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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
Mar.	h m s	° '	° '	
2	00 34 23*	17 N.	91 W.	Mexico-Guatemala Border. h about 100 km.
2	01 32 39*	53 N.	35 W.	North Atlantic Ocean.
4	11 17 33*	15-1/2 S.	74 W.	Near coast of southern Peru. Felt. h about 150 km. Mag. 7.
5	00 50 35**			Near coast of Guatemala.
5	11 14 19*	2-1/2 S.	27 W.	Mid-Atlantic Ocean.
5	14 46 00*	53 N.	163 W.	South of Alaska Peninsula. Depth slightly greater than normal.
5	20 11 45*	28-1/2 N.	128 E.	Ryukyu Islands. h about 150 km. Mag. 6.9.
5	22 54 20*	37 N.	113 W.	Arizona-Utah border. Felt at Fredonia, Arizona and Kanab, Utah. Mag. 4.7.
6	18 58 13*	29 N.	95-1/2 E.	Assam. Felt.
7	06 20 25**			Northern Chile-Argentina border region. Felt in Chile.
7	18 31 54*	35 N.	142-1/2 E.	Off east coast of Honshu, Japan. Felt at Utsunomiya.
8	15 12 11*	6-1/2 S.	154-1/2 E.	Solomon Islands. h about 60 km. Mag. 6-1/2.
9	16 09 53*	21 S.	178-1/2 W.	Fiji Islands region. h about 600 km.
9	19 44 13*	8 S.	124-1/2 E.	Flores Sea region. Mag. 6-3/4.
10	02 04 19**			Fiji Islands region. h about 600 km.
10	08 10 17	40.3 N.	124.3 W.	By Berkeley. Humboldt County, California. Felt. Mag. 4.1.
10	10 38 28*	37-1/2 N.	4 W.	Southern Spain. Felt.
10	12 17 50**			Solomon Islands. Depth slightly greater than normal.
10	15 52 25	34 04 N.	116 52 W.	By Pasadena. Upper Mill Creek, California. Felt at Fawnskin, Hemet, and Riverside. Mag. 3.9.
10	21 57 25*	15 S.	167-1/2 E.	New Hebrides Islands. h about 100 km. Mag. 7.2.
10	22 03 35*	42 N.	139-1/2 E.	Near south coast of Hokkaido, Japan. Felt on southern Hokkaido and northern Honshu. Mag. about 7.
11	09 08 15*	14 S.	70-1/2 W.	Central Peru.
12	14 52 16*	27 N.	94 E.	Assam-India border.
13	00 21 04*	10 S.	75 W.	Central Peru. h about 100 km.
13	04 02 52*	24 S.	68 W.	Northern Argentina-Chile border. Felt in Chile. h about 150 km.
13	17 44 52*	21-1/2 S.	179 W.	Fiji Islands. h about 550 km.
14	09 46 55*	51 N.	7 E.	West central Germany. Minor damage.
15	13 50 43	35 01 N.	120 09 W.	By Pasadena. Near Santa Marie, Calif. Felt at Los Alamos. Mag. 3.8.
15	20 36 10**			Off coast of Oaxaca, Mexico.
16	13 56 53*	31 N.	97 E.	Sikang Province, China.
16	19 35 31*	52-1/2 N.	167-1/2 W.	Aleutian Islands region.
17	04 27 40*	31 N.	97 E.	Sikang Province, China.
17	15 47 36**			Halmahera Islands region.
18	09 18 16*	9-1/2 N.	127 E.	Near east coast of Mindanao, Philippine Islands.
19	03 07 28*	35-1/2 N.	35 W.	North Atlantic Ocean.
19	09 29 35*	21-1/2 S.	33-1/2 E.	Central Mozambique, Africa.

Date 1951	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Mar.	h m s	° '	° '	
19	20 28 55*	56 N.	160-1/2 E.	Central Kamchatka. Mag. 6-1/2 - 3/4.
21	16 20 48*	54 N.	169 W.	Fox Islands, Aleutian Islands. Depth slightly greater than normal.
22	19 36 52*	13 S.	172-1/2 W.	Samoa Islands.
23	21 38 42*	32 S.	179 W.	Kermadec Islands. h about 225 km. Mag. 7.0.
24	00 17 36*	10-1/2 S.	166 E.	Santa Cruz Islands. h about 150 km.
24	20 52 37*	13 N.	88-1/2 W.	Off southern coast of El Salvador. h about 100 km. Mag. 5-1/2.
25	18 25 30**			Molucca Passage.
25	20 09 52**			Fiji Islands region. h about 600 km.
27	12 01 40**			Northern Gulf of California.
27	13 45 24**			New Hebrides Islands.
28	01 55 08*	36-1/2 S.	177 E.	Off north coast of North Island, New Zealand. Felt. h about 300 km. Mag. 6-1/4.
28	10 03 11*	17-1/2 S.	167 E.	New Hebrides Islands.
28	18 26 59**			Off east coast of Honshu, Japan.
29	05 55 10*	41 S.	73 W.	Southern Chile. Felt. h about 100 km.
29	06 12 27**			Near Verkhoyanski Mountains, Siberia.
29	23 39 29	33 17 N.	116 02 W.	By Pasadena. West shore of Salton Sea. Felt at Campo, Ramona, San Diego, and Valley Center. Mag. 4.4.
31	01 39 08**			Tonga Islands.
31	06 22 02*	18 S.	179-1/2 W.	Fiji Islands. h about 600 km.
31	09 20 34*	60-1/2 N.	154 W.	Southern Alaska. h about 250 km.

Date and Station		Phase (GCT)
		h m s
Mar. 1		
BC	e(P)	01 53 13
COL	iP	01 49 08
HH	eP	01 52 16
TUC	e(P)	01 53 03
	e	53 45
Mar. 1		
COL	eP	12 28 59
	e	29 09
HH	iP	12 28 12
Mar. 1		
COL	eP	16 02 32
	e	03 01
HH	eP	16 03 15
Mar. 1		
BC	iP	18 32 42
	e	41 15
COL	eP	18 37 11
HH	eP	18 34 05
OV	eP	18 32 44
	eL	41 49
PF	iP	18 32 39
	eL	41 17
TUC	iP	18 31 55
	ipP	32 36
	e	33 08
	eL	38 35
Mar. 1		
COL	iP	20 41 01
	e(pP)	41 16
Mar. 2		
HH	eP	00 07 28
Mar. 2, H = 00 34 23* 17°N, 91°W. Mexico-Guatemala border. h about 100 km.		
BC	eP	00 40 10
	ipP	40 40
COL	eP	00 44 28
	epP	45 06
	i	45 44
HH	e(P)	00 41 56
	iPcP	43 39
LOG	e(P)	00 41 16
OV	i(P)	00 40 43.9
PF	e(P)	00 40 38
TUC	eP	00 39 28
	ipP	39 54
	i	40 41
	iPcP	43 06
	eL	47 18
WASH	e(P)	00 41 25
Mar. 2		
BC	iP	01 10 17
HH	iP	01 11 04
LOG	e(P)	01 10 33
OV	iP	01 10 20.5
SH	iP	01 10 57
TUC	iP	01 09 50
Mar. 2, H = 01 32 39* 53°N, 35°W. North Atlantic Ocean.		
BC	eP	01 42 20
COL	eP	01 41 45
	i	41 50
	ePcP	42 49
	ePP	43 50
	eL	59 08
COLU	iP	01 40 00
HH	eP	01 41 13
	iPcP	42 45
LOG	eP	01 41 40
OV	iP	01 42 17.0
PHIL	eL	01 49 42
PF	eP	01 42 16
TUC	iP	01 42 24
	ePP	44 33
	eL	02 04 08
Mar. 2		
COL	eP	01 59 04
	iP	59 05
HH	e(P)	01 58 36
Mar. 2		
WASH	eP	04 05 30
	i	06 31
Mar. 2		
COL	e(P)	04 28 53
Mar. 2		
HH	iP	05 34 14
Mar. 2		
COL	e(P)	05 52 31
HH	eP	05 52 04
TUC	e(P)	05 53 23
Mar. 2		
COL	e(P)	14 09 47
Mar. 2		
COL	eP	22 55 11
Mar. 3		
COL	iP	04 46 57
Mar. 3		
COL	eP	06 18 41
Mar. 3		
COL	eP	07 12 16
Mar. 3		
COL	e(P)	10 15 23
Mar. 3		
HH	e(P)	10 22 27
Mar. 3		
COL	e(P)	10 46 10
Mar. 3		
COL	e(P)	12 41 03
Mar. 3		
PF	e(P)	16 13 03
Mar. 3		
BC	e(P)	17 00 03
OV	e(P)	17 00 15
PF	e(P)	16 58 39
	i	58 59
Mar. 3		
BC	e(P)	18 13 02
COL	e(P)	18 18 50
	e	37 22
	eL	56 28
OV	e(P)	18 13 11
TUC	i(P)	18 12 44
Mar. 3		
HH	eP	21 54 14
Mar. 3		
PF	i(P)	22 50 06
	i	50 28
Mar. 4		
PF	eP	01 40 03
Mar. 4		
COL	e(P)	05 40 02
Mar. 4		
COL	eP	07 23 00
HH	iP	07 26 50
Mar. 4		
COL	eP	11 10 51
TUC	e(P)	11 10 30
Mar. 4, H = 11 17 33* 15-1/2°S, 74°W. Near coast of southern Peru. Felt. h about 150 km. Mag. 7.		
BH	iP	11 22 49
	eL	28 14
BC	iP	11 27 57
	ipP	28 22
BOZ	eP	11 28 28
	eS	37 34
	e(SS)	43 36
	eL	51 38
BUT	e(P)	11 29 03
	eS	38 04
	eL	54 16
CHI	eP	11 27 13
	epP	27 39
	ePPP	30 59
	eS	35 11
	e(ScS)	37 01
	i	37 33
	eL	41 31
COL	iP	11 30 52
	i	31 11
	ipP	31 21
	ePP	34 50
	epPP	35 16
	eSKS	41 27
	eL	55 44
COLU	iP	11 26 14
	ipP	26 38
	ePP	28 10
	ipPP	28 40
	e(S)	33 41
	isS	34 11
	i	36 31
	i(SS)	37 22
	eL	41 23
HH	iP	11 28 49
	iPcP	29 10
	ipP	29 19
LIN	eP	11 27 27
	epP	27 56
	e(S)	35 57
	eL	41 05
LOG	iP	11 28 13
	ipP	28 40
	epPP	31 11
	e(S)	37 19
	esS	37 31
	eL	53 57

Date and Station		Phase	(GCT)
			h m s
OV	iP		11 27 57.4
	i		28 16.8
	ipP		28 25.5
	iP'P'		56 48.9
PHIL	eP		11 26 54
	ipP		27 21
	e(PP)		29 26
	eS		34 35
	i		34 56
	isS		35 23
	eSS		38 23
	eL		40 35
PF	eP		11 27 53
	iP		27 54
	ipP		28 20
	ePP		30 28
	epPP		30 43
	e(S)		36 51
	eP'P'		56 46
SLC	eP		11 28 03
	epP		28 30
	e(PP)		30 28
	e(S)		37 06
	eL		44 18
SJ	iP		11 24 08
	ipP		24 38
	iPP		25 30
	i		26 20
	eS		29 30
	iS		29 32
	eL		31 11
SH	iP		11 28 43
	iPcP		29 00
	ipP		29 09
TUC	iP		11 27 22
	ipP		27 48
	e(PP)		29 18
	e(S)		35 56
	esS		36 03
	eL		42 44
WASH	iP		11 26 47
	i		27 00
	i(PP)		29 28
	i(S)		35 00
Mar. 4			
COL	eP		12 43 45
Mar. 4			
COL	eP		14 26 03
Mar. 4			
COL	e(P)		16 30 18
Mar. 4			
OV	i(P)		17 37 31.8
Mar. 4			
WASH	i(P)		18 06 00
Mar. 4			
PF	iP		18 54 15

Date and Station		Phase	(GCT)
			h m s
Mar. 5, H = 00 50 35** Near coast of Guatemala.			
BC	eP		00 56 46
COL	eP		01 01 01
	iP		01 04
HH	eP		00 57 57
OV	eP		00 56 46
PF	iP		00 56 41
TUC	eP		00 55 58
	ePP		56 26
Mar. 5			
BC	e(P)		01 32 46
OV	e(P)		01 32 58
	i		34 11.5
PF	i(P)		01 32 55
Mar. 5			
HH	eP		02 35 58
	i		36 08
	i		36 38
	eL		37 02
Mar. 5			
PF	e(P)		04 03 13
Mar. 5			
COL	iP		11 02 35
	i		02 57
PF	iP		11 02 02
TUC	i(P)		11 02 04
Mar. 5, H = 11 14 19* 2-1/2°S, 27°W. Mid-Atlantic Ocean.			
BC	e(P)		11 27 42
HH	e(P)		11 27 32
LOG	e(P)		11 28 31
OV	i(P)		11 27 34.8
	i		27 40.4
PF	e(P)		11 27 32
TUC	e(P)		11 27 19
	e		27 25
Mar. 5			
COL	eP		11 37 49
Mar. 5, H = 14 46 00* 53°N, 163°W. South of Alaska Peninsula. Depth slightly greater than normal.			

Date and Station		Phase	(GCT)
			h m s
BC	iP		14 53 18
COL	eP		14 49 21
	i		49 32
	i		51 06
	iS		51 55
	eL		53 04
HH	iP		14 52 19
	iPcP		55 14
OV	iP		14 53 16.8
	ipP		53 27.0
PF	iP		14 53 20
	ipP		53 32
	isP		53 45
SH	iP		14 52 13
	ipP		52 24
TUC	iP		14 53 59
	ipP		54 10
	iPcP		55 49
Mar. 5			
COL	e(P)		18 30 43
	e		32 25
HH	eP		18 30 27
	e		32 07
Mar. 5			
COL	e(P)		18 56 17
HH	eP		18 56 02
Mar. 5, H = 20 11 45* 28-1/2°N, 128°E. Ryukyu Islands. h about 150 km. Mag. 6.9			
BC	eP		20 24 43
	iP		24 44.4
	i(pP)		25 31.8
	eSKS		35 03
	eS		35 32
BOZ	eP		20 24 27
	epP		25 02
	iS		34 57
	ePS		36 07
	eSS		40 43
	eL		47 39
BUT	iP		20 24 21
	iS		34 48
	iPS		35 58
	eSS		40 32
	eL		48 52
CHI	eP'		20 29 34
	e(SKKS)		36 45
	ePPS		39 37
	eSSS		48 28
COL	iP		20 21 50
	iPcP		22 40

Date and Station		Phase	(GCT)
			h m s
COL	ePP		20 24 18
	iS		30 04
	iScS		31 18
	eSS		34 08
	eL		39 17
	e(P'P')		50 58
COLU	e(PPP)		20 34 44
	ePPS		41 14
	eL		21 04 00
HH	iP		20 24 09
	i		24 28
	eSKS		34 15
	eS		34 27
	iPKKP		42 13
	eP'P'		56 18
	e(SKPP')		53 14
OV	iP		20 24 42.8
	i		24 44.6
	e(S)		35 31
PF	eP		20 24 44
	iP		24 46
	ipP		25 28
	iPP		28 28
	eSKS		35 06
	eSKKS		35 25
SLC	eP		20 24 36
	e(sP)		25 36
	e(SKS)		35 21
	eS		36 24
	eSS		41 20
	eSSS		45 12
	eL		49 08
SJ	iP'		20 30 43
	e(PP)		33 52
SH	iP		20 24 06
SIT	iP		20 22 36
	i(pP)		23 28
	iPP		25 12
	i		26 26
	iPPP		27 20
	iS		31 41
	isS		32 10
	i		35 30
	iSS		36 48
	eSSS		39 16
	eL		40 12
TUC	eP		20 25 05
	iP		25 07
	i(pP)		25 59
	ePP		28 56
	eSKS		35 32
	ePS		37 28
	ePPS		38 44
	eL		53 05
UK	eP		20 24 10
	eS		34 28
	eL		46 50

Date and Station		Phase (GCT)
		h m s
Mar. 5		
COL	eP	21 50 38
Mar. 5, H = 22 54 20* 37°N, 113°W. Arizona-Utah border. Felt at Fredonia, Ariz., and Kanab, Utah. Mag. 4.7		
BC	i(P)	22 54 48.5
	iS	55 12.1
HH	eP	22 57 16
OV	iP	22 54 41.1
TUC	eP	22 55 34
	i	55 45
	e(S)	56 18
	eL	56 39
Mar. 5		
OV	iP	23 15 27.8
	i	15 44.5
Mar. 6		
OV	i(P)	01 36 38.2
TUC	eP	01 36 36
Mar. 6		
PF	e(P)	02 56 45
Mar. 6		
HH	eP	03 27 27
Mar. 6		
HH	e(P)	05 26 10
Mar. 6		
COL	eP	07 08 56
Mar. 6		
OV	iP	08 03 18.3
	i	03 51.8
PF	e(P)	08 02 06
Mar. 6		
OV	i(P)	08 05 09
Mar. 6		
PF	e(P)	08 26 06
Mar. 6		
COL	eP	08 42 54
Mar. 6		
BC	iP	08 57 34.4
HH	iP	08 58 21
OV	iP	08 57 36.3
PF	iP	08 57 32
TUC	iP	08 57 09

Date and Station		Phase (GCT)
		h m s
Mar. 6		
COL	eP	09 53 56
	epP	54 21
HH	eP	09 50 57
TUC	eP	09 48 48
	e	49 10
Mar. 6		
COL	eP	15 25 48
HH	eP	15 28 06
Mar. 6, H = 18 58 13* 29°N., 95-1/2°E. Assam. Felt.		
COL	eP	19 09 56
	iP	09 57
	i	10 56
	e(S)	19 33
	eL	35 26
HH	eP	19 11 57
	ePP	15 49
OV	ePP	19 17 15
PF	ePP	19 17 20
Mar. 6		
HH	i(P)	22 51 06
Mar. 7		
COL	e(P)	00 39 53
Mar. 7		
OV	e(P)	05 11 52
Mar. 7		
HH	eP	05 23 56
Mar. 7		
COL	eP	06 26 13
HH	iP	06 28 09
PF	iP	06 28 31
Mar. 7, H = 06 20 25** Northern Chile-Argentina border region. Felt in Chile.		
TUC	eP	06 31 51
	e	32 11
	e	32 32
Mar. 7		
HH	eP	07 30 36
Mar. 7		
OV	iP	12 25 07.1
	i	25 24.3
Mar. 7		
OV	e(P)	12 43 07

Date and Station		Phase (GCT)
		h m s
Mar. 7		
OV	i(P)	15 50 09.1
Mar. 7		
COL	iP	17 29 52
	i(S)	30 44
	iL	31 16
HH	iP	17 33 53
	e	34 11
PF	i(P)	17 35 19
SH	iP	17 34 12
Mar. 7, H = 18 31 54* 35°N, 142-1/2°E. Off east coast of Honshu, Japan. Felt at Utsunomiya.		
COL	eP	18 40 53
	eS	48 04
	eSS	51 25
	eL	56 16
HH	eP	18 43 24
OV	e(P)	18 45 09
PF	eP	18 44 04
TUC	e(P)	18 44 37
Mar. 7		
COL	e(P)	19 30 09
	e	30 14
Mar. 8		
COL	e(P)	00 07 34
Mar. 8		
COL	e(P)	06 13 46
Mar. 8		
COL	eP	06 50 58
Mar. 8		
OV	e(P)	08 48 47
Mar. 8		
HH	e(P)	09 39 09
	eL	39 18
Mar. 8		
OV	e(P)	13 37 13
Mar. 8		
HH	eP	13 42 17
	i	42 28
	eL	43 57
OV	e(P)	13 42 41
TUC	e(P)	13 44 48

Date and Station		Phase (GCT)
		h m s
Mar. 8, H = 15 12 11* 6-1/2°S, 154-1/2°E. Solomon Islands. h about 60 km. Mag. 6-1/2.		
BC	iP	15 25 28.1
	iPP	29 14.5
	iPKKP	42 32
COL	iP	15 24 31
	ipP	24 52
	eL	46 19
HH	eP	15 25 33
	e(PP)	29 12
OV	iP	15 25 30.0
	ePP	29 16
PF	iP	15 25 31
	i	25 43
	ipP	25 55
SJ	iP'	15 31 24
	i	31 34
	iPP	35 09
SH	iP	15 25 03
TUC	eP	15 25 43
	ePKKP	42 24
Mar. 8		
HH	eP	15 41 56
	eL	42 25
Mar. 8		
PF	eP	20 19 55
Mar. 8		
PF	i(P)	21 40 32
	e	41 40
Mar. 8		
COL	e(P)	22 52 38
Mar. 9		
BH	iP	02 03 09
	iS	03 22
Mar. 9		
COL	eP	02 14 28
Mar. 9		
SH	iP	03 57 38
	i(S)	58 22
	eL	58 36
Mar. 9		
HH	iP	06 48 22
	e(S)	48 41
Mar. 9		
COL	eP	07 20 08
	i	20 19

Date and Station		Phase	(GCT)
			h m s
HH		eP	07 22 41
OV		i(P)	07 23 19.2
		e	23 39
PF		iP	07 23 21
TUC		eP	07 23 48
Mar. 9			
COL		e(P)	10 28 12
HH		e(P)	10 26 08
OV		e(P)	10 25 23.5
PF		eP	10 25 12
TUC		eP	10 24 38
Mar. 9			
COL		e(P)	11 58 18
Mar. 9			
COL		eP	14 49 56
Mar. 9			
COL		eP	15 41 38
Mar. 9, H = 16 09 53* 21°S, 178-1/2°W. Fiji Islands region. h about 600 km.			
BC		iP	16 21 21
		eS	30 51
COL		iP	16 21 47
		i	22 18
		ipP	24 04
		e(sP)	24 50
		iSKS	31 40
HH		iP	16 21 53
LOG		e	16 21 44
		epP	23 52
OV		iP	16 21 23.9
		ipP	23 33.7
PF		iP	16 21 24
		i(pP)	24 02
		eS	30 57
SH		iP	16 21 10
TUC		iP	16 21 26
		epP	23 37
Mar. 9			
COL		e(P)	16 31 43
Mar. 9			
COL		eP	18 38 30
Mar. 9			
COL		eP	19 09 09
Mar. 9, H = 19 44 13* 8°S, 124-1/2°E. Flores Sea region. Mag. 6-3/4.			
BC		e(P)	20 02 45
		eP'	03 13
BOZ		eSKKS	20 11 39
		eSS	21 07
		eSSS	26 31
		eL	32 10
CHI		e(SKKS)	20 14 02
		eSS	24 18
		eL	38 26
COL		e(P)	19 57 47
		e	57 57
		ePP	20 01 41
		e	01 56
		eS	08 47
		ePKKP	14 34
		eSS	15 18
		eSSS	20 48
		eL	25 10
COLU		iP'	20 04 00
		eSKS	11 14
		eSS	25 53
		eSSS	30 43
		eL	45 07
HH		e(P)	19 59 46
		eP'	20 03 03
		e(PP)	04 32
		ePKKP	13 28
LIN		ePKS	20 06 51
		e(SSS)	29 52
		eL	56 45
LOG		eP'	20 03 13
		ePP	04 48
		e(PPS)	16 23
OV		iP'	20 03 13.3
		iPKKP	13 22.0
PHIL		eSKSP	20 17 27
		ePPS	20 16
		ePPPS	21 59
		eSS	26 17
PF		iP'	20 03 14
		i	03 26
RC		e(P')	20 03 42
		ePP	05 24
		eSKS	10 12
		eSS	22 15
		eL	34 22
SJ		eP'	20 04 23
		e	05 25
		ePP	09 29
		e	11 08
		iPPP	12 50
		i	14 25
SJ		i	20 17 24
		eSKSP	19 42
		i	27 10
		eL	45 06
SH		e(P)	19 59 25
		e(P')	20 02 57
SIT		e(SKS)	20 09 02
		ePPS	12 14
		iSS	17 21
		iL	26 54
TUC		eP'	20 03 18
		e	03 44
		e(PP)	05 30
		ePKS	07 07
		eSKS	10 18
		ePS	15 10
		e(SS)	20 37
		eSSS	26 37
		eL	34 34
UK		e(S)	20 11 04
		eSS	18 52
		eL	30 19
WASH		i(P')	20 04 55
		i	05 36
		ePP	07 19
Mar. 9			
BC		e(P)	20 43 13
COL		eP	20 42 59
		e(pP)	43 29
OV		i(P)	20 43 16.0
		e	43 45
PF		i(P)	20 43 17
		i	43 45
TUC		e(P)	20 43 32
		e	43 46
Mar. 9			
OV		e(P)	20 41 08
PF		iP	20 41 09
SH		eP	20 39 19
		iP	39 27
		iL	39 59
Mar. 10, H = 02 04 19** Fiji Islands region. h about 600 km.			
BC		iP	02 15 51.7
COL		iP	02 16 18
		ipP	18 31
HH		eP	02 16 24
LOG		e(P)	02 16 16
		e	16 35
OV		iP	02 15 54.6
PF		iP	02 15 55
SH		iP	02 15 40
TUC		iP	02 15 57
		e	16 14
Mar. 10			
HH		eP	06 39 08
Mar. 10, H = 08 10 17 By BERK, 40.3°N, 124.3°W. Humboldt County, California. Felt. Mag. 4.1.			
HH		iP	08 12 55
OV		e(P)	08 14 38
SH		iP	08 10 43
		iS	11 42
TUC		eP	08 13 32
Mar. 10			
COL		e(P)	08 25 08
Mar. 10			
BH		iP	09 44 58
		iS	45 21
Mar. 10, H = 10 38 28* 37-1/2°N, 4°W. Southern Spain. Felt.			
BC		iP	10 50 53.8
		iPP	54 03.6
COL		eP	10 50 05
		iP	50 06
		eL	11 08 14
HH		iP	10 50 06
LOG		eP	10 50 23
OV		iP	10 50 51.2
		iPP	53 59.0
PF		iP	10 50 51
		iPP	53 58
SJ		iP	10 48 16
		i	48 35
SH		eP	10 50 59
TUC		iP	10 50 54
Mar. 10, H = 12 17 50** Solomon Islands. Depth slightly greater than normal.			
BC		eP	12 31 10

Date and Station		Phase (GCT)
		h m s
BC	epP	12 31 25
COL	iP	12 30 13
	epP	30 26
	i	30 44
HH	eP	12 31 15
OV	iP	12 31 12.5
PF	eP	12 30 13
	epP	30 28
SJ	eP'	12 37 16
Mar. 10		
COL	iP	15 07 46
	e	18 04
	e	24 30
	eL	27 12
SH	iP	15 09 14
Mar. 10		
COL	e(P)	15 14 32
Mar. 10		
COL	e(P)	15 46 35
Mar. 10, H = 15 52 25 By PAS, 34°04'N, 116°52W. Upper Mill Creek, California. Felt at Fawnskin, Hemet, and Riverside. Mag. 3.9.		
BC	iP	15 53 04.7
	i(S)	53 45.8
OV	iP	15 53 24.1
	i(S)	54 05.5
PF	iP	15 53 13
	i(S)	54 02
Mar. 10		
COL	iP	18 10 25
	e	10 52
Mar. 10		
COL	e(P)	18 57 19
Mar. 10		
SH	eP	20 39 19
	iP	39 27
	eL	39 59
Mar. 10, H = 21 57 25* 15°S, 167-1/2°E. New Hebrides Islands. h about 100 km. Mag. 7.2.		
BC	iP	22 10 15
	ipP	10 42
	iPP	13 49
	eSKS	20 36
	eS	20 53

Date and Station		Phase (GCT)
		h m s
BC	iPKKP	22 27 55
	eP'P'	35 56
BOZ	eP	22 10 41
	ePP	14 27
	eSKS	21 05
	ipS	22 14
	i(sS)	22 48
	eSS	28 00
	eSSS	31 58
	eL	35 10
BUT	e(P)	22 10 53
	e(PP)	15 23
	eS	21 41
	iPS	23 39
	eSS	28 17
	eSSS	32 17
	eL	36 08
CHI	ePP	22 16 30
	epPP	17 10
	iSKKS	23 22
	i(sS)	25 06
	ePS	26 02
	isPS	26 42
	eSS	32 02
	eSSS	36 58
	eL	43 20
COL	iP	22 10 01
	ipP	10 40
	isP	10 55
	i	11 27
	e(PP)	13 17
	iSKS	20 13
	isS	21 30
	iSS	26 23
	ePKKP	27 52
	e(SSS)	30 36
	eL	32 21
	iP'P'	36 02
	eP'P'P'	56 22
COLU	ePP	22 17 11
	eSKKS	23 40
	isS	25 48
	ePS	26 52
	esPS	27 30
	eSS	32 54
	isSS	33 57
	iSSS	37 38
	eL	47 22
HONO	iP	22 06 14
	ipP	06 44
	iPPP	09 28
	i(S)	14 09
	eSS	17 06
	eL	17 30
T_P =2 sec. A =1.5mm. T_S =12 sec. A =4.0mm. T_L =20 sec. $A_{max.}$=12.5mm.		
HH	eP	22 10 35
	ipP	11 06
	e(SKS)	20 57
	eS	21 49
	e(PKKP)	27 43

Date and Station		Phase (GCT)
		h m s
HH	eP'P'	22 35 34
LIN	ePP	22 15 42
	ePPP	18 36
	eSKS	21 52
	i(S)	22 57
	ePS	25 14
	eSS	30 46
	eL	41 16
LOG	iP	22 10 35
	epP	11 10
	ePP	14 13
	eSKS	20 55
	eS	21 27
	ipS	22 03
	e	22 19
	isS	22 33
	e(SS)	27 24
	eSSS	31 31
	eP'P'	35 47
	eL	36 19
NK	e(P')	22 16 33
	eSKKS	23 52
	iS	25 06
	i(PS)	27 34
	eL	45 01
OV	iP	22 10 17.6
	ipP	10 52.0
	iPP	13 52.7
	ePKKP	27 51
	iP'P'	35 56.8
PHIL	e(PP)	22 19 31
	ePPP	21 22
	i	22 43
	eSKKS	24 21
	iS	25 24
	i(sS)	26 34
	ePS	28 15
	eSS	33 59
	isSS	34 43
	i(SSS)	38 07
	eL	44 30
PF	iP	22 10 19
	ipP	10 46
	e(PP)	13 42
	eSKS	20 43
	iPKKP	27 50
	iP'P'	35 56
RC	eP	22 11 10
	iPP	15 10
	iSKS	21 32
	iS	22 36
	esS	23 34
	ePS	24 53
	eSS	30 09
	e(SSS)	32 52
	eP'P'	35 29
SLC	eP	22 10 31
	ePP	14 30
	iSKS	20 58
	i(S)	22 02
	iPS	22 31

Date and Station		Phase (GCT)
		h m s
SLC	ePPS	22 23 36
	eSS	27 30
	eSSS	31 48
	eL	35 54
SJ	eP'	22 16 24
	iP'	16 25
	iPP	18 38
	isPP	19 28
	iPKS	19 44
	ipPKS	20 14
	iSKS	23 48
	eS	26 14
	iPS	29 09
	ePPS	30 28
	iSS	36 35
	iL	47 34
SH	iP	22 09 57
	eSKS	20 10
	esS	21 08
	ePKKP	28 00
	eP'P'	36 01
SIT	iP	22 09 57
	ipP	10 28
	i(sP)	11 04
	i(PP)	14 29
	iSKS	20 07
	iS	20 16
	iSS	26 10
	iL	32 56
TUC	iP	22 10 25
	ipP	11 00
	isP	11 17
	iPP	13 59
	isPP	14 52
	eSKS	20 41
	iS	21 17
	ipS	21 53
	isS	22 18
	e(PKKP)	27 22
	eSS	27 30
	eSSS	31 07
	eL	35 21
	iP'P'	35 53
UK	eP	22 09 51
	ePP	13 17
	eS	20 01
	esS	21 01
	e(PS)	21 58
	eSS	26 06
	eL	31 30
WASH	iP'	22 16 06
	i	16 20
	i	16 27
	i(PKKP)	27 08
	eSKKP	30 08
	i	31 11
	eSS	34 10
	eL	42 32

Date and Station	Phase	Phase (GCT) h m s
Mar. 10, H = 22 03 35* 42°N, 139-1/2°E. Near south coast of Hokkaido, Japan. Felt on southern Hokkaido and northern Honshu. Mag. about 7.		
BC	i(P)	22 15 18
COL	i(P)	22 12 00
	iS	18 20
HH	iP	22 14 41
SH	iP	22 14 47
TUC	iP	22 16 03
Mar. 10		
COL	iP	23 09 47
Mar. 11		
TUC	e(P)	03 18 11
Mar. 11		
COL	e(P)	06 00 38
Mar. 11, H = 09 08 15* 14°S, 70-1/2°W. Central Peru.		
COL	eP	09 21 30
HH	iP	09 19 31
	i	20 18
OV	iP	09 18 45.6
SJ	iP	09 14 33
TUC	eP	09 18 10
Mar. 11		
COL	e(P)	12 25 35
HH	eP	12 28 01
Mar. 11		
BC	eP	14 23 53
OV	eP	14 23 49
Mar. 11		
TUC	e(P)	16 02 25
Mar. 11		
HH	e(P)	18 27 47
Mar. 11		
BC	iP	18 55 31
	iS	55 50
OV	iP	18 55 53.6
	i	56 05.8
TUC	e(P)	18 56 56
	e	58 22
Mar. 12		
COL	eP	06 13 13
	i	13 21
	i	13 50
HH	eP	06 13 13
OV	iP	06 12 49.4
TUC	eP	06 12 42
Mar. 12		
COL	e(P)	06 18 14
	e	18 43
Mar. 12		
HH	iP	06 38 40
	i(pP)	39 15
Mar. 12		
COL	e(P)	08 53 20
HH	iP	08 49 18
Mar. 12		
COL	eP	09 08 07
	e	08 21
HH	eP	09 09 11
Mar. 12, H = 14 52 16* 27°N, 94°E. Assam-India border.		
BC	ePP	15 11 25
COL	iP	15 04 04
	e(PP)	06 32
	ePP	06 55
	iS	13 44
	e(PKKP)	22 55
	eL	23 02
HH	iP	15 06 04
	e	09 50
	iPP	10 09
LOG	ePP	15 10 45
OV	eP'	15 10 28
	iPP	11 12.7
	e(S)	18 25
SH	eP	15 06 00
	e(PP)	10 34
TUC	eP'	15 11 03
	ePP	12 01
	iPP	12 04
Mar. 12		
COL	eP	15 18 31
OV	i	15 22 07.8
Mar. 12		
COL	e(P)	15 57 24
	e	57 42
Mar. 13, H = 00 21 04* 10°S, 75°W. Central Peru. h about 100 km.		
BC	iP	00 31 00
COL	iP	00 34 04
	ipP	34 37
	ePP	37 45
HH	iP	00 31 54
LOG	e(P)	00 32 17
OV	iP	00 31 02.2
PF	iP	00 30 57
SH	iP	00 31 48
TUC	iP	00 30 25
	epP	30 56
Mar. 13		
OV	i(P)	01 13 46.1
	e	14 31
Mar. 13, H = 04 02 52* 24°S, 68°W. Northern Argentina-Chile border. Felt in Chile. h about 150 km.		
BC	eP	04 14 19
	epP	14 48
HH	iP	04 15 05
	epP	15 44
OV	iP	04 14 20.8
	ipP	14 55.7
PF	eP	04 14 17
	epP	14 51
SH	eP	04 14 55
	epP	15 33
TUC	eP	04 13 49
	epP	14 23
Mar. 13		
COL	eP	07 02 39
	iP	02 40
Mar. 13		
BC	eP	09 34 11
	epP	34 22
	e(S)	41 16
COL	eP	09 38 50
	e	39 41
	eL	10 01 00
HH	eP	09 35 40
	e	35 49
LOG	e(P)	09 43 47
OV	iP	09 34 14.8
	e	42 19
TUC	eP	09 33 20
	e(S)	38 57
	eL	41 35
Mar. 13		
OV	i(P)	10 42 44.7
Mar. 13		
SJ	iP	16 35 20
Mar. 13		
BC	e(P)	17 20 33
COL	eP	17 16 52
	e	17 03
HH	iP	17 19 44
SH	iP	17 19 43
Mar. 13, H = 17 44 52* 21-1/2°S, 179°W. Fiji Islands. h about 550 km.		
BC	iP	17 56 28.8
	iSKS	18 05 59.4
	iS	06 08.4
COL	eP	17 56 54
	iP	56 55
	eSKS	18 06 27
	eS	06 52
COLU	i	18 06 18
	e	14 40
HH	iP	17 57 01
	eS	18 06 38
OV	iP	17 56 32.2
	ipP	58 42.1
SH	iP	17 56 18
TUC	eP	17 56 34
	epP	58 43
Mar. 13		
OV	iP	22 03 55.6
Mar. 13		
PF	e(P)	22 20 14
Mar. 13		
COL	eP	23 49 58
Mar. 14		
COL	eP	00 33 37
	e	33 48
PF	e(P)	00 33 53
Mar. 14		
COL	e(P)	01 49 13

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Date and Station		Phase (GCT)
		h m s
Mar. 14, H = 09 46 55* 51°N, 7°E. West Central Germany. Minor damage.		
COL	eP	09 57 25
HH	eP	09 58 02
SH	eP	09 58 54
TUC	eP	09 59 13
Mar. 14		
BC	iP	12 34 25
COL	eP	12 32 01
	e	33 14
HH	iP	12 34 03
	i	35 11
PF	iP	12 34 22
	i	34 28
	i	34 35
	i	35 40
SH	iP	12 33 47
	i	35 04
TUC	eP	12 33 54
	e	34 16
Mar. 14		
COL	e(P)	13 34 06
Mar. 14		
COL	e(P)	14 05 03
TUC	e(P)	14 00 03
Mar. 14		
COL	eP	16 06 22
Mar. 14		
COL	eP	20 55 31
OV	e(P)	20 55 09
	e	55 56
PF	iP	20 55 05
TUC	i(P)	20 55 08
Mar. 14		
HH	iP	22 52 09
PF	iP	22 51 21
	i	51 52
Mar. 15		
BH	iP	04 35 47
	iS	36 08
Mar. 15		
COL	e(P)	04 45 57
Mar. 15		
COL	e(P)	13 00 22

Date and Station		Phase (GCT)
		h m s
Mar. 15, H = 13 50 43 By PAS, 35°01'N, 120°09'W. Near Santa Marie, California. Felt at Los Alamos. Mag. 3.8.		
BC	e(P)	13 52 05
OV	eP	13 52 10
	i	52 21
	i	53 28.4
PF	eP	13 52 07
	i	52 25
	e	53 33
Mar. 15		
OV	eP	15 01 46
	e	02 00
PF	iP	15 01 25
Mar. 15		
COL	e(P)	16 34 13
	e	34 24
Mar. 15		
COL	eP	18 25 40
	iP	25 41
	i(S)	26 37
	iL	26 47
HH	iP	18 29 58
SH	e(P)	18 30 21
TUC	e(P)	18 31 31
Mar. 15, H = 20 36 10** Off coast of Oaxaca, Mexico.		
BC	eP	20 41 43
	ePcS	49 23
COL	eP	20 46 21
	e	46 28
	eL	21 09 00
HH	e(P)	20 43 11
OV	iP	20 41 45.8
	i	47 47.5
PF	eP	20 41 40
	eScP	49 10
	ePcS	49 29
TUC	eP	20 40 51
	e	42 06
	eL	46 37
Mar. 16		
COL	eP	10 25 29
Mar. 16		
COL	eP	12 31 05

Date and Station		Phase (GCT)
		h m s
Mar. 16		
HH	iP	12 46 20
	iS	46 29
Mar. 16, H = 13 56 53* 31°N, 97°E. Sikang Province, China.		
COL	iP	14 08 18
	i	08 26
	i	10 34
	i	10 42
	eL	35 46
HH	eP	14 10 23
	i	10 31
Mar. 16		
COL	eP	14 15 46
Mar. 16		
COL	eP	16 00 08
OV	iP	15 59 49.2
	e	16 01 50
PF	iP	15 59 48
	i	16 01 48
Mar. 16		
HH	iP	17 46 53
	e	51 26
OV	iP	17 45 58.2
TUC	eP	17 45 37
Mar. 16		
OV	eP	17 51 11
SJ	iP	17 43 12
	iS	43 30
	i	43 32
	iL	43 56
Mar. 16		
COL	eP	18 54 02
	e	54 09
Mar. 16		
COL	eP	19 35 12
Mar. 16, H = 19 35 31* 52-1/2°N, 167-1/2°W. Aleutian Islands region.		
BC	iP	19 43 12.3
COL	eP	19 39 16
	iP	39 17
	iL	44 01
HH	iP	19 42 16
	iPcP	44 54
LOG	e(P)	19 43 54
OV	iP	19 43 10.6

Date and Station		Phase (GCT)
		h m s
PF	iP	19 43 15
SJ	iP	19 47 55
	i	48 07
SH	iP	19 42 08
	ePcP	44 50
SIT	e(P)	19 40 04
	eS	43 35
	eL	46 02
TUC	eP	19 43 51
	iP	43 52
	e	44 05
Mar. 16		
COL	eP	21 35 25
Mar. 16		
OV	eP	22 23 25
Mar. 16		
COL	iP	23 52 17
Mar. 17		
HH	iP	02 37 24
	iS	37 33
Mar. 17		
COL	eP	03 51 46
Mar. 17		
COL	eP	03 59 44
	e	04 02 44
OV	eP	03 59 05
	e	04 02 05
TUC	eP	03 59 04
Mar. 17, H = 04 27 40* 31°N, 97°E. Sikang Province, China.		
COL	iP	04 38 58
	ePP	41 41
	iS	48 22
	eL	57 06
HH	eP	04 41 03
LIN	e(PP)	04 47 41
	ePS	55 36
	eSSS	05 07 16
	eL	22 41
OV	eP'	04 45 18
	iPP	46 13.0
SH	ePP	04 45 10
TUC	eP'	04 46 09
	e	46 34
	ePP	46 54
	eL	05 31 57
Mar. 17		
COL	e(P)	05 04 38

Date and Station	Phase	Phase (GCT) h m s
Mar. 17		
COL	eP	05 12 58
Mar. 17		
COL	e(P)	05 40 27
TUC	e(P)	05 34 33
Mar. 17		
COL	eP	05 47 08
	eL	06 15 38
Mar. 17		
COL	e(P)	08 33 33
TUC	e(P)	08 34 26
Mar. 17		
COL	e(P)	09 10 16
	e	10 23
Mar. 17		
OV	eP	10 04 43
SIT	e	10 42 30
	eL	42 45
TUC	e(P)	10 04 17
	eL	32 53
Mar. 17		
COL	i(P)	10 15 24
	eL	47 28
Mar. 17		
HH	e(P)	12 04 21
Mar. 17		
OV	iP	13 14 29.0
	e	14 48
Mar. 17, H = 15 47 36** Halmahera Islands region.		
COL	eP	16 00 31
	ePP	04 07
	eSS	17 36
HH	eP'	16 06 00
Mar. 17		
COL	eP	19 57 53
	iP	57 54
Mar. 17		
COL	e(P)	23 36 39
HH	e(P)	23 38 24
SJ	e(P')	23 44 34
Mar. 18		
COL	eP	00 18 12
Mar. 18		
COL	eP	01 47 10
Mar. 18		
COL	i(P)	05 05 15
Mar. 18		
COL	i(P)	06 39 11
Mar. 18		
TUC	eP	06 58 09
Mar. 18		
HH	e(P)	09 21 36
Mar. 18		
TUC	iP	09 19 53
Mar. 18, H = 09 18 16* 9-1/2°N, 127°E. Near east coast of Mindanao, Philippine Islands		
COL	eP	09 30 25
	i	30 39
HH	e(P)	09 32 13
Mar. 18		
COL	eP	09 36 18
	e	40 28
Mar. 18		
HH	i(P)	11 03 42
Mar. 18		
COL	eP	11 43 25
HH	iP	11 44 24
Mar. 18		
COL	e	12 13 42
HH	eP	12 12 07
Mar. 18		
COL	eP	12 31 56
	i	32 02
HH	e(P)	12 33 07
SH	eP	12 32 36
Mar. 18		
COL	eP	13 04 57
Mar. 18		
HH	e(P)	19 39 57
	i	40 07
	eL	43 18
Mar. 18		
BH	iP	21 22 23
	iS	22 53
Mar. 18		
COL	e(P)	22 39 22
Mar. 19, H = 03 07 28* 35-1/2°N, 35°W. North Atlantic Ocean.		
BC	eP	03 18 01
COL	eP	03 18 28
COL	e	03 18 56
	eL	41 25
COLU	e	03 13 08
	eL	23 23
HH	eP	03 17 21
LOG	eP	03 17 27
PF	eP	03 17 54
SJ	eP	03 14 00
	eL	22 39
SH	eP	03 18 21
TUC	eP	03 17 57
Mar. 19		
COL	eP	06 04 15
HH	iP	06 06 35
Mar. 19		
BC	iP	07 34 43.4
COL	eP	07 37 39
HH	eP	07 35 58
PF	iP	07 39 44
SH	eP	07 35 15
TUC	iP	07 34 18
Mar. 19, H = 09 29 35* 21-1/2°S, 33-1/2°E. Central Mozambique.		
BC	eP'	09 49 27
COL	eP'	09 49 02
	ePP	51 42
HH	eP'	09 49 08
	e(PP)	52 52
LOG	eP'	09 49 11
PF	eP'	09 49 23
	iP'	49 26
	i	49 43
SH	eP'	09 49 29
TUC	eP'	09 49 21
	i	50 05
	eL	10 46 50
Mar. 19		
COL	eP	14 29 19
HH	eP	14 31 04
SH	eP	14 30 44
Mar. 19		
COL	eP	15 39 49
Mar. 19		
HH	e(P)	16 45 37
Mar. 19		
TUC	eP	19 12 43
Mar. 19		
COL	iP	20 10 51
	eL	12 00
Mar. 19		
HH	eP	20 20 10
	i	21 23
Mar. 19, H = 20 28 55* 56°N, 160-1/2°E. Central Kamchatka. Mag. 6-1/2 - 6-3/4.		
BC	iP	20 38 52.2
BOZ	e(P)	20 38 11
	eS	45 45
	eL	52 43
COL	iP	20 34 31
	i	35 02
	iPP	35 21
	ePcP	37 56
	eS	39 00
	eL	40 19
COLU	e	20 51 18
	eL	21 07 20
HH	iP	20 37 49
	iPcP	39 10
LIN	eSS	20 52 15
	eL	57 51
LOG	eP	20 38 32
	iP	38 33
	ePcP	39 59
	eL	54 22
PF	iP	20 38 54
	i	39 29
	eS	47 01
RC	iP	20 38 57
	ePP	41 06
	e	42 26
	e	56 38
SLC	e	20 43 36
	eL	55 58
SJ	iP	20 42 24
	e(PP)	45 51
	ePPP	48 13
	eS	51 51
	eSS	59 14
	eSSS	21 04 30
	eL	08 13

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Date and Station		Phase (GCT)
		h m s
SH	iP	20 37 57
SIT	eP	20 35 39
	e	36 24
	e	36 41
	iPP	37 01
	eS	41 21
	e	42 20
	eL	43 09
TUC	iP	20 39 25
	i	39 40
	eL	21 04 00
Mar. 19		
BC	iP	21 48 18.0
Mar. 20		
PF	eP	00 16 22
Mar. 20		
BC	eP	00 27 13
PF	eP	00 27 06
Mar. 20		
SH	eP	03 21 08
Mar. 20		
COL	iP	06 52 38
	e	52 44
Mar. 20		
COL	eP	09 08 20
	e	08 34
PF	eP	09 12 42
Mar. 20		
TUC	eP	15 46 36
Mar. 20		
COL	eP	19 48 20
	i	48 28
HH	e(P)	19 51 30
Mar. 20		
BC	eP	20 20 37
PF	iP	20 20 39
SH	iP	20 20 27
TUC	iP	20 20 41
Mar. 20		
COL	eP	21 40 22
Mar. 21		
COL	eP	02 10 00
Mar. 21		
TUC	i(P)	05 03 25
Mar. 21		
PF	eP	06 38 00
	e	40 10

Date and Station		Phase (GCT)
		h m s
Mar. 21		
BC	eP	06 50 46
HH	eP	06 50 39
Mar. 21		
COL	eP	10 49 37
Mar. 21		
HH	eP	13 19 44
Mar. 21		
BC	eP	14 22 36
PF	eP	14 22 33
SH	iP	14 22 54
	e	23 06
TUC	eP	14 22 10

Mar. 21, H = 16 20 48* 54°N, 169°W. Fox Islands, Aleutian Islands. Depth slightly greater than normal.

Date and Station		Phase (GCT)
Mar. 21		
BC	iP	16 28 37.2
	ipP	28 47.6
COL	eP	16 24 28
	i	24 39
	e(S)	27 52
	eL	28 42
HH	iP	16 27 36
	i	30 27
PF	iP	16 28 38
	ipP	28 51
SH	eP	16 27 32
TUC	iP	16 29 17
Mar. 21		
HH	iP	18 01 28
Mar. 21		
COL	eP	18 14 00
HH	eP	18 16 57
PF	eP	18 17 58
SH	iP	18 16 50
Mar. 21		
COL	e(P)	19 21 18
Mar. 21		
BH	iP	20 03 08
	eS	03 52
Mar. 21		
PF	eP	21 50 47

Date and Station		Phase (GCT)
		h m s
Mar. 21		
COL	eP	23 12 08
Mar. 22		
BC	eP	04 59 47
COL	eP	04 59 56
HH	eP	05 00 16
PF	eP	04 59 50
TUC	eP	04 59 54
Mar. 22		
COL	e(P)	06 55 35
Mar. 22		
TUC	e(P)	08 33 37
Mar. 22		
COL	eP'	10 51 41
	iP'	51 42
	e	52 33
HH	eP'	10 51 55
	i	52 55
TUC	eP'	10 52 08
Mar. 22		
COL	eP	14 44 43
Mar. 22		
COL	eP	18 27 05

Mar. 22, H = 19 36 52* 13°S, 172-1/2°W. Samoa Islands.

Date and Station		Phase (GCT)
BC	iP	19 48 23
COL	iP	19 49 01
	i	49 13
HH	eP	19 48 59
LOG	eP	19 48 51
PF	iP	19 48 26
SH	iP	19 48 09
TUC	iP	19 48 30
Mar. 22		
COL	e(P)	21 13 21
	i	15 04
Mar. 23		
COL	eP	00 42 40
	eL	01 04 16
Mar. 23		
BC	eP	05 09 45
COL	eP	05 07 55
HH	iP	05 09 12

Date and Station		Phase (GCT)
		h m s
PF	eP	05 09 47
SH	iP	05 08 56
Mar. 23		
COL	e(P)	07 13 25
Mar. 23		
COL	e(P)	07 18 51
Mar. 23		
COL	eP	09 09 40
HH	iP	09 08 50
SH	iP	09 08 46
TUC	eP	09 08 32
Mar. 23		
COL	iP	09 48 36
Mar. 23		
COL	e(P)	13 20 07
Mar. 23		
HH	eP	17 14 54
	eS	14 34

Mar. 23, H = 21 38 42* 32°S, 179°W. Kermadec Islands. h about 225 km. Mag. 7.0.

Date and Station		Phase (GCT)
BC	iP	21 51 26
	e(SKS)	22 01 41
	eS	02 11
	iPKKP	08 54
	eSKPP'	20 21
BOZ	eP	21 52 02
	ePP	56 07
	eSKS	22 02 24
	eS	03 19
	iPS	05 12
	eSS	10 02
	eL	19 30
BUT	eSKS	22 02 17
	ePS	05 03
	eSS	09 36
	eL	18 24
CHI	ePP	21 57 33
	eSKKS	22 04 11
	eS	05 05
	ePS	07 16
	eSS	12 59
	eSSS	17 01
	eL	21 55
COL	eP	21 52 03
	iP	52 05
	i	52 28
	ipP	53 07
	ePP	56 06
	i	56 19
	iSKS	22 02 18

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Date and Station		Phase (GCT)
		h m s
COL	iS	22 03 18
	epS	04 19
	iPS	05 15
	iPPS	06 26
	iPKKP	08 27
	e(SS)	09 46
	esSS	11 29
	eP'P'	16 47
	eL	19 10
	eP'P'P'	37 39
HONO	eP	21 48 07
	eL	22 03 45
HH	iP	21 52 02
	ePP	55 57
	eSKS	22 02 17
	ePKKP	08 30
	eP'P'	16 28
LOG	eP	21 51 52
	esP	53 20
	ePP	55 47
	eSKS	22 02 00
	i(SKKS)	02 12
	eS	02 35
	epS	03 48
	eSS	09 20
	eL	18 30
PHIL	eSKS	22 03 49
	ePS	08 30
	iSS	14 51
	eL	29 28
PF	iP	21 51 29
	isP	52 38
	eSKS	22 01 43
	iS	02 14
	ePS	03 56
	iPKKP	08 52
RC	ePP	21 56 06
	ePPP	58 15
	eSKS	22 02 37
	ePS	05 29
	e(SS)	11 06
	eL	18 18
SLC	e(P)	21 57 11
	ePP	55 38
	eSKS	22 01 30
	eS	02 50
	epS	03 49
	ePS	04 30
	eSS	09 18
	eL	18 22
SJ	iP'	21 57 11
	epP'	58 11
	i	22 00 27
	eSKS	03 46
	iS	06 12
	ipS	06 51
	iPS	08 10
	iPPS	09 16
	e(SS)	15 00
	e(SSS)	19 24
	eL	27 16

Date and Station		Phase (GCT)
		h m s
SH	iP	21 15 19
	eSKS	22 01 27
	eS	01 55
	esS	03 24
SIT	ePP	21 55 40
	eSKS	22 01 52
	iSKS	02 05
	eS	02 52
	esS	04 28
	iPS	04 34
	iPPS	05 44
	eL	18 28
TUC	iP	21 51 29
	epP	52 25
	esP	52 50
	ePP	55 05
	esPP	56 22
	e(PPP)	57 21
	eSKS	22 01 40
	eS	02 13
	isS	03 20
	ePS	03 42
	ePKKP	08 53
	eSSS	12 11
	eP'P'	17 04
	eL	20 44
UK	eP	21 15 18
	esP	52 31
	eSKS	22 01 16
	eS	01 40
	esS	03 00
	eSS	07 36
	eL	14 47
Mar. 23		
COL	eP	22 29 41
Mar. 24, H = 00 17 36* 10-1/2°S, 166°E. Santa Cruz Islands. h about 150 km.		
BC	iP	00 30 14.4
	eS	40 42
	esS	41 12
COL	iP	00 29 48
	ipP	30 31
	i	31 17
	ePP	33 06
	epPP	33 48
	iS	39 52
	epS	40 24
	ePS	40 45
	eSS	45 17
	ePKKP	48 18
	eP'P'	56 15
	eSKPP'	59 26
HH	iP	00 30 31
	epP	31 09
	eSKS	40 45
	ePKKP	47 40
	eP'P'	56 54
LOG	iP	00 30 31

Date and Station		Phase (GCT)
		h m s
LOG	epP	00 31 11
	ePP	34 09
	eS	41 15
PF	iP	00 30 18
	ipP	30 58
	iPP	33 45
	iS	40 49
	eSP	41 58
	i(SS)	48 01
	eL	56 09
SLC	eP	00 30 32
	eS	41 14
	eSP	42 12
	ePS	42 27
	eL	55 11
SJ	iP'	00 36 32
	ipP'	37 16
	ePP	38 42
	iPKS	39 52
SH	iP	00 29 53
	epP	30 32
	eS	39 59
SIT	i	00 39 57
	eL	54 18
TUC	iP	00 30 26
	epP	30 58
	i(pP)	31 08
	esP	31 17
	ePP	34 00
	eS	41 09
	ePS	42 12
	eP'P'	56 02
WASH	iPP	00 37 23
Mar. 24		
COL	eP	06 13 35
Mar. 24		
COL	iP	07 07 57
Mar. 24		
COL	eP	14 45 02
Mar. 24		
COL	iP	14 59 40
Mar. 24, H = 20 52 37* 13°N, 88-1/2°W. Off southern coast of El Salvador. h about 100 km. Mag. 5-1/2.		
BH	iP	20 54 57
BC	iP	20 59 08.4
	ipP	59 37
	iScS	21 05 30.0
	iScP	09 32.0
BOZ	e(P)	21 00 03
	eScS	05 35
	eL	08 27

Date and Station		Phase (GCT)
		h m s
CHI	eP	20 58 41
	ePP	59 20
	esS	21 03 48
	eL	04 24
	eScS	05 02
COL	eP	21 03 12
	iP	03 13
	ipP	03 31
	isP	03 45
	eScS	07 45
	eL	21 06
COLU	iP	20 57 28
	ipP	57 45
	iS	21 01 20
	eL	02 17
HH	eP	21 00 16
	iPcP	02 14
	eS	05 59
	eScP	10 12
LIN	e(P)	20 58 38
	eS	21 03 30
	eL	05 48
LOG	eP	20 59 27
	epP	59 41
	ePcP	21 02 06
	eScS	05 22
	eS	08 10
	eScP	09 16
PF	iP	20 59 03
	iScS	05 28
	eScP	09 24
RC	eP	20 59 13
	epP	59 28
	esP	59 44
	esPP	21 01 08
	eS	04 46
	eL	07 45
SLC	eScS	21 05 14
SJ	eP	20 57 26
	ipP	57 45
	iPP	58 18
	i	58 37
	eS.	21 01 40
	eL	04 20
SH	eP	21 00 04
	i	21 01 12
	i(S)	05 55
TUC	eP	20 58 25
	iP	58 27
	ipP	58 41
	ePP	59 29
	e(sS)	21 03 43
	eScS	05 15
WASH	iP	20 58 22
	i	58 38

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Date and Station		Phase (GCT)
		h m s
WASH	iS	21 02 58
	eScS	05 06
Mar. 24		
COL	eP	21 39 53
Mar. 24		
COL	e(P)	22 09 51
	eL	20 38
HH	e(P)	22 13 09
Mar. 24		
HH	eP	23 50 23
	iS	50 50
Mar. 25		
TUC	eP	00 24 54
Mar. 25		
COL	e(P)	02 16 57
Mar. 25		
COL	eP	02 28 40
Mar. 25		
COL	eP	05 37 29
Mar. 25		
BC	eP	08 54 44
Mar. 25		
COL	i(P)	13 27 48
Mar. 25		
HH	e(P)	14 46 10
Mar. 25		
BC	eP	15 39 53
COL	eP	15 43 58
HH	iP	15 41 01
LOG	eP	15 40 19
	e	40 30
PF	iP	15 39 48
SJ	i(P)	15 38 34
TUC	eP	15 39 11
	e	39 28
Mar. 25		
HH	e(P)	18 02 41
Mar. 25		
COL	eP	18 27 52
	i	28 04
HH	iP	18 30 49
Mar. 25, H = 18 25 30** Molucca Passage.		
BC	eP'	18 44 09
COL	iP	18 38 10
COL	e	18 38 49
HH	eP'	18 43 59
PF	eP'	18 44 09
SJ	iP'	18 45 54
SH	eP	18 40 56
	e	43 50
TUC	eP'	18 45 04
Mar. 25, H = 20 09 52** Fiji Islands region. h about 600 km.		
BC	iP	20 21 18.2
COL	eP	20 21 42
	iP	21 43
HH	iP	20 21 50
PF	iP	20 21 21
SH	iP	20 21 07
TUC	iP	20 21 24
Mar. 25		
COL	eP	22 52 31
	e	53 28
Mar. 26		
PF	iP	00 27 01
	i	27 15
	e	28 12
Mar. 26		
BC	eP	00 47 27
HH	eP	00 47 18
	e	47 46
Mar. 26		
COL	iP	01 13 29
	i(S)	14 41
Mar. 26		
COL	e(P)	04 54 16
	e	55 07
	i	55 10
Mar. 26		
COL	e(P)	05 36 14
TUC	e(P)	05 40 55
Mar. 26		
PF	iP	06 08 46
	i	09 02
	e	10 04
Mar. 26		
HH	eP	08 31 50
	i(S)	32 26
	eL	32 44
Mar. 26		
HH	eP	08 41 29
	e	41 42
	eS	42 25
	eL	42 36
Mar. 26		
COL	eP	09 29 52
Mar. 26		
COL	e(P)	11 19 11
HH	iP	11 16 36
SJ	eP	11 09 22
	iP	09 28
	i	09 48
	iS	10 06
	i	10 21
	iL	10 53
TUC	eP	11 15 43
WASH	iP	11 13 01
Mar. 26		
HH	eP	16 55 28
	eL	58 47
Mar. 26		
PF	eP	19 35 30
TUC	iP	19 35 32
Mar. 26		
COL	eP	23 02 12
	iP	02 15
Mar. 27		
COL	eP	06 07 49
	iP	07 53
PF	eP	06 07 17
Mar. 27		
HH	i(P)	09 13 32
COL	iP	09 09 09
	i(S)	10 01
	iL	10 17
Mar. 27		
COL	iP	09 57 19
	e	57 32
Mar. 27		
PF	iP	10 13 29
	i	13 41
	e	14 37
Mar. 27		
COL	eP	11 34 58
	e	35 05
Mar. 27, H = 12 01 40** Northern Gulf of California.		
BC	eP	12 03 37
	i	05 59.4
COL	eP	12 09 40
HH	eP	12 06 15
LOG	eP	12 04 53
	eL	08 51
PF	iP	12 03 36
	i	03 44
	eL	05 27
	iL	05 45
RC	eP	12 05 48
	eL	09 25
SH	eP	12 05 09
	i	05 19
TUC	iP	12 02 42
	i	02 48
	i	02 55
	iS	03 15
	eL	03 30
WASH	e	12 18 26
	eL	20 40
Mar. 27		
TUC	iP	12 42 40
	e(S)	42 52
	e	42 54
	eL	43 43
Mar. 27, H = 13 45 24** New Hebrides Islands.		
BC	iP	13 58 30.5
COL	iP	13 58 20
	ipP	58 32
HH	eP	13 58 54
PF	iP	13 58 33
	ipP	58 46
SH	iP	13 58 12
TUC	eP	13 58 39
	epP	58 52
Mar. 27		
PF	e(P)	15 19 32
	i	20 27
Mar. 27		
TUC	e(P)	15 31 06
Mar. 27		
BC	iP	15 52 51.8
	i	53 52.6
HH	eP	15 52 50

Date and Station	Phase	Phase (GCT) h m s
PF	iP	15 52 56
	i	53 09
	e	53 44
	i	54 03
SH	iP	15 52 53
TUC	eP	15 54 34
	e	56 35
Mar. 27		
BC	i(P)	19 13 44.2
COL	eP	19 09 47
	e	10 16
HH	iP	19 12 50
PF	iP	19 13 46
	i	14 16
SH	eP	19 12 52
TUC	eP	19 14 15
	e	14 49
Mar. 27		
COL	eP	22 13 57
	e	14 02
	i(pP)	15 24
Mar. 27		
COL	iP	23 24 38
Mar. 28		
SJ	e(P)	01 53 17
	i	58 25
Mar. 28, H = 01 55 08* 36-1/2°S, 177°E. Off coast of North Island, New Zealand. Felt. h about 300 km.		
BC	eP	02 08 05
	ePP	12 01
	eS	19 04
COL	eP	02 08 44
	eP'	12 54
HH	eP	02 08 42
LOG	ePP	02 12 31
PF	eP	02 08 07
	i	08 26
	iPP	12 08
SJ	iP'	02 13 28
	i	13 48
SH	eP	02 07 58
	ePP	11 53
TUC	iP	02 08 06
	ePP	12 04
	eS	19 15
	ePKKP	24 49
Mar. 28		
TUC	eP	09 01 06
Mar. 28, H = 10 03 11* 17-1/2°S, 167°E. New Hebrides Islands.		
BC	iP	10 16 17.9
COL	iP	10 16 08
HH	eP	10 16 09
LOG	ePP	10 20 43
PF	iP	10 16 21
	i	16 53
	ePP	20 11
SJ	e(P')	10 22 08
	e(PP)	25 36
	ePPP	27 04
	eSKSP	34 03
	eSS	41 08
SH	iP	10 16 01
	e	20 53
TUC	iP	10 16 26
	ePP	19 51
	ePPP	21 38
	e	25 42
	e(S)	26 28
	e(SS)	31 48
	eL	43 16
Mar. 28		
COL	eP	10 56 26
	e(pP)	57 25
	eL	11 02 14
Mar. 28		
COL	eP	13 51 38
	i	51 45
	e(S)	52 37
	iL	53 38
HH	eP	13 56 16
SH	eP	13 56 42
Mar. 28		
COL	iP	14 41 58
	i	42 04
HH	iP	14 41 10
Mar. 28, H = 18 26 59** Off east coast of Honshu, Japan.		
COL	eP	18 36 02
	i	36 16
	e	39 48
HH	eP	18 38 34
SH	eP	18 38 30
Mar. 28		
COL	eP	19 58 31
	i	58 41
	e	59 43
HH	eP	20 01 49
SH	eP	20 01 49
Mar. 28		
PF	eP	20 47 48
	i	47 54
	i	47 59
Mar. 28		
COL	eP	22 45 09
Mar. 29		
COL	iP	00 40 00
	e	40 24
Mar. 29		
COL	e(P)	04 09 50
	e	11 03
	e	11 20
Mar. 29		
SH	eP	05 35 12
	i	35 31
	i	35 51
Mar. 29, H = 05 55 10* 41°S, 73°W. Southern Chile. Felt. h about 100 km.		
BC	iP	06 07 41.7
COL	iP	06 13 48
HH	eP	06 08 28
PF	iP	06 07 41
	ipP	08 06
SJ	iP	06 05 06
	ipP	05 29
SH	iP	06 08 14
TUC	iP	06 07 17
	ipP	07 41
Mar. 29, H = 06 12 27** Near Verkhoyanski Mountains, Siberia.		
BC	iP	06 23 10.3
COL	iP	06 18 38
	eL	29 26
HH	iP	06 21 55
	i	21 59
PF	iP	06 23 11
	i	23 15
SH	iP	06 22 23
SH	i	06 22 28
TUC	eP	06 23 40
Mar. 29		
COL	e(P)	09 46 27
	i	46 33
Mar. 29		
COL	e(P)	10 51 11
Mar. 29		
COL	e(P)	13 13 03
	i	13 09
Mar. 29		
COL	e(P)	14 58 25
Mar. 29		
HH	iP	18 06 43
Mar. 29, H = 23 39 29 By PAS, 33°17'N, 116°02'W. West shore of Salton Sea. Felt at Campo, Ramona, San Diego, and Valley Center. Mag. 4.4.		
BC	iP	23 40 24.0
	iS	41 00.2
SH	eP	23 44 05
TUC	iP	23 40 37
	i	40 42
	eS	40 53
	e	41 03
	eL	41 28
Mar. 30		
HH	eP	00 40 13
Mar. 30		
COL	eP	02 19 06
	e	19 13
Mar. 30		
COL	iP	02 48 23
	i	48 30
	e	48 51
Mar. 30		
COL	eP	04 37 06
	iP	37 07
Mar. 30		
COL	iP	06 20 00
Mar. 30		
COL	eP	07 50 06
HH	eP	07 47 44
SJ	iP	07 39 25
	iS	39 36
	iL	39 46

Date and Station		Phase	(GCT) h m s
TUC		eP	07 47 02
Mar. 30 BC		iP	09 19 54.3
Mar. 30 COL		eP	11 59 22
Mar. 30 BC		iP	12 12 25.1
Mar. 30 COL		eP	12 24 35
HH		eP	12 26 39
Mar. 30 COL		eP	16 25 18
		iP	25 20
HH		eP	16 27 27
Mar. 31, H = 01 39 08** Tonga Islands.			
BC		iP	01 51 34.0
COL		iP	01 52 09
		e	52 31
HH		eP	01 52 09
		e	52 37
PF		iP	01 51 37
		i	51 49
SH		iP	01 51 23
TUC		iP	01 51 38
		i	51 55
Mar. 31 HH		iP	02 09 43
Mar. 31 BC		iP	02 18 41.8
COL		eP	02 19 22
		iP	19 23
		i	19 30
		i	19 34
HH		iP	02 19 19
PF		iP	02 18 45
SH		eP	02 19 32
TUC		eP	02 18 46
Mar. 31, H = 06 22 02* 18°S, 179-1/2°W. Fiji Islands. h about 600 km.			
BC		iP	06 33 24.3
COL		iP	06 33 44
		e	34 01
COL		i	06 34 40
HH		iP	06 33 55
PF		iP	06 33 27
SH		iP	06 33 11
TUC		iP	06 33 31
Mar. 31 HH		iP	06 51 38
Mar. 31, H = 09 20 34* 60-1/2°N, 154°W. Southern Alaska. h about 250 km.			
BC		iP	09 27 01.1
		iPcP	29 33.2
		iScP	32 59.5
COL		iP	09 21 49
		iS	22 45
		iL	23 31
HH		iP	09 25 45
		ipP	26 23
		iPcP	29 09
		i(ScP)	32 29
LOG		i	09 26 39
		i	27 17
		ePP	27 57
		eScP	32 49
PF		iP	09 27 08
		i	27 47
		eScP	32 28
		iPcS	33 00
SJ		iP	09 31 40
		iPcP	31 56
SH		iP	09 26 03
		i	26 09
		iPcP	29 13
		eS	30 33
		iScP	32 33
SIT		iP	09 22 49
		iS	24 40
		eL	24 56
		i	27 50
TUC		iP	09 27 47
		epP	28 33
		ePcP	29 49
		iScP	33 18
Mar. 31 HH		e(P)	09 58 31
Mar. 31 COL		iP	14 56 54
Mar. 31 COL		e(P)	15 10 53
Mar. 31 COL		e(P)	21 40 49
Mar. 31 HH		eP	22 08 45
PF		iP	22 08 13
Mar. 31 TUC		eP	22 23 16
Mar. 31 COL		e(P)	23 36 26

Local and Minor Earthquakes

day	hour
COL	
Mar.	
2	14.6
5	23.0
7	01.6
	07.2
	17.5
8	06.9
12	18.7
15	23.0
16	00.7
17	12.0
22	10.8
26	03.4
27	09.2
	15.2
28	07.2
	13.9
COLU	
Mar.	
1	18.8
	21.7
6	20.8
23	22.7
HONO	
Mar.	
22	00.8
LOG	
Mar.	
8	13.7
21	05.1
22	21.4
27	11.8
SJ	
Mar.	
9	00.8
	03.7
	08.9
10	19.5
	21.6
11	02.7
12	18.1

Local and Minor Earthquakes

day	hour
SJ	
Mar.	
16	22.1
17	01.3
	01.9
	20.4
18	04.1
	11.6
19	01.6
	08.3
	11.2
	23.8
20	05.8
30	12.9
TUC	
Mar.	
3	19.0
7	19.2
8	20.2
	21.3
	21.7
9	21.4
	22.5
15	15.0
	18.1
16	01.2
	20.2
18	19.3
	22.2
19	12.7
21	06.8
	18.2
	18.4
	21.6
23	18.5
	20.9
	21.3
26	17.2
	21.4
27	22.1
29	01.9
30	03.1
	07.6