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Department of Commerce

Charles Sawyer, Secretary

U. S. Coast and Geodetic Survey

R. F. A. Studds, Director

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SEISMOLOGICAL BULLETIN

January, February, March, 1946

MSI - 125

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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

R. F. A. Studds, Director

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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

January, February, March, 1946

ISI-125

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Local and minor quakes....45

Issued by the U. S. Coast and Geodetic Survey

Washington 25, D. C.

A-4224-4(48)+

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)
*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 Coast and Geodetic Survey.

**Indicates a station operating on an independent basis.

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

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

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicate probable error of one-quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

* * *

Station	Position	Instruments	Foundation and elevation
Balboa Heights, C. Z. G. E. Matthew, In Chg.	Log cos 9.99467 Lat. 8°57'39"N. Long. 79°33'29"W.	W-A, NS&EW Mass 1.3g	Basalt. Elevation 36m.
Bermuda W. A. Macky, In Chg.	Log cos 9.92661 Lat. 32°22.8' N. Long. 64°41.0' W.	M-S, NE&NW Mass 1 lb.	Calcareous eolionite over vulcanic rock. Elevation 41m.
Boulder City, Nev. D. S. Carder, In Chg.	Log cos 9.90806 Lat. 35°58'51"N. Long. 114°50'02"W.	B film, Z,N&E Mass 100 lb.	Fractured monzonite. Elevation 776m.
Bozeman, Mont. A. J. M. Johnson, In Chg.; R. Maras, Seis. Tender	Log cos 9.88437 Lat. 45°40'01"N. Long. 111°02'43"W.	McC-R, NS&EW Mass 10kg.	Alluvium, glacial drift, and lake deposits 500' thick over gneiss and schist. Elevation 1490m.
Burlington, Vt. E. C. Jacobs, In Chg.	Log cos 9.85339 Lat. 44°28.8' N. Long. 73°11.8' W.	M-S, NE&NW Mass 1 lb.	Glacial hardpan. Elevation 100m.
Butte, Mont. Stephen W. Nile, In Chg.	Log cos 9.84167 Lat. 46°00.8' N. Long. 112°33.8' W.	W-A, NS Mass 2g.	Rhyolite 30m. thick resting on granite. Elevation 1758m.
Chicago, Ill. Wm. F. Schmidt, In Chg.	Log cos 9.87251 Lat. 41°47.3' N. Long. 87°36.0' W.	McC-R, NS&EW Mass 2.5kg.	Limestone. Elevation 180m.
College, Alaska S. L. Seaton, In Chg. W. H. Rolfe, Seis. Tender	Log cos 9.62819 Lat. 64°51.8' N. Long. 147°49.1' W.	McC-R, NS&EW Mass 10kg.	Granitic schist. Elevation 159m.
Columbia, S. C. S. Taber, In Chg. Chas. Mercer, Seis. Tender.	Log cos 9.91857 Lat. 34°00' N. Long. 81°02' W.	McC-R, NS&EW Mass 10kg.	Consolidated sand 150' thick over granite. Elevation 94m.
Grand Coulee, Wash. W. P. Greenwood, In Chg. W. Shepherd, Asst.	Log cos 9.82600 Lat. 47°46'29"N. Long. 118°58'48"W.	B film, Z, N&E Mass 100 lb.	Granite. Elevation 461.7m.
*Honolulu, T. H. Wm. Patterson, In Chg.	Log cos 9.99627 Lat. 21°18.1' N. Long. 157°49.3' W.	M-S, NS&EW Mass 1 lb.	Alluvium on basalt. Elevation 25m.
	Log cos 9.96926 Lat. 21°18'13"N. Long. 158°05'44"W.	N-L, EW	Shale. Elevation 10 ft.

	Period T_o	T_g	T_s	V	ϵ	Time: Scales and reference points	Ground Motion trace "up"
NS	1.0			1370	20:1	60mm/min.	N
EW	1.0			1370	16:1		E
NE	11.9				15:1	8mm/min. End of time break.	NE
NW	12				17:1		NW
Z	1.4	.45		5000	Near	15mm/min. Beginning of time break.	Up
N	1.4	.45		5000	crit.		N
E	1.4	.45		5000			E
NS	10.9			270	14:1	15mm/min. Beginning of time break.	N
EW	10.9			270	6:1		E
NE	12			250	20:1	8 mm/min. End of time break.	SW
NW	12			250	20:1		NW
NS	7.0			540	18:1	15mm/min. Beginning of time break.	S
NS	10			335	15:1	15mm/min. End of time break.	N
EW	10			335	15:1		W
NS	12			140	10:1	15mm/min. End of time break.	S
EW	12			140	10:1		W
NS	12			75	10:1	15mm/min. Beginning of time break.	S
EW	12			75	10:1		E
Z	1.5	.45		8000	Near	15mm/min. Beginning of time break.	Up
N	1.5	.45		8000	crit.		N
E	1.5	.45		8000			E
NS	12.0			124	20:1	30mm/min. Beginning of time break.	N
EW	12.0			142	20:1		E
EW	1.2			4800	8:1		E

Station	Position	Instruments	Foundation and elevation
Huancayo, Peru P. G. Ledig, In Chg.	Log cos 9.99033 Lat. 12°02.8' S. Long. 75°20.4' W.	W, NS&EW Mass 500g. B, Z. Mass 100 kg.	Partially consolidated conglomerate. Elevation 3350m.
Lincoln, Nebr. J. C. Jensen, In Chg.	Log cos 9.87886 Lat. 40°50.3' N. Long. 96°39.2' W.	McC-R, EW Mass 2.5kg.	Dakota sandstone. Elevation 366m.
Logan, Utah J. Stewart Williams, In Chg.; W. C. Hugie, Seis. Tender	Log cos 9.87283 Lat. 41°44.5' N. Long. 111°48.8' W.	W-A, NS&EW Mass 2g.	Bonneville lake beds. Elevation 1455m.
Montezuma, Chile F. A. Greeley, In Chg.	Log cos 9.96525 Lat. 22°38' S. Long. 68°50' W.	B-O, NS&EW	Sandstone. Elevation 2850m.
New Kensington, Pa. F. Keller, Sr., owner and operator	Log cos 9.88066 Lat. 40°33'35"N. Long. 79°45'15"W.	W, electronic recorder, EW.	Shale. Elevation 251m.
Overton, Nev. D. S. Carder, In Chg.	Log cos 9.90500 Lat. 36°31'52"N. Long. 114°26'33"W.	B film, Z, N&E. Mass 100 lb.	Terrace gravel overlying fine playa silt with gypsum cement. Elevation 395m.
Philadelphia, Pa. Roy K. Marshall, In Chg. I. M. Levitt, Seis. Tender	Log cos 9.88452 Lat. 39°57'32"N. Long. 75°10'30"W.	W, NS&EW Mass 500g.	Cape May sand and gravel. Elevation 5m.
Pierce Ferry, Ariz. D. S. Carder, In Chg.	Log cos 9.90729 Lat. 36°07'15"N. Long. 114°00'17"W.	B film, Z, N&E Mass 100 lb.	Terrace gravel overlying fine playa silt with gypsum cement. Elevation 417m.
Rapid City, S. Dak. E. L. Tullis, In Chg. M. Peterson, Seis. Tender	Log cos 9.85637 Lat. 44°04.6' N. Long. 103°12.0' W.	W-A, EW. Mass 2g.	Shale. Elevation 1045m.
Salt Lake City, Utah A. M. Anderson, In Chg.	Log cos 9.87932 Lat. 40°45'55"N. Long. 111°50'54"W.	McC-R, NS&EW. Mass 2.5kg.	Bonneville lake beds. Elevation 1425m.
San Juan, Puerto Rico R. M. Wilson, In Chg.	Log cos 9.97726 Lat. 18°22.9' N. Long. 66°07.1' W.	W, NS&EW. Mass 500g.	Limestone. Elevation 80m.

	Period T_o	T_g	T_s	V	(	Time: Scales and reference points	Ground Motion trace "up"
NS	9.6	12.4	5.6	1550	23:1	16mm/min. End of time break.	N
EW	9.4	12.4	5.8	1550	23:1		W
Z	.44	5.7			Near crit.	60mm/min. End of time break.	Up
EW	8			200	10:1	15mm/min. Beginning of time break.	E
NS	6.0			700	18:1	15mm/min. End of time break.	N
EW	6.0			700	18:1		E
NS	20			10	16:1	15mm/min. Middle of time break.	N
EW	20			10	21:1		E
EW	10	13		1000	6:1	1"/min. Beginning of time break.	E
Z	1.5	.45		8000	Near	15mm/min. Beginning of time break.	Up
N	1.5	.45		8000	crit.		N
E	1.5	.45		8000			E
NS	12.2	9.4	7.5	1400	20:1	20mm/min. End of time break.	S
EW	12.2	9.4	7.5	1400	20:1		E
Z	1.5	.45		10000	Near	15mm/min. Beginning of time break.	Up
N	1.5	.45		10000	crit.		N
E	1.5	.45		10000			E
EW	5			590	20:1	15mm/min. End of time break.	E
NS	9.8			335	15:1	15mm/min. Beginning of time break.	N
EW	9.9			335	15:1		W
NS	9.8	19.9	11.0	1000	20:1	16mm/min. Beginning of time break.	S
EW	9.8	13.9	10.1	1000	20:1	30mm/min. - August 1946	E

Seattle, Wash. H. A. Coombs, In Chg.	Log cos 9.82844 Lat. 47°39' N. Long. 122°18.5' W.	B-O, NS&EW. Mass 25kg.	Glacial till. Elevation 34m.
Shasta, Calif. W. H. Isaacks, In Chg.	Log cos 9.87978 Lat. 40°41'44"N. Long. 122°23'19"W.	B film, Z, N&E. Mass 100 lb.	Meta-andesite. Elevation 312.4m.
Sitka, Alaska Joel Campbell, In Chg.	Log cos 9.73544 Lat. 57°03'25"N. Long. 135°19'28"W.	W, NS&EW Mass 500g.	Graywacke. Elevation 19m.
Tucson, Ariz. J. H. Nelson, In Chg.	Log cos 9.92725 Lat. 32°14.8' N. Long. 110°50.1' W.	W-A, NS&EW. Mass 2.3g. B, Z.	Caliche or gravels 100-300m. thick. Elevation 770m.
Ukiah, Calif. L. F. Caouette, In Chg.	Log cos 9.88968 Lat. 39°08' N. Long. 123°13' W.	McC-R, NW&NE	Alluvium 180m. deep. Elevation 199m.

	Period T_o	T_g	T_s	V	ϵ	Time: Scales and reference points	Ground Motion trace "up"
NS	15.0			10	16:1	15mm/min. Middle of time break.	N
EW	15.0			10	16:1		W
Z	1.5	.45		5000	Near	15mm/min. Beginning of time break.	Up
N	1.5	.45		5000	crit.		N
E	1.5	.45		5000			E
NS	8.0	16.0	8.3	1000	30:2	15mm/min. Beginning of time break.	N
EW	8.0	12.0	8.3	1000	10:7		W
NS	8.0			430	129:1	30mm/min. Beginning of time break.	S
EW	8.0			430	91:1		E
Z	1.0	77.0			Near	60mm/min. Beginning of time break.	Up
		0.24			crit.		Up
NW	12			75	10:1	15mm/min. Beginning of time break.	N
NE	12			75	10:1		E

PROVISIONAL EPICENTERS

The provisional epicenters have not been determined for the first quarter of 1946. In order to expedite the publication of instrumental interpretations the epicenter locations for 1946-48 will be omitted until the backlog is eliminated.

SEISMOGRAM INTERPRETATIONS

Date and Station		Phase (GCT) h m s
Jan. 1		
BC	iP	23 57 32.5
	e(S)	58 32.5
	i(S)	58 36
OV	iP	23 57 42
PF	iP	23 57 39
	e(S)	58 51
TUC	e(P)	23 57 54
	e	58 09
	e(S)	58 53
	e	59 13
	eL	59 33
Jan. 2		
BC	eP	15 25 22.5
	e	29 15
PF	eP	15 25 29
	e	29 29
TUC	e	15 25 41
	e	29 41
	eL	16 01 41
Jan. 2		
TUC	e	23 10 20
Jan. 3		
BC	iP	04 14 20.5
GC	iP	04 13 01
	i	13 04.5
OV	e	04 14 20
PF	iP	04 14 23
TUC	eP	04 14 53
	iP	14 57
	i	15 10

Date and Station		Phase (GCT) h m s
Jan. 4		
TUC	eP	16 47 29
Jan. 4		
BH	e	19 45 53
BER	eP	19 50 07
	ePP	51 12
	eS	55 24
	eL	56 35
BC	iP	19 51 01
	i	52 22
	i	53 30
BOZ	eL	20 10 44
CHI	eS	19 55 34
	eL	20 00 42
COL	eL	20 19 27
COLU	eP	19 49 09
	e	49 39
	eS	53 23
	eL	56 39
HUAN	eP	19 49 14
	e(PP)	49 55
	iS	53 22
	eL	55 17
PHIL	eP	19 50 21
	e	54 52
	i(S)	55 16
	e	56 52
	eL	58 28
PF	iP	19 50 56.5
SJ	e	19 48 41
	i	49 20
	iS	53 10
	eL	54 44

Date and Station		Phase (GCT) h m s
Jan. 4, cont.		
SH	e	19 53 57
TUC	eP	19 50 16
	i	50 20
	iPcP	53 17
	e	55 06
	eL	57 26
Jan. 5		
BH	eP	01 18 11
BER	iP	01 21 05
	e	21 48
	eS	25 08
	eL	27 10
T_L = 20 sec.		
$A_{max.}$ = 2.0 mm.		
BC	iP	01 21 02.4
	i	21 45.5
	e	31 17
BOZ	e	01 21 52
	iS	27 05
	isS	28 14
	eL	29 36
	e(ScS)	31 46
BUT	eP	01 22 38
	ePP	24 28
	e	27 10
	iS	28 33
	eL	31 34
CHI	iP	01 20 35
	ipP	21 17
	e	21 27
	e	24 26
	eS	24 50
	iS	24 53
	isS	26 20
	eL	26 54

Date and Station		Phase (GCT)
		h m s
Jan. 5, cont.		
COL	eS	01 34 49
	eL	41 15
COLU	iP	01 19 42
	ipP	20 18
	e	20 44
	iS	23 27
	eL	24 11
GC	eP	01 22 30
	epP	23 13
	esP	23 35
	e	29 30
HUAN	eP	01 21 21
	ePP	22 26
	eS	26 18
	iS	26 20
	esS	27 25
	eL	28 36
	iScS	31 32
LIN	e	01 21 14
	eS	24 36
	eL	25 28
LOG	eP	01 21 07
	i	21 33
	ePP	22 37
	eS	25 17
	e	26 27
	eL	30 37
NK	e(P)	01 20 48
	e(PcP)	23 35
	eS	25 05
	esS	26 10
	eL	26 43
OV	iP	01 21 04
	epP	21 47
PHIL	iP	01 20 53
	ipP	21 34
	ePcP	24 00
	iS	25 25
	e	25 47
	eL	26 40

Date and Station		Phase (GCT)
		h m s
Jan. 5, cont.		
PF	iP	01 20 58.5
	ipP	21 41.5
	eScS	31 16
RC	iP	01 20 56
	ipP	21 31
	e(S)	26 13
	isS	27 16
	iL	28 23
SLC	e	01 21 01
	e	21 24
	e	21 44
	i	26 26
	i	27 29
	i	28 23
	i(ScS)	30 25
SJ	iP	01 20 15
	ipP	21 03
	i	22 58
	eS	24 19
	iS	24 23
	iL	25 49
SH	eP	01 22 19
	e	22 49.5
SIT	ePP	01 26 17
	iS	31 35
	isS	32 57
	eL	37 32
TUC	iP	01 20 18
	ipP	20 58
	i	21 18
	iPcP	23 50
	eS	24 25
	iS	24 43
	esS	25 43
	iScP	27 09
	eL	28 51
Jan. 5		
TUC	iP	01 43 49
Jan. 5		
TUC	iP	03 09 02
Jan. 5		
TUC	i(P)	12 55 34

Date and Station		Phase (GCT)
		h m s
Jan. 5		
BC	iP	15 19 03.5
GC	iP	15 17 45
OV	iP	15 19 03
PF	iP	15 19 06
TUC	iP	15 19 37
	epP	19 58
Jan. 5		
BC	eP	16 20 50
GC	iP	16 20 19
PF	iP	16 20 52.5
SH	iP	16 20 17.5
	i	20 25.5
	i	20 50.5
TUC	eP	16 21 11
Jan.5		
TUC	eP	16 25 11
Jan. 5		
BER	eP'	20 16 32
	ePP	18 45
	iPKS	19 55
	ePPS	30 30
	e(SS)	36 29
	eL	49 17
BC	iP	20 10 18
	i	10 50
	eS	20 43
	eP'P'	35 58
	eL	40 00
BOZ	eP	20 10 50
	e(PP)	14 16
	iSKS	21 20
	iPS	23 37
	eSS	28 00
	eSSS	32 16
	eL	35 40
BUT	e	20 11 11
	ePS	23 26
	eSS	28 32
	eL	35 33

Date and Station		Phase (GCT) h m s
Jan. 5, cont.		
CHI	e	20 16 30
	e	18 07
	eSKS	22 18
	e(S)	24 26
	ePS	26 15
	eSS	31 46
	eSSS	36 18
	eL	42 50
COL	eP	20 10 08
	ePP	13 35
	eSKS	20 25
	e(S)	21 03
	ePS	21 53
	eSS	26 19
	eL	34 13
COLU	ePP	20 17 24
	e(SKS)	23 38
	ePS	26 56
	eSS	32 42
	e	40 20
	eL	45 09
GC	eP	20 10 23.5
	i	10 32.5
	i	10 55
	iPP	13 59
	eSKS	20 30
	eS	21 41
HONO	eP	20 06 19
	ePP	08 21
	ePPP	09 27
	e	12 15
	eS	13 28
	iS	13 35
	e	16 46
	iL	17 47
HUAN	ePP	20 16 42
	e	18 51
	eSKS	22 48
	ePS	26 23
	eSS	32 17
	eSSS	36 23
	eL	43 20
LIN	ePP	20 15 48
	e	18 21
	eSKS	23 33

Date and Station		Phase (GCT) h m s
Jan. 5, cont.		
LIN, cont.		
	e(PS)	20 25 06
	eSS	30 42
	eL	49 22
LOG	eP	20 10 37
	e(SKS)	20 43
	i	22 15
	eSSS	31 36
	eL	39 35
PHIL	e	20 13 20
	e(P')	16 26
	eS	25 08
	ePS	27 23
	eSS	34 13
	eL	48 24
PF	iP	20 10 21
	iPP	13 59
	eSKS	20 54
RC	e	20 11 40
	ePP	15 16
	ePPP	17 38
	eSKS	21 44
	iSKS	21 48
	eS	22 49
	ePS	24 19
	eSS	29 44
	e	33 06
	eL	38 24
SLC	eP	20 10 38
	e	11 01
	ePP	14 03
	iSKS	21 10
	i(PS)	23 13
	e	28 17
	eSSS	31 49
	eL	36 12
SJ	iPP	20 18 39
	i	19 40
	iPPP	21 22
	eSKS	23 22
	ePS	29 25
	iPPS	30 36
	e	34 08
	eSS	36 09
	i	38 35

Date and Station		Phase (GCT) h m s
Jan. 5, cont.		
SJ, cont.		
	eSSS	20 40 50
	eL	52 40
SEA	eS	20(20 45)
	e	(21 33)
	iSS	(27 39)
	eL	(30 36)
SH	iP	20 10 00
	i	10 34
	e(S)	20 07
SIT	e	20 11 34
	iS	20 30
	e(PS)	21 43
	eL	33 10
TUC	eP	20 10 28
	iP	10 29
	i	10 47
	iPP	14 09
	ePPP	16 12
	eSKS	20 56
	iSKS	21 06
	i	22 41
	eSS	27 20
	ePKKP	27 48
	eSSS	31 10
	eL	34 07
	eP'P'	35 59
UK	eP	20 09 56
	e(PP)	13 05
	e(PPP)	15 10
	eS	20 20
	e(PS)	21 24
	e	25 32
	eL	32 32
Jan. 6		
TUC	eL	11 10 35
Jan. 6		
TUC	eL	23 25 32
Jan. 7		
BER	e(P')	06 33 41
	ePP	36 22
	i	37 10
	e	44 07
	e	52 15

Date and Station		Phase (GCT)
		h m s
Jan. 7, cont.		
BER, cont.		
	e	06 54 18
	e	57 23
	eL	07 18 15
BC	ePP	06 32 46.5
	e	33 58
CHI	ePPP	06 36 31
	e	47 27
	eSSS	55 07
	e	07 01 39
	eL	07 31
COL	eS	06 37 23
	e	37 48
	e	43 10
	eL	51 01
HUAN	e(P')	06 34 08
	e(PP)	39 22
	e	46 14
	eSS	59 04
	e(SSS)	07 04 47
	eL	22 11
PHIL	eL	07 25 06
PF	ePP	06 32 49
SLC	eL	07 11 25
SJ	e(P')	06 34 30
	ePP	38 32
	e	48 50
	e	59 16
	eL	07 13 26
TUC	eP'	06 32 54
	e	34 15
	ePS	42 25
	e	44 03
	eL	07 10 07
UK	eL	07 04 42
Jan. 7		
BOZ	eL	15 56 28
BUT	eL	15 56 00
COLU	eL	15 59 06

Date and Station		Phase (GCT)
		h m s
Jan. 7, cont.		
PF	e	15 53 18
SLC	eL	15 56 54
SH	iP	15 51 21.1
	i	51 23.8
	eS	52 00.1
TUC	eP	15 54 19
	i	54 48
	eL	59 37
Jan. 7		
TUC	eP	20 59 20
Jan. 8		
BC	iP	18 55 08.7
	i	55 17.9
	i(S)	55 53
	i	55 58.5
BOZ	eL	19 01 16
CHI	eL	19 07 06
GC	e	18 58 30
	eL	19 02 20
LOG	e	18 58 05
	i(S)	58 21
	eL	59 15
PHIL	eL	19 11 50
PF	iP	18 55 15
	i(S)	56 24.5
RC	e	18 58 20
	eL	19 02 05
SLC	e	18 57 19
	eL	58 50
SH	eP	18 57 06
	i	57 36.5
	eS	58 57
	iS	59 01.5
TUC	eP	18 55 28
	iP	55 29
	i	55 47
	e(S)	56 10

Date and Station		Phase (GCT)
		h m s
Jan. 8, cont.		
TUC, cont.		
	iS	18 56 15
	i	56 30
	eL	58 36
UK	eL	18 59 18
Jan. 9		
TUC	e	07 43 33
Jan.9		
TUC	iP	15 14 02
	e	14 14
Jan. 9		
BH	iP	18 22 40
	iS	22 49
Jan. 9		
TUC	iP	21 28 32
Jan. 10		
BH	eP	05 03 44
	iS	04 05
Jan. 10		
TUC	iP	22 32 17
Jan. 10		
BC	iP	23 53 14.5
	i	53 34.5
	i	54 24
GC	eP	23 52 43
	iP	52 48
PF	iP	23 53 17.5
SH	iP	23 52 44.5
TUC	eP	23 53 34
Jan. 11		
BER	eSKS	01 56 05
	iS	57 15
	isS	02 01 09
	eSS	04 35
	e	09 22
	e	13 15

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
BC	iP	01 44 45.2
	i	45 12.6
	i	46 09
	epP	46 48
	iPP	47 55
	iS	54 29.5
	iPKKP	02 03 19
	iP'P'	11 19
	epP'P'	13 18
	eP'P'P'	31 17
	epP'P'P'	33 13
BOZ	eP	01 44 15
	ePP	47 11
	iS	53 07
	iScS	53 25
	esS	56 37
	eSS	58 14
	eSSS	02 02 15
	eL	04 55
BUT	iP	01 44 11
	i	44 34
	iPP	47 07
	iS	52 57
	iScS	53 15
	iSP	53 59
	esS	56 18
	i	56 28
CHI	eP	01 45 18
	iSKS	54 46
	iS	55 07
	e	57 00
	isS	58 50
	eSS	02 01 13
	eL	07 59
COL	iP	01 41 16
	ePcP	42 12
	e	44 10
	iS	47 28
	eScS	02 50 03
	esS	50 35
	eL	52 10
COLU	iSKS	01 55 39
	eS	56 25
	eSP	57 51
	esS	02 00 23
	e	01 25
	eSS	03 25

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
COLU, cont.		
	esSS	02 07 09
	eL	13 42
GC	iP	01 43 43.3
	i	44 28.5
	ipP	45 45
	eS	52 01
	iS	52 06
	i	53 22
	iP'P'	02 11 32
	epP'P'	13 56
	iSKPP'	14 16
HONO	iP	01 43 01
	ipP	44 58
	isP	45 56
	epPP	47 11
	eS	50 38
	esS	54 10
	i	55 26
	eL	02 00 20
HUAN	e(P')	01 51 53
	iPP	54 42
	i	02 01 01
	ePS	05 02
	i	10 45
	e	12 49
	eSS	16 20
	e	26 45
LIN	iS	01 54 34
	i	54 45
	esS	58 28
	eSS	02 00 32
	e	07 06
LOG	iP	01 44 32
	i	44 50
	ipP	46 41
	iPP	47 40
	iS	53 36
	i	55 45
	esS	57 16
	eL	02 05 21
OV	iP	01 44 45
	iS	54 04
PHIL	iS	01 55 17
	i	55 51

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
PHIL, cont.		
	e	01 59 21
	eSSS	02 05 37
PF	iP	01 44 47
	iS	54 09
	i	02 09 57
	eSKPP'	13 13
	e	13 51
RC	iP	01 44 42
	ipP	46 50
	iPP	48 01
	iS	53 54
	iScS	54 03
	i	56 56
	isS	57 33
	i	58 05
	eSS	59 30
	eSSS	02 03 32
	eL	07 04
SLC	iP	01 44 35
	ePP	47 38
	iS	53 44
	i	54 05
	isS	57 25
	i	57 58
	eSS	58 48
	eL	02 01 32
SJ	e	01 55 31
	i(SKS)	58 17
	iS	59 05
	e	02 02 06
	eSS	07 11
	esSS	10 41
	eL	23 27
SEA	i	01 49 06
	e(S)	52 34
	e	53 52
	eL	02 02 34
SH	iP	01 44 03.8
	ipP	46 04.5
	ePPP	49 07
	iS	52 45
	i	53 15
	iSKPP'	02 14 00.5

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
SIT	iP	01 42 17
	iS	49 24
	iScS	51 06
	isS	52 44
	e	55 00
	eL	56 25
TUC	iP	01 45 10
	i	45 26
	ipP	47 13
	isP	48 15
	iPP	48 37
	ipPP	50 32
	ePPP	50 56
	esPP	51 30
	iS	54 40
	esS	58 29
	iSS	02 00 46
	esSS	04 16
	eSSS	04 51
	eP'P'	11 03
	iSKPP'	13 35
	eP'P'P'	34 25
UK	eP	01 44 08
	iS	52 52
	e	53 24
	esS	56 26
	e	56 42
	eL	02 04 25
Jan. 11		
TUC	eP	02 46 04
Jan. 11		
TUC	iP	17 17 54
	i	18 44
	eL	41 45
Jan. 11		
BC	iP	18 47 11
	e	56 03
GC	eP	18 48 42
	i	49 13
OV	iP	18 47 12
PF	iP	18 47 06.5
SLC	eL	19 01 19

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
SJ	eL	19 00 46
TUC	iP	18 46 21
	e	47 15
	eL	53 20
Jan. 12		
BOZ	e(L)	03 34 27
LIN	eL	03 31 32
RC	eL	03 33 12
SLC	eL	03 30 52
TUC	eP	03 21 47
	i	22 14
	i	23 15
	e(S)	25 10
	eL	26 08
Jan. 12		
TUC	eP	04 28 28
Jan. 12		
LIN	eL	06 17 33
RC	eL	06 19 10
SLC	eL	06 16 22
TUC	eP	06 07 39
	i	07 52
	eS	10 30
	eL	11 22
Jan. 12		
BER	iP	20 35 42
	ePP	38 00
	i(PPP)	39 27
	eS	43 54
	iScS	45 32
	i(SS)	47 59
	eL	49 02

T_P= 8 sec. A = 2.0 mm.
T_S= 12 sec. A = 2.5 mm.
T_L= 20 sec. A = 5.0 mm.
T_L= 16 sec. $A_{max.}$= 6.5 mm.

Date and Station		Phase (GCT) h m s
Jan. 12, cont.		
BC	iP	20 32 02.8
	iPP	33 17
	eS	37 19
	i	38 32
	eL	40 00
	e	41 37
	e(ScS)	43 24
	e	45 04
	eP'P'	21 06 39
BOZ	iP	20 31 14
	iPP	31 47
	e	33 32
	iScS	34 31
	iS	35 24
	eL	36 10
BUT	iP	20 31 05
	iPP	31 30
	iScS	34 04
	eS	35 21
	iL	36 11
CHI	iP	20 33 19
	i	33 46
	e	34 22
	iPP	34 55
	iS	39 32
	iL	42 19
COL	iP	20 27 02
	i	27 34
	eS	27 52
	iS	27 57
	i	28 19
	iL	28 41
COLU	eP	20 34 32
	ePcP	35 31
	ePP	36 31
	ePPP	37 39
	iS	41 40
	i	42 10
	eL	45 35
GC	iP	20 30 19.2
	i	30 33
	eS	33 56
	eL	34 28

Date and Station		Phase (GCT) h m s
Jan. 12, cont.		
HONO	iP	20 33 03
	i	34 19
	iPcP	35 16
	iS	38 50
	eL	41 19
HUAN	iP	20 38 44
	iPP	42 15
	ePPP	44 39
	eS	49 15
	iS	49 20
	iPS	51 15
	eSS	56 09
	eL	21 02 40
LIN	iP	20 32 48
	i	34 17
	iS	38 36
	i	38 59
	eL	42 08
LOG	iP	20 31 37
	iPP	32 26
	e	33 05
	eS	36 25
	eL	38 42
OV	iP	20 32 04
PHIL	iP	20 34 22
	iPP	36 19
	iS	41 16
	i	41 26
	iScS	44 03
	eSS	44 55
	iL	45 24
PF	iP	20 32 04.5
RC	iP	20 32 01
	ePP	32 57
	ePPP	33 12
	iS	37 12
	eL	38 32
SLC	iP	20 31 43
	iPP	32 36
	i	32 51
	eS	36 51
	i	37 24
	eL	39 01

Date and Station		Phase (GCT) h m s
Jan. 12, cont.		
SJ	iP	20 36 53
	ePP	39 12
	ePPP	41 03
	iS	46 03
	i	46 30
	iScS	47 11
	eSS	50 40
	eL	54 30
SEA	eP	20 30 02
	i	30 56
	eS	33 48
	eL	34 06
SH	iP	20 30 58
	eS	35 34
SIT	iP	20 27 28
	iS	28 45
	iL	29 25
TUC	eP	20 32 44
	iP	32 45
	e	33 44
	iPP	34 10
	iPcP	34 50
	iS	38 34
	e	39 03
	eL	40 39
UK	eP	20 31 09
	ePP	31 39
	eS	35 18
	eL	35 43
Jan. 13		
BH	eP	14 26 42
	iS	27 16
Jan. 13		
BC	eP	16 32 07.9
	iP	32 08.5
	i	32 15
	iS	32 58.5
BOZ	eL	16 37 05
LOG	e	16 34 46
	i	35 01
	i	35 27
	eL	35 39

Date and Station		Phase (GCT) h m s
Jan. 13, cont.		
PF	iP	16 32 15
	i	32 20.5
	iS	33 02.5
SLC	eL	16 34 13
SH	eP	16 32 23
	iP	32 26
	i	32 32.5
	iS	33 29
TUC	eP	16 33 15
	e	33 47
	eS	34 56
	eL	35 40
Jan. 13		
BC	eP	17 13 52.4
	eS	14 31.5
	e	14 34
OV	eP	17 14 05
	eS	14 51
PF	iP	17 13 54.5
	eS	14 54.5
Jan. 13		
SJ	e(S)	19 28 08
	eL	31 33
Jan. 14		
SH	iP	07 00 08
TUC	eP	07 01 07
Jan. 15		
BC	iP	05 49 02.5
GC	e	05 47 46
OV	eP	05 49 02
PF	iP	05 49 06
SH	eP	05 48 01.5
TUC	iP	05 49 41
Jan. 15		
PF	iP	06 59 05.5

Date and Station		Phase (GCT) h m s
Jan. 15		
BC	eP	22 34 33
GC	eP	22 34 14.5
OV	eP	22 34 43
PF	iP	22 34 41
SH	iP	22 32 51
	iS	33 30
	i	33 32
TUC	iP	22 35 43
Jan. 16		
TUC	eP	06 00 32
Jan. 16		
BC	iP	07 38 58
MONT	eL	07 28 56
OV	iP	07 38 59
PF	iP	07 38 55.5
SJ	eL	07 52 55
TUC	eP	07 38 26
Jan. 16		
TUC	e	07 45 07
Jan. 16		
BC	iP	11 07 55.6
	i	07 56.4
	eS	08 38
OV	iP	11 08 02
PF	iP	11 07 50.5
	eS	08 50.5
Jan. 16		
TUC	iP	15 01 39
Jan. 16		
TUC	eP	16 59 21
Jan. 17		
BC	iP	02 37 43

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
PF	iP	02 37 46.5
TUC	iP	02 37 48.5
Jan. 17		
BER	ePP	10 02 19
	ipPP	02 41
	i	03 05
	ePPP	05 37
	eSKKS	08 03
	e	09 28
	eSP	12 35
	e	15 10
	e	21 15
	e	29 56
	eL	39 08
BC	eP	09 53 15
	ipP	53 51
	eSKS	10 03 40
	eS	04 26
BOZ	eS	10 04 43
	eSP	07 20
	eSS	12 05
	eL	22 12
BUT	eS	10 05 28
	eSS	12 24
	eL	21 27
CHI	eSS	10 16 34
	eSSS	20 26
	eL	29 36
COL	ePP	09 55 23
	ePPP	57 37
	eS	10 02 25
	esS	03 07
	e	03 48
	eSS	08 13
	eL	15 19
COLU	e	10 02 29
	e(SKKS)	07 03
	e	11 01
	eL	34 16
GC	eP	09 53 00

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
HONO	i	09 50 14
	iPP	51 59
	eS	58 22
	e	10 00 54
	eL	04 28
HUAN	e(P')	09 48 48
	epP	59 15
	ePP	10 01 16
	e	02 58
	e(PPP)	04 47
	e	07 03
	i	08 54
	ePS	12 13
	eSS	19 13
	i	20 04
	eL	36 14
PF	eP	09 53 19.5
	eS	10 03 55.5
RC	e	09 59 00
	eS	10 05 52
	ePS	08 13
	eSS	13 12
	eSSS	17 28
	eL	25 48
SLC	eS	10 04 43
	ePS	07 23
	eSS	11 37
	e	17 51
	eL	21 55
SJ	eP'	09 59 08
	iP'	59 11
	e	10 06 42
	e	14 40
	eSS	21 16
	i	27 46
	eL	40 30
SH	eP	09 52 48
	ePP	56 17
	ePPP	58 18
	eSKS	10 03 14
	e	03 53
SIT	e(P)	09 51 44
	eS	10 03 00
	i	03 44
	e	04 35
	eL	16 58

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
TUC	eP	09 53 32
	e	56 41
	e(PP)	58 12
	eSKS	10 04 06
	eSP	07 07
	eSS	12 26
	e	17 10
	eL	22 22
UK	e(S)	10 04 20
	e	05 50
	eSS	10 08
	eL	17 13
Jan. 17		
TUC	eP	10 59 22
Jan. 17		
BC	eP	12 22 46
	iP	22 49
	eS	23 39
PF	eP	12 22 46.5
	i	23 02
	eS	23 59
Jan. 18		
BC	iP	00 36 32.5
	eS	37 19.5
OV	eP	00 36 36
	eS	37 20
PF	iP	00 36 33.5
	eS	37 37
Jan. 18		
TUC	eP	04 45 45
Jan. 18		
TUC	e(P)	07 11 08
Jan. 18		
BC	iP	15 44 43.5
	ipP	45 55.5
	iPP	47 39
	eS	54 04
	eSKS	54 39
GC	iP	15 45 02
	ipP	45 42.5

Date and Station		Phase (GCT) h m s
Jan. 18, cont.		
HONO	eP	15 40 33
	i	41 11
	e(S)	46 52
	eL	50 23
OV	iP	15 44 48
PF	iP	15 44 47
	ipP	45 59
	eS	54 13
SH	iP	15 44 29
	ipP	45 40
	e(S)	53 43
	e	54 09
TUC	iP	15 44 50
	ipP	46 02
	i	46 14
	eS	54 25
Jan. 18		
TUC	eP	16 06 58
Jan. 19		
TUC	eP	10 55 05
Jan. 19		
TUC	eP	12 48 41
Jan. 19		
TUC	eP	13 13 49
	e	14 55
Jan. 19		
TUC	eP	13 52 17
Jan. 19		
TUC	iP	16 28 13
Jan. 19		
TUC	iP	20 28 10
Jan. 19		
TUC	eP	22 40 18
Jan. 20		
TUC	iP	06 55 38

Date and Station		Phase (GCT) h m s
Jan. 20		
BER	e	17 16 50
	iPPP	18 10
	e	25 47
	e(SS)	34 20
	eL	49 30
BC	eP	17 07 23
	iP	07 25.3
	ePP	10 46
CHI	e(L)	17 45 22
COL	e(S)	17 18 19
	eSS	27 25
	eL	32 59
COLU	ePP	17 14 12
	e	21 25
	ePS	24 07
	eL	46 12
GC	eP	17 07 28.5
	e	09 13
HONO	e(P)	17 03 33
	e	04 41
	eS	10 33
	eSS	13 27
	eL	15 41
HUAN	ePP	17 13 47
	eSKKS	20 24
	ePS	23 20
	eSS	29 47
	eL	42 45
OV	eP	17 07 27
	i	08 03
PF	iP	17 07 06
	i	07 22
RC	ePP	17 12 18
	eL	48 40
SLC	eL	17 33 56
SJ	ePP	17 15 48
	ePKS	17 33
	e	19 32
	eSKKS	22 45

Date and Station		Phase (GCT) h m s
Jan. 20, cont.		
SJ, cont.		
	ePPS	17 27 14
	eSS	33 30
	eL	49 18
SH	eP	17 07 04
	ePP	10 24.5
	eS	17 58
	e	18 38
	e	19 06
SIT	eL	17 36 26
TUC	e	17 07 32
	ePP	10 48
	eSKS	18 22
	eL	32 46
UK	eL	17 29 16
Jan. 20		
TUC	eP	19 09 23
Jan. 20		
TUC	iP	22 50 13
	i	50 26
Jan. 21		
TUC	eP	11 39 11
Jan. 21		
TUC	iP	15 38 21
Jan. 21		
BC	eP	18 20 16
OV	eP	18 20 27
PF	eP	18 20 28.5
TUC	e(P)	18 20 10
	i	20 34
Jan. 21		
BC	iP	19 59 13.5
HUAN	e	19 49 57
	eL	50 17
OV	eP	19 59 16
PF	iP	19 59 11

Date and Station		Phase (GCT) h m s
Jan. 21, cont.		
TUC	iP	19 58 40
Jan. 21		
GC	e	23 20 26
Jan. 22		
BC	eP	03 19 14
BOZ	eL	03 44 46
HONO	e(L)	03 24 32
OV	eP	03 19 24
PF	eP	03 19 18
SH	eP	03 19 03.5
SIT	eL	03 42 40
TUC	eP	03 19 21
Jan. 22		
TUC	iP	09 14 27
Jan. 22		
TUC	eP	12 10 36
	iP	10 39
	e	14 50
Jan. 23		
BC	iP	01 56 17
OV	iP	01 56 17
PF	iP	01 56 19.5
SH	iP	01 55 29
TUC	iP	01 56 46
Jan. 23		
HUAN	e(P)	06 23 10
	i	23 27
	i(S)	23 42
	iL	23 54
TUC	iP	06 31 25
	e	32 12

Date and Station		Phase (GCT) h m s
Jan. 23		
TUC	eP	19 21 19
Jan. 24		
TUC	eP	02 30 56
Jan. 24		
HUAN	e	06 48 01
	e	52 05
	eL	07 50 05
SJ	e	06 39 03
	e	43 13
	e	53 25
	e	07 05 21
	e	09 31
	eL	41 07
TUC	e	06 38 40
	eL	07 12 06
Jan. 24		
SJ	iP	09 59 33
	i	59 41
	i	10 00 20
	iL	00 19
Jan. 25		
BC	eP	02 06 39
OV	eP	02 06 40.5
PF	eP	02 06 42
Jan. 25		
BER	e	04 33 48
	eL	37 15
BC	iP	04 37 43.5
	i	38 08
	i	39 51
	e	45 16
GC	eP	04 38 25
	iP	38 27
HUAN	e(P)	04 34 18
	eS	39 02
	iL	41 53
OV	iP	04 37 44

Date and Station		Phase (GCT)
		h m s
Jan. 25, cont.		
PF	iP	04 37 39
	i	37 51
SJ	eP	04 30 32
	iP	30 37
	i(S)	32 16
	iL	32 34
SH	iP	04 38 29
	i	39 15
TUC	iP	04 37 13
	i	37 43
	i	38 10
	e	40 16
Jan. 25, Many injured and slight property damage at Sion. Generally felt in southwestern Switzerland.		
BC	eP	17 44 13
BOZ	eL	18 10 26
BUT	eL	18 12 38
GC	eP	17 43 28.5
	e	44 33
PF	iP	17 44 11
RC	eP	17 43 12
	eSS	56 32
	eL	18 11 40
SLC	eL	18 11 51
SJ	eS	17 51 24
SH	eP	17 44 36
TUC	iP	17 44 19
	e	46 30
	ePP	47 40
	eS	54 40
	eL	18 16 23
UK	eL	18 19 44

Date and Station		Phase (GCT)
		h m s
Jan. 25		
TUC	iP	19 19 44
Jan. 26		
TUC	iP	02 01 04
	e	03 10
Jan. 26		
BC	eP	02 42 32
	iP	42 43
	i	43 02
GC	eP	02 41 46
	iP	41 56
OV	eP	02 42 36
	i	43 06
PF	iP	02 42 35
SH	eP	02 41 52
	iP	42 02.5
	i	42 18.5
	eS	51 31
TUC	eP	02 42 56
	i	43 06
	e	46 35
	e	54 24
	eL	03 11 11
Jan. 26		
BC	iP	16 54 53.3
GC	iP	16 54 18.1
	i	54 50
	e	56 33
	i	17 04 09
OV	eP	16 54 55.5
PF	iP	16 54 56
SH	iP	16 54 16.5
TUC	iP	16 55 15
	ipP	55 44
	e	58 49
Jan. 26		
BC	iP	18 27 02.5

Date and Station		Phase (GCT)
		h m s
Jan. 26, cont.		
OV	iP	18 27 05.5
PF	iP	18 27 06
SH	iP	18 25 57.5
TUC	iP	18 27 43
Jan. 26		
TUC	eP	20 50 35
Jan. 27		
BC	iP	01 24 49.5
	i	25 05
GC	iP	01 23 41.5
	e	23 56
OV	eP	01 24 51
PF	iP	01 24 52
SH	e	01 23 58.5
TUC	iP	01 25 20
	i	25 37
Jan. 27		
TUC	iP	07 25 21
	e	55 36
Jan. 27		
TUC	eP	15 10 31
Jan. 27		
BC	iP	21 37 58.5
PF	iP	21 37 55
TUC	eP	21 37 38
Jan. 28		
TUC	eP	06 50 55
Jan. 28		
BC	eP	12 52 41
	eL	56 11
CHI	eL	13 02 57

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
CC	iP	12 55 07
	e	56 30
OV	eP	12 52 49
	eL	56 35
PF	iP	12 52 40
	eL	56 07
RC	eL	13 00 40
SLC	eL	12 58 29
SH	eP	12 54 13
TUC	iP	12 51 37
	i	52 08
	i	52 42
	iL	53 18
Jan. 28		
BC	iP	15 12 37.3
COL	e	15 08 03
	e	09 27
	eL	09 45
GC	iP	15 10 55.5
	i	11 25
OV	iP	15 12 36.5
PF	iP	15 12 40
SH	iP	15 11 32
TUC	iP	15 13 20
	i	13 31
Jan. 28		
TUC	eP	17 04 25
Jan. 28		
TUC	e(P)	17 49 55
	e(L)	50 05
Jan. 28		
BC	eP	23 33 51.5
	e	37 29
PF	iP	23 33 48

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
TUC	eP	23 32 45
	e(S)	34 18
	i	34 40
	eL	34 54
Jan. 29		
BC	e(P)	06 33 01
	i	36 20.5
	i	36 33
BOZ	eL	06 41 12
CHI	eL	06 43 13
COLU	e	06 45 02
OV	e(P)	06 33 10
PF	eP	06 32 17
	e	33 13
RC	eL	06 41 07
SLC	eL	06 38 25
TUC	e(P)	06 31 16
	i	31 58
	e	32 44
	e(S)	32 48
	i	33 31
	iL	34 08
Jan. 29		
MONT	eL	18 16 06
Jan. 29		
BC	iP	19 01 43.5
	i	02 06
GC	eP	19 00 54
OV	eP	19 01 50
PF	iP	19 01 51
	i	02 08
SH	iP	19 01 05
	i	01 22
TUC	iP	19 02 14
	i	02 42
	i	02 52

Date and Station		Phase (GCT) h m s
Jan. 29		
TUC	eP	21 56 06
Jan. 30		
BC	e	00 18 38
Jan. 30		
SJ	e	09 10 13
	eL	11 24
TUC	e	09 13 40
Jan. 30		
TUC	eP	14 57 33
Jan. 31		
BC	e	23 25 39
PF	e	23 24 51
	e	25 42
SH	eP	23 24 36
TUC	iP	23 24 51
Feb. 1		
BH	e	00 47 11
BER	eS	00 57 11
	eL	59 15
BC	eP	00 54 13.5
GC	eP	00 55 25
HUAN	eP	00 49 11
	i	49 57
	eS	52 25
	eL	53 45
PF	eP	00 54 10.5
SJ	i	00 50 06
	i	50 11
	iS	53 44
	eL	57 24
TUC	eP	00 53 35
	iP	53 36
	ePP	54 53
	e	55 36
	e(S)	01 03 40
	eL	08 26

Date and Station		Phase (GCT) h m s
Feb. 1		
TUC	e	01 03 50
	e	06 20
	eL	09 45
Feb. 1		
BC	e	02 45 01
PF	e	02 45 06
Feb. 1		
BC	eP	05 24 25
	i	24 52
GC	e	05 24 43
PF	iP	05 24 28.5
SH	iP	05 24 07
TUC	iP	05 24 35
Feb. 2		
PF	eP	06 14 38.5
	e	14 50.0
TUC	eP	06 14 12
	i	14 23
Feb. 2		
TUC	eP	07 11 44
	iP	11 46
Feb. 2		
TUC	eP	13 33 29
Feb. 2		
BH	i	18 14 21
	i	14 38
Feb. 3		
TUC	eP	02 42 51
Feb. 3		
TUC	eP	02 50 57
Feb. 3		
TUC	e	04 42 24
Feb. 3		
TUC	iP	08 23 17

Date and Station		Phase (GCT) h m s
Feb. 3		
SH	iP	10 04 04
TUC	iP	10 04 19
Feb. 3		
TUC	eP	10 40 45
	e	40 49
	e	40 57
Feb. 3		
TUC	eP	11 20 42
Feb. 3		
BH	i	13 38 47
Feb. 3		
SH	eP	19 37 11.5
	i	37 21
Feb. 4		
BC	iP	03 53 00
	ipP	53 34.8
	i	54 33
	i	58 10
	i(S)	59 31
	i	04 00 26
	e	00 47
BOZ	eS	03 59 42
	e	04 01 38
	e	02 48
	eL	04 10
BUT	e	03 53 08
	eL	53 46
CHI	e	03 55 00
	e(S)	04 02 09
	eL	12 54
COL	e	03 49(07)
	e	49(39)
	eS	52(31)
	iS	52(42)
	isS	53(31)
	eL	55(15)
COLU	e	04 04 07
	eL	13 16

Date and Station		Phase (GCT) h m s
Feb. 4, cont.		
GC	iP	03 51 41.8
	i	52 14
	e	57 06
	i	57 32
	i	58 48
HONO	e(P)	03 51 29
	e	52 45
	eS	56 49
	eL	04 01 07
OV	iS	03 59 30
	i	04 00 04
	e	06 00
PHIL	e	04 04 45
	e	08 36
	eL	15 46
PF	iP	03 53 03
	i	53 08
	ipP	53 37
	iS	59 38.5
	i	04 00 38
	e	02 42
SLC	eP	03 53 19
	e	54 31
	ePP	55 15
	eS	59 09
	esS	04 00 27
	eScS	02 27
	eL	03 35
SJ	e	03 57 07
	eS	04 07 33
	i	07 46
	iPS	09 06
	e	16 48
	eL	23 31
SH	iP	03 51 58.5
	ipP	52 31
	e	53 16
	iPcP	54 03
	i	57 39
	iS	57 42.5
	iScS	04 01 49
	i	03 01

Date and Station		Phase (GCT)
		h m s
Feb. 4, cont.		
SIT	eP	03 50 25
	iP	50 28
	i	51 09
	iS	54 53
	i	55 45
	eL	57 45
TUC	iP	03 53 37
	ipP	54 12
	i	54 51
	e(PP)	55 30
	i	55 41
	i(ScP)	58 31
	iS	04 00 43
	e(SSS)	05 40
UK	eP	03 52 35
	eS	57 48
	eL	04 01 16
Feb. 4		
TUC	iP	14 31 34
Feb. 4		
HUAN	eP	16 01 03
	e(S)	01 39
	eL	01 48
TUC	iP	16 09 51
Feb. 5		
SJ	eP	12 46 40
	iS	46 52
	i	46 58
	iL	47 11
TUC	eP	12 54 14
	i	54 31
Feb. 5		
GC	iP	14 07 41
	i	07 42.2
	eS	08 00.5
	iS	08 01.5
Feb. 5		
BC	i	16 06 04
PF	iP	16 05 25.5
	i	06 15

Date and Station		Phase (GCT)
		h m s
Feb. 5		
TUC	eP	18 41 17
	e	41 39
Feb. 5		
TUC	eP	19 53 48
	i	54 08
Feb. 5		
TUC	eP	20 10 16
Feb. 6		
BC	e	10 20 59
OV	eP	10 19 45
PF	iP	10 19 39.5
Feb. 6		
TUC	eP	10 23 29
Feb. 6		
TUC	eP	10 55 45
	e	56 11
Feb. 6		
HUAN	iP	22 52 40
	iS	52 42
	iL	52 46
Feb. 6		
TUC	eP	23 33 47
	i	33 53
Feb. 7		
TUC	eL	05 32 11
Feb. 7		
TUC	eP	15 01 42
	i	01 46
	i	01 57
	iS	02 44
	i	03 03
	iL	03 10
Feb. 7		
BC	eP	15 05 20
PF	e	15 05 10
Feb. 8		
HUAN	eL	10 21 43

Date and Station		Phase (GCT)
		h m s
Feb. 8, cont.		
TUC	eP	10 19 23
Feb. 8		
SH	iP	23 15 56
	i	16 06
Feb. 9		
BC	eP	05 23 48.5
	iS	24 35
OV	iP	05 23 27.5
	iS	24 08
PF	eP	05 23 30.5
	iS	24 19.5
Feb. 9		
TUC	iP	09 49 20
Feb. 10		
BC	iP	00 23 24
OV	i	00 23 48
PF	iP	00 23 22
TUC	iP	00 23 43
Feb. 10. Felt in west-central California.		
BC	eP	11 02 37
	e	02 52
	iS	04 00
LOG	i	11 06 02
	i	06 09
	iL	06 27
OV	eP	11 02 33
	i	02 50.5
	eS	04 08
PF	iP	11 02 46.2
	i	03 01.2
	iS	04 18.2
SH	eP	11 02 25.8
	iP	02 28
	i	02 37
	eS	03 28
	iS	03 37

Date and Station		Phase (GCT) h m s
Feb. 10, cont.		
TUC	e(P)	11 03 39
	eS	05 02
	i	05 39
	i	05 59
	iL	06 32
UK	eL	11 03 06
Feb. 10		
BC	eP	19 24 50
PF	iP	19 24 33.5
TUC	eP	19 24 05
Feb. 11		
COL	eL	03 56 34
Feb. 11		
TUC	eP	04 13 02
Feb. 11		
TUC	eP	05 36 41
Feb. 11		
SJ	eL	13 46 19
Feb. 11		
HUAN	eL	23 17 04
Feb. 12. Destructive in Algeria; 276 persons reported killed and 70 injured.		
BC	iP	02 56 23.5
	iPP	59 51
	eS	03 07 15
GC	iP	02 55 50
	eS	03 06 00
PF	iP	02 56 20
SJ	e	02 54 07
	eS	03 02 40
	iS	02 44
	iScS	03 59
	eSS	06 46
	eL	12 34

Date and Station		Phase (GCT) h m s
Feb. 12, cont.		
SH	eP	02 56 22
TUC	eP	02 56 24
	iP	56 25
	eL	03 30 25
Feb. 12		
BC	e	06 33 15
	i	34 02
PF	e	06 34 06
Feb. 12		
HUAN	eL	08 35 48
Feb. 12		
HUAN	eSKS	13 34 35
	eSS	41 19
	eL	57 05
PF	eP	13 23 04
SJ	eSKS	13 36 42
	e	41 02
	eL	14 11 48
SH	eP	13 22 51
TUC	eP	13 23 04
	iP	23 08
	eS	33 41
	eL	52 18
Feb. 13		
TUC	iP	04 07 25
Feb. 13		
OV	eP	10 19 25
	iP	19 28
	eS	21 15
PF	iP	10 19 25.5
	i	19 39
	iS	20 12
Feb. 13		
BC	iP	20 43 59
PF	iP	20 44 00
TUC	eP	20 44 17

Date and Station		Phase (GCT) h m s
Feb. 13		
HUAN	eP	21 14 17
	eS	24 56
	eL	25 01
Feb. 14		
BC	eP	02 15 04
TUC	eP	02 15 13
	i	18 35
	i	19 17
Feb. 14		
BC	iP	02 18 18.2
	i	18 59
OV	iP	02 18 18.5
PF	iP	02 18 19.4
Feb. 14		
TUC	eP	07 12 14
	e	12 23
Feb. 14		
SH	iP	12 03 21
TUC	eP	12 03 15
Feb. 14		
BC	iP	17 01 35.5
	i	01 48
HUAN	e	16 50 02
	e	54 03
	e(L)	56 03
MONT	eP	16 50 37
	i(S)	50 46
	i	50 54
	eL	51 03
PF	eP	17 01 36
TUC	iP	17 01 08
	e	01 44
Feb. 15		
SH	iP	00 30 29
	e	30 44

Date and Station		Phase (GCT)
		h m s
Feb. 15. Property damage estimated at $250,000 in Washington and Oregon; most severe in Olympia, Tacoma, and Seattle.		
BER	e	03 36 21
	eL	40 22
BC	eP	03 20 55
	i	21 23.5
	i	21 47
	eL	24 20
BUR	e	03 32 01
	eL	35 04
BUT	eP	03 19 40
	e	20 25
	eS	20 55
	eL	21 16
CHI	eP	03 23 23
	iL	31 18
COL	e(S)	03 26(45)
	eL	29(13)
COLU	eL	03 35 12
GC	iP	03 18 28.6
	i	18 29.1
	i	18 34.7
	iS	18 58.9
	i	19 05.6
LIN	eP	03 22 24
	eS	26 15
	eL	28 16
LOG	eP	03 20 13
	e	20 27
	e	20 41
	i	21 13
	i(S)	22 24
	iL	22 57
NK	eL	03 33 30
OV	eP	03 20 52
	i	21 06
	eL	24 24.5

Date and Station		Phase (GCT)
		h m s
Feb. 15, cont.		
PHIL	eL	03 32 31
PF	eP	03 20 55
	eL	24 50
RC	eP	03 21 09
	iP	21 11
	eS	23 20
	iL	24 38
SLC	eP	03 20 19
	e	20 40
	eS	22 23
	eL	23 02
SEA	iP	03 17 56
	i	18 04
SH	iP	03 19 26.8
	i	19 37
	i	19 47.5
	i	19 50.5
	eS	20 33
	e	21 15
SIT	iP	03 20 47
	iS	24 10
	i	24 44
	iL	25 03
TUC	eP	03 21 53
	iP	21 54
	eS	24 51
	e	25 07
	iL	27 03
UK	e	03 20 12
	e	20 48
	eL	21 09
Feb. 15		
GC	eP	03 35 25.6
	iP	35 27.1
	iS	35 58.9
Feb. 15		
GC	eP	04 00 43.5
	i	01 11
	iS	01 17

Date and Station		Phase (GCT)
		h m s
Feb. 15		
GC	iP	04 11 24
	i	11 29
	i	11 52.5
	iS	12 01
Feb. 15		
GC	i	04 17 33.5
	i	17 41.5
	i	18 00.5
	iS	18 13.5
Feb. 15		
GC	iP	12 17 15.7
	i	17 21.5
	iS	17 46.3
	i	17 51.4
	i	17 52.5
Feb. 15		
GC	e(P)	12 58 36.8
	e	58 43.3
	i	58 48.3
	iS	59 16
Feb. 15		
HUAN	eP	15 52 48
	e	53 40
	eS	55 12
	iS	55 14
	eL	55 42
MONT	iP	15 50 26
	e	50 56
	eL	51 26
SJ	iS	16 05 58
	e(L)	27 00
SH	iP	16 01 26
TUC	iP	16 00 16
	ipP	00 35
Feb. 15		
BC	iP	16 09 34.5
GC	eP	16 10 30
MONT	e	15 59 06
	e	59 20
	e(S)	16 00 38
	eL	00 48

Date and Station		Phase (GCT) h m s
Feb. 15, cont.		
OV	iP	16 09 37
PF	iP	16 09 32
SH	iP	16 10 14
TUC	iP	16 09 04
Feb. 15		
TUC	eP	19 20 43
Feb. 16		
BC	iP	07 08 46
COL	e	07 08(35)
	eL	12(38)
GC	eP	07 07 21.5
OV	iP	07 08 49
PF	iP	07 08 50
SH	iP	07 07 46.5
	e	08 26
	ePP	09 16
	e	14 10
TUC	iP	07 09 22
	eL	27 35
Feb. 16		
TUC	eP	07 33 39
Feb. 16		
GC	e	09 08 09
Feb. 16		
BC	eP	20 16 28.5
	iP	16 44.5
	i	16 57
GC	iP	20 17 02
	e	19 57
OV	eP	20 16 40
	iP	16 46
	i	16 58

Date and Station		Phase (GCT) h m s
Feb. 16, cont.		
PF	iP	20 16 42
	i	16 56
	i	17 09
SH	eP	20 16 25
TUC	eP	20 16 43
	eL	36 09
Feb. 16		
BC	eP	21 35 12
	e	35 42
	e	36 01
GC	eP	21 36 09
HONO	eL	21 42 02
HUAN	eSKS	21 48 08
	e	48 47
	eSS	56 11
	eL	22 08 41
PF	eP	21 35 50
RC	eL	22 08 23
SLC	eL	22 02 32
SJ	eL	22 21 00
SH	eP	21 35 37.5
TUC	e	21 35 34
	e	35 58
	eL	58 45
Feb. 16		
BER	e	22 23 38
	eL	55 03
BC	eP	22 08 07
	eS	13 47
COL	eS	22 19(05)
	eL	33(29)
COLU	eL	22 47 12
GC	eP	22 08 31
	i	09 32

Date and Station		Phase (GCT) h m s
Feb. 16, cont.		
HONO	eL	22 10 07
HUAN	eSKS	22 19 06
	e	21 15
	eSS	26 37
	eL	39 51
PHIL	e	22 25 13
	e	39 54
	eL	50 23
PF	iP	22 08 13
	eS	17 49
RC	eL	22 41 00
SLC	eL	22 29 06
SJ	eL	22 43 12
SH	eP	22 07 56
	eS	18 00
TUC	iP	22 08 16
	eL	30 11
Feb. 17		
GC	iP	03 57 35.2
	i	57 42.8
	i	57 46.3
	iS	58 11.3
Feb. 17		
BC	eP	09 53 13
	e	53 28
GC	eP	09 53 44
OV	eP	09 53 34
PF	eP	09 53 19
	e	53 34.5
SH	e	09 52 47
	e	53 11
TUC	e	09 53 34
Feb. 17		
TUC	iP	11 44 11

Date and Station		Phase (GCT) h m s
Feb. 17		
BC	iP	14 33 34
OV	iP	14 33 36
PF	iP	14 33 36.5
SH	iP	14 32 52.5
TUC	eP	14 33 59
Feb. 18		
BER	e	00 45 50
	e	51 18
	e	57 42
	eL	01 14 20
BC	e	00 31 18.5
CHI	eL	01 12 11
COL	e	00 39(38)
	eL	48(22)
COLU	eL	01 19 28
GC	iP	00 28 54
	e	29 27.3
HONO	eL	00 41 58
HUAN	e	00 39 17
	e	40 13
	e	50 37
	e	56 21
	eL	01 11 42
PHIL	e	00 57 47
	eL	01 09 54
PF	e	00 29 20
	e	30 12
SJ	e	00 39 53
	e	53 26
	e	01 00 28
	eL	24 16
SH	eP	00 29 38
SIT	eL	01 52 04

Date and Station		Phase (GCT) h m s
Feb. 18, cont.		
TUC	e	00 31 31
	e	34 16
	eL	01 01 35
Feb. 18		
TUC	e	00 59 46
Feb. 18		
BER	eL	13 02 32
BC	eP	17 36 14
	e	36 38.3
BUT	eL	17 39 36
GC	eP	17 34 51
	iP	34 59.1
	eS	38 41
	e	39 59
OV	eP	17 36 18
PF	iP	17 36 20
RC	eP	17 36 16
	eL	45 00
SH	e	17 34 32
	e	35 47
TUC	eP	17 37 15
	iP	37 27
UK	eL	17 36 40
Feb. 19		
OV	iP	00 54 55
Feb. 19		
GC	iP	16 43 28
Feb. 19		
BER	eL	19 51 20
Feb. 19		
TUC	e	22 28 25
Feb. 21		
TUC	iP	08 03 09

Date and Station		Phase (GCT) h m s
Feb. 21		
TUC	e	15 17 16
Feb. 21		
TUC	e	15 56 59
	e	16 01 06
Feb. 21		
TUC	eP	16 13 06
Feb. 21		
BC	eP	22 54 45
	e	56 12
	i	56 47
OV	eP	22 54 55
PF	eP	22 54 50.9
TUC	eP	22 54 11
	i	54 25
	i(S)	55 06
	i	55 23
	iL	55 52
Feb. 20		
TUC	e	00 09 52
Feb. 20		
BER	e	04 03 25
	e	13 32
	eL	40 00
BC	iP	03 40 33
	e	59 29
	eSKS	04 00 07
COL	eL	03 43(33)
COLU	e	04 08(01)
	eL	11(35)
GC	iP	03 39 13
	i	39 19.5
	i	55 20
HUAN	eP'	04 04 16
	e	06 48
	eSKKS	13 22
	e	15 50
	eSSS	28 00
	eL	34 08

Date and Station		Phase (GCT) h m s
Feb. 20, cont.		
OV	iP	03 40 32
	e	40 58
PHIL	eL	04 38 16
PF	iP	03 40 36
RC	e	04 07 26
	e	10 02
	e	15 42
	eL	38 16
SLC	e	04 07 06
	eL	41 07
SJ	e	04 04 46
	e	05 41
	e	10 08
	e	16 12
	eL	49 42
SH	eP	03 39 25
	iP	39 36
TUC	iP	03 41 03
	i	41 15
	eL	04 26 36
Feb. 20		
TUC	eP	04 00 29
	e	03 06
Feb. 20		
TUC	e	04 11 45
Feb. 20		
SJ	e	09 47 46
TUC	eP	09 39 41
Feb. 20		
TUC	e	11 47 30
Feb. 20		
TUC	eP	13 23 57
Feb. 20		
TUC	eP	18 00 12

Date and Station		Phase (GCT) h m s
Feb. 22		
TUC	eP	12 35 27
	e	36 02
Feb. 22		
TUC	eP	14 45 37
Feb. 22		
BC	iP	14 49 00.5
	i	49 24
GC	eP	14 49 24
OV	iP	14 49 08
	i	49 28
PF	eP	14 49 06
SH	eP	14 48 46
	e	48 56
TUC	iP	14 49 08
	e	49 15
	i	49 31
Feb. 22		
BER	eL	17 37 00
BC	iP	17 30 25
	e	30 57
	e	31 17
	eS	39 38
	e	40 52
GC	eP	17 31 55
	i	32 29
	e	32 45
	iPP	33 27
	e	35 31
	e(S)	38 12
HUAN	eP	17 31 11
	e	32 03
	iS	36 20
	eL	38 53
PHIL	e	17 31 25
	eL	35 39
PF	iP	17 30 22.5
	e	30 59.0
	e	40 02.0

Date and Station		Phase (GCT) h m s
Feb. 22, cont.		
OV	iP	17 30 29
RC	e(P)	17 30 36
	eS	36 48
	eL	39 48
SJ	e	17 30 16
	eL	34 53
SH	iP	17 31 30
	i	32 01
	e	32 50
TUC	iP	17 29 41
	ipP	30 15
	i	30 16
	eS	33 46
	eL	35 16
Feb. 23		
GC	iP	08 54 53.3
	i	54 57.8
	i	55 05.3
	iS	55 29.8
Feb. 24		
TUC	iP	01 02 53
Feb. 24		
PF	iP	02 12 38
Feb. 24		
TUC	iP	02 21 40
Feb. 24		
BC	iP	05 22 54.3
	i	22 55.9
	i	23 27.6
OV	iP	05 23 08
	eS	23 50
PF	iP	05 23 00
	iS	23 45
Feb. 24		
BC	iP	06 08 40.5
	iP	08 44.4
	iS	09 21
	i	09 23
	i	09 26

Date and Station		Phase (GCT)
		h m s
Feb. 24, cont.		
OV	eP	06 08 48
	i	09 01
PF	iP	06 08 47.6
	iS	09 45.1
Feb. 24		
TUC	iP	09 16 13
Feb. 24		
BER	e	09 48 45
	e	52 13
	e	10 02 40
	e	07 25
	e	11 12
	e	21 12
	eL	44 31
BC	eP	09 47 45
	e	48 04
COL	e	09 52 18
	eL	58 14
HUAN	e	09 49 53
	e	54 17
	e	10 00 16
	e	06 52
	e	14 03
	eL	19 40
OV	eP	09 47 49
PHIL	e	10 11 00
	eL	32 43
PF	eP	09 47 42
SJ	e	09 48 35
	e	10 00 22
	e	04 06
	e	14 07
	eL	46 26
SH	e	09 47 17
	eP	47 46
SIT	e	09 53 38
	eL	10 16 15
TUC	e	09 47 49
	e	49 47

Date and Station		Phase (GCT)
		h m s
Feb. 24, cont.		
TUC, cont.		
	e	09 59 15
	eL	10 20 24
Feb. 24		
BH	e	13 50 57
	e	51 39
BC	iP	13 48 33.5
	ipP	50 40.1
OV	eP	13 48 37
PF	iP	13 48 36
SH	eP	13 48 22.5
TUC	iP	13 48 39
	epP	50 46
Feb. 24		
BER	eL	23 51 40
BC	eP	23 52 05
PF	eP	23 52 02
SJ	e	23 45 42
	e	47 50
	eS	49 52
	eL	50 52
Feb. 25		
BER	e	02 06 20
	e	12 13
	eL	23 27
BC	iP	01 58 52
	e	02 00 33
CHI	eL	02 48 16
HUAN	eP	01 50 28
	e	51 20
	eS	59 01
	e	02 04 12
	eL	11 03
OV	eP	01 59 11
PHIL	eL	02 34 14

Date and Station		Phase (GCT)
		h m s
Feb. 25, cont.		
PF	eP	01 58 50
SJ	e	01 53 12
	e	56 00
	e	58 35
	eS	02 03 20
	eSS	08 59
	eL	20 13
SH	iP	01 59 06
	e	02 02 30
SIT	eL	02 56 33
TUC	eP	01 58 42
	eL	02 07 27
Feb. 25		
BC	eP	12 02 48
	e	02 51.5
OV	eP	12 02 58
	e	03 21
PF	eP	12 02 51
TUC	iP	12 01 54
Feb. 25		
TUC	eP	12 47 37
Feb. 25		
TUC	eP	13 37 13
	e	42 31
Feb. 25		
BC	eP	17 42 30
	e	43 02
	eS	43 43
	iS	43 51
OV	eP	17 42 56
	i	44 11.5
	e	44 33.5
PF	eP	17 41 31
	e	43 08
TUC	eP	17 40 36
	i	40 51
	i	40 55

Date and Station		Phase (GCT) h m s
Feb. 25, cont.		
TUC, cont.		
	i(S)	17 41 42
	i	41 59
	iL	42 39
Feb. 25		
BC	iP	20 10 21.5
	i	10 29
BC	eP	20 09 14
OV	iP	20 10 23
PF	iP	20 10 24
SH	iP	20 09 31
TUC	iP	20 10 52
Feb. 26		
TUC	eP	05 44 16
Feb. 26		
BH	e	09 56 49
	e	57 32
Feb. 26		
BH	e	15 51 31
Feb. 26		
BC	eP	19 21 57
SH	iP	19 21 09
Feb. 26		
BH	e	19 30 40
	e	31 37
Feb. 27		
BH	e	02 48 31
	e	49 19
Feb. 27		
TUC	e	04 24 35
	e	25 03
	e(S)	25 36
	e	26 13
	i	26 30
	iL	26 58

Date and Station		Phase (GCT) h m s
Feb. 27		
BC	iP	06 16 56
	i	17 58
	eS	26 12
	e	26 43
HUAN	eP	06 08 55
	iS	11 24
	iL	12 03
MONT	eP	06 06 32
	iP	06 37
	iS	07 09
	eL	07 17
OV	iP	06 16 59
	e	17 57
	eS	26 16
SJ	iS	06 18 46
	iL	22 06
SH	iP	06 17 35
	e	18 39
	iS	27 25
TUC	iP	06 16 27
	ePP	44 20
Feb. 27		
TUC	eP	07 27 08
Feb. 27		
TUC	eP	13 23 19
Feb. 27		
BC	iP	16 44 29.5
OV	eP	16 44 34
SH	iP	16 44 09
TUC	iP	16 44 40
Feb. 28		
BER	e	02 42 22
	e	52 30
	e	03 05 34
	e	14 28
	eL	39 00

Date and Station		Phase (GCT) h m s
Feb. 28, cont.		
BC	eP	02 41 25
COL	e(S)	02 46 03
	e	52 29
	eL	03 04 30
HUAN	e	02 43 37
	e	03 00 38
	eSS	07 40
	e	13 20
	e	14 36
	eL	30 58
OV	e	02 41 32
PF	e	02 41 23
SJ	e	02 43 32
	e	50 56
	e	57 48
	e	03 07 47
	eL	41 02
SH	e	02 41 18
SIT	eS	02 49 52
	eSS	54 33
	eL	03 08 28
TUC	e	02 41 34
	e	43 10
	e	52 53
	eL	03 13 22
Feb. 28		
OV	e	23 21 03
	eS	21 43
PF	iP	23 20 45.4
	eS	21 36.4
Mar. 1		
TUC	iP	01 14 58
Mar. 1		
TUC	eP	12 01 54
Mar. 1		
TUC	iP	20 53 01

Date and Station		Phase (GCT) h m s
Mar. 2		
TUC	eP	06 08 20
Mar. 2		
BC	iP	07 55 36.5
BOZ	eL	08 04 26
BUT	eL	08 03 51
CHI	eL	08 10 25
COL	eP	07 49 37
	i	49 45
	i	50 11
	iS	50 30
	i	50 39
	i(L)	50 51
COLU	eL	08 16 10
GC	eP	07 53 53
	eS	57 33
	eL	08 01 40
OV	eP	07 55 35
PHIL	eL	08 14 32
PF	iP	07 55 38.5
SH	iP	07 54 34.5
SIT	eL	07 53 08
TUC	iP	07 56 17
	e	57 26
	e	58 13
Mar. 2		
TUC	eP	13 02 44
Mar. 2		
TUC	eP	19 12 09
Mar. 2		
BC	iP	23 37 21
PF	iP	23 37 21
SH	eP	23 37 31

Date and Station		Phase (GCT) h m s
Mar. 2, cont.		
TUC	iP	23 37 29
	e	38 45
	e	39 11
Mar. 3		
TUC	iP	04 55 41
Mar. 3		
HUAN	eP	04 56 58
	iS	57 53
	iL	58 01
Mar. 3		
HUAN	eP	04 57 00
	iS	57 50
	iL	58 00
TUC	eP	05 05 54
Mar. 3		
TUC	iP	05 37 31
Mar. 3		
BC	eP	10 43 15
PF	iP	10 43 18
TUC	iP	10 43 32
Mar. 3		
COL	e	18 35 43
	eL	36 23
TUC	e(P)	18 42 10
Mar. 4		
BH	iP	12 40 12
	iS	40 35
Mar. 4		
TUC	eP	21 31 36
Mar. 4		
TUC	e(P)	23 55 36
Mar. 5		
TUC	eP	04 27 35
Mar. 5		
GC	eP	04 58 14.5

Date and Station		Phase (GCT) h m s
Mar. 5		
OV	iP	14 02 14.0
	iS	02 50
PF	iP	14 02 15.5
	iS	02 58
SH	eP	14 05 12.5
	iP	05 15
	i	05 19.5
	eS	05 46
Mar. 6		
TUC	eP	01 31 02
Mar. 6		
BC	iP	13 22 06.7
	i	22 36.7
GC	eP	13 21 01
	i	21 48
OV	eP	13 22 07
PF	iP	13 22 09.5
	i	22 40
	e(S)	31 13
SH	iP	13 21 18
	i	21 48
TUC	iP	13 22 36
	e	23 06
	e	24 48
Mar. 6		
TUC	e	16 00 36
Mar. 6		
GC	eP	23 45 34
TUC	e	23 43 20
Mar. 7		
SJ	eL	05 43 42
Mar. 7		
PF	iP	11 00 34.5
TUC	eP	11 01 01

Date and Station		Phase (GCT) h m s
Mar. 7		
TUC	iP	11 35 36
	e	36 32
Mar. 7		
BC	eP	16 50 43.5
	e	51 06
GC	eP	16 50 13
OV	eP	16 50 48
PF	iP	16 50 43.5
SH	eP	16 50 38
TUC	eP	16 50 55
	iP	51 00
Mar. 7		
TUC	eP	17 46 13
Mar. 7		
HUAN	eL	17 44 02
Mar. 7		
BC	iP	19 13 44
	i	14 35.5
	i	15 33
OV	eP	19 14 46
	i	15 51
PF	eP	19 14 27.5
	i	15 47.5
Mar. 7		
BC	eP	20 59 25
OV	eP	20 59 34
PF	eP	20 59 24.5
TUC	iP	20 58 29
Mar. 8		
BC	eP	02 28 31
	i	32 44
COL	eL	02 29 00
GC	eP	02 27 16

Date and Station		Phase (GCT) h m s
Mar. 8, cont.		
OV	eP	02 28 34
	i	32 47
PF	eP	02 28 36
	i	32 47
SH	iP	02 27 32
	i	32 25
TUC	eP	02 29 10
	i	29 14
	e	30 21
	e	32 51
Mar. 8		
TUC	iP	05 39 03
Mar. 8		
HUAN	eS	11 12 50
	eL	16 02
TUC	e	11 10 27
Mar. 8		
BC	eP	18 42 19
PF	eP	18 42 15
TUC	e(P)	18 42 34
	e	44 58
	e	45 53
	e	46 19
Mar. 8		
BC	eP	21 42 06
PF	eP	21 42 17
SH	e	21 42 08
TUC	eP	21 42 16
	e	43 37
Mar. 9		
BC	iP	16 28 24.7
	i	28 11
	iS	36 23
BOZ	eL	16 45 10
COL	eS	16 28 38
	eL	30 04

Date and Station		Phase (GCT) h m s
Mar. 9, cont.		
GC	iP	16 27 05.5
OV	iP	16 28 26
PHIL	eL	16 57 02
PF	iP	16 28 27.5
	iS	36 28
RC	eP	16 28 28
	ePcP	29 14
	ePP	30 24
	e	31 52
	iS	36 26
	iScS	38 14
	eL	48 32
SJ	e(S)	16 47 06
	eL	17 08 30
SH	iP	16 27 29
	eScS	32 40
SIT	eL	16 37 00
TUC	iP	16 28 59
	ePP	31 18
	ePPP	32 34
	eL	48 47
	eP'P'	58 07
Mar. 9		
TUC	iP	21 32 59
Mar. 9		
BER	eL	21 57 17
BC	eP	21 59 43
	iP	59 58.5
PHIL	eL	22 04 00
PF	iP	21 59 39
	i	59 53
SJ	iP	21 51 52
	iS	52 10
	iL	52 32
TUC	eP	21 59 12

Date and Station		Phase (GCT) h m s
Mar. 9		
TUC	e(P)	22 12 49
Mar. 10		
SH	iP	04 15 47
	eS	16 05
	e	16 19
Mar. 10		
HUAN	eP	04 24 25
	eS	24 44
	eL	24 53
Mar. 10		
TUC	e(P)	05 30 01
Mar. 10		
BH	iP	08 25 00
	iS	25 28
Mar. 10		
TUC	e	08 52 49
Mar. 10		
SH	eP	10 27 00
	iP	27 08.5
Mar. 10		
PF	eP	19 36 00
	i	37 02
TUC	iP	19 36 06
	i	36 14
	e	37 22
Mar. 10		
TUC	iP	22 29 14
Mar. 11		
GC	eP	05 10 56
OV	eP	05 13 17
PHIL	eL	05 29 53
PF	eP	05 13 19
RC	iP	05 14 34
	e	16 44
SH	eP	05 11 39
TUC	iP	05 14 15

Date and Station		Phase (GCT) h m s
Mar. 11		
GC	eP	09 15 40
SH	eP	09 15 36
Mar. 11		
TUC	iP	13 00 30
Mar. 12		
BER	eS	00 23 53
	i	24 30
	eSS	29 05
	e	33 00
	eL	37 00
BC	eP	00 13 20
	iP	13 24
	eS	22 46
BOZ	eL	00 37 36
CHI	eL	00 38 07
COLU	eP	00 13 33
	eS	22 55
	eScS	24 09
	e	25 43
	e	27 41
	eL	33 31
GC	eP	00 14 28
HONO	eL	00 36 38
HUAN	eP	00 09 05
	iPP	10 33
	ePcP	11 12
	iS	14 47
	iL	17 40
OV	eP	00 13 27
PHIL	eS	00 24 17
	eSS	29 08
	eSSS	32 57
	eL	35 38
PF	eP	00 13 17
	iP	13 21
	eS	22 46

Date and Station		Phase (GCT) h m s
Mar. 12, cont.		
RC	eP	00 14 10
	e	19 08
	iS	24 04
	e	29 22
	eL	35 20
SLC	eS	00 23 29
	eSS	28 54
	eL	34 49
SJ	iP	00 12 40
	e	15 51
	e	17 06
	eS	21 20
	e	25 26
	eL	29 22
SH	eP	00 13 51
	iP	13 55
	e	23 49
TUC	iP	00 12 55
	i	13 03
	eS	21 56
	e	25 27
	eL	29 50
	eP'P'	41 31
Mar. 12		
BC	e	02 41 02
	e	41 15
BOZ	eL	03 21 00
COL	eS	02 44 50
	eL	03 06 08
HUAN	eL	03 20 20
OV	eP	02 41 21
PHIL	eL	03 09 29
PF	e	02 40 37
RC	eL	03 11 40
SLC	ePS	02 50 12
	eL	03 21 41

Date and Station		Phase (GCT) h m s
Mar. 12, cont.		
SJ	eSS	02 54 18
	eL	03 17 30
SIT	e(S)	02 44 04
	eL	03 17 24
TUC	eP'	02 40 41
	ePP	41 39
	e	44 08
	eL	03 08 57
Mar. 12		
PF	iP	04 47 01
Mar. 12		
BC	e	08 49 22
	e	49 26
OV	e	08 49 33
PF	e	08 49 31
SH	eP	08 49 15
TUC	eP	03 49 29
Mar. 12		
HUAN	eL	11 00 16
Mar. 13		
PF	eP	00 06 05
	e	09 33
TUC	eP	00 06 13
	e	07 28
	e	09 40
	eL	46 28
Mar. 13		
TUC	e	01 16 31
Mar. 13		
PF	eP	07 31 51
TUC	eP	07 31 25
	e	31 36
Mar. 13		
BC	eP	08 59 44

Date and Station		Phase (GCT) h m s
Mar. 13, cont.		
HUAN	e	09 10 16
	eL	30 36
OV	eP	08 59 44
PF	eP	08 59 45
	i	59 50
SH	eP	08 59 40
SIT	e(P')	09 00 12
	eL	35 28
TUC	e	08 59 44
	eL	09 39 10
Mar. 13		
TUC	eP	15 32 54
Mar. 13		
BER	eL	18 54 22
Mar. 13		
TUC	eP	19 32 36
	e	32 47
Mar. 14		
TUC	iP	21 24 41
Mar. 15		
BER	eL	04 03 08
BC	eP	03 15 41
	e	15 45
BOZ	eL	03 44 11
CHI	e	03 48 37
	eL	55 02
COL	eS	03 21 52
	eSS	26 10
	eL	29 04
GC	iP	03 15 08.5
	i	15 25
HONO	e	03 19 42
	eL	27 33
HUAN	eL	04 08 16

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
LOG	iP	03 15 47
	e	16 28
	eS	26 12
	eL	44 19
OV	eP	03 15 49
PHIL	eL	03 52 37
PF	eP	03 15 44
	e	15 48
RC	eP	03 16 08
	e	21 32
	eSKS	26 34
	eS	26 56
	e(PS)	33 08
SLC	eP	03 15 47
	eS	26 07
	e	32 14
	eL	44 43
SJ	e	03 25 50
	e	36 08
	e	42 32
	eL	04 07 22
SH	eP	03 15 03
	iP	15 08
	e	18 03
TUC	eP	03 16 06
	iP	16 07
	ePP	19 38
	e	20 38
	e	26 10
	eSS	33 30
	eL	44 08
Mar. 15		
BC	iP	04 50 20.5
GC	i(P)	04 49 05.5
OV	iP	04 50 20
PF	iP	04 50 23.5
SH	iP	04 49 27
	e	49 58
	e	56 58

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
TUC	iP	04 50 54
Mar. 15		
OV	iP	05 20 39.6
	iS	21 12.6
PF	iP	05 20 41
	i	20 48
	iS	21 28
Mar. 15		
BER	ePP	08 07 40
	e	08 28
	ePS	17 35
	ePPS	19 20
	eSS	25 05
	eL	48 25
BC	eP	07 58 12
BOZ	eS	08 09 31
	e	11 53
	eL	25 35
CHI	ePS	08 14 26
	eSS	20 49
	eL	33 29
COL	e	07 59 06
	eS	08 46
	e	13 42
	eL	21 36
COLU	eSKS	08 12 14
	ePS	15 14
	e	17 24
	e	25 20
	eL	38 12
GC	eP	07 58 45
	e	58 56
	i	59 30
HONO	e	08 01 57
	eL	06 23
HUAN	ePP	08 05 24
	ePS	14 12
	e	15 28
	eSS	20 52
	eSSS	25 20
	eL	37 00

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
LOG	ePP	08 03 40
	ePS	11 34
	eL	28 37
OV	eP	07 58 46
PHIL	ePP	08 16 14
	e	23 33
	eSS	32 12
	eL	45 45
PF	eP	07 58 45
RC	eSKS	08 10 08
	ePS	12 48
	eSS	17 50
	eL	32 30
SLC	ePS	08 11 27
	eSS	16 57
	eSSS	19 55
	eL	23 35
SJ	e	08 02 52
	ePP	07 37
	i	08 15
	ePS	17 24
	e	29 32
	eL	44 25
SH	iP	07 58 24
	e	58 57
SIT	eS	08 09 06
	eL	26 08
TUC	iP	07 58 52
	e	59 28
	e	08 02 21
	ePPP	04 59
	e(S)	09 22
	ePS	11 15
	ePKKP	16 18
	eSSS	19 28
	eL	23 05
	e(P'P')	24 26
UK	e(S)	08 09 40
	eL	24 00

Date and Station		Phase (GCT) h m s
Mar. 15		
BH	iP	08 50 30
	iS	51 16
Mar. 15		
TUC	e	10 25 24
Mar. 15		
BER	eL	13 36 00
BC	iP	13 21 42.8
	i	21 46.7
BOZ	eP	13 23 49
	e	24 47
	e(S)	26 21
	iL	26 53
BUT	eP	13 23 43
	e	24 14
	i(S)	26 09
	iL	26 48
CHI	eP	13 26 23
	ePP	26 51
	eS	30 51
	iS	30 52
	eL	33 13
COL	eL	13 37 42
COLU	e	13 34 42
	eL	36 28
GC	iP	13 24 00.5
	i	24 14
	i	24 41
HONO	eL	13 37 03
LIN	iP	13 25 12
	iS	28 46
	iL	30 06
LOG	iP	13 23 00
	i	23 03
	i	23 34
	i	23 58
	iS	24 50
	iL	25 07
NK	eP	13 36 28

Date and Station		Phase (GCT)
		h m s
Mar. 15, cont.		
OV	iP	13 21 50
PHIL	i	13 27 51
	e	33 17
	e	35 20
	eL	37 02
PF	iP	13 21 52
RC	iP	13 24 24
	i	24 46
	iS	27 12
	iL	28 00
SLC	eP	13 22 51
	i	23 19
	i	24 13
	iL	24 37
SJ	eL	13 40 50
SEA	eP	13 26 11
	eS	27 35
	eL	28 33
SH	iP	13 22 32.5
	i	22 45
	i	22 48
	i	22 52
	i	23 09
	i	23 38
	i	23 48
SIT	e(P)	13 26 16
	eS	31 04
	eL	33 04
TUC	iP	13 22 42
	e	23 03
	i	23 24
	i(S)	23 57
	iL	24 05
UK	eP	13 22 20
	i	22 44
	i	23 20
	eS	23 26
	i	23 38
	iL	24 08

Date and Station		Phase (GCT)
		h m s
Mar. 15		
BC	e	13 27 26.4
SH	i	13 30 36.5
	i	30 49
Mar. 15		
BC	e	13 31 20.5
PF	e	13 31 35
Mar. 15		
OV	e	13 35 20
PF	e	13 35 15
SH	i	13 36 51
Mar. 15		
BC	iP	13 41 07.5
OV	iP	13 41 12
PF	iP	13 41 19
SH	i	13 42 59
	i	43 25
TUC	i(P)	13 42 02
	iS	43 11
	iL	44 01
Mar. 15		
BC	iP	13 48 06
HUAN	iP	13 40 14
	iS	41 12
	i	41 24
	iL	42 12
OV	iP	13 48 05
PF	iP	13 48 03
RC	eP	13 48 04
SH	iP	13 48 50.5
TUC	iP	13 47 32
	i(pP)	48 19
	i	49 28

Date and Station		Phase (GCT)
		h m s
Mar. 15, Felt in central and southern California. Slight property damage.		
BER	eS	14 04 25
	eL	07 42
BC	iP	13 50 18.4
	i	50 22.4
	i	50 26.9
BOZ	eP	13 52 21
	i	53 29
	e(S)	54 35
	iL	55 25
BUT	eP	13 52 21
	i	52 51
	i	53 11
	eS	54 24
	i	54 44
	iL	55 26
CHI	iP	13 54 57
	ePP	55 13
	i	55 31
	iS	59 27
	i	14 01 04
	eL	01 49
COL	eL	14 04 28
COLU	eL	14 03 00
GC	iP	13 52 36
	eL	55 18
HONO	eL	14 05 35
HUAN	eS	14 03 32
	e	09 11
	eSS	13 04
	eL	16 00
LIN	i(S)	13 57 18
	iL	58 58
LOG	iP	13 51 35
	i	52 00
	iL	53 36

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
OV	iP	13 50 22
PHIL	e	13 56 26
	eS	14 01 52
	iL	07 27
PF	iP	13 50 28
RC	iP	13 52 59
	i	53 07
	iS	55 26
	iL	56 12
SLC	eP	13 51 23
	i	51 51
	i	51 55
	iL	52 53
SJ	eS	14 05 20
	eL	09 22
SEA	eP	13 54 35
	e(S)	56 18
	eL	56 30
SH	iP	13 51 09.2
	i	51 21
	i	51 26.5
	i	52 05
	i	52 20
	i	52 40
SIT	eS	13 59 08
	eL	14 00 40
TUC	iP	13 51 17
	i	51 27
	i	51 47
	iS	52 32
	i	52 43
	i	52 50
	iL	53 05
UK	eP	13 51 04
	i	51 38
	e	51 40
	iL	52 10
Mar. 15		
BC	i(P)	14 01 18.4

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
OV	i(P)	14 01 12
PF	i(P)	14 01 28
SH	eP	14 02 10.5
	iP	02 14
	e	03 08
	eS	03 20
	e	03 36
	i	03 42
Mar. 15		
SLC	eP	14 03 05
Mar. 15		
BC	iP	14 08 56.6
	i	08 58.6
	iS	09 33
PF	iP	14 09 00
	i	09 13
	iS	09 50
TUC	eP	14 08 31
Mar. 15		
PF	iP	14 20 47
	i	20 55
	iS	21 38
TUC	iP	14 21 07
Mar. 15		
BC	iP	15 00 52.0
	i	00 55.8
	i	00 57.8
OV	e(P)	15 00 59
PF	iP	15 01 00
	i	01 03
SLC	e(P)	15 03 59
Mar. 15		
BC	iP	19 19 36.1
	i	19 42.5
	iS	20 09.5
	i	20 18
BOZ	e(S)	19 24 53
	iL	25 09

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
BUT	e	19 24 41
	eL	25 03
CHI	eL	19 31 37
GC	eP	19 21 53
	e	24 46
	e	25 34
LOG	eP	19 20 57
	e	21 16
	eS	22 47
	i	23 00
	iL	23 08
PHIL	eL	19 36 23
PF	iP	19 19 45
RC	iP	19 22 22
	e(S)	25 30
	eL	26 16
SLC	eP	19 21 02
	eS	22 30
	iL	22 40
SEA	eL	19 27 30
SH	i(P)	19 20 30
	i	20 45
	i	21 33
	i	21 56
TUC	iP	19 20 35
	i	20 57
	i	21 05
	i(S)	21 39
	iL	22 02
UK	eP	19 20 48
	eS	21 40
	eL	22 14
Mar. 15		
BC	iP	19 25 23.5
	i	25 29
	iS	26 04.5
PF	iP	19 25 38
	iS	26 13

Date and Station		Phase (GCT) h m s
Mar. 15		
BC	iP	19 49 38.5
	i	49 43
	i	50 12
	i	50 18.5
PF	iP	19 49 48
	i	49 52
	i	50 17
	iS	50 33
Mar. 15		
BC	iP	21 55 16
	i	55 21
	i	55 51.5
BOZ	eL	22 00 47
COLU	eL	22 10 32
GC	e	21 57 23
	e	22 00 22
LOG	e	21 56 39
	e	57 02
	e(S)	58 30
	iL	58 43
PF	iP	21 55 25
RC	eP	21 58 00
	eS	22 00 40
	eL	01 53
SLC	eP	21 56 54
	eS	58 14
	iL	58 36
SH	e	21 56 06
	i	56 24
	e	57 14
	i	57 33
SJ	eL	22 23 44
TUC	iP	21 56 15
	i	56 34
	i(S)	56 39
	i	56 50
	iL	57 09

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
UK	e	21 57 18
	eL	57 52
Mar. 15		
BC	iP	22 54 43
	i	54 49
	e	55 21
	iS	55 25
PF	iP	22 54 52
	i	54 59
	i	55 15
	iS	55 45
Mar. 15		
BC	iP	23 43 10.5
	i	43 17
	iS	43 52
PF	iP	23 43 20.5
	i	43 28
	iS	43 54
Mar. 16		
BH	iP	07 32 16
	iS	32 41
Mar. 16		
BC	iP	09 47 00.5
	i	47 06
	i	47 36
	iS	47 42
LOG	e	09 50 20
	i	51 01
	eL	51 25
PF	iP	09 47 10
	i	47 12
	i(S)	47 53
RC	eP	09 49 42
	eL	54 12
SLC	eL	09 50 04
SH	e	09 47 54
	i	47 50
	i	48 13
	i	48 21

Date and Station		Phase (GCT) h m s
Mar. 16, cont.		
TUC	iP	09 47 59
	i	48 28
	i(S)	49 17
	iL	49 33
Mar. 16		
PF	iP	10 32 54
	i	33 05
	iS	33 45
Mar. 16		
TUC	iP	11 19 04
Mar. 16		
GC	eP	11 44 24.5
	i	44 33
SH	iP	11 44 35
	i	44 42.5
	e	49 44
Mar. 16		
BC	iP	13 17 50.7
	i	17 56
	iS	18 32
Mar. 16		
PF	iP	13 25 31
	i	25 41
	iS	26 19
Mar. 16		
TUC	e	14 35 25
Mar. 16		
BC	iP	17 57 25.8
	eS	57 59.3
PF	iP	17 57 39
	iS	58 22
Mar. 16		
TUC	e	18 47 39
Mar. 16		
BC	eP	19 54 40.5
	iP	54 46.5
	eS	55 21.5

Date and Station		Phase (GCT) h m s
Mar. 16, cont.		
PF	iP	19 54 50
	i	54 59
	iS	55 39
Mar. 16		
BC	iP	21 41 31.5
	e	42 00.5
	e	42 07
PF	iP	21 41 36
	i	41 44
	iS	42 28
Mar. 16		
TUC	eP	23 30 47
	iP	30 48
Mar. 16		
BC	iP	23 45 17.5
	e	45 52.5
PF	iP	23 45 22
	i	45 30
	iS	46 13
Mar. 17		
BC	iP	06 04 30
	i	04 36
	i	05 13
PF	iP	06 04 40
	i	04 49
	iS	05 29
SH	e	06 05 33
	i	06 02
	e	06 47
TUC	e	06 07 16
	eL	07 49
Mar. 17		
BC	iP	08 17 18
	i	17 24
	i	17 25.5
	eS	17 58
PF	iP	08 17 28
	i	17 37
	iS	18 19

Date and Station		Phase (GCT) h m s
Mar. 17, cont.		
SH	eP	08 18 18
	e	18 25
	eS	19 40
TUC	eL	09 20 16
Mar. 17		
BC	eP	09 05 25
	iP	05 31
	iS	06 00.3
	i	06 05
PF	iP	09 05 40
	iS	06 27
Mar. 17		
BC	iP	09 26 35.6
	i	26 42
	iS	27 17
PF	iP	09 26 45
	i	26 55
	iS	27 36
SH	iP	09 26 03.6
	i	26 04.6
	eS	26 19.6
	e	26 23.1
Mar. 17		
TUC	eP	12 45 47
Mar. 17		
BC	iP	14 46 51.5
	e	46 59.5
	i	47 03.5
	e	47 28
BUT	e	14 50 45
	eL	51 25
CHI	eL	14 58 48
COL	eL	15 05 12
GC	e	14 48 41
	i	49 07
	e	50 51
	e	51 03

Date and Station		Phase (GCT) h m s
Mar. 17, cont.		
LOG	eP	14 47 45
	e	48 49
	eL	49 03
PF	iP	14 46 57.5
	e	47 05
	i	48 26
RC	eP	14 49 22
	eL	52 58
SLC	eP	14 47 50
	iS	48 44
	iL	49 58
SH	iP	14 46 53.8
	i	47 03
	i	47 26
	e	48 10
	e	48 28
TUC	iP	14 48 02
	i	48 42
	iS	49 14
	i	50 06
	iL	50 33
Mar. 17		
BC	eP	20 54 42
	iP	54 44.7
	eS	55 17.7
PF	eP	20 54 50
	iP	54 57
	iS	55 40
Mar. 17		
PF	eP	21 09 40
Mar. 17		
HUAN	e	22 07 07
	eL	26 48
PHIL	eL	22 11 27
TUC	e	23 20 49
Mar. 18		
BC	eP	01 15 52.1
	iP	15 57.9
	eS	16 34.5

Date and Station		Phase (GCT) h m s
Mar. 18, cont.		
PF	eP	01 16 02
	iP	16 11
	eS	16 57
Mar. 18		
BC	eP	03 01 03
	iP	01 08
	eS	01 42.5
PF	eP	03 01 13
	iP	01 20
	iS	01 59
Mar. 18		
BC	eP	05 44 22.5
	i	44 28.5
	eS	45 03.5
PF	eP	05 44 32
	iP	44 42
	iS	45 26
Mar. 18		
BC	iP	10 06 37.7
	i	06 41.7
	i	06 43.7
	eS	07 19
PF	iP	10 06 47
	i	06 56
	iS	07 33
SLC	eL	10 09 39
SH	eP	10 07 29
	eS	08 37
TUC	iP	10 07 37
	i	08 10
	iS	08 46
	iL	09 08
Mar. 18		
BC	eP	15 05 16
	iP	05 19
	eS	05 53
PF	iP	15 05 33
	eS	06 15

Date and Station		Phase (GCT) h m s
Mar. 18		
BC	iP	15 50 07
	i	50 14
	e	50 45
	i	51 22
BOZ	e(S)	15 56 32
	eL	57 06
BUT	e	15 56 36
	eL	57 38
CHI	eL	16 04 02
COL	eL	16 10 19
COLU	eL	16 06 40
GC	i	15 55 52
	e	57 13
	e	58 04
LOG	eP	15 52 45
	eS	54 45
	i(L)	54 48
PHIL	eL	16 08 04
PF	iP	15 50 16
	i	50 24
	i	50 51
RC	iP	15 54 04
	iL	58 12
SLC	eP	15 52 57
	e	53 29
	iS	54 17
	iL	54 49
SH	eP	15 51 01
	e	51 08
	e	52 05
	e	52 18
	e	52 29
	i	53 39
	i	53 45
TUC	iP	15 52 22
	i	52 48
	iS	53 29
	iL	53 54

Date and Station		Phase (GCT) h m s
Mar. 18, cont.		
UK	eP	15 52 34
	e(S)	53 40
	eL	53 58
Mar. 18		
BC	eP	16 04 28
	iP	04 32
	iS	05 04
PF	eP	16 04 35
	iP	04 45
	iS	05 26
Mar. 18		
BC	eP	16 55 02
	iP	55 07
	i	55 37
	i	55 45.5
PF	eP	16 55 20.5
	iP	55 30.5
Mar. 18		
TUC	e(P)	20 52 42
Mar. 18		
BC	eP	21 13 11.5
	iP	13 14.5
	eS	13 46.5
PF	eP	21 13 20
	iP	13 26
	eS	14 08
Mar. 19		
BC	eP	08 16 25
	iP	16 29
	eS	17 02
PF	eP	08 16 35.5
	iP	16 41.5
	eS	17 23.5
Mar. 19		
BC	eP	08 46 24
	iP	46 30
	eS	47 03
PF	eP	08 46 34
	iP	46 44
	eS	47 31

Date and Station		Phase (GCT) h m s
Mar. 19, cont.		
SH	e	08 48 45
Mar. 19		
TUC	iP	12 30 45
	e	32 46
	e	34 11
Mar. 20		
BOZ	eL	05 16 46
TUC	eP	04 43 02
	eL	05 11 19
Mar. 20		
BER	eL	05 28 20
BOZ	eL	05 29 46
BUT	eL	05 31 00
CHI	eL	05 27 07
COLU	e	05 24 52
	eL	30 28
LIN	eL	05 24 00
PHIL	e	05 29 55
	eL	30 26
RC	eL	05 25 20
SLC	eL	05 14 21
SJ	e	05 27 41
	eL	30 13
TUC	iP	05 17 39
	i	17 52
	i	19 17
	e	21 13
Mar. 20		
TUC	iP	05 25 12
Mar. 21		
BH	iP	02 07 03
	iS	07 19
Mar. 21		
TUC	eP	06 28 29

Date and Station		Phase (GCT) h m s
Mar. 21		
PF	eP	10 49 56
	iP	50 05
	eS	50 47
Mar. 21		
BC	e(P)	13 13 14.5
	i	13 22.5
	i	13 24.5
	eS	13 54
PF	eP	13 13 26
	iP	13 33
	eS	14 13
Mar. 21		
TUC	eP	19 01 21
Mar. 22		
SJ	eL	03 07 21
Mar. 22		
BC	eP	04 24 03
	iP	24 05
	iS	24 39
PF	eP	04 24 12
	iP	24 18
	iS	25 00
Mar. 22		
BH	eP	06 28 05
	eS	28 57
Mar. 22		
BC	eP	10 09 00.6
	iP	09 19
	iS	09 51.5
PF	eP	10 09 15
	iP	09 31
	iS	10 14
Mar. 22		
BC	eP	12 36 51.5
	iP	36 57
	eS	37 55
PF	eP	12 37 00
	iP	37 09
	iS	37 52

Date and Station		Phase (GCT) h m s
Mar. 22		
TUC	eP	12 51 42
	e	51 49
	e	52 06
Mar. 23		
BH	eP	03 52 27
	iS	53 10
Mar. 24		
TUC	iP	00 49 18
Mar. 24		
BC	iP	02 57 28.4
	i	57 34.3
	eS	58 07
PF	iP	02 57 37.5
	i	57 45
	iS	58 31
Mar. 24		
BC	iP	05 18 09.3
	i	18 16.1
	eS	18 52
PF	iP	05 18 19.5
	i	18 25
	iS	19 09
Mar. 24		
TUC	iP	05 28 04
	e	28 30
Mar. 24		
BC	iP	15 45 59
	i	46 10
BOZ	eL	16 15 10
COL	eL	16 16 17
COLU	eL	16 31 40
HONO	e	15 56 22
HUAN	e	16 24 18
	eL	39 10
PF	iP	15 46 02
	i	46 15
RC	eL	16 22 26

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
SLC	eL	16 13 53
SH	eP	15 45 45
	iP	45 46.2
TUC	eP	15 46 06
	iP	46 07
	e	49 45
	e(S)	55 08
	e	59 13
	eL	16 15 22
UK	eL	16 13 08
Mar. 24		
BC	iP	20 00 46
	i	00 52
	e	01 17
	eS	01 27
PF	iP	20 00 56
	i	01 03
	i	01 16
	eS	01 45
SH	eP	20 01 52
	e	02 42
	e	03 07
Mar. 24		
BH	i	21 19 34
	i	21 11
BC	eP	21 26 09.5
HUAN	eP	21 20 36
	e	21 08
	e	21 22
	eS	23 00
	iL	23 40
PF	eP	21 26 08
SJ	iP	21 22 34
	iPP	23 08
	iS	26 54
	i	27 12
	eL	28 12
SH	eP	21 27 04.5

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
TUC	iP	21 25 31
	e	27 03
	eL	40 40
Mar. 25		
TUC	iP	03 55 17
	e	04 02 02
	e(L)	02 18
Mar. 25		
BH	i	07 19 13
Mar. 25		
BH	e	08 50 23
	i	52 29
BER	eL	08 54 46
BC	iP	08 55 08
BOZ	e	09 05 53
	eL	07 05
BUT	eL	09 09 40
CHI	eL	09 00 50
COL	eL	09 21 59
COLU	eP	08 54 24
	e(S)	56 24
	eL	57 40
GC	iP	08 51 00
HUAN	e	08 55 16
	e	57 00
	e(S)	09 01 04
	eL	04 30
LIN	eL	09 04 56
PHIL	e	08 52 18
	e(S)	55 53
	eL	58 21
PF	iP	08 55 02
RC	e	09 02 24
	e	04 36
	eL	05 28

Date and Station		Phase (GCT) h m s
Mar. 25, cont.		
SLC	eL	09 08 05
SJ	e(P)	08 50 08
	i(S)	51 20
	iL	51 57
SH	iP	08 56 00.5
	i	57 39
SIT	eL	09 17 34
TUC	iP	08 54 33
	iPP	55 44
	i	57 05
	e	09 12 15
UK	eL	09 14 08
Mar. 25		
BC	iP	11 08 11
	i	08 16
	eS	08 52
PF	iP	11 08 25
	i	08 29
	eS	09 14
Mar. 25		
BH	e	22 19 47
BER	eL	22 28 30
BC	iP	22 22 40
	e	25 41
	eS	32 26
CHI	eL	22 34 04
COLU	e(P)	22 21 32
	e(S)	25 38
	eL	30 26
GC	iP	22 24 10
	i	24 42
	i	25 46
HUAN	e(P)	22 23 00
	eS	28 04
	eL	30 10

Date and Station		Phase (GCT)
		h m s
Mar. 25, cont.		
PHIL	e	22 20 53
	e	24 09
	eL	28 14
PF	iP	22 22 35
	e	22 45
	eS	32 27
RC	e	22 23 00
	eL	26 04
SLC	(eP)	22 22 58
	eL	35 34
SJ	e	22 22 06
	e	23 18
	e	27 11
	eL	29 08
SH	eP	22 23 36
	e	23 41
TUC	iP	22 21 55
	e	23 36
	eS	26 28
	iS	26 31
	i	27 40
	eL	29 26
UK	eL	22 35 28
Mar. 25		
BC	iP	23 37 27.8
	i	37 34
	eS	38 04
	e	38 09
PF	iP	23 37 37.6
	i	37 47.1
	eS	38 30.6
SH	eP	23 38 21
	eS	38 45
TUC	iP	23 38 26.5
	i	39 03
	i(S)	39 36
	iL	40 16
Mar. 26		
BH	e	00 12 21
	e	13 05

Date and Station		Phase (GCT)
		h m s
Mar. 26		
BER	e(P')	17 29 10
	ePP	31 35
	e(PPP)	34 35
	e	42 50
	ePPS	45 00
	e(SS)	51 40
	eL	18 10 00
T_{SS}= 12 sec. A = 1.0 mm.		
T_L = 20 sec. $A_{max.}$= 2.2 mm.		
BC	eP'	17 28 08
	e	28 17.5
	e(PP)	30 41
	i(PKS)	31 47
BOZ	e	17 30 33
	e	43 36
	eL	57 00
CHI	ePP	17 31 42
	e	38 34
	e	49 58
	eL	13 06 14
COL	e	17 27 20
	e(S)	33 44
	e	36 34
	e(SS)	40 56
	e	46 38
	eL	50 56
COLU	e	17 42 49
	e	43 47
	eSS	48 43
	eL	18 17 51
GC	i(P')	17 28 02
	iPP	28 49
HONO	eL	18 02 11
HUAN	e	17 30 02
	ePP	34 16
	e	39 14
	eSKKS	41 40
	ePPS	48 40
	eSS	54 12
	e	18 06 12
	eL	13 00

Date and Station		Phase (GCT)
		h m s
Mar. 26, cont.		
LIN	e	17 31 47
	eL	18 26 19
LOG	e(P')	17 28 19
	ePPP	31 43
	i	32 10
	eL	18 15 20
PHIL	e(P')	17 28 37
	ePP	31 54
	ePKS	32 23
	e	38 47
	ePS	42 05
	e	44 36
	eSS	49 22
	e	18 00 22
	eL	05 12
PF	e(P')	17 28 16
	e	28 23
	e	30 51
RC	eP'	17 28 28
	ePKS	31 51
	eSKS	35 43
	eL	18 19 23
SLC	i(PKS)	17 31 56
	eL	18 05 00
SJ	e(P')	17 29 06
	e(PP)	33 40
	e	35 37
	eSKS	41 54
	ePPS	48 40
	iSS	53 49
	eSSS	18 00 20
	eL	16 45
SEA	eL	18 18 18
SH	eP'	17 28 03.5
	e	29 55
SIT	eL	18 07 54
TUC	eP'	17 28 20
	i	28 39
	ePP	31 18
	iPKS	32 05
	eSKKS	36 41
	e(S)	38 14

Date and Station		Phase (GCT) h m s
Mar. 26, cont.		
TUC, cont.		
	ePPS	17 41 48
	i	45 05
	e	49 28
	eL	18 05 20
UK	e	17 32 34
	e(SS)	47 12
	e(SSS)	52 26
	eL	18 09 44
Mar. 26		
TUC	eP	21 00 33
Mar. 26		
BC	eP	22 40 27.3
	iP	40 33
	eS	41 06
PF	eP	22 40 39.4
	iP	40 45.9
	eS	41 25.4
Mar. 27		
SH	iP	00 57 54.5
	e	58 02
	e	58 10
	e	58 10.7
Mar. 27		
TUC	e	02 46 28
Mar. 27		
BC	e	06 04 15
GC	iP	06 04 33
	i	05 03
	e	06 23
	e	06 58
HUAN	eL	06 20 08
PF	e	06 04 16
TUC	iP	06 04 08
	e	05 06
	e	07 22
	e	08 09
Mar. 27		
TUC	e(P)	09 18 29

Date and Station		Phase (GCT) h m s
Mar. 27		
BC	eP	11 17 40.5
	iP	17 46.5
	eS	18 21
PF	eP	11 17 50
	iP	17 59.5
	eS	18 44
Mar. 27		
TUC	iP	18 39 49
Mar. 27		
SJ	eL	19 00 22
TUC	iP	19 00 27
Mar. 27		
TUC	e	23 49 32
	e	51 11
	eL	00 43 34
Mar. 28		
TUC	iP	17 54 30
Mar. 29		
BC	iP	00 45 19.6
	i	45 23.3
	eS	45 58
PF	iP	00 45 34
	iS	46 17
Mar. 29		
BC	iP	05 51 57.5
	i	52 24.5
PF	iP	05 51 00
	i	51 29
TUC	iP	05 51 08
	ipP	51 36
Mar. 29		
BC	iP	07 26 17.7
HUAN	eP	07 20 51
	iS	23 26
	iL	24 25
PF	iP	07 26 14

Date and Station		Phase (GCT) h m s
Mar. 29, cont.		
SJ	iP	07 21 54
	e	22 32
	iS	25 34
	eL	26 13
TUC	iP	07 25 40
	ePP	27 25
Mar. 29, Felt in region of Guayaquil, Ecuador.		
BH	i	07 28 37
	eL	32 00
BER	eP	07 33 20
	ePP	34 45
	eS	39 15
	iL	41 20

T_P = 12 sec. A = 1.0 mm.
T_{PP} = 16 sec. A = 2.0 mm.
T_S = 18 sec. A = 2.2 mm.
T_L = 20 sec. A = 3.5 mm.
T_L = 18 sec. $A_{max.}$ = 4.5 mm.

BC	e(P)	07 34 55
	eS	42 02
BOZ	eL	07 53 13
BUT	e	07 36 09
	eS	43 25
	eSS	47 33
	eL	57 15
CHI	eP	07 34 21
	ePP	36 01
	e	36 47
	e	40 01
	eS	40 35
	eScS	44 19
	eL	45 13
COL	e(P)	07 38 38
	ePP	41 52
	e	43 54
	eS	48 38
	e	50 14
	eSS	54 06
	eSSS	57 28
	eL	08 00 06

Date and Station		Phase (GCT) h m s
Mar. 29, cont.		
COLU	e	07 33 02
	ePP	34 24
	eS	38 40
	eL	41 54
GC	eP	07 36 13
	e	40 36
HONO	e(S)	07 48 19
	eL	08 02 06
HUAN	iP	07 28 58
	iS	31 15
	i	31 40
	iL	32 05
LIN	eP	07 34 34
	e(PcP)	35 38
	iS	40 58
	eL	44 32
PHIL	eP	07 33 58
	iPcP	35 15
	ePP	36 03
	iS	40 14
	eL	44 42
PF	iP	07 34 52
	i	35 11
RC	eP	07 35 04
	ePcP	36 02
	ePP	36 54
	e	38 12
	eS	42 14
	e(ScS)	44 10
	eSS	46 12
	eL	47 10
SLC	eP	07 35 26
	ePP	37 25
	iS	42 26
	eL	46 20
SJ	iP	07 31 26
	i	31 58
	iS	36 02
	iL	37 50
SEA	eL	07 58 21

Date and Station		Phase (GCT) h m s
Mar. 29, cont.		
SH	eP	07 35 47
SIT	iS	07 47 08
	iSS	51 46
	eL	56 30
TUC	iP	07 34 15
	ipP	34 32
	i(sP)	34 48
	iPP	35 44
	iPPP	36 36
	i	37 09
	eS	40 46
	i	42 01
	eL	43 58
UK	eS	07 43 42
	eSS	48 04
	eL	50 40
Mar. 29		
HUAN	e(P)	19 59 06
	eS	20 01 58
	eL	03 10
TUC	iP	20 02 54
Mar. 29		
BH	e	20 08 53
	i	10 17
HUAN	eP	20 10 22
	eS	13 03
	eL	13 33
TUC	iP	20 15 13
	i	15 19
Mar. 30		
BH	e	00 04 10
	i	05 34
BER	eL	00 16 10
BC	iP	00 11 07.3
HUAN	eP	00 05 36
	eS	08 25
	eL	09 48
PF	iP	00 11 03

Date and Station		Phase (GCT) h m s
Mar. 30, cont.		
SJ	iP	00 06 42
	e	08 30
	iS	10 21
	eL	11 20
TUC	eP	00 10 29
	iP	10 30
	i	11 39
Mar. 30		
PF	iP	00 27 08
TUC	iP	00 27 12
	i(pP)	27 28
Mar. 30		
TUC	eP	04 02 08
Mar. 30		
TUC	iP	11 55 51
Mar. 30		
TUC	eP	15 33 15
Mar. 30		
HUAN	eP	17 25 53
	e(S)	28 13
	eS	28 26
	eL	29 00
SJ	e	17 26 55
	e(S)	30 33
	eL	31 00
TUC	iP	17 30 42
Mar. 30		
TUC	iP	22 05 52
	e	11 38
Mar. 30		
SJ	eL	00 03 10
TUC	iP	23 54 18
Mar. 31		
TUC	eP	06 30 54
	e	35 52
Mar. 31		
BC	iP	07 13 23
	i	13 26

Date and Station		Phase (GCT) h m s
Mar. 31, cont.		
PF	iP	07 13 23
	i	13 29
TUC	iP	07 13 18
	i	13 25
Mar. 31		
TUC	iP	07 31 44
	e	33 36
Mar. 31		
BC	eP	13 53 12
	iP	53 13
	eS	53 48
PF	eP	13 53 19
	iP	53 20
	eS	54 03
Mar. 31		
TUC	eP	17 28 40

Local and Minor Quakes

day	hour
BER	
Jan.	
13	19.5
Feb.	
19	04.0
COL	
Jan.	
4	18.1
21	23.2
26	07.3
Feb.	
6	01.2
13	13.0
Mar.	
5	07.4
6	13.4
8	12.9
15	00.7
GC	
Feb.	
15	04.0
	07.0
	07.6
	08.0
	09.7
	11.4
	16.5
	19.5
	22.8
	22.9
HUAN	
Jan.	
1	15.4
2	10.9
5	01.6
	07.7
10	03.8
15	09.4
16	07.5
18	17.4
	22.4
21	04.9
	17.9
26	14.6
28	08.2

day	hour
HUAN	
Feb.	
3	02.0
	07.7
	12.1
5	01.5
6	23.6
8	06.4
10	01.2
	01.3
11	12.8
	16.9
12	02.7
	03.1
15	01.7
	10.8
	16.0
17	08.9
	23.8
25	14.2
Mar.	
3	05.7
	06.7
	19.3
4	01.2
6	00.8
	11.1
10	15.5
15	16.0
20	18.4
22	03.7
	07.7
27	07.5
	18.6
	19.0
MONT	
Jan.	
16	07.5
29	18.3
Feb.	
12	19.7
26	06.0
RC	
Mar.	
2	08.1

day	hour
SJ	
Jan.	
4	00.6
14	17.7
16	15.8
19	11.6
24	10.0
26	02.2
30	09.2
Feb.	
9	13.1
18	12.2
22	15.6
24	13.2
Mar.	
2	03.0
5	00.8
	22.3
10	13.8
	17.3
12	11.4
15	10.5
16	13.5
29	20.8
TUC	
Jan.	
2	00.0
	20.2
	21.2
	21.7
3	04.2
	07.7
4	10.1
	18.1
	21.7
	22.3
5	08.0
	08.7
	15.3
	16.4(2)
	20.7
6	02.1
	11.0
	16.0
	16.3
8	12.2
10	10.6
	11.7

day	hour
TUC, cont.	
Jan., cont.	
10	22.1
11	15.5
	16.9
12	07.3
14	07.0
15	22.6
	23.6
16	11.2
17	12.4
	18.0
18	00.7
	18.8
	23.1
19	10.9
20	00.5
21	05.4
24	23.7
26	21.9
	22.8
27	20.5
28	21.8
	21.9
	23.1
	23.6
	23.7
29	00.1
	00.4
	00.8
	01.4
	09.8
	17.0
30	10.7
	11.8
31	16.3
Feb.	
1	00.4
	00.9
	05.4
	20.5
2	01.8
4	09.4
5	16.1
	23.1
	23.1
6	10.3
	21.8
9	05.4
12	21.8

day	hour
TUC, cont.	
Feb., cont.	
13	07.5
	10.2
16	08.9
	20.7
17	07.2
20	08.5
	11.2
	16.8
21	23.0
22	07.8
	10.8
	13.3
	13.5
	14.2
	21.2
23	06.9
	07.4
	21.0
24	06.2
	22.2
	23.9
25	09.7
	10.8
	13.5
	22.0
	23.2
26	00.1
	08.5
	19.6
27	13.2
	13.7
	16.0
	22.8
28	06.1
	06.6
	06.7
	07.1
	23.3
Mar.	
1	13.3
	21.5
	22.5
2	03.3
	20.5
	20.8
5	21.0
7	19.2
	19.3

day	hour
TUC, cont.	
Mar., cont.	
9	18.2
11	12.5
12	03.8
	15.4
14	00.0
	16.5
	16.5
	20.1
15	01.6
	02.0
	04.1
	11.8
	14.0
	14.5
	14.7
	15.0
	15.5
	15.6
	15.8
	15.8
	15.9
	16.0
	16.4
	16.7
	16.7
	17.3
	17.6
	17.6
	17.7
	17.8
	18.6
	18.7
	19.2
	19.3
	19.8
	20.2
	20.7
	21.9
	22.2
	22.7
	22.7
	22.9
	23.7
	23.8
16	00.3
	01.0
	01.0
	02.0
	02.0

Local and Minor Quakes, cont.

day	hour
TUC, cont.	
Mar., cont.	
16	04.2
	05.3
	08.3
	13.2
	13.5
	18.0
	19.9
	20.2
	21.7
	23.8
17	03.0
	08.5
	09.1
	09.5
	13.6
	14.8
	20.9
	21.2
	21.3
	21.4
18	01.3
	01.8
	02.6
	03.0
	03.3
	05.8
	09.0
	10.1
	10.4
	11.6
	15.1
	15.9
	15.9
	16.1
	16.9
	18.5
	21.3
19	03.0
	06.3
	08.3
	08.8
	22.5
	22.6
20	04.3
21	03.2
	13.2
	18.1
	19.6
22	04.4
	09.9
	10.3

day	hour
TUC, cont.	
Mar., cont.	
22	12.6
	20.6
23	09.7
	10.9
24	03.0
	05.3
	10.3
	20.0
25	05.0
	06.8
	09.3
	11.2
	23.7
26	06.1
	10.4
	11.2
	11.4
	18.3
	22.7
27	11.3
28	00.9
29	08.4
	20.8
	22.1
31	13.9
UK	
Jan.	
7	15.9
Mar.	
16	09.8
17	14.8