	iP	00 39 01
	iPP	41 13
	F	00.7
Dec. 2		
SH	iP	02 46 12
Dec. 2		
BH	e	08 58 06
	F	09 01
Dec. 3		
TUC	iP	19 28 07
	F	19.5
Dec. 3		
HUAN	e(P)	19 45 13
	e(S)	48 40
	eL	50 00
	F	20.2
TUC	e	19 47 28
	F	19.8
Dec. 3		
TUC	iP	22 20 31
	F	22.3
Dec. 4		
SJ	e	05 13 06
	i	13 19
	i(S)	13 26
	iL	13 39
	F	05.3

Date and Station		Phase (GCT)
		h m s
Dec. 4		
SJ	e	06 08 14
	e	08 24
	i(S)	08 31
	i	08 45
	iL	08 52
	F	06.2
Dec. 4		
BC	eP	21 09 47
OV	eP	21 09 36
PF	iP	21 09 13
TUC	e	21 14 29
	F	21.3
Dec. 5		
TUC	iP	10 12 05
	F	10.2
Dec. 5, H = 22 35 36** Probable epicenter, New Hebrides Islands region. Depth about 200 km.		
BC	iP	22 48 07
	epP	49 08
SH	iP	22 47 47.5
TUC	eP	22 48 17
	iP	48 19
	ipP	49 22
	F	22.9
Dec. 6		
BH	eP	08 06 50
	eS	07 37
	F	08 13
TUC	eP	08 12 52
	F	08.2
Dec. 6		
BC	iP	09 46 04
PF	e	09 46 05

Date and Station		Phase (GCT)
		h m s
Dec. 6		
TUC	iP	15 28 02
	F	15.5
Dec. 6		
TUC	iP	21 08 34
	F	21.1
Dec. 7		
HUAN	eL	04 54 31
	F	05.4
TUC	e	04 47 46
	F	04.8
Dec. 7		
TUC	eP	05 59 03
	F	06.0
Dec. 7		
TUC	e	08 43 04
	F	08.7
Dec. 7		
TUC	eP	08 53 48
	F	08.9
Dec. 7		
TUC	iP	22 22 34
	F	22.4
Dec. 8, H = 01 04 03* Epicenter in the region $6\frac{1}{2}$°S, 151°E. New Britain region. Mag.7.1		
BH	e(P')	01 23 14
	F	01 35
BER	e	01 40 28
	eSS	45 44
	e	53 05
	e(L)	02 01 50
	F	03.1
T_L= 18 sec. A_{max} = 4.4mm. T_{L20}= 20 sec. A= 2.9mm.		
BC	eP	01 17 39
	ePP	21 38
	eSKS	28 18
	i	28 20
	e	28 30

Date and Station		Phase (GCT)
		h m s
Dec. 8, cont.		
BOZ	eSKS	01 28 34
	eSSS	39 41
	eL	50 19
	F	03.5
BUT	e(L)	01 45 24
	F	02.5
CHI	e	01 23 42
	eSKS	30 06
	e(PS)	33 25
	eSS	39 51
	eSSS	44 26
	eL	51 58
	F	03.6
COL	e(P)	01 16 30
	e	24 40
	eS	26 50
	eSKS	27 47
	e	36 02
	eL	45 36
	F	03.8
COLU	e(PP)	01 24 58
	eSKS	30 12
	e(PS)	34 46
	eL	52 40
	F	03.4
GC	eP	01 17 26.5
HONO	e(P)	01 13 57
	ePP	15 45
	ePPP	17 18
	eS	21 58
	e(ScS)	24 11
	e	25 48
	eL	28 33
	F	02.3
T_S= 7 sec. A= $5\frac{1}{2}$ mm. T_L= 23 sec. A_{max} = $8\frac{1}{2}$ mm. T_L= 20 sec. A= $8\frac{1}{2}$ mm.		
HUAN	eP'	01 23 23
	ePP	25 50
	iPKS	26 53
	e	27 06
	eSS	43 25
	eSSS	48 19
	eL	58 17
	F	03.8

Date and Station		Phase (GCT)
		h m s
Dec. 8, cont.		
LIN	eL	01 58 42
	F	02.7
OV	eP	01 17 48
	eSKS	28 24
PF	eP	01 17 46
	eSKS	28 25
RC	eS	01 30 07
	ePS	32 00
	eSS	37 47
	eSSS	41 16
	eL	50 55
	F	03.5
SLC	e(PP)	01 22 05
	e(SKS)	28 55
	ePS	30 57
	eSSS	39 53
	eL	45 21
	F	03.8
SJ	eP'	01 23 33
	iP'	23 35
	e(PP)	26 48
	ePKS	27 22
	eSKS	30 38
	e	36 53
	eSS	44 40
	eL	02 01 11
	F	03.9
SEA	eSKS	01 27 30
	e	30 08
	eL	45 02
	F	02.7
SH	eP	01 17 12.5
	eSKS	27 50
	e	28 07
	eS	28 26
	e	50 00
SIT	i	01 27 09
	eSKS	27 27
	e	33 28
	eSSS	37 30
	eL	40 08
	F	03.1

Date and Station		Phase (GCT)
		h m s
Dec. 8, cont.		
TUC	eP	01 17 56
	iP	17 57
	iPP	22 04
	e	23 42
	eSKS	28 33
	eS	29 31
	ePS	30 51
	ePKKP	34 17
	eSS	36 31
	e(SSS)	40 46
	eL	46 02
	F	04.5
UK	eS	01 28 00
	iS	28 05
	e	29 19
	eSS	34 18
	eL	41 41
	F	03.0
Dec. 8		
TUC	e	07 15 36
	F	07.6
Dec. 8, H = 21 55 53 By Pasadena, 38°09' N, 118°03' W. Near Candelaria, Nevada. Mag. 3.8		
BC	iP	21 55 55.5
	e	56 29
	eS	56 34
OV	iP	21 55 57
	eS	56 43
PF	eP	21 55 54.5
	i	56 04
	eS	56 53.5
TUC	eL	21 59 23
	F	22.0
Dec. 8		
TUC	eP	22 05 42
	F	22.1
Dec. 8		
OV	eP	22 23 03

Date and Station		Phase (GCT)
		h m s
Dec. 9		
TUC	e	02 11 37
	e	11 48
	eL	12 40
	F	Lost.
Dec. 9, H = 06 08 42* Epicenter in the region 45-3/4°N, 27°E. Romania. Depth about 100 km.		
BC	iP	06 21 44
	ipP	22 09
GC	iP	06 20 57.3
	ipP	21 20
	i	21 59
PF	iP	06 21 43.5
SH	eP	06 21 34
	epP	21 47
TUC	iP	06 21 53
	ipP	22 18
	i	22 25
	e	25 05
	eL	59 36
	F	07.1
Dec. 9, H = 20 45 47* Epicenter in the region 14°N, 92°W. Near coast of Guatemala.		
BER	eP	20 52 04
	eL	21 00 43
	F	21.8
T_L = 12 sec. $A_{max.}$ = 2.6 mm.		
BC	iP	20 51 44
	ipP	52 09
BOZ	eS	20 58 24
	eL	21 01 41
	F	21.5
CHI	e(S)	20 56 48
	eL	21 01 17
	F	21.6

Date and Station		Phase (GCT)
		h m s
Dec. 9, cont.		
COL	eS	21 04 56
	eL	21 16
	F	21.9
COLU	eP	20 50 46
	e(S)	55 04
	eL	59 06
	F	21.7
GC	eP	20 53 28
	i(PP)	55 37
	e	56 01
HUAN	e	20 52 00
	iS	57 19
	eL	59 09
	F	22.3
OV	eP	20 51 59
PF	eP	20 51 55
RC	e	20 53 12
	eS	58 19
	eL	21 00 50
	F	21.4
SLC	eS	20 57 30
	eL	59 14
	F	21.4
SJ	e(P)	20 51 20
	ePP	51 47
	e	56 18
	eL	58 47
	F	22.2
SH	eP	20 52 59
SIT	eL	21 03 03
	F	21.9
TUC	eP	20 51 13
	iP	51 14
	i	51 23
	i	51 35
	iPP	52 09
	i	52 54

Date and Station		Phase (GCT)
		h m s
Dec. 9, cont.		
TUC, cont.		
	eS	20 55 48
	iS	55 54
	eL	58 46
	F	22.3
UK	eL	21 04 22
	F	21.5
Dec. 9		
TUC	e	23 28 42
	e	29 04
	F	23.5
Dec. 10		
TUC	eP	03 20 55
	F	03.3
Dec. 10		
TUC	eP	03 55 43
	F	03.9
Dec. 10		
TUC	iP	14 58 51
	F	15.0
Dec. 12		
OV	iP	00 01 06
PF	iP	00 01 00
Dec. 12		
BC	iP	00 59 56
SH	iP	00 59 38
TUC	iP	01 00 06
	F	01.0
Dec. 12		
BC	iP	05 57 29.5
GC	eP	05 57 53
OV	eP	05 57 35
PF	iP	05 57 33.5
SH	iP	05 57 17.5
SIT	eL	06 26 08
	F	07.0

Date and Station		Phase (GCT)
		h m s
Dec. 12, cont.		
TUC	iP	05 57 35
	i	58 25
	eL	06 23 31
	F	06.7
Dec. 13		
OV	iP	04 05 34
PF	iP	04 05 31
Dec. 13		
GC	iP	12 53 30.7
SH	eP	12 52 49
	e	52 56.5
	e	53 39
TUC	eP	12 55 49
	e	56 04
	F	12.9
Dec. 13		
TUC	iP	14 37 19
	i	37 26
	eL	48 25
	F	15.0
Dec. 13		
TUC	iP	15 26 57
	F	15.4
Dec. 13		
BH	e	22 53 57
	F	22 58
BC	iP	22 59 20.5
	i	23 00 37
GC	e	23 00 19
HUAN	eP	22 56 25
	eS	23 00 38
	eL	06 20
	F	23.3
PF	iP	22 59 16.5
SJ	e	22 55 03
	eL	56 13
	F	23.2

Date and Station		Phase (GCT)
		h m s
Dec. 14		
BH	eP	09 20 47
	iS	21 10
	F	09 24
Dec. 14, H = 17 26 46* Epicenter in the region $2\frac{1}{2}$°S, $76\frac{1}{2}$°W. Southern Ecuador. Depth about 100 km.		
BH	eP	17 29 37
	F	17 40
BER	e	17 33 47
	eS	39 25
	eL	41 40
	F	18.1
BC	iP	17 35 51.5
	ipP	36 18.5
	i	36 22.5
	eS	43 11
CHI	e	17 35 19
	eS	41 19
	esS	42 11
	eL	44 35
	F	18.2
COLU	e	17 34 10
	e(S)	39 18
	e(sS)	40 12
	eL	43 30
	F	18.0
GC	iP	17 37 02
	ipP	37 33
	iS	45 21
HUAN	eP	17 29 03
	iP	29 05
	i	29 19
	i	29 37
	iS	30 42
	eL	31 18
	F	18.6
MONT	e	17 31(50)
	eL	35(50)
	F	17.7

Date and Station		Phase (GCT)
		h m s
Dec. 14, cont.		
OV	eP	17 36 24
PF	iP	17 35 49
	ipP	36 19
	eS	43 05
RC	eP	17 34 52
	ipP	35 24
	eS	42 10
	esS	43 00
	eL	52 38
	F	18.1
SJ	iP	17 31 48
	ipP	32 08
	e	32 52
	iS	35 52
	eL	36 42
	F	18.5
SH	iP	17 36 43
	ipP	37 14
	iS	44 45
TUC	iP	17 35 14
	ipP	35 43
	iPP	37 12
	epPP	37 35
	e	38 12
	e	41 29
	eS	42 03
	eL	45 40
	F	18.2
Dec. 14		
TUC	iP	18 32 18
	F	18.6
Dec. 14		
TUC	e	19 48 35
	e	49 43
	F	19.8
Dec. 15		
TUC	iP	07 24 14
	F	07.4
Dec. 15		
TUC	iP	07 28 20
	F	07.5

Date and Station		Phase (GCT)
		h m s
Dec. 15		
TUC	iP	10 05 30
	F	10.1
Dec. 15		
BC	iP	11 02 41.5
GC	eP	11 03 36
OV	e	11 02 42
PF	e	11 02 37
SJ	e	10 57 14
	eL	57 48
	F	11.1
TUC	eP	11 02 06
	F	11.0
Dec. 15		
SJ	e	11 05 10
	eL	06 28
	F	11.4
Dec. 15		
SH	e(P)	13 01 44.5
	iP	01 49.7
	i	02 17.5
Dec. 15		
TUC	eP	17 20 44
	F	17.3
Dec. 16		
TUC	iP	11 51 57
	i	52 20
	e	53 59
	F	11.9
Dec. 16		
TUC	e	13 06 24
	i	06 34
	F	13.1
Dec. 16		
TUC	eP	16 32 35
	F	16.5
Dec. 16		
BC	eP	20 07 34

Date and Station		Phase (GCT)
		h m s
Dec. 16, cont.		
TUC	eP	20 06 52
	F	20.1
Dec. 17		
TUC	iP	03 18 43
	F	03.3
Dec. 17		
TUC	e	10 13 31
	F	10.2
Dec. 17, H = 17 43 30** Probable epicenter, off coast of Ecuador.		
HUAN	e(S)	17 48 44
	eL	52 45
	F	18.1
SJ	eP	17 48 57
	e	49 50
	eS	52 57
	e(L)	54 40
	F	18.1
TUC	eP	17 51 36
	F	17.9
Dec. 18		
BER	e(L)	03 08 13
	F	03.4
BC	iP	02 17 43.3
	i	17 50
GC	iP	02 17 18.5
	i	17 23.5
OV	eP	02 17 49
PF	iP	02 17 49
SH	eP	02 17 10.2
	iP	17 12.2
	e	20 10.5
SIT	eL	02 37 04
	F	02.9

Date and Station		Phase (GCT)
		h m s
Dec. 18, cont.		
TUC	eP	02 18 06
	iP	18 07
	i	18 13
	eL	51 11
	F	03.3
Dec. 18		
TUC	e	04 44 47
	F	04.8
Dec. 18		
TUC	eP	12 20 03
	i	20 08
	i	20 12
	F	12.3
Dec. 18, H = 16 06 55** Probable epicenter, central Chile.		
TUC	eP	16 18 35
	i	18 46
	F	16.3
Dec. 18, H = 20 48 10** Probable epicenter, off coast of Colima, Mexico.		
BC	eP	20 52 25.5
PF	iP	20 52 23.5
TUC	eP	20 51 26
	i	51 56
	i	52 06
	eL	55 30
	F	21.1
Dec. 18		
BC	eP	21 32 23.1
	iP	32 25.3
	eS	32 51
	e	32 54
OV	eP	21 32 15.6
	eS	32 42.6

Date and Station		Phase (GCT)
		h m s
Dec. 18, cont.		
TUC	eP	21 33 33
	e(S)	34 25
	e	34 31
	e	34 48
	eL	35 14
	F	21.6
Dec. 19		
TUC	eP	18 32 05
	F	18.5
Dec. 20, H = 03 59 12* Epicenter in the region 8°N, 127°E. Near east coast of Mindanao, P. I.		
BH	eP'	04 19 00
	F	04 30
BER	e	04 21 19
	ePP	22 14
	eSKS	25 52
	eS	33 30
	eSS	40 17
	e	44 28
	eL	52 40
	F	06.0
BC	e	04 13 45
	e	16 52
	ePP	17 40
BOZ	eSKS	04 24 00
	ePS	27 17
	e	33 50
	eL	48 50
	F	05.9
CHI	ePP	04 19 27
	ePS	29 15
	eSS	36 09
	eL	49 31
	F	05.6
COL	eP	04 11(16)
	ePP	14(19)
	eS	21(27)
	e	22(33)
	eL	33(21)
	F	05.6

Date and Station		Phase (GCT)
		h m s
Dec. 20, cont.		
COLU	ePP	04 20 38
	e	24 42
	ePPS	32 30
	F	06.8
GC	eP	04 12 58.5
	ePP	17 01
	eSKS	23 17
HONO	eP	04 10 52
	ePP	13 28
	iS	20 22
	eSS	25 36
	eL	32 29
	F	04.7
HUAN	eP'	04 19 12
	e	22(40)
	e	31 47
	e	37 36
	e	38 19
	eSS	44 04
	eSSS	50 08
	eL	05 03 38
	F	06.4
PF	e	04 13 33
RC	eSS	04 34 05
	eL	52 09
	F	05.3
SLC	ePP	04 18 03
	eSKS	24 12
	e	24 32
	e	27 39
	eSS	32 23
	eSSS	37 15
	eL	44 07
	F	05.9
SJ	eP'	04 19 02
	e	19 52
	iPP	22 41
	e	32 45
	ePPS	35 27
	eSS	42 30
	eL	59 14
	F	06.5

Date and Station		Phase (GCT)
		h m s
Dec. 20, cont.		
SH	eP	04 12 58
	iPP	17 05
	eSKS	23 32
	ePS	26 19
	ePKKP	29 15
	iPKKP	29 26
SIT	iP	04 11 58
	iPP	15 44
	e(PPP)	17 31
	iS	22 28
	iPPS	24 07
	eSS	28 19
	eSSS	35 04
	eL	40 48
	F	05.8
TUC	eP'	04 17 45
	iPP	18 31
	eS	26 09
	ePS	27 57
	i	28 19
	eSS	34 24
	eSSS	38 21
	eL	45 37
	F	06.7
UK	ePP	04 17 07
	ePS	26 08
	eL	45 20
	F	05.7
Dec. 21		
BH	iP	14 56 48
	eS	56 52
	F	14 58
Dec. 22		
TUC	eP	00 17 16
	F	00.3
Dec. 22		
BC	eP	02 17 05
PF	e	02 17 01
TUC	e(P)	02 16 51
	F	02.5
Dec. 22		
BOZ	eL	22 11 12
	F	22.7

Date and Station		Phase (GCT)
		h m s
Dec. 22, cont.		
COLU	eL	22 11 29
	F	22.6
SIT	eL	22 07 48
	F	22.4
TUC	eP	21 55 30
	eL	22 20 37
	F	22.6

Dec. 23, H = 08 10 02*
Epicenter in the region 10°N, 62°W. Near northern coast of Venezuela. Felt at Pedernales. Depth about 100 km.

BH	eP	08 13 58
	F	08 36
BER	iP	08 14 53
	iPP	15 21
	eS	18 47
	iL	19 22
	F	09.3

T_P= 5 sec. A= 1.5 mm.
T_S= 9 sec. A= 1.6 mm.
T_{L20}= 20 sec. $A_{max.}$= 13.5mm.

BC	eP	08 19 21
	eS	26 57
	esS	27 23
BOZ	e	08 19 46
	eS	26 59
	eL	35 39
	F	09.1
CHI	eP	08 17 21
	ePP	18 41
	eS	22 41
	eSS	25 41
	eL	26 25
	F	09.1
COL	ePP	08 24 58
	eS	31 42
	e(PS)	32 34
	eL	40 46
	F	09.5

Date and Station		Phase (GCT)
		h m s
Dec. 23, cont.		
COLU	eP	08 16 00
	ePP	16 56
	eS	20 38
	eL	22 13
	F	09.2
GC	eP	08 20 05.5
	iP	20 18
	iPcP	21 12
	ePP	22 21
	eS	28 12
	esS	28 49
HUAN	eP	08 15 29
	iP	15 33
	ipP	15 59
	eS	19 53
	iS	20 00
	i	20 44
	eL	21 43
	F	10.1
LIN	e(PP)	08 19 48
	eS	24 24
	eL	27 50
	F	08.7
MONT	eL	08 24(48)
	F	08.8
OV	eP	08 19 21
PF	iP	08 19 17.5
RC	eP	08 18 44
	e	20 23
	ePP	20 46
	eS	25 27
	eL	32 48
	F	08.9
SLC	e	08 19 18
	ePP	21 20
	eS	26 28
	eSS	30 56
	eL	35 06
	F	09.3

Date and Station		Phase (GCT)
		h m s
Dec. 23, cont.		
SJ	iP	08 12 07
	i	12 28
	iS	13 15
	eL	14 05
	iL	14 36
	F	09.9
SEA	eL	08 38 00
	F	09.0
SH	eP	08 20 00
	iP	20 08
	ePPP	23 59
SIT	iP	08 21 28
	ePPP	26 06
	eS	30 45
	isS	31 24
	e	35 53
	e	39 07
	eL	43 22
	F	09.6
TUC	iP	08 18 51
	ipP	19 22
	ePcP	20 12
	ePP	20 40
	i	21 00
	ePPP	21 50
	eS	25 58
	e	29 54
	e	30 20
	eL	31 36
	F	09.5
UK	e	08 20 17
	e	24 24
	e	28 28
	eL	35 33
	F	09.2
Dec. 23		
BH	eP	13 44 43
	iS	45 14
	F	13 47
Dec. 24		
BH	eP	01 59 44
PF	eP	01 59 40

Date and Station		Phase (GCT)
		h m s
Dec. 24, cont.		
SJ	eL	02 11 17
	F	02.3
TUC	iP	01 59 00
	i	59 11
	eL	02 09 30
	F	02.3
Dec. 24		
TUC	eP	16 57 42
	F	16.9
Dec. 24, H = 18 35 08** Near west-central coast of Chile.		
TUC	e(P)	18 46 43
	F	18.8
Dec. 25		
TUC	iP	00 46 47
	F	00.8
Dec. 25, H = 01 25 55* Epicenter in the region 54°N, 174°E. Bering Sea.		
BER	ePPP	01 38 10
	e	45 07
	eL	48 32
	F	03.0
BC	iP	01 34 54
	i	35 37
BOZ	eP	01 34 24
	eS	41 10
	eScS	44 20
	eL	50 23
	F	02.6
BUT	eP	01 34 14
	eScS	44 12
	eL	48 57
	F	02.3
CHI	eP	01 36 13
	ePP	38 55
	eS	44 35
	eL	51 23
	F	02.9

Date and Station		Phase (GCT)
		h m s
Dec. 25, cont.		
COL	eP	01 30 54
	iPP	31 08
	e	31 30
	eS	35 02
	iS	35 06
	eL	01 38 00
	F	03.1
GC	iP	01 33 37
	i	34 16.5
	eS	39 44
HONO	eP	01 33 27
	eS	39 05
	e(SS)	41 26
	eL	43 00
	F	02.5
T_L= 12 sec. $A_{max.}$= 2.6 mm.		
HUAN	ePS	01 55 00
	eSS	02 00 38
	eL	19 43
	F	03.2
LIN	eP	01 35 50
	eS	43 44
	eL	55 40
	F	02.3
PF	iP	01 34 56.5
	eScS	44 48
RC	iP	01 35 06
	eS	42 26
	eL	53 36
	F	02.5
SLC	iP	01 34 44
	e	40 53
	eSS	47 01
	eL	50 25
	F	03.1
SJ	e(P)	01 39 06
	ePP	42 32
	eSKS	49 57
	eS	50 12
	eSS	56 22
	iL	02 13 32
	F	03.3

Date and Station		Phase (GCT)
		h m s
Dec. 25		
SEA	eP	01 32 13
	e	33 00
	e	34 02
	e	37 50
	eL	44 10
	F	02.3
SH	iP	01 33 54
	iPP	35 43
SIT	iP	01 31 48
	i(PP)	32 36
	iS	36 35
	eL	38 22
	F	03.1
TUC	iP	01 35 30
	i	36 54
	e	37 24
	i	39 29
	eS	43 40
	eL	49 25
	F	03.2
UK	eS	01 40 24
	eL	44 20
	F	02.5
Dec. 25		
GC	iP	02 38 36
SH	iP	02 38 54
	i	40 42
TUC	iP	02 40 29
	F	02.7
Dec. 25		
TUC	eP	04 28 11
	F	04.2
Dec. 25		
BC	iP	04 50 02
GC	i	04 56 13.5
	e	56 26
PF	iP	04 50 05
TUC	iP	04 50 26
	F	04.9

Date and Station		Phase (GCT)
		h m s
Dec. 25		
TUC	eP	15 16 21
	F	15.3
Dec. 25, H = 17 24 00* Epicenter in the region 29°S, 70°W. Central Chile. Felt. Slightly deeper than normal.		
SH	iP	17 36 36
TUC	eP	17 35 27
	e	35 34
	F	17.6
Dec. 26		
TUC	eP	06 47 25
	e	47 38
	F	06.8
Dec. 26		
TUC	eP	14 40 43
	e	40 53
	e(S)	41 19
	e	41 34
	e	41 41
	iL	41 50
	F	14.7
Dec. 27, H = 04 41 05* Epicenter in the region 6½°S, 151°E. New Britain foreshock.		
BER	ePP	05 03 06
	i	04 00
	eSKS	08 30
	eSS	22 13
	e(L)	38 03
	F	07.9
BC	eP	04 54 35
	ePP	58 30
BOZ	eSKS	05 05 32
	eS	06 37
	ePS	07 58
	eSS	13 57
	eSSS	17 24
	eL	22 53
	F	07.3

Date and Station		Phase (GCT)
		h m s
Dec. 27, cont.		
BUT	eL	05 22 32
	F	06.2
CHI	ePS	05 10 51
	eSS	17 12
	eSSS	22 05
	eL	30 59
	F	07.2
COL	eP	04 53 22
	e	56 20
	eS	05 04 06
	eSS	09 32
	eSSS	13 32
	eL	14 22
	F	06.6
COLU	e	05 03 20
	eSKS	07 11
	e	09 06
	eSS	18 41
	eL	33 42
	F	07.1
GC	eP	04 54 25
HONO	eP	04 50 58
	iS	58 55
	e	05 01 25
	eL	05 26
	F	05.9
T_P= 5 sec. A = 2.0 mm.		
T_S= 9 sec. A = 3.1 mm.		
T_L= 20 sec. $A_{max.}$ = 4.2 mm.		
HUAN	e	05 02 32
	iPKS	03 52
	e	14 37
	eSS	20 19
	eSSS	25 18
	eL	35 10
	F	07.5
LIN	eL	05 35 54
	F	06.2
PF	eP	04 55 09
	e	59 11
	eS	05 06 09

Date and Station		Phase (GCT)
		h m s
Dec. 27, cont.		
SLC	eSKS	05 05 46
	ePS	07 54
	e(SS)	12 20
	e(SSS)	17 09
	eL	22 18
	F	07.6
SJ	eP'	05 00 33
	ePKS	04 25
	e(S)	11 54
	e	17 42
	eSS	22 34
	eL	37 30
	F	07.2
SEA	eL	05 20 28
	F	06.2
SH	eP	04 54 11
	eSKS	05 04 42
	eS	05 21
SIT	iS	05 04 16
	eL	16 19
	F	06.5
TUC	eP	04 54 53
	ePP	58 59
	eSKS	05 05 48
	eS	06 40
	ePS	08 03
	ePKKP	11 29
	eSS	13 31
	eSSS	17 42
	eL	22 37
	F	07.4
UK	e(S)	05 04 54
	eL	22 12
	F	06.5
Dec. 27		
TUC	eP	14 30 11
	F	14.5
Dec. 28		
BC	i	09 01 04.7
	e	01 21.5
	e	02 21
PF	iP	09 01 08
	e	02 28

Date and Station		Phase (GCT)
		h m s
Dec. 28, cont.		
TUC	e(P)	09 01 00
	i	01 12
	i	01 28
	e(S)	01 58
	i	02 18
	iL	02 43
	F	09.1
Dec. 28		
TUC	iP	10 02 13
	e	02 41
	e(S)	04 08
	e(L)	04 50
	iL	05 33
	F	10.2
Dec. 28		
TUC	eP	12 44 10
	i	44 16
	F	12.7
Dec. 28		
BC	e	14 11 17
PF	eP	14 11 20
TUC	e	14 11 31
	F	14.2
Dec. 28, H = 17 48 49* Epicenter in the region 6½°S, 151°E. New Britain region. Mag. 7.8		
BH	e(P')	18 07 50
	e	11 26
	eL	49 00
	F	19 50
BER	e(P')	18 08 01
	ePP	10 54
	i	11 49
	ePPP	14 05
	e	21 06
	e	23 51
	eSS	29 46
	e	37 31
	eL	44 01
	F	21.1
T_L= 24 sec. $A_{max.}$= 15.6 mm.		
T_L20= 19sec. A= 16.3 mm.		

Date and Station		Phase (GCT) h m s
Dec. 28, cont.		
BC	iP	18 02 24
	ePP	06 36
	iSKS	13 01
	e	13 25
BOZ	eP	18 02 25
	ePP	06 33
	iSKS	13 17
	e	14 23
	ePS	15 42
	e	20 05
	eSSS	24 55
	eL	29 13
	F	22.5
BUT	eSKS	18 13 12
	eSS	20 16
	eSSS	24 20
	eL	30 20
	F	20.6
CHI	ePP	18 08 42
	eSKS	14 38
	eS	16 43
	ePS	18 30
	eSS	24 58
	eL	36 58
	F	21.0
COL	eP	18 01 19
	eS	11 21
	ePS	12 49
	eSS	17 13
	e	20 35
	eL	23 44
	F	21.2
COLU	ePP	18 09 36
	eSKS	15 08
	ePS	19 44
	eSS	26 14
	eSSS	31 40
	eL	42 00
	F	21.2
GC	eP	18 02 09.5
	iPP	06 23
	eSKS	12 45
	eS	13 40
	ePS	14 44
	eP'P'	27 33
	e	28 00

Date and Station		Phase (GCT) h m s
Dec. 28, cont.		
HONO	eP	17 58 40
	ePP	18 00 56
	eS	06 37
	eL	12 00
	F	20.1
T_P= 4.3 sec. A = 4.1 mm.		
T_S= 7.2 sec. A = 9.2 mm.		
T_L= 23 sec. $A_{max.}$ = 67 mm.		
T_{L20}= 20 sec. A = 42 mm.		
HUAN	eP'	18 08 06
	ePP	10 25
	ePKS	11 28
	eSKS	15 48
	e	20 18
	e	22 33
	iSS	28 00
	eSSS	31 57
	eL	38 45
	F	22.5
LIN	eSS	18 23 59
	eSSS	28 00
	eL	34 47
	F	20.2
MONT	e	18 11 56
	eSS	28 18
	eL	50 12
	F	20.5
OV	e	18 02 00
PF	iP	18 02 26.5
	ePP	06 30.5
	eS	13 07.5
SLC	eP	18 02 37
	ePP	06 36
	eSKS	13 28
	eS	14 20
	ePS	15 39
	eSS	21 15
	eSSS	24 29
	eL	29 29
	F	21.1
SJ	eP'	18 08 18
	ePP	12 04
	eSKS	15 22
	eSKKS	18 31

Date and Station		Phase (GCT) h m s
Dec. 28, cont.		
SJ, cont.		
	e	18 21 51
	e	24 18
	eSS	29 31
	eSSS	35 31
	eL	48 07
	F	21.3
SEA	e(P)	18 02 03
	e	09 16
	e(S)	13 01
	e	15 47
	e	16 31
	eSSS	22 55
	eL	27 23
	F	20.6
SH	eP	18 01 53
	iP	01 57
	iPP	05 43
	iSKS	12 28
	iPKKP	20 28
	iP'P'	27 29
	e	29 30
	iP'P'P'	50 39
SIT	iP	18 01 32
	i	05 07
	eS	11 48
	i	12 50
	eL	21 38
	F	21.1
TUC	eP	18 02 39
	iPP	06 39
	ePPP	08 58
	e	12 52
	e(SKS)	13 25
	eS	14 30
	iPS	15 50
	ePKKP	19 04
	eSS	21 08
	e	21 28
	eL	31 47
	F	22.1
UK	e	18 06 30
	eSKS	12 41
	e	14 10
	eSS	18 40
	iL	25 42
	F	20.8

Date and Station		Phase (GCT)
		h m s
Dec. 29, H = 09 50 39* 6½°S, 151°E. New Britain aftershock.		
BC	eP	10 04 13.5
	ePP	08 07
COL	e(L)	10 31 27
	F	10.7
HUAN	e	10 13 21
	eL	57 23
	F	11.3
PF	eP	10 04 16.5
	ePP	08 14
SH	eP	10 03 47
SIT	eL	10 30 36
	F	11.0
TUC	eP	10 04 29
	ePP	08 31
	ePKKP	21 09
	F	10.4
Dec. 29		
BC	iP	12 40 26.3
	iPP	44 21
	eSKS	51 05
	eS	51 22
COL	e(L)	13 19 29
	F	13.5
GC	iP	12 40 14
HUAN	e	12 49 25
	eL	13 30 25
	F	14.2
PF	iP	12 40 30
	iPP	44 25
SH	iP	12 40 00
	i	43 40
	iPP	43 45
TUC	eP	12 40 42
	ePP	44 42
	ePKKP	57 17
	F	13.0

Date and Station		Phase (GCT)
		h m s
Dec. 29, cont.		
UK	eL	13 10 23
	F	13.5
Dec. 29, H = 12 26 52* 6½°S, 151°E. New Britain aftershock.		
SH	iP	13 31 16.5
TUC	eP	13 31 47
Dec. 29		
BC	iP	14 58 11.7
	i	58 29.5
PF	iP	14 58 14
	i	58 32.5
SH	iP	14 58 04
	i	58 21.5
TUC	iP	14 58 14
	ipP	58 32
	i	58 55
	F	15.1
Dec. 29		
TUC	iP	16 47 26
	F	16.8
Dec. 29		
TUC	eP	18 00 09
	F	18.0
Dec. 29		
TUC	iP	22 31 15
	F	22.5
Dec. 30, H = 00 48 40* Epicenter in the region 6½°S, 151°E. New Britain aftershock.		
BER	ePP	01 10 46
	i	11 40
	e	21 45
	eSS	28 58
	e	31 31
	eL	45 36
	F	03.0

Date and Station		Phase (GCT)
		h m s
Dec. 30, cont.		
BC	eP	01 02 07
	iP	02 13
	ePP	06 02
	e	08 08
	i	10 01
BOZ	e	01 25 04
	eL	35 22
	F	02.2
CHI	eL	01 41 45
	F	02.6
COL	eS	01 11 29
	e	15 23
	e(L)	26 43
	F	02.6
COLU	eL	01 39 48
	F	02.6
GC	eP	01 01 56
	i	02 37
HONO	eP	00 58 21
	eS	01 06 30
	eL	15 00
	F	01.8
HUAN	e	01 11 16
	e	22 14
	eSSS	28 05
		32 47
	eL	43 10
	F	02.3
PF	eP	01 02 11
	iP	02 17
	ePP	06 12
SLC	eL	01 30 13
	F	02.5
SJ	eP'	01 08 07
	iPKS	11 53
	eSKS	15 01
	e	20 21
	i	25 43
	e	42 49
	eL	53 11
	F	03.2

Date and Station		Phase (GCT)
		h m s
Dec. 30, cont.		
SEA	eL	01 29 50
	F	02.0
SH	eP	01 01 43
	iP	01 47
	iPP	05 40
	eSKS	12 22
	eS	13 07
SIT	i	01 04 03
	iS	11 55
	eL	24 32
	F	02.2
TUC	eP	01 02 29
	i	02 42
	iPP	06 30
	e	09 18
	ePS	15 44
	ePKKP	19 02
	e	21 02
	eL	30 40
	e	34 49
	F	03.4
UK	eL	01 30 09
	F	02.1
Dec. 30		
TUC	eP	04 03 13
	F	04.1
Dec. 30		
BC	iP	10 41 24.5
PF	iP	10 41 26
TUC	iP	10 41 42
	F	10.7
Dec. 30		
SLC	eL	18 12 24
	F	18.7
TUC	eP	18 32 54
	F	18.6
Dec. 31		
TUC	eP	01 52 17
	F	01.9

Date and Station		Phase (GCT)
		h m s
Dec. 31		
TUC	eP	07 35 13
	F	07.6
Dec. 31		
HUAN	eL	09 12 28
	F	09.6
TUC	e	09 06 28
	F	09.1
Dec. 31, H = 17 26 00* Epicenter in the region 6½°S, 151°E. New Britain aftershock.		
BER	eL	18 34 20
	F	19.0
BC	iP	17 39 35
	i	40 07.5
	e	43 31
	eS	50 09
CHI	eL	18 21 07
	F	18.8
HONO	eL	17 52 32
	F	18.2
HUAN	e	17 48 44
	e	18 06 46
	eL	30 30
	F	19.6
PF	eP	17 39 40
	i	39 43
	ePP	43 50
SJ	eP'	17 45 03
	ePP	48 39
	e(SKS)	53 07
	e	18 08 34
	eL	32 13
	F	19.7
SH	iP	17 39 06.5
	ePP	42 31
	e	43 10

Date and Station		Phase (GCT)
		h m s
Dec. 31, cont.		
SIT	e	17 49 12
	eL	18 01 43
	F	18.6
TUC	e	17 39 49
	e	43 56
	eL	18 10 18
	F	19.2
UK	eL	18 07 47
	F	18.5

Local and Minor Quakes

day	hour
BOZ	
Nov.	
27	14.6
BUT	
Oct.	
15	13.3
Nov.	
28	04.7
	08.8
COL	
Oct.	
	12.6
Dec.	
2	00.5
	13.5
3	23.8
6	18.0
29	21.2
HONO	
Oct.	
22	04.1
Dec.	
13	02.0
17	07.0
HUAN	
Oct.	
2	04.7
8	22.8
9	04.8
17	22.2
18	15.5
20	14.6
	14.9
24	05.0
	18.3
25	11.9
31	10.5
Nov.	
6	02.6
28	02.7
Dec.	
1	07.2
2	02.0
7	15.7

day	hour
HUAN, cont.	
Dec, cont.	
9	09.1
24	04.2
25	09.4
28	09.8
	10.1
31	14.4
MONT	
Oct.	
10	16.2
14	02.4 Felt
15	22.5 Felt
16	02.5
24	00.3 Felt
Nov.	
3	08.1
4	04.0
Dec.	
14	17.6
24	16.8 Felt
	17.5
25	17.5
RC	
Nov.	
20	10.3
SJ	
Oct.	
6	05.6
7	04.3
13	03.7
15	10.3
17	06.6
20	02.2
26	23.9
27	16.3
31	11.2
Nov.	
5	21.0
9	10.6
10	09.5
25	17.4

day	hour
SJ, cont.	
Nov, cont.	
28	20.5
29	07.7
Dec.	
1	13.0
	13.4
	13.5
4	07.5
10	04.0
25	02.3
27	22.5
30	09.1
SIT	
Oct.	
15	12.2
Nov.	
18	02.0
TUC	
Oct.	
1	13.7
	18.2
	20.8
	22.5
2	17.3
3	04.5
	07.9
5	20.8
	22.3
6	20.9
7	03.6
	10.5
8	21.4
9	16.5
	20.9
	21.5
10	16.7
	18.2
11	08.1
	08.9
	20.3
	21.9
12	20.2
	21.3
	22.9
15	16.4
	17.1
16	13.7

day	hour
TUC, cont.	
Oct, cont.	
16	18.6
	19.3
	21.7
	22.0
	22.7
17	01.6
	03.0
	09.8
	10.9
	18.4
19	13.5
	17.1
20	21.5
	22.3
22	16.9
23	18.4
24	04.1
	16.9
	22.4
26	16.1
	21.1
	22.0
27	02.5
	09.2
	10.0
	22.5
28	18.1
	18.3
29	20.5
	22.8
30	11.5
	21.8
	22.1
31	20.7
	22.6
Nov.	
1	18.1
	19.0
	19.1
	19.4
	20.8
	21.2
	21.2
	21.5
	21.8
3	05.1
	08.1
4	16.8
	18.5

day	hour
TUC, cont.	
Nov, cont.	
7	00.1
	23.1
8	21.9
9	17.7
	18.9
10	00.0
	00.1
	12.1
	20.0
12	09.6
	10.4
	11.9
15	21.6
16	07.8
17	14.9
	16.2
18	08.2
21	01.0
	01.2
	01.4
	02.6
	12.0
	13.2
	15.3
	18.2
23	14.0
	21.9
	23.9
25	19.5
26	07.0
27	17.4
28	06.2
	22.5
29	18.1
30	00.2
	00.3
Dec.	
1	00.1
	04.3
	19.0
2	00.3
	00.7
3	00.7
	02.8
	04.7
4	00.0
	22.0
5	00.5
	08.5

day	hour
TUC, cont.	
Dec, cont.	
5	08.6
	21.2
6	00.4
	18.1
7	11.9
	18.3
	21.2
8	00.0
	08.6
	18.1
	19.2
	19.7
9	02.2
	02.3
11	10.8
	21.5
12	21.2
13	06.4
	17.9
	23.0
17	15.3
	16.3
18	10.6
19	16.0
20	04.5
	16.0
21	09.6
	02.0
22	14.7
	20.1
23	16.7
24	04.2
26	22.4
29	21.3
30	13.0
	16.4
	16.8
	18.0
31	23.3