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SEISMOLOGICAL BULLETIN

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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 4
Local and minor earthquakes 17

U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

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

**Balboa Heights, C. Z. (BH)
The Panama Canal
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
*Montezuma, Chile (MONT)
Smithsonian Institution
**New Kensington, Pa. (NK)
Private station, Fred Keller, Sr.
*Overton, Nev. (OV)
Bureau of Reclamation and
National Park Service
**Philadelphia, Pa. (PHIL)
The Franklin Institute
*Pierce Ferry, Ariz. (PF)
Bureau of Reclamation and
National Park Service
**Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*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 Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the Coast and Geodetic Survey.

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

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicates 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 seismograms are on file in the Coast and Geodetic Survey, except those from Balboa Heights, Burlington, Logan, and New Kensington which may be obtained on loan by addressing the Seismograph Station Director: - Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone; University of Vermont, Burlington, Vermont; Utah State Agricultural College, Logan, Utah; 508 Pershing Drive, New Kensington, Penna.

Date 1951	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Feb.	h m s	° '	° '	
1	16 50 04*	17 S.	173-1/2 W.	Tonga Islands. h about 60 km.
2	11 25 23**			Andreanof Islands, Aleutian Islands. h about 60 km.
2	16 44 32**			Sakhalin Island, north of Japan.
2	19 26 30*	3-1/2 S.	140 E.	Northern New Guinea.
2	21 02 52**			Near east coast of Honshu, Japan. Felt. Depth slightly greater than normal.
4	15 37 18*	19 S.	176 W.	Tonga Islands region. h about 250 km.
4	19 06 35*	18 S.	169 E.	New Hebrides Islands.
6	06 06 04**			Off east coast of Alaska Peninsula.
6	16 33 12	40 14 N.	126 49 W.	By Berkeley. Off Cape Mendocino, California. Mag. 4.8.
6	17 06 35	40 14 N.	126 49 W.	By Berkeley. Cape Mendocino aftershock. Mag. 4.4.
7	03 38 42*	31 N.	140 E.	South of Honshu, Japan. Felt on Tori-Shima. h about 100 km.
8	10 38 05*	23 S.	176 W.	Tonga Islands region. h about 60 km.
9	01 20 04*	22-1/2 S.	178-1/2 W.	South of Fiji Islands. h about 600 km.
10	03 27 55*	40 S.	177 E.	Near coast of North Island, New Zealand. Felt.
10	08 38 09*	43-1/2 N.	146 E.	Near east coast of Hokkaido, Japan. Felt. h about 100 km.
10	11 16 30**			About 150 miles east of Guam. Depth slightly greater than normal.
10	14 45 00*	20-1/2 S.	179 W.	Fiji Islands. h about 450 km.
10	15 12 14**			Off south coast of Dominican Republic.
10	15 16 57**			Near north coast of Java. h about 600 km.
10	21 52 13**			Near north coast of New Guinea.
12	03 31 30*	51-1/2 N.	178 E.	Rat Islands, Aleutian Islands.
12	17 22 02*	66 N.	136 E.	Near Verkhoyanski Mountains, Siberia. Mag. 6-1/2.
13	06 16 41*	24-1/2 N.	109 W.	Gulf of California.
13	08 16 10**			Galapagos Islands.
13	08 50 20*	14-1/2 N.	91 W.	Near coast of Guatemala. h about 100 km.
13	11 55 48*	15 S.	175 W.	Samoa Islands region. h about 250 km. Mag. 6.9.
13	16 28 00*	14 N.	91 W.	Off coast of Guatemala.
13	17 16 00	32 58 N.	115 32 W.	By Pasadena. Near Brawley, California. Felt in Imperial Valley. Mag. 4.2.
13	17 46 34	32 58 N.	115 32 W.	By Pasadena. Brawley aftershock. Mag. 4.1.
13	22 12 56*	56 N.	156 W.	Near south coast of Alaska Peninsula. Mag. 7.1.
14	00 51 48*	44 N.	127 W.	Off coast of Oregon.
15	05 20 15**			Near coast of Colima, Mexico.
15	10 47 59	33 29 N.	116 30 W.	By Pasadena. Near Santa Rosa Mountain. Felt at Riverside, Carrizo Gorge, and Hayfield Station. Mag. 4.8.
15	10 49 57	33 29 N.	116 30 W.	By Pasadena. Santa Rosa Mountain aftershock. Mag. 4.8.
15	12 20 50	33 29 N.	116 30 W.	By Pasadena. Santa Rosa Mountain aftershock. Mag. 3.2.

Date 1951	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Feb.	h m s	° '	° '	
16	19 07 53*	17-1/2 S.	167 E.	New Hebrides Islands.
17	21 06 47*	7 S.	146 E.	Eastern New Guinea. h about 175 km. Mag. 7.3.
18	07 09 45*	1 N.	82-1/2 W.	Off coast of Ecuador.
19	03 17 40**			Fiji Islands region. h about 250 km.
19	12 24 34**			Andreanof Islands, Aleutian Islands.
19	17 43 55*	17-1/2 S.	179 W.	Fiji Islands region. h about 600 km.
19	22 11 51*	25 S.	116-1/2 W.	Northwest of Easter Island. Mag. 6-1/2.
19	22 36 07	40 04 N.	120 42 W.	By Berkeley. Near Genesee, California. Felt at Spring Garden, Butte Valley, Caribou, and Quincy. Mag. 4.2.
20	15 24 15*	22 S.	114 W.	Northwest of Easter Island. Mag. about 6.
20	15 41 20**			Kurile Islands.
21	07 19 29*	35-1/2 S.	179 W.	Kermadec Islands region. h about 100 km.
21	17 09 56*	43 N.	110 W.	Southwestern Wyoming. Felt at Rock Spring.
21	17 52 49**			Dominican Republic foreshock. h about 100 km.
21	20 40 39*	18-1/2 N.	68-1/2 W.	Near northeast coast of Dominican Republic. h about 100 km.
22	01 45 41**			North central New Guinea.
22	17 56 42*	24 S.	66-1/2 W.	Chile-Argentina border. h about 100 km. Felt in Chile.
23	00 01 11**			Oregon coast foreshock.
23	02 06 26**			Do.
23	02 56 42*	44-1/2 N.	129-1/2 W.	About 300 miles off coast of Oregon.
23	04 16 30**			Oregon coast aftershock.
25	12 51 09**			Off east coast of Honshu, Japan.

Date and Station		Phase (GCT)
		h m s
Feb. 1		
COL	e(P)	02 41 32
Feb. 1		
COL	eP	03 09 12
Feb. 1		
COL	e(P)	03 36 29
Feb. 1		
TUC	e(P)	05 33 15
Feb. 1		
BC	e(P)	05 40 04
COL	iP	05 36 08
HH	iP	05 39 04
SH	iP	05 39 20
Feb. 1		
COL	e(P)	07 12 33
Feb. 1		
HH	e(P)	12 34 50
Feb. 1		
COL	e(P)	13 56 49
Feb. 1, H = 16 50 04* 17°S, 173-1/2°W. Tonga Islands. h about 60 km.		
Feb. 1		
BC	eP	17 01 53
COL	iP	17 02 32
	ipP	02 54
HH	iP	17 02 31
	i(pF)	02 40
OV	iP	17 01 56.3
PF	iP	17 01 56.8
SH	eP	17 01 35
	ipP	01 55
TUC	iP	17 01 59
	epP	02 17
	e	02 40
Feb. 1		
COL	eP	22 03 11
Feb. 1		
COL	e(P)	23 43 42
Feb. 2		
COL	e(P)	04 04 12
Feb. 2		
BH	iP	07 01 15
	iS	01 24

Date and Station		Phase (GCT)
		h m s
Feb. 2		
COL	eP	11 26 18
	eL	33 24
HH	iP	11 29 12
OV	i(P)	11 30 05.4
PF	e(P)	11 30 10
SH	i(P)	11 29 12
TUC	e(P)	11 30 45
Feb. 2, H = 11 25 23** Andreanof Islands, Aleutian Islands. h about 60 km.		
BC	eP	11 33 25
COL	eP	11 29 36
HH	iP	11 32 31
OV	iP	11 33 23.4
PF	iP	11 33 28.1
SH	iP	11 32 22
TUC	iP	11 34 03
	ipP	34 15
Feb. 2		
TUC	e(P)	12 24 43
Feb. 2		
BC	iP	13 49 14
COL	eP	13 44 29
	eL	50 12
HH	eP	13 47 26
OV	iP	13 49 14
PF	iP	13 49 21
Feb. 2		
COL	e(P)	16 08 25
Feb. 2, H = 16 44 32** Sakhalin Island, north of Japan.		
Feb. 2		
BC	iP	16 56 00
COL	iP	16 52 13
	i	52 19
	e(S)	59 22
	eL	17 06 48
HH	iP	16 55 09
PF	iP	16 56 02.1

Date and Station		Phase (GCT)
		h m s
SH	eP	16 55 08
	iP	55 11
TUC	eP	16 56 28
	i	56 38
Feb. 2		
BH	iP	17 59 00
	iS	59 26
Feb. 2		
BC	e(P)	18 37 42
COL	iP	18 33 54
HH	iP	18 36 50
OV	e(P)	18 37 40
PF	i(P)	18 37 43.3
Feb. 2, H = 19 26 30* 3-1/2°S, 140°E. Northern New Guinea.		
COL	eP	19 39 11
	iP	39 12
	i	39 25
HH	eP	19 40 34
OV	iPP	19 45 06.0
PF	e(P)	19 43 45
SJ	iP'	19 46 25
	i	46 37
SH	eP	19 40 10
Feb. 2, H = 21 02 52** Near east coast of Honshu, Japan. Depth slightly greater than normal. Felt.		
BC	e(P)	21 14 57
COL	iP	21 11 40
	ipP	11 53
HH	iP	21 14 16
	ipP	14 29
LOG	e(P)	21 14 48
OV	eP	21 14 55
	iP	14 56.5
PF	iP	21 15 59.0
SH	iP	21 14 12
TUC	eP	21 15 23
	epP	15 35
Feb. 2		
COL	eP	22 35 08

Date and Station		Phase (GCT)
		h m s
Feb. 3		
BC	e(P)	00 12 54
COL	iP	00 11 11
HH	iP	00 12 06
	i	12 29
PF	e(P)	00 12 57
Feb. 3		
OV	e(P)	00 16 12
PF	e(P)	00 17 01
Feb. 3		
OV	i(P)	00 29 40.6
Feb. 3		
BC	e(P)	02 25 48
COL	eP	02 26 22
	e	27 08
HH	e(P)	02 26 24
OV	eP	02 25 52
PF	iP	02 25 51.5
SH	e(P)	02 26 25
Feb. 3		
BC	eP	04 26 29
PF	i(P)	04 26 26.1
Feb. 3		
PF	i(P)	06 37 14.9
Feb. 3		
COL	e(P)	07 32 24
	e	33 19
Feb. 3		
TUC	e(P)	09 15 29
Feb. 3		
COL	e(P)	13 02 00
OV	e(P)	13 01 41
Feb. 3		
OV	iP	14 04 11.8
	i	04 37.7
PF	iP	14 04 11.6
	i	04 37.1
TUC	iP	14 04 12
	e	04 38
Feb. 3		
COL	eP	14 16 24
Feb. 3		
COL	eP	15 24 54
	iP	24 55

Date and Station		Phase (GCT)
		h m s
COL	i	15 25 01
	i(S)	26 05
	i	26 10
	iL	26 45
HH	iP	15 28 31
OV	e(P)	15 29 48
Feb. 3 COL	iP	21 15 56
Feb. 3 COL	eP	22 48 52
	iP	48 55
	i	49 17
PF	e(P)	22 50 23
Feb. 4 COL	iP	06 23 07
	e	23 21
Feb. 4 COL	e(P)	07 09 09
Feb. 4 COL	iP	08 08 35
OV	iP	08 12 49.3
PF	iP	08 12 52.3
Feb. 4 COL	e(P)	09 13 24
Feb. 4 COL	e(P)	09 26 52
Feb. 4 OV	e(P)	13 51 22
Feb. 4, H = 15 37 18* 19°S, 176°W. Tonga Islands region. h about 250 km.		
BC	iP	15 49 05
COL	iP	15 49 38
	epP	50 37
HH	iP	15 49 41
LOG	eP	15 49 25
OV	iP	15 49 08.0
PF	iP	15 49 08.0
	ipP	50 02.8
TUC	iP	15 49 10
Feb. 4 COL	iP	16 09 04
Feb. 4 COL	iP	18 03 43
COL	e	18 04 20
Feb. 4 COL	e(P)	18 52 06
Feb. 4, H = 19 06 35* 18°S, 169°E. New Hebrides Islands.		
BC	eP	19 19 34
COL	eP	19 19 30
OV	iP	19 19 37.5
PF	iP	19 19 37.8
SH	iP	19 19 18
TUC	iP	19 19 43
Feb. 4 PF	e(P)	20 13 58
Feb. 4 PF	e(P)	22 08 17
TUC	e(P)	22 07 44
Feb. 5 BH	eP	02 37 15
	iS	37 45
Feb. 5 COL	eP	02 52 19
	i	52 25
	i	52 32
Feb. 5 COL	eP	03 03 26
Feb. 5 COL	e(P)	04 03 33
Feb. 5 COL	eP	05 51 21
	i	51 32
HH	e(P)	05 51 26
OV	e(P)	05 50 44
	i	51 09.0
PF	e(P)	05 50 42
TUC	e(P)	05 50 45
Feb. 5 COL	e(P)	07 12 52
Feb. 5 COL	eP	09 52 32
Feb. 5 HH	e(P)	09 58 00
OV	e(P)	09 56 38
PF	e(P)	09 56 43
TUC	e(P)	09 56 19
Feb. 5 COL	eP	10 57 28
Feb. 5 COL	e(P)	11 05 06
Feb. 5 COL	e(P)	12 31 27
Feb. 5 OV	e(P)	13 50 49
PF	e(P)	13 50 48
TUC	e(P)	13 50 47
Feb. 5 COL	e(P)	14 43 17
Feb. 5 COL	e(P)	14 49 13
Feb. 5 COL	e(P)	17 02 16
Feb. 5 COL	e(P)	18 41 49
OV	iP	18 45 00.2
PF	iP	18 45 02.1
TUC	eP	18 45 24
Feb. 5 COL	iP	19 40 27
Feb. 5 COL	eP	21 58 16
HH	e(P)	22 01 51
PF	e(P)	22 01 43
SH	e(P)	22 01 13
Feb. 6 OV	i(P)	01 23 06.1
	i	24 16.8
Feb. 6 COL	eP	01 43 58
	iP	44 00
HH	iP	01 46 07
SH	e(P)	01 46 06
Feb. 6 COL	iP	02 13 06
Feb. 6 COL	e(P)	02 42 53
Feb. 6 HH	iP	04 48 47
Feb. 6 HH	iP	05 05 56
LOG	e(P)	05 05 53
Feb. 6, H = 06 06 04** Off east coast of Alaska Peninsula.		
BC	eP	06 12 56
	iP	12 58
COL	eP	06 08 07
	iP	08 09
	eS	09 35
	eL	10 16
HH	iP	06 11 40
OV	iP	06 12 52.8
PF	iP	06 12 57.0
SH	iP	06 11 48
TUC	eP	06 13 37
Feb. 6 HH	e(P)	08 11 36
Feb. 6 HH	eP	09 24 35
Feb. 6 COL	e(P)	11 59 30
Feb. 6 COL	eP	12 22 45
	e	22 57
HH	e(P)	12 21 56
Feb. 6 BC	iP	13 47 26
LOG	e(P)	13 48 45
	e	50 17
OV	iP	13 47 26
PF	iP	13 47 34
Feb. 6 COL	eP	13 58 13
Feb. 6 COL	e(P)	15 28 40
Feb. 6 COL	iP	16 31 28
	e(S)	32 28

Date and Station	Phase	(GCT)
		h m s
Feb. 6, H = 16 33 12 By BERK, 40°14'N, 126°49'W. Off Cape Mendocino, California. Mag. 4.8		
BC	eP	16 35 46
HH	eP	16 36 05
OV	iP	16 35 46.9
PF	iP	16 35 53.4
SH	iP	16 34 04
	iS	34 44
TUC	eP	16 36 49
Feb. 6, H = 17 06 35 By BERK, 40°14'N, 126°49'W. Cape Mendocino aftershock. Mag. 4.4		
BC	eP	17 09 10
HH	eP	17 09 27
PF	iP	17 09 16.2
SH	iP	17 07 27
	e	07 58
	eS	08 07
TUC	eP	17 10 12
Feb. 6		
COL	e(P)	23 08 54
PF	e(P)	23 09 40
Feb. 7		
COL	e(P)	00 20 24
OV	e(P)	00 20 52
PF	e(P)	00 20 22
Feb. 7		
COL	eP	00 37 35
	i	37 52
HH	e(P)	00 38 37
OV	e(P)	00 38 57
PF	e(P)	00 38 30
	i	39 01.0
Feb. 7		
BC	eP	01 35 06
OV	e(P)	01 35 08
PF	e(P)	01 33 12
	e	34 43

Date and Station	Phase	(GCT)
		h m s
TUC	eP	01 35 02
	e	35 17
Feb. 7		
HH	iP	02 33 49
Feb. 7, H = 03 38 42* 31°N, 140°E. South of Honshu, Japan. Felt on Tori-Shima. h about 100 km.		
BC	iP	03 51 03
	ePP	54 12
COL	eP	03 48 05
	iP	48 07
	ipP	48 33
	iS	55 32
	esS	56 15
	eSS	59 32
	eL	04 01 45
HH	iP	03 50 29
LOG	eP	03 50 57
	i	52 26
OV	iP	03 51 02.7
	iPP	54 14.1
PF	iP	03 51 05.1
	iPP	54 16.9
	eS	04 01 18
SH	iP	03 50 21
TUC	eP	03 51 27
	esP	52 07
	e(PP)	55 14
Feb. 7		
HH	i(P)	04 00 13
Feb. 7		
COL	eP	06 35 47
Feb. 7		
BC	iP	10 30 55
COL	iP	10 27 03
HH	iP	10 30 03
OV	iP	10 30 53.7
PF	iP	10 30 57.1
TUC	eP	10 31 26
Feb. 7		
HH	e(P)	12 58 46
OV	e(P)	12 59 28
PF	e(P)	12 59 29

Date and Station	Phase	(GCT)
		h m s
Feb. 7		
PF	e(P)	15 57 30
Feb. 7		
COL	e(P)	16 22 42
Feb. 7		
COL	e(P)	17 44 49
Feb. 7		
HH	eP	18 26 47
	e(S)	28 03
PF	e(P)	18 28 29
Feb. 7		
OV	e(P)	19 30 06
	i	30 15.8
	i(S)	31 03.5
PF	iP	19 30 13.0
	i	31 17.5
	i	31 19.3
Feb. 7		
PF	e(P)	21 45 38
Feb. 7		
COL	eP	22 41 13
	iP	41 14
	e(S)	42 00
	eL	42 14
HH	iP	22 45 24
OV	i(P)	22 46 46.8
PF	iP	22 46 51.1
Feb. 7		
BH	iP	22 54 38
	iS	54 56
Feb. 7		
HH	eP	23 03 08
Feb. 8		
BC	e(P)	00 31 11
HH	iP	00 31 01
OV	iP	00 31 11.9
PF	iP	00 31 12.3
TUC	e(P)	00 31 18
Feb. 8		
COL	e(P)	05 12 49
Feb. 8		
COL	iP	09 33 51
	e	34 20
Feb. 8		
COL	e(P)	10 33 12

Date and Station	Phase	(GCT)
		h m s
Feb. 8, H = 10 [illegible] 08* 23°S, 176°W. Tonga Islands region. h about 60 km.		
BC	eP	10 50 25
COL	eP	10 51 03
	iP	51 04
	ipP	51 25
	i	52 20
	ePP	55 04
	eSKS	11 01 24
	e(S)	02 07
	eL	22 01
HH	eP	10 51 00
LOG	eP	10 50 51
OV	iP	10 50 22.8
PF	iP	10 50 28.2
SH	iP	10 50 16
TUC	iP	10 50 23
	e(PP)	53 44
	e(S)	11 00 52
	eL	17 40
Feb. 8		
BC	eP	11 16 23
COL	eP	11 17 01
	e	17 17
HH	e(P)	11 17 01
OV	iP	11 16 26.8
PF	iP	11 16 26.5
TUC	eP	11 16 26
Feb. 8		
BC	eP	12 40 39
COL	iP	12 41 17
	e	41 29
HH	e(P)	12 41 01
OV	iP	12 40 41.9
PF	iP	12 40 41.6
TUC	e(P)	12 40 39
Feb. 8		
OV	e(P)	12 59 33
Feb. 8		
COL	e(P)	14 01 03
Feb. 8		
OV	iP	15 15 06.8
	i	15 31.8

Date and Station	Phase	Phase (GCT) h m s
Feb. 8		
HH	iP	18 20 48
OV	iP	18 20 01.6
	i	20 15.8
PF	iP	18 19 58.7
	i	20 12.3
SJ	e	18 16 57
	e	17 02
SH	e(P)	18 20 51
Feb. 8		
COL	eP	21 26 07
	iP	26 08
HH	e(P)	21 28 07
Feb. 9		
HH	iP	00 57 52
Feb. 9, H = 01 20 04* 22-1/2°S, 178-1/2°W. South of Fiji Islands. h about 600 km.		
BC	i(P)	01 31 41
COL	iP	01 32 07
	i	32 40
	epP	34 10
HH	i(P)	01 32 13
LOG	e(P)	01 32 04
	e	32 23
OV	i(P)	01 31 43.7
	i	31 55.7
PF	i(P)	01 31 43.8
SH	iP	01 31 30
	i	31 49
TUC	iP	01 36 46
	epP	38 49
Feb. 9		
PF	i(P)	02 00 31.3
Feb. 9		
HH	iP	03 31 18
OV	i(P)	03 32 45.1
PF	i(P)	03 31 51.5
Feb. 9		
OV	e(P)	03 57 17
PF	e(P)	03 57 16
Feb. 9		
BC	iP	04 46 36
HH	eP	04 47 24
	e(pP)	47 44
LOG	e(P)	04 46 54
	e	47 38
OV	iP	04 46 37.9
	i(pP)	46 58.2
PF	iP	04 46 34.8
	i(pP)	46 55.3
SJ	e(P)	04 42 34
	e(pP)	42 54
	iPP	43 26
SH	iP	04 47 15
TUC	eP	04 46 08
	e	46 49
Feb. 9		
HH	iP	06 05 23
Feb. 9		
OV	e(P)	07 17 25
PF	e(P)	07 17 30
Feb. 9		
OV	e(P)	07 30 24
Feb. 9		
OV	i(P)	07 40 21.8
PF	i(P)	07 40 21.4
Feb. 9		
HH	e(P)	20 04 25
	e(S)	04 46
Feb. 9		
COL	e(P)	20 22 51
Feb. 9		
COL	eP	20 33 41
Feb. 9		
BH	iP	20 53 40
	iS	53 48
Feb. 9		
COL	eP	21 48 02
HH	iP	21 47 15
Feb. 9		
BC	iP	22 22 23
COL	eP	22 22 18
OV	e(P)	22 22 25
PF	iP	22 22 25.6
TUC	eP	22 22 29
Feb. 9		
HH	eP	22 32 50
	eL	33 06
Feb. 10		
COL	iP	00 12 21
HH	iP	00 15 16
OV	i(P)	00 16 08.3
PF	iP	00 16 11.2
Feb. 10		
HH	e(P)	00 34 46
Feb. 10		
BC	e(P)	03 41 38
	e	43 30
TUC	eP	03 39 46
	i	40 01
	e(S)	40 16
	eL	40 56
Feb. 10, H = 03 27 55* 40°S, 177°E. Near coast of North Island, New Zealand. Felt.		
BC	eP	03 41 38
	e	43 31
COL	eP'	03 46 26
LOG	eP'	03 46 00
OV	i(P)	03 42 41.6
	e	44 31
PF	i(P)	03 42 41.1
	ePKKP	58 30
TUC	ePP	03 45 57
	ePS	54 33
	e(SS)	58 32
	eL	04 13 07
WASH	e(P')	03 47 05
	ePP	48 53
Feb. 10		
COL	eP	07 10 47
Feb. 10		
COL	eP	07 45 00
Feb. 10, H = 08 38 09* 43-1/2°N, 146°E. Near east coast of Hokkaido, Japan. Felt h about 100 km.		
BC	iP	08 49 29.3
	ipP	50 00.9
COL	iP	08 45 54
	ipP	46 21
COL	iS	08 52 02
	eSS	55 21
	eL	09 00 25
HH	iP	08 48 43
OV	iP	08 49 36.7
PF	iP	08 49 32.0
SH	iP	08 48 41
TUC	iP	08 49 57
	epP	50 24
Feb. 10		
COL	eP	09 02 02
Feb. 10		
COL	eP	09 34 43
Feb. 10		
BC	iP	10 55 31.4
	eS	11 03 44
COL	iP	11 00 03
	i	00 23
	i	00 32
HH	iP	10 56 54
OV	iP	10 55 33.1
	e	11 04 03
PF	iP	10 55 27.9
	i	55 29.8
TUC	iP	10 54 42
	ipP	55 03
	ePP	56 07
	e(S)	59 43
	eL	11 01 05
Feb. 10		
PF	i(P)	11 09 21.9
Feb. 10, H = 11 16 30** About 150 miles east of Guam. Depth slightly greater than normal.		
BC	iP	11 29 40.9
	eS	40 28
COL	eP	11 27 38
	iP	27 40
	i	28 11
	eL	45 42
HH	iP	11 29 25
	ePP	32 45
OV	iP	11 29 41.5
PF	iP	11 29 43.8
	ipP	30 01.5
SH	iP	11 29 06

Date and Station		Phase (GCT)
		h m s
TUC	eP	11 30 02
	epP	30 19
Feb. 10		
COL	e(P)	12 39 20
Feb. 10		
OV	i(P)	14 50 40.8
	i	51 13.5
SJ	iP	14 46 50
Feb. 10, H = 14 45 00* 20-1/2°S, 179°W. Fiji Islands. h about 450 km.		
BC	iP	14 56 39.1
COL	iP	14 57 08
	i	57 47
HH	iP	14 57 12
OV	iP	14 56 42.4
PF	eP	14 56 42
	i	56 46.9
SH	iP	14 56 28
TUC	eP	14 56 44
Feb. 10, H = 15 12 14** Off south coast of Dominican Republic.		
BC	eP	15 20 11
COL	eP	15 23 17
HH	eP	15 20 39
	iP	20 45
OV	i(P)	15 20 21.5
PF	iP	15 20 11.9
SJ	iP	15 13 13
	i	13 21
	i(S)	13 57
	iL	14 11
WASH	eP	15 17 03
Feb. 10, H = 15 16 57** Near north coast of Java. h about 600 km.		
BC	iP'	15 35 06.9
	ipP'	37 35.4
COL	eP	15 29 52
	ePP	34 06
	ePKKP	46 01
HH	iP'	15 34 53
OV	iP'	15 35 05.6
	i	35 06.6
	ipP'	37 35.6
	e(SKKP)	48 14
PF	eP'	15 35 07
	ipP'	37 37.4
SJ	iP'	15 36 02
TUC	eP'	15 35 10
	e	35 16
	epP'	37 52
	iPKS	38 52
WASH	iP'	15 35 38
	e(pP')	37 45
Feb. 10		
OV	i(P)	17 05 47.6
	i(S)	06 26
PF	iP	17 05 46.8
	iS	06 40.3
Feb. 10, H = 21 52 13** Near north coast of New Guinea.		
COL	eP	22 04 50
	iP	04 54
	eS	15 21
	eSS	20 59
	eL	31 25
HH	eP	22 06 18
	ePKKP	22 14
OV	ePP	22 10 52
PF	i(P)	22 06 29.7
	ePP	10 30
SJ	eP'	22 12 10
	i	12 20
SIT	eS	22 15 40
	eL	36 32
TUC	eP'	22 10 20
	ePP	11 24
	eL	41 20
Feb. 11		
COL	e(P)	01 15 43
	e	16 09
Feb. 11		
COL	eP	06 16 39
HH	e(P)	06 18 41
Feb. 11		
OV	e(P)	06 41 51
PF	e(P)	06 40 42
Feb. 11		
COL	iP	07 21 22
Feb. 11		h m s
TUC	e(P)	07 51 58
Feb. 11		
COL	iP	09 09 41
Feb. 11		
TUC	i(P)	10 51 54
Feb. 11		
OV	i(P)	11 52 26.5
Feb. 11		
HH	e(P)	15 45 15
Feb. 11		
COL	e(P)	19 45 56
Feb. 11		
COL	e(P)	20 05 34
Feb. 11		
COL	e(P)	22 03 54
	i	04 07
TUC	e(P)	22 04 25
Feb. 11		
COL	eP	22 12 29
Feb. 12		
OV	iP	02 15 02.1
	i(S)	15 43.4
Feb. 12		
BC	i(P)	02 33 55.4
Feb. 12, H = 03 31 30* 51-1/2°N, 178°E. Rat Islands, Aleutian Islands.		
BC	iP	03 40 19.8
COL	eP	03 36 28
	iP	36 29
	e	37 06
	eS	40 38
	eL	42 11
HH	eP	03 39 26
LOG	iP	03 40 07
	epP	40 26
	e	41 16
OV	iP	03 40 19.2
PF	iP	03 40 23.7
SJ	iP	03 44 37
	ipP	44 52
SH	eP	03 39 20
TUC	iP	03 40 57
	ipP	41 10
	isP	41 20
	eL	54 06
Feb. 12		h m s
BC	e(P)	06 12 24
Feb. 12		
OV	i(P)	13 49 23.7
Feb. 12		
COL	iP	15 19 56
Feb. 12		
COL	eP	17 10 27
	iP	10 28
Feb. 12, H = 17 22 02* 66°N, 136°E. Near Verkhoyanski Mountains, Siberia. Mag. 6-1/2.		
BC	eP	17 32 44.5
	iP	32 45.7
	eS	41 28.7
	eP'P'	18 01 30
BOZ	eP	17 32 00
	e(PP)	34 38
	ePPP	35 33
	eS	39 48
	eSS	44 12
	eL	46 04
BUT	eP	17 31 50
	e(PP)	34 22
	ePPP	35 24
	eS	39 44
	eSS	43 34
	eL	47 40
CHI	e(P)	17 33 06
	eS	41 53
	eSS	46 27
	eL	52 13
COL	iP	17 28 12
	i	29 03
	i	31 25
	iS	33 13
	i	33 50
	eL	34 40
	e(P'P')	18 00 10
COLU	eP	17 33 55
	iPP	36 48
	iS	43 33
	eSS	48 27
	e(SSS)	52 19
	eL	55 11
HH	iP	17 31 30
	e(S)	39 20
	eScS	41 11
	e(P'P')	18 01 15
LIN	eP	17 32 54
	eS	41 31
	e(SS)	45 33
LOG	eP	17 32 17
	i	33 20

B 4297-4

Date and Station		Phase (GCT)
		h m s
LOG	ePP	17 34 31
	eS	40 35
	eSS	44 59
	eL	53 23
OV	iP	17 32 43.4
	eS	41 29
	eP'P'	18 01 20
PHIL	e(P)	17 33 25
	eS	42 45
	eSS	47 24
	eL	50 51
PF	iP	17 32 46.6
	eScS	42 45.6
	eP'P'	18 00 50
RC	eP	17 32 24
	ePP	34 46
	eS	40 45
	e(SS)	45 17
	eL	47 42
SLC	iP	17 32 23
	e(PP)	35 16
	e(PPP)	36 46
	iS	40 47
	e	47 52
SJ	eP	17 35 26
	ePP	39 12
	iSKS	46 00
SH	iP	17 31 58
SIT	e(P)	17 29 40
	e(PP)	31 16
	e(S)	35 50
	i(S)	35 52
	iL	38 40
TUC	eP	17 33 15
	ePP	35 56
	ePPP	37 32
	eS	42 22
	e(SS)	47 45
	eSSS	50 11
	eL	54 38
	eP'P'	18 01 15
UK	eS	17 40 18
	eL	47 00
Feb. 12		
COL	eP	18 13 48
HH	iP	18 17 05
Feb. 12		
COL	e(P)	18 18 40
	e	18 46
HH	iP	18 21 58
Feb. 12		
HH	e(P)	18 44 32

Date and Station		Phase (GCT)
		h m s
Feb. 12		
BC	e(P)	18 52 50
COL	iP	18 48 18
	i	48 23
	i	48 53
HH	iP	18 51 35
	i	51 41
	i	52 40
OV	iP	18 52 48.5
PF	iP	18 52 51.0
Feb. 12		
OV	e(P)	19 57 26
PF	iP	19 57 26.0
Feb. 12		
HH	eP	21 21 28
OV	iP	21 18 47.8
	e(S)	19 49
Feb. 12		
COL	iP	21 34 48
HH	iP	21 38 06
	i	39 10
OV	e(P)	21 39 19
Feb. 12		
BC	eP	22 12 54
HH	e(P)	22 14 17
OV	iP	22 11 41.0
	i(S)	12 41.8
Feb. 12		
COL	eP	22 20 40
PF	i(P)	22 22 43.9
Feb. 12		
COL	e(P)	23 06 15
HH	e(P)	23 08 00
PF	e(P)	23 08 06
Feb. 13		
COL	e(P')	01 04 08
	eSKS	10 50
	e	16 48
	eSS	19 33
	eL	30 37
HH	eP'	01 05 18
LOG	e(PP)	01 08 54
OV	e(P')	01 05 35
	e	08 07
	e	08 58

Date and Station		Phase (GCT)
		h m s
PF	e(P')	01 05 44
TUC	e(P')	01 05 32
	e	08 31
Feb. 13		
BC	e(P)	02 45 05
Feb. 13		
BC	eP	03 37 50
COL	eP	03 34 53
HH	eP	03 37 16
OV	eP	03 37 50
PF	iP	03 37 52.5
Feb. 13		
TUC	e(P)	05 55 52
Feb. 13, H = 06 16 41* 24-1/2°N, 109°W. Gulf of California.		
BC	eP	06 19 44
	eL	23 58
COL	eP	06 25 13
	eL	42 27
HH	eP	06 21 55
LOG	e(P)	06 20 45
	eL	26 13
OV	iP	06 19 49.4
	eL	23 54
PF	iP	06 19 41.6
	iL	23 33.6
RC	e(P)	06 21 18
	e(S)	25 14
	eL	27 46
TUC	eP	06 18 39
	iP	18 40
	e	19 07
	e(S)	20 21
	eL	20 47
Feb. 13		
COL	e(P)	07 59 03
Feb. 13, H = 08 16 10** Galapagos Islands.		
BC	eP	08 23 56
HH	eP	08 25 14
OV	iP	08 24 03.9
PF	iP	08 23 55.7
TUC	eP	08 23 16

Date and Station		Phase (GCT)
		h m s
Feb. 13, H = 08 50 20* 14-1/2°N, 91°W. Near coast of Guatemala. h about 100 km.		
BC	iP	08 56 28.7
	ipP	56 44.6
	iPcP	59 27.8
	eScS	09 07 00
COL	eP	09 00 42
	iP	00 44
	i(pP)	01 19
COLU	i(P)	08 55 10
	ipP	55 30
	iS	59 05
	esS	59 38
	eL	09 01 14
HH	iP	08 57 42
	e(S)	09 04 09
LOG	eP	08 56 49
	e(pP)	57 25
OV	iP	08 56 30.1
	e(ScS)	09 07 11
PF	iP	08 56 24.9
RC	e(P)	08 57 57
	eS	09 01 44
	eL	03 15
TUC	iP	08 55 44
	epP	56 05
	eS	09 00 15
	eL	03 45
Feb. 13		
TUC	eP	09 02 52
Feb. 13		
PF	e(P)	11 03 16
Feb. 13		
OV	e(P)	12 03 32
PF	e(P)	12 01 43
Feb. 13, H = 11 55 48* 15°S, 175°W. Samoa Islands region. h about 250 km. Mag. 6.9		
BC	iP	12 07 15.0
	ipP	08 16.6
	iS	16 42.3
	i	17 19.3
	ePKKP	26 41
	eP'P'	34 20
BOZ	eP	12 07 54
	epP	08 53
	ePP	11 14
	eS	17 52
	eSP	19 02

Date and Station		Phase (GCT)
		h m s
BOZ	eSS	12 23 32
	e(SSS)	26 42
	eL	30 16
BUT	eP	12 07 48
	epP	08 48
	e(PP)	11 24
	eS	17 44
	eSP	18 46
	eSS	23 25
	eL	30 12
CHI	ePP	12 13 05
	iSKS	19 14
	eS	20 16
	eSP	21 20
	e(SS)	26 01
	eL	43 52
COL	iP	12 07 47
	i	08 13
	ipP	08 46
	ePP	11 04
	iS	17 39
	i	17 49
	iSP	18 35
	eSS	23 15
	e(PKKP)	25 30
	eSSS	26 42
	eL	29 30
	eP'P'	34 05
COLU	eSKS	12 19 34
	eL	48 22
HONO	eP	12 03 04
	e(eP)	04 20
	iPP	04 39
	eS	08 51
	eL	12 04
HH	iP	12 07 50
	iPP	11 09
	epPP	12 00
	eS	17 49
	eP'P'	34 08
LIN	eP	12 08 35
	ePP	12 15
	iSKS	18 42
	eS	19 13
	eSP	20 25
	eSS	25 45
LOG	iP	12 07 41
	i	08 01
	ipP	08 39
	i	09 11
	ePP	10 55
	e(ePP)	12 25
	eS	17 29
	iS	17 31
	eaS	18 41
	eSS	22 55
	ePKKP	26 01
	eL	29 03
	eP'P'	34 05

Date and Station		Phase (GCT)
		h m s
OV	iP	12 07 17.7
	i(S)	16 49.8
	ePKKP	26 33
	eP'P'	34 29
PF	iP	12 07 18.4
	iS	16 49
	iPKKP	26 41.9
	eP'P'	34 30
RC	eP	12 08 16
	epP	09 14
	iS	18 22
	iaS	19 44
	eSS	24 30
	eL	30 37
SLC	iP	12 07 39
	iS	17 26
	eSS	22 50
	eL	28 09
SH	iP	12 07 01
SIT	iP	12 07 28
	ipP	08 29
	ePP	10 56
	iS	17 06
	iaS	18 27
	eSS	22 24
	eL	28 42
TUC	iP	12 07 22
	ipP	08 18
	ePP	10 37
	eS	16 37
	iaS	17 35
	eSS	21 11
	eL	27 17
	eP'P'	34 32
UK	eP	12 06 59
	ePP	09 45
	iS	16 02
	eSP	16 43
	eL	25 46
WASH	iPP	12 14 03
Feb. 13		
RC	iP	12 11 19
	i	12 30
OV	eP	12 11 14.3
	i	12 25.1
PF	eP	12 10 59
	iS	12 06.4
Feb. 13		
BH	iP	12 48 35
	iS	49 03
Feb. 13		
COL	eP	15 33 29
	iP	33 31
	i	33 37

Date and Station		Phase (GCT)
		h m s
Feb. 13, H = 16 28 00* 14°N, 91°W. Off coast of Guatemala.		
RC	e(P)	16 34 22
COL	iP	16 38 35
	e	39 12
	eL	17 04 21
HH	eP	16 35 32
OV	e(P)	16 34 23
TUC	eP	16 33 37
	ePP	34 25
	e(S)	38 10
	eL	41 40
Feb. 13, H = 17 16 00 By PAS, 32°58'N, 115°32'W. Near Brawley, California. Felt in Imperial Valley. Mag. 4.2.		
RC	iP	17 16 58.7
	i	17 01.7
	iS	17 40.0
	iL	17 48.5
OV	iP	17 17 00.7
	i	17 12.7
	eL	18 02
PF	iP	17 16 58.2
	iS	17 49
TUC	iP	17 17 08
	i	17 20
	iS	17 56
	eL	18 19
	iL	18 35
Feb. 13, H = 17 46 34 By PAS, 32°58'N, 115°32'W. Brawley, California aftershock. Mag. 4.1.		
RC	iP	17 47 33.0
	i	47 35.8
	iS	48 13.3
	iL	48 21.0
OV	eP	17 47 13
	e	47 45
PF	iP	17 47 30.7
	i	47 43.5
	iS	48 23.2
Feb. 13		
HH	eP	20 43 16
Feb. 13, H = 22 12 56* 56°N, 156°W. Near South coast of Alaska Peninsula. Mag. 7.1		

Date and Station		Phase (GCT)
		h m s
BH	e(P)	22 24 56
	e(S)	34 50
RC	iP	22 19 36
	e(S)	25 18
BOZ	eP	22 19 09
	iPP	20 09
	eS	24 01
	iS	24 05
	eL	25 40
BUT	eP	22 19 00
	ePP	19 50
	iS	23 52
	iL	25 25
CHI	eP	22 21 18
	e	22 11
	iS	27 52
	iL	31 11
COL	eP	22 15 20
	iP	15 21
	iL	17 47
COLU	iP	22 22 28
	iPcP	23 29
	ePP	24 36
	iS	30 00
	iScS	32 13
	iSS	34 03
	eL	34 44
HONO	eP	22 19 47
	iP	19 50
	i	20 45
	ePP	21 03
	i	21 50
	iS	25 14
	i	26 26
	iL	27 24
HH	iP	22 18 37
	e(S)	23 13
	eL	27 00
LIN	eP	22 20 43
	ePP	22 30
	eS	26 50
	eL	30 05
LOG	iP	22 19 25
	iPcP	21 54
	eS	24 34
	iS	24 42
	iL	26 30
NK	iP	22 21 59
	ePP	23 59
	iS	29 13
	iScS	31 47
	eSS	32 55
	eL	34 12
OV	iP	22 19 44.3
	eScS	30 17

Date and Station	Phase	Phase (GCT) h m s
PF	iP	22 19 47.3
	i(S)	25 25.6
	e	31 17
RC	eP	22 19 56
	iPP	21 30
	i	22 00
	ePcP	22 18
	iS	25 28
	eL	28 14
SLC	iP	22 19 29
	iPP	20 32
	iS	24 47
	i	25 48
	iL	26 51
SJ	eP	22 24 38
	iP	24 39
	e	26 12
	ePP	27 42
	eL	58 11
SH	iP	22 18 37
	i(S)	24 06
	iL	25 35
SIT	eP	22 15 42
	iP	15 45
	eS	17 52
	iS	17 58
	iL	18 08
TUC	eP	22 20 26
	iP	20 28
	i	20 58
	iPP	21 15
	e(PcP)	22 38
	eS	26 12
	iL	29 18
UK	eP	22 18 45
	ePP	19 46
	eS	23 18
	iL	25 45
WASH	eP	22 22 16
	iP	22 18
	e(S)	29 49
	iL	38 55
Feb. 14		
COL	eP	00 51 42
HH	iP	00 50 55
Feb. 14, H = 00 51 48* 44°N, 127°W. Off coast of Oregon.		
BC	eP	00 54 43
COL	eP	00 57 08
HH	iP	00 54 15
LOG	e(P)	00 54 33
OV	eP	00 54 43
PF	iP	00 54 48.8
RC	eP	00 55 56
	eL	01 03 08
SH	eP	00 53 01
	i(S)	53 45
TUC	eP	00 55 47
Feb. 14		
BH	iP	01 54 45
	iS	55 20
Feb. 14		
HH	e(P)	04 59 27
OV	e(P)	04 58 24
TUC	e(P)	04 57 57
Feb. 14		
COL	e(P)	08 33 58
Feb. 14		
COL	e(P)	10 04 07
	e	07 20
HH	iP	10 02 49
	i(S)	06 00
OV	iP	10 04 31.1
PF	i(P)	10 02 41.7
	e	04 39
Feb. 14		
COL	e(P)	10 08 56
Feb. 14		
BC	e(P)	16 20 06
Feb. 14		
COL	eP	18 39 38
Feb. 14		
HH	eP	20 24 30
Feb. 14		
HH	eP	21 31 18
OV	e(P)	21 31 23
PF	e(P)	21 31 35
Feb. 15		
COL	iP	02 09 42
	i(S)	11 22
	eL	12 27
HH	iP	02 13 05
PF	i(P)	02 14 20.6
Feb. 15		
WASH	e(P)	02 43 10
Feb. 15		
OV	e(P)	03 33 39
PF	e(P)	03 33 34
Feb. 15		
PF	e(P)	04 45 47
Feb. 15, H = 05 20 15** Near coast of Colima, Mexico.		
BC	eP	05 24 46
	iP	24 50
COL	eP	05 29 47
	ePP	30 50
	eL	51 14
HH	iP	05 26 33
LIN	eS	05 29 23
	eL	32 36
LOG	eP	05 25 33
	eS	29 35
	eL	32 14
OV	iP	05 24 51.8
	iL	31 33.0
PF	iP	05 24 46.2
SLC	eP	05 25 24
	eL	33 54
SJ	i(P)	05 27 32
TUC	iP	05 23 49
	i	24 02
	e	24 28
	eL	28 16
Feb. 15		
OV	e(P)	07 03 21
PF	e(P)	07 03 15
Feb. 15		
BC	i(P)	07 24 17.8
COL	eP	07 21 13
	iP	21 14
HH	iP	07 23 40
LOG	e(P)	07 24 08
OV	iP	07 24 17.1
PF	i(P)	07 24 19.6
SH	e(P)	07 23 39
TUC	eP	07 24 41
WASH	e	07 26 58
Feb. 15		
COL	iP	08 35 04
HH	e(P)	08 37 07
Feb. 15		
COL	e(P)	09 32 40
HH	eP	09 34 12
Feb. 15		
COL	eP	10 47 17
Feb. 15, H = 10 47 59 By PAS, 33°29'N, 116° 30'W. Near Santa Rosa Mountain. Felt at Riverside, Carrizo Gorge and Hayfield Station. Mag. 4.8		
BC	iP	10 48 43.3
	i	48 51.9
	i(S)	49 28.0
HH	e(P)	10 51 38
LOG	e(P)	10 50 50
OV	iP	10 48 52.2
	i	49 02.9
PF	iP	10 48 50.2
	i	49 01.9
	i(S)	49 43.7
SH	e(P)	10 51 (54)
	i	52 27
TUC	eP	10 49 10
	iP	49 16.5
	i	49 30
	i	49 34.7
	eS	50 08
	iS	50 09.5
	iL	50 33
Feb. 15, H = 10 49 57 By PAS, 33°29'N, 116°30'W. Santa Rosa Mountain aftershock. Mag. 4.8		
BC	i(P)	10 50 50.7
HH	e(P)	10 53 37
LOG	e(P)	10 52 47
Feb. 15, H = 12 20 50 By PAS, 33°29'N, 116°30'W. Santa Rosa Mountain aftershock. Mag. 3.2		
OV	iP	12 21 54.0
	i(S)	22 41.7

Date and Station		Phase (GCT)
		h m s
Feb. 15		
COL	eP	13 01 39
OV	e(P)	13 01 55
PF	i(P)	13 01 58
Feb. 15		
COL	e(P)	16 00 27
Feb. 15		
BC	e(P)	16 39 06
OV	e(P)	16 38 44
Feb. 15		
HH	e(P)	18 08 59
Feb. 15		
BC	eP	20 17 34
HH	eP	20 17 33
OV	iP	20 17 33.2
PF	eP	20 17 29
Feb. 15		
PF	e(P)	22 15 42
Feb. 16		
COL	e(P)	02 03 27
Feb. 16		
BC	e(P)	05 17 06
HH	eP	05 16 43
OV	eP	05 17 19
PF	e(P)	05 17 25
RC	eP	05 18 24
TUC	e(P)	05 18 22
Feb. 16		
BC	eP	09 52 22
COL	iP	09 48 06
HH	e(P)	09 51 21
OV	iP	09 52 22.6
PF	eP	09 52 26
TUC	e(P)	09 52 58
Feb. 16		
BC	e(P)	10 08 48
COL	iP	10 05 37
HH	iP	10 08 08

Date and Station		Phase (GCT)
		h m s
Feb. 16		
COL	i(P)	12 05 13
	i	05 21
Feb. 16		
PF	i(P)	17 51 50.8
Feb. 16, H = 19 07 53* 17-1/2°S, 167°E. New Hebrides Islands.		
BC	eP	19 20 50
COL	eP	19 20 50
	iP	20 51
OV	iP	19 21 01.9
PF	iP	19 21 03.0
SH	e(P)	19 20 42
TUC	iP	19 21 09
Feb. 16		
PF	i(P)	20 09 28.6
Feb. 16		
COL	e(P)	21 09 27
Feb. 16		
COL	eP	21 13 34
Feb. 16		
PF	i(P)	22 56 30.2
Feb. 16		
COL	e(P)	23 57 56
Feb. 17		
COL	iP	02 30 19
	i(S)	31 11
OV	e(P)	02 36 11
TUC	e(P)	02 36 34
Feb. 17		
COL	eP	04 04 25
Feb. 17		
BC	e(P)	05 06 07
COL	eP	05 01 30
	iP	01 31
	e	02 16
	i(S)	03 14
PF	i(P)	05 06 10.4
TUC	e(P)	05 06 48
Feb. 17		
PF	e(P)	06 26 38
Feb. 17		
BC	e(P)	11 06 14

Date and Station		Phase (GCT)
		h m s
COL	eP	11 01 54
OV	i(P)	11 06 14.7
PF	i(P)	11 06 18.2
TUC	iP	11 06 49
Feb. 17		
TUC	i(P)	11 48 19
Feb. 17		
COL	eP	11 57 08
Feb. 17		
TUC	e	17 45 46
	e	46 34
Feb. 17, H = 21 06 47* 7°S, 146°E. Eastern New Guinea. h about 175 km. Mag. 7.3		
BH	iP'	21 26 11
	ePP	28 45
	ePKS	29 40
BC	iP	21 20 43.4
	ePP	24 49
	i(SKS)	31 09.3
	eP'P'	44 57
BOZ	e(P)	21 20 54
	iPP	25 12
	iSKKS	31 18
	e(S)	32 29
	ePS	34 09
	e(SS)	38 34
	eL	49 36
BUT	e(P)	21 20 56
	ePP	25 12
	iSKKS	31 11
	eSS	39 35
	eSSS	44 40
	eL	50 13
CHI	e(P')	21 25 43
	iPP	27 15
	ePPP	29 49
	iSKS	32 23
	e(SKKS)	33 41
	eSKSP	36 39
	iPS	37 00
	iPPS	38 32
	e(SS)	43 31
	eSSS	48 57
	eL	57 50
COL	iP	21 19 31
	i	19 59
	ipP	20 22
	ePP	22 51
	ipPP	23 54
	iPPP	24 53
	iS	29 35
	i	29 51
	esS	31 11

Date and Station		Phase (GCT)
		h m s
COL	e(SS)	21 35 08
	ePKKP	37 28
	e(SSS)	40 28
	eP'P'	45 19
	e(P'P'P')	22 03 14
COLU	iP'	21 25 58
	iPP	28 03
	iPKS	29 21
	eSKS	32 44
	e(SKKS)	34 45
	e(PS)	38 18
	iSS	45 20
	e(SSS)	49 05
	eL	22 00 18
HONO	i(P)	21 17 10
	i	17 29
	ipP	17 50
	iaP	18 17
	ePP	19 27
	eS	25 22
	iS	25 23
	esS	26 32
	i	30 31
	eL	32 19
T_P = 0.7 sec. A = 4.5mm. T_S = 5 sec. $A_{max.}$ = 5.0mm.		
HH	iP	21 20 44
	eP'	24 26
	iPP	24 54
	eSKS	31 04
	ePKKP	36 46
	iPKKP	37 11
	eP'P'	45 07
LIN	e(P')	21 25 58
	ePP	26 30
	eSKS	32 02
	e(SKKS)	33 17
	e	35 08
	ePS	36 02
	eSS	42 24
	eL	55 32
LOG	iP	21 20 53
	iPP	25 06
	eSKS	31 06
	iSKS	31 15
	iPS	34 07
	eSS	39 14
	eP'P'	45 10
	eL	50 45
NK	iPP	21 27 52
	iPKS	29 13
	e(PPP)	30 23
	eSKS	32 40
	e(SSS)	34 10
	eL	22 10 35
OV	iP	21 20 45.3
	eP	21 16
	i	23 54.0
	eSKS	31 08
	ePPS	34 54
	e(P'P')	47 04

Date and Station		Phase (GCT)
		h m s
PF	iP	21 20 46
	i(pP)	21 37.3
	i	23 51.1
	iPP	24 52.8
	iSKS	31 12.9
	eP'P'	44 52
RC	i(P)	21 21 22
	epP	22 10
	eP'	25 04
	iPP	25 57
	eSKS	31 38
	i(SKKS)	32 40
	eS	33 19
	iPS	35 09
	iPPS	36 23
	eSS	41 06
	eSSS	45 44
	eL	53 06
SLC	eP	21 20 52
	ePP	24 57
	iSKS	31 16
	eS	32 32
	ePS	34 04
	e(PPS)	36 19
	eL	50 10
SJ	iP'	21 26 29
	ipP'	27 21
	iPP	29 52
	i(SKKS)	36 31
SH	iP	21 20 17
	iPP	24 09
	eSKS	30 35
	eS	31 22
SIT	iP	21 19 49
	iPP	23 22
	iS	29 58
	isS	30 23
	iPS	31 17
	i(SS)	37 05
	eL	44 32
TUC	iP	21 21 00
	ipP	21 43
	iPP	25 13
	eSKS	31 14
	eSKKS	31 46
	i(S)	32 12
	iPS	34 20
	ePPS	35 19
	i(PKKP)	36 00
	e(SS)	38 52
	eP'P'	44 42
	i	47 25
	eL	49 44
UK	eP	21 20 14
	iPP	24 07
	eSKS	30 32
	iSKS	30 35
	e(S)	31 40
	ePS	32 36
	eSS	37 44
	eL	46 49

Date and Station		Phase (GCT)
		h m s
WASH	iP'	21 26 00
	ipP'	26 45
	iPP	28 08
	iPKS	29 04
	ePS	38 17
Feb. 17		
OV	e(P)	22 04 00
PF	e(P)	22 03 31
	e	03 56
Feb. 18		
COL	e(P)	00 48 05
Feb. 18		
COL	eP	02 44 34
HH	e(P)	02 45 44
Feb. 18, H = 07 09 45* 1°N, 82-1/2°W. Off coast of Ecuador.		
HH	iP	07 11 47
	iS	13 15
BC	eP	07 18 11
COL	eP	07 21 50
HH	iP	07 19 15
OV	e(P)	07 18 17
PF	iP	07 18 07.9
SJ	iP	07 14 55
TUC	iP	07 17 31
	e	17 58
Feb. 18		
COL	eP	11 00 14
TUC	iP	11 04 52
	e	05 03
Feb. 18		
COL	eP	18 21 01
Feb. 18		
COL	e(P)	19 55 45
Feb. 18		
COL	e(P)	21 25 55
HH	iP	21 28 08
Feb. 18		
COL	e(P)	21 40 52
Feb. 18		
COL	eP	23 11 32.
HH	iP	23 10 45

Date and Station		Phase (GCT)
		h m s
Feb. 19, H = 03 17 40** Fiji Islands region. h about 250 km.		
BC	eP	03 29 14
COL	eP	03 29 42
	epP	30 53
	iS	39 30
HH	eP	03 29 47
	eP'P'	56 08
LOG	eP	03 29 39
	epP	30 49
OV	iP	03 29 17.2
	ipP	30 26.6
TUC	iP	03 29 22
	ipP	30 31
Feb. 19		
COL	eP	05 26 02
Feb. 19		
BC	e(P)	09 46 36
	e	54 07
OV	e(P)	09 45 26
	i	46 36.9
PF	e(P)	09 46 29
	e	53 49
TUC	e(P)	09 45 40
	eL	51 17
Feb. 19		
BC	e(P)	10 19 32
COL	e(P)	10 20 15
OV	iP	10 19 35.0
PF	iP	10 19 35.2
TUC	e(P)	10 19 33
Feb. 19, H = 12 24 34** Andreanof Islands, Aleutian Islands.		
COL	eP	12 29 07
	i	29 15
HH	iP	12 32 02
OV	iP	12 33 06.4
PF	eP	12 33 12
TUC	eP	12 33 33
Feb. 19, H = 17 43 55* 17-1/2°S, 179°W. Fiji Islands region. h about 600 km.		

Date and Station		Phase (GCT)
		h m s
BC	iP	17 55 10.0
	ipP	57 11.0
COL	iP	17 55 33
	epP	57 36
HH	iP	17 55 41
	epP	57 46
	ePP	59 13
LOG	eP	17 55 33
	epP	57 36
OV	iP	17 55 13.4
	ipP	57 14.7
PF	iP	17 55 13.6
	ipP	57 15.1
SH	iP	17 54 56
TUC	iP	17 55 16
	epP	57 15
Feb. 19, H = 22 11 51* 25°S, 116-1/2°W. Northwest of Easter Island. Mag. 6-1/2.		
BC	eP	22 22 08
	eS	30 35
COL	eP	22 25 06
	ePS	37 32
	eL	50 08
HH	iP	22 23 26
LOG	eP	22 22 46
	e(S)	32 48
	eSS	36 05
	eL	44 44
OV	eP	22 22 12
	iP	22 13.2
PF	iP	22 22 10.0
RC	e(P)	22 23 09
	ePP	25 52
	eS	32 20
	e(SS)	37 42
	eL	44 28
SLC	e(P)	22 23 03
	e(PP)	25 32
	eS	31 23
	eL	40 44
SH	eP	22 22 41
TUC	eP	22 21 43
	iP	21 44
	i	22 20
	ePcP	22 48
	ePP	23 51
	eS	29 49
	eSS	33 39
	eL	38 30

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Date and Station		Phase (GCT)
		h m s
WASH	e(P)	22 23 36
Feb. 19, H = 22 36 07 By BERK, 40°04'N, 120°42'W. Near Genesee, California. Felt at Spring Garden, Butte Valley, Caribou, and Quincy. Mag. 4.2		
BC	e(P)	22 37 39
OV	e(P)	22 39 32
PF	i(P)	22 37 46.8
Feb. 20		
COL	e(P')	00 22 42
HH	eP'	00 22 42
WASH	eP'	00 23 02
Feb. 20		
COL	iP	01 57 06
	e	57 38
PF	e(P)	01 56 33
Feb. 20		
BC	e(P)	02 50 28
OV	e(P)	02 50 35
PF	e(P)	02 50 30
	i	50 36.7
TUC	e(P)	02 50 43
	e	50 51
	e	51 44
Feb. 20		
COL	iP	03 15 14
HH	e(P)	03 18 26
Feb. 20		
PF	e(P)	05 06 33
	e	06 44
Feb. 20		
COL	eP	10 25 32
OV	e(P)	10 31 14
PF	e(P)	10 31 32
	e	32 16
Feb. 20		
HH	eP	11 36 13
OV	e(P)	11 35 28
Feb. 20		
OV	i(P)	12 11 15.1
PF	i(P)	12 11 12.3

Date and Station		Phase (GCT)
		h m s
TUC	eP	12 10 46
Feb. 20		
OV	i(P)	12 40 27.7
PF	e(P)	12 40 04
	e	40 25
Feb. 20		
COL	eP	13 23 28
	iP	23 29
	e	24 05
HH	eP	13 25 14
OV	e(P)	13 25 47
PF	e(P)	13 25 36
Feb. 20		
BC	e(P)	13 34 34
HH	eP	13 35 55
LOG	e(P)	13 34 48
OV	i(P)	13 34 43.4
PF	e(P)	13 34 36
TUC	eP	13 34 13
Feb. 20, H = 15 24 15* 22°S, 114°W. Northwest of Easter Island. Mag. about 6.		
BC	iP	15 34 09.5
COL	eP	15 37 20
	eS	48 14
	eL	16 06 02
HH	eP	15 35 31
OV	iP	15 34 14.3
PF	iP	15 34 10.8
TUC	iP	15 33 43
	e(PcP)	35 03
	ePP	35 58
	eS	41 15
	eSS	45 25
	eL	47 29
Feb. 20, H = 15 41 20** Kurile Islands.		
BC	eP	15 52 22
	i	52 41
COL	iP	15 49 01
	e	49 46
	eL	16 06 32
HH	iP	15 51 53

Date and Station		Phase (GCT)
		h m s
OV	i(P)	15 52 40.4
PF	i(P)	15 52 42.8
TUC	iP	15 53 10
Feb. 20		
PF	i(P)	16 35 44.7
Feb. 20		
PF	e(P)	20 36 20
Feb. 20		
PF	e(P)	23 34 39
Feb. 20		
PF	i(P)	23 42 08.6
Feb. 21		
COL	iP	02 35 59
HH	e(P')	02 41 55
Feb. 21		
TUC	e(P)	04 09 15
	e	12 49
Feb. 21		
OV	e(P)	04 22 24
PF	i(P)	04 22 24.0
TUC	e(P)	04 22 23
Feb. 21, H = 07 19 29* 35-1/2°S, 179°W. Kermadec Islands region. h about 100 km.		
BC	iP	07 32 38.0
COL	eP	07 33 24
	e	43 04
	eL	08 10 28
HH	e(P)	07 32 51
	i	34 18
OV	eP	07 32 38
	ipP	33 03.9
PF	eP	07 32 39
SH	eP	07 32 33
TUC	eP	07 32 37
	iP	32 38
	ipP	33 02
	ePKKP	50 21
	eL	08 02 38
Feb. 21		
OV	e(P)	09 27 33
PF	e(P)	09 25 44
	e	27 33
TUC	iP	09 25 45

Date and Station		Phase (GCT)
		h m s
Feb. 21		
TUC	iP	12 26 55
Feb. 21		
COL	iP	13 45 56
Feb. 21		
SH	e(P)	13 52 41
	e(S)	53 13
Feb. 21		
COL	e(P)	15 17 45
Feb. 21, H = 17 09 56* 43°N, 110°W. Southwestern Wyoming. Felt at Rock Spring.		
BC	iP	17 11 56.2
BOZ	eP	17 10 46
	iS	11 18
	iL	11 24
BUT	e(P)	17 11 02
	eS	11 41
	eL	11 46
COL	eP	17 16 18
HH	eP	17 11 28
	e	11 50
	e	12 02
OV	iP	17 11 47.4
	i	12 24.4
	iL	13 52.0
PF	iP	17 11 50.4
RC	eP	17 11 12
	i(S)	12 29
	eL	13 16
SH	e(P)	17 12 02
TUC	e(P)	17 12 44
	i	12 55
	i	13 17
	e(S)	13 43
	eL	15 20
Feb. 21, H = 17 52 49** Dominican Republic foreshock. h about 100 km.		
BC	iP	18 00 53.7
COL	eP	18 03 47
HH	iP	18 01 16
OV	iP	18 00 52.3
PF	iP	18 00 48.7

Date and Station		Phase (GCT)
		h m s
SJ	eP	17 53 40
	iP	53 41
	i(S)	54 14
	iL	54 43
Feb. 21		
COL	e(P)	19 29 46
Feb. 21		
COL	eP	20 06 41
	ipP	06 55
PF	e(P)	20 10 25
Feb. 21, H = 20 40 39* 18-1/2°N, 68-1/2°W. Near northeast coast of Dominican Republic. h about 100 km.		
BC	iP	20 48 44.1
COL	eP	20 51 37
HH	iP	20 49 06
OV	iP	20 48 42.7
PF	iP	20 48 39.0
SJ	iP	20 41 17
	i(S)	41 47
	iL	42 24
SH	eP	20 49 32
TUC	iP	20 48 12
WASH	i(P)	20 45 32
Feb. 22		
PF	e(P)	00 55 25
HH	iP	01 24 55
	iL	25 22
Feb. 22, H = 01 45 41** North central New Guinea.		
COL	iP	01 58 17
	iS	02 08 40
	eSS	14 40
	eL	20 29
HH	eP	01 59 38
OV	ePP	02 03 55
PF	ePP	02 04 05
SJ	eP'	02 05 32
	iP	05 33
SH	iP	01 59 14
TUC	e(P')	02 03 19
	e	07 09
	eL	33 20

Date and Station		Phase (GCT)
		h m s
Feb. 22		
SJ	iP	03 44 44
	e(S)	45 14
	eL	45 28
Feb. 22		
OV	e(P)	04 16 42
PF	e(P)	04 16 39
Feb. 22		
COL	eP	04 37 17
	iP	37 18
Feb. 22		
COL	e(P)	06 44 34
Feb. 22		
COL	eP	12 56 55
Feb. 22		
PF	e(P)	16 58 43
Feb. 22, H = 17 56 42* 24°S, 66-1/2°W. Chile-Argentina border. h about 100 km. Felt in Chile.		
BC	iP	18 08 17.2
HH	iP	18 09 04
OV	iP	18 08 18.6
PF	iP	18 08 15.2
SJ	eP	18 04 28
	iP	04 29
	i	04 37
	i(PP)	06 12
SH	iP	18 08 57
TUC	eP	18 07 47
	epP	08 20
Feb. 22		
COL	e(P)	19 50 28
Feb. 22		
COL	e(P)	21 34 13
	i	34 25
HH	e(P)	21 30 37
	e	30 56
TUC	eP	21 28 32
Feb. 23, H = 00 01 11** Oregon coast foreshock.		
BC	iP	00 04 42.6
COL	eP	00 06 17
HH	eP	00 03 53

Date and Station		Phase (GCT)
		h m s
LOG	eP	00 04 24
OV	i(P)	00 04 33.9
PF	iP	00 04 46.4
RC	iP	00 05(41)
Feb. 23		
BC	e(P)	00 16 39
	i	17 05.1
HH	e(P)	00 16 10
OV	e(P)	00 16 35
	i	16 58.0
PF	e(P)	00 16 53
	i	17 04.1
Feb. 23, H = 02 06 26** Oregon coast foreshock.		
BC	eP	02 09 54
HH	eP	02 09 08
LOG	eP	02 09 39
OV	iP	02 09 48.9
PF	eP	02 09 56
	i	10 03.2
RC	eP	02 10(54)
TUC	eP	02 10 51
Feb. 23, H = 02 56 42* 44-1/2°N, 129-1/2°W. About 300 miles off coast of Oregon.		
BC	eP	03 00 05
	iP	00 06.1
CHI	eS	03 08 00
	eL	13 50
COL	eP	03 01 45
	ePP	02 10
	eS	06 04
	eL	07 00
HH	iP	02 59 26
	i(S)	03 00 55
LIN	eS	03 06 24
	eL	10 12
LOG	eP	02 59 55
	iP	59 59
	e	03 00 20
	eL	03 46
OV	iP	03 00 04.1

Date and Station		Phase (GCT)
		h m s
PF	iP	03 00 08.7
RC	iP	03 01(06)
	eL	06(12)
SLC	eP	03 00 05
	e	00 37
	eS	02 34
	eL	03 11
SH	i(P)	02 58 21
TUC	eP	03 01 07
	e	01 45
	e(S)	04 53
	eL	06 23
Feb. 23		
PF	e(P)	03 18 26
Feb. 23, H = 04 16 30** Oregon coast aftershock.		
BC	eP	04 19 44
HH	eP	04 19 16
LOG	eP	04 19 40
OV	e(P)	04 19 53
PF	e(P)	04 20 02
TUC	e(P)	04 20 54
Feb. 23		
COL	e(P)	11 51 24
HH	e(P)	11 50 03
Feb. 23		
COL	eP	14 17 58
Feb. 23		
HH	e(P)	19 49 27
Feb. 23		
PF	e(P)	20 08 01
Feb. 23		
BC	e(P)	21 49 26
PF	e(P)	21 48 14
	i	48 20.1
Feb. 23		
PF	e(P)	22 02 28
	i	02 32.3
Feb. 23		
BC	e(P)	22 22 52
Feb. 24		
BC	eP	03 26 25
HH	e(P)	03 27 53
OV	eP	03 26 30

Date and Station		Phase (GCT)
		h m s
PF	eP	03 26 24
TUC	e(P)	03 25 50
Feb. 24		
BC	iP	06 13 31.1
HH	e(P)	06 14 53
	i	16 53
OV	e(P)	06 13 47
PF	i(P)	06 13 28.6
TUC	e(P)	06 12 47
Feb. 24		
COL	eP	12 29 58
Feb. 24		
COL	eP	17 56 22
	e	56 42
Feb. 24		
COL	e(P)	21 02 53
Feb. 24		
COL	e(P)	21 06 31
	e	06 36
HH	iP	21 08 27
	e	09 19
Feb. 25		
TUC	e(P)	02 52 53
	e	53 22
Feb. 25		
OV	e(P)	07 30 43
PF	e(P)	07 30 46
Feb. 25		
COL	e(P)	11 27 35
OV	e(P)	11 29 02
Feb. 25, H = 12 51 09** Off east coast of Honshu, Japan.		
BC	eP	13 03 14
COL	eP	12 59 59
HH	eP	13 02 34
	i	03 33
LOG	eP	13 03 04
OV	iP	13 03 13.9
PF	iP	13 03 16.4
SH	eP	13 02 29
TUC	iP	13 03 39
	e	04 40

Date and Station		Phase (GCT)
		h m s
Feb. 25		
COL	e(P)	14 44 49
Feb. 25		
COL	eP	15 49 41
	iP	49 42
Feb. 25		
HH	e(P)	16 01 05
Feb. 25		
PF	e(P)	18 46 44
TUC	eP	18 46 36
Feb. 25		
COL	eP	20 15 09
HH	e(P)	20 16 15
Feb. 26		
HH	eP	00 09 38
Feb. 26		
PF	e(P)	00 38 49
Feb. 26		
COL	iP	04 26 28
HH	iP	04 29 26
Feb. 26		
COL	eP	05 21 26
Feb. 26		
COL	eP	08 46 42
OV	e(P)	08 45 03
Feb. 26		
COL	e(P)	09 42 50
Feb. 26		
TUC	eP	12 32 11
Feb. 26		
COL	e(P)	14 19 20
HH	iP	14 21 41
Feb. 26		
BC	e(P)	14 58 43
HH	iP	14 59 49
SJ	i(P)	14 58 10
TUC	e(P)	14 58 02
Feb. 26		
COL	e(P)	15 24 49
Feb. 26		
COL	iP	16 18 34
	i(S)	19 34
	eL	20 00
HH	iP	16 22 30

Date and Station		Phase (GCT)
		h m s
SH	iP	16 22 48
Feb. 26		
OV	i(P)	19 43 32.7
Feb. 26		
COL	eP	20 36 50
	i	37 28
Feb. 26		
TUC	i(P)	21 41 34
Feb. 27		
COL	eP	00 24 54
Feb. 27		
COL	eP	03 59 45
Feb. 27		
OV	i(P)	05 33 44.1
Feb. 27		
COL	eP	06 35 17
	eL	07 08 03
Feb. 27		
COL	e(P)	08 23 06
	eL	40 40
Feb. 27		
COL	e(P)	08 39 28
	e	39 51
Feb. 27		
COL	eP	09 17 52
Feb. 27		
BC	i(P)	09 36 25.9
Feb. 27		
COL	eP	16 51 20
Feb. 27		
BC	eP	17 11 56
Feb. 27		
HH	eP	18 45 21
	e	45 28
TUC	iP	18 41 48
	i(S)	42 02
	eL	42 41
Feb. 27		
COL	eP	22 40 34
Feb. 27		
COL	eP	23 07 14
	i	07 50
HH	iP	23 09 56
Feb. 27		
COL	eP	23 53 29
Feb. 28		
COL	eP	01 11 29
	epP	11 46

Date and Station		Phase (GCT)
		h m s
PF	i(P)	01 10 51.8
TUC	eP	01 10 50
	epP	11 06
Feb. 28		
HH	e(P)	03 48 47
Feb. 28		
WASH	i(P)	05 01 29
Feb. 28		
COL	eP	06 54 14
Feb. 28		
SH	iP	19 45 48.7
	iS	46 07.3
Feb. 28		
PF	e(P)	21 32 17

Local and Minor Earthquakes		Local and Minor Earthquakes	
day	hour	day	hour
COL		TUC	
Feb.		Feb.	
6	14.8	12	18.1
	16.5		23.0
	17.5	13	12.2
7	22.7		17.8
8	18.5		20.5
	18.8	15	16.6
9	00.9	21	17.1
12	03.9		21.1
	04.9	23	05.5
	14.3		05.7
	19.5		16.6
13	01.6		20.1
14	21.9		21.2
26	16.3		
		UK	
HONO		Feb.	
Feb.		21	12.9
8	19.4		
13	22.9		
15	21.9		
16	17.5		
20	23.8		
	23.9		
21	20.0		
	20.1		
	20.2		
LOG			
Feb.			
6	14.4		
SJ			
Feb.			
7	20.9		
	22.4		
8	22.4		
10	02.5		
11	15.3		
	18.6		
12	12.1		
13	09.0		
15	14.3		
16	15.9		
20	20.4		
	21.1		
23	16.4		
25	03.7		
26	14.9		
27	00.7		
28	09.4		
SIT			
Feb.			
14	10.0		
TUC			
Feb.			
7	17.6		
	19.6		
8	19.5		
9	17.1		
	22.1		
10	17.7		
11	02.6		
	06.6		
	17.9		

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