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SEISMOLOGICAL BULLETIN

October, November, December, 1947

MSI - 132

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

U. S. COAST AND GEODETIC SURVEY—WASHINGTON

R. F. A. Studds, Director

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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
*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
*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
*Overton, Nev. (OV)
Bureau of Reclamation and
National Park Service
**Philadelphia, Pa. (PHIL)
The Franklin Institute
*Pierce Ferry, Ariz. (PF)
National Park Service
*Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
**Seattle, Wash. (SEA)
University of Washington
*Shasta, Calif. (SH)
Bureau of Reclamation
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory

*Indicates a station maintained by a local institution in cooperation with the U. S. Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
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 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 U. S. 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, Pennsylvania.

SEISMOGRAM INTERPRETATION

Date and Station		Phase (GCT) h m s
Oct. 1		
BC	iP	12 36 32
HUAN	iP	12 28 01
	iS	28 21
	iL	29 14
SH	eP	12 37 21
TUC	iP	12 35 55
	i	36 06
	i	37 24
Oct. 1		
BC	eP	12 44 24
	e(pP)	44 54
CHI	ePP	12 50 39
	ePS	13 00 08
	eSS	06 44
	eL	23 32
GC	eP	12 44 28
	epP	44 57
	epPP	48 20
OV	iP	12 44 26
	ipP	44 59
PF	iP	12 44 27
	ipP	44 57
SH	eP	12 44 04
	epP	44 37
	esP	47 50
SIT	eS	12 54 06
	e(sS)	54 26
SLC	epS	12 55 55
	e(sPS)	57 28
TUC	iP	12 44 34
	ipP	45 07
	isP	45 13
	epPP	48 39
Oct. 1		
PHIL	eL	14 38 13

Date and Station		Phase (GCT) h m s
Oct. 1, cont.		
HUAN	eP	17 30 23
	iS	30 43
	iL	31 13
OV	e(P)	17 39 57
PF	e(P)	17 39 53
SH	e(P)	17 40 45
TUC	e(P)	17 39 24
Oct. 1		
OV	iP	19 12 09.5
PF	iP	19 12 05
SJ	eP	19 04 01
	eS	04 11
	iS	04 13
Oct. 1		
BER	eL	21 34 17
BC	iP	21 36 00
GC	eP	21 36 46
OV	iP	21 36 02
PF	iP	21 36 25
SJ	eP	21 29 07
	i	29 20
	i	29 44
	iS	29 52
SH	eP	21 36 49
TUC	eP	21 35 27
	e	35 49
Oct. 1		
SIT	eP	23 50 27
	e(S)	53 52
	i	56 16

Date and Station		Phase (GCT) h m s
Oct. 2		
SH	iP	02 05 24.5
Oct. 2		
BC	e(P)	05 03 21
COL	eP	04 57 07
	iS	57 32
PF	e(P)	05 03 22
SH	e(P)	05 02 19
Oct. 2		
HUAN	eP	05 50 04
	iS	50 10
Oct. 2		
BC	iP	10 00 06
	ipP	00 47
OV	iP	10 00 21
	i(pP)	01 02
PF	iP	10 00 08
	i(pP)	00 49
	e	03 33
SH	iP	09 59 28.5
TUC	eP	10 00 27
	epP	01 05
	e	04 02
Oct. 2		
SH	e(P)	10 34 22
Oct. 2		
TUC	e(P)	15 00 25
	i	00 30
Oct. 2		
PHIL	eL	18 02 34
Oct. 2		
BC	iP	22 49 27
PF	iP	22 49 22

Date and Station		Phase (GCT) h m s
Oct. 2, cont.		
TUC	eP	22 48 30
Oct. 3		
SJ	eP	02 00 50
	eS	01 12
	eL	01 15
Oct. 3		
BC	eP	05 13 34
PF	eP	05 13 23
SH	eP	05 13 12
TUC	eP	05 13 23
Oct. 3		
BER	ePP	06 38 30
	epPP	39 26
	e(PPP)	40 46
	eS	46 07
	i(SP)	46 46
	eSPP	48 40
	e(SSS)	59 07
	eSKPP'	07 01 31
	eL	06 00
T_L = 18 sec. $A_{max.}$ = 5mm.		
BC	iP	06 32 49
	ipP	34 17
	iPP	36 07
	eS	42 38
BOZ	iS	06 42 09
BUT	eS	06 41 50
	eScS	41 56
	e(SP)	43 32
	eSS	47 30
	e	50 21
COL	eP	06 29 55
	iS	37 08
	e(ScS)	40 02
	eSS	41 05
	eL	43 35
GC	iP	06 32 00.5
	epP	33 24

Date and Station		Phase (GCT) h m s
Oct. 3, cont.		
GC	iS	06 41 07
	eScS	41 38
HUAN	eP'	06 39 49
	e	41 11
	ePP	42 53
PHIL	epPP	06 39 29
	eS	45 03
	eSS	52 36
	eL	07 02 48
PF	eP	06 32 36
	iP	32 51
	ipP	34 20
	iPP	36 10
	eS	42 36
RC	eP	06 33 00
	i	33 10
	esP	34 37
	eScS	42 46
	iS	42 58
	eSP	44 06
SLC	eP	06 33 02
	epP	34 28
	eS	42 46
	iS	42 48
	e	45 22
	ePS	46 53
	e	48 14
SH	iP	06 32 09
	ipP	33 34.5
	eS	41 22
TUC	iP	06 32 42
	i	33 11
	ipP	34 38
	e(PP)	35 23
	iPP	36 47
	e	39 17
	eS	43 08
	ipS	44 37
	esS	44 50
	e(SS)	49 42
	e(SSS)	53 30
	eL	58 38

Date and Station		Phase (GCT) h m s
Oct. 3, cont.		
UK	eS	06 41 20
Oct. 3		
BUT	eL	07 17 21
Oct. 3		
BC	iP	08 16 15
	i(pP)	16 27
	i	17 43
	e(S)	23 41
GC	eP	08 17 56
	e(pP)	18 15
	e	19 21
PF	eP	08 16 11
	i(pP)	16 21
	i	16 32
	i	17 20
	eS	23 29
RC	eP	08 16 50
	epP	17 16
	eL	25 36
SLC	eL	08 25 26
TUC	iP	08 15 21
	i	15 32
	i	16 33
	eS	18 52
	e	19 03
	eL	20 20
Oct. 3		
PF	i(P)	09 26 11
	e	33 08
SH	eP	09 25 53
Oct. 3		
BH	iP	23 37 22
	eS	41 39
BER	eP	23 39 12
	ePP	40 32
	eS	44 40
	e(sS)	45 24
	eL	46 52

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
BER	i(ScP)	23 49 30
T_S = 7 sec. A = 1.5mm.		
T_L = 15 sec. $A_{max.}$ = 1.5mm.		
BC	iP	23 36 54
	ipP	37 11
	iPP	37 24
	i	37 54
	eScS	43 51
BOZ	eP	23 38 00
	esP	38 28
	ePP	39 00
	iS	42 46
	esS	43 10
	iL	43 40
BUT	iP	23 38 04
	epP	38 22
	iPP	39 06
	eS	43 00
	esS	43 20
	iL	43 58
CHI	iP	23 37 39
	ipP	37 56
	i	38 09
	i	38 40
	i	39 10
	eS	41 50
	iS	42 04
	i(sS)	42 15
	iL	42 50
COL	eP	23 41 53
	ePPP	45 13
	eS	49 22
	eL	54 09
COLU	eP	23 37 20
	epP	37 40
	eS	41 31
	eL	42 00
GC	eP	23 38 39
	epP	38 56
	esPP	40 01
	i	41 27.5
	isS	45 06

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
HUAN	iP	23 39 49
	ipP	40 13
	iPP	41 44
	isPP	42 00
	iS	46 08
	eSS	49 08
	eL	49 28
NK	eP	23 38 45
	ipP	39 14
	ePP	39 36
	eS	42 54
	eL	44 35
PHIL	eP	23 38 25
	ipP	38 45
	iPP	39 17
	i(S)	44 07
	iL	44 58
PF	iP	23 36 55.5
	iPP	37 35
	iPcP	40 41
	iS	43 48
RC	iP	23 37 38
	iPP	38 20
	eS	41 28
	eL	42 00
SLC	iP	23 37 36
	i	37 56
	e(S)	41 24
	iL	41 58
SJ	eP	23 38 49
	iP	38 50
	e	41 52
	ePcP	41 54
	eS	44 07
	iS	44 09
	eL	45 41
SEA	ePP	23 39 30
	eL	46 36
SH	iP	23 38 01.5
	esP	38 43
	ePP	39 19

Date and Station		Phase (GCT)
		h m s
Oct. 3, cont.		
SH	iPcP	23 41 15.5
	eS	42 43
	eScS	44 51
	eL	47 25
SIT	iP	23 40 32
	ePP	42 25
	eS	47 14
	eL	51 08
TUC	iP	23 35 56
	ipP	36 10
	i	36 38
	i	36 58
	iS	38 42
	iL	39 07
	iPcP	40 20
Oct. 4		
BC	e(P)	00 10 59
PF	e(P)	00 11 02
SH	iP	00 10 24
Oct. 4		
BC	eP	08 43 16
PF	iP	08 43 21
SH	eP	08 43 10
Oct. 4		
BC	eP	10 18 13
GC	e(P)	10 17 09
	e	17 24
PF	eP	10 18 18
SH	eP	10 16 23
	e	17 10
	e	17 42
Oct. 4		
BC	eP	15 43 31
PF	iP	15 43 35

Date and Station		Phase (GCT) h m s
Oct. 4, cont.		
TUC	eP	15 43 32
	i	43 43
	e(PP)	44 23
	e	47 05
	e(S)	51 38
	eL	16 11 20
Oct. 4		
BER	eL	16 37 16
PHIL	e	16 25 40
	eL	32 27
Oct. 4		
PF	iP	18 18 18
Oct. 5		
SH	e(P)	05 24 08
	e	24 22
Oct. 5		
BC	eP	06 28 22
PF	eP	06 28 15
	iP	28 25
SH	e(P)	06 27 12
Oct. 5		
BC	iP	06 34 49
	i(pP)	35 04
GC	e(P)	06 33 35
PF	iP	06 34 52
	i(pP)	35 06
SH	eP	06 33 57
	epP	34 57
TUC	iP	06 35 20
	epP	35 32
	i	35 35
Oct. 5		
GC	e(P)	15 43 49
Oct. 5		
BH	eP'	19 00 29

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
BER	eP'	19 00 42
	eSKS	07 33
	eS	09 35
	e	16 27
	eSS	23 33
	e(SSS)	36 17
	eL	44 13
T_L = 13 sec. $A_{max.}$ = 2mm.		
BC	e	18 55 10
	ePP	59 20
	e(PS)	19 10 10
BOZ	eSKS	19 06 01
	ePPS	10 29
	e	15 21
	eSSS	18 31
	eL	27 27
CHI	eSKKS	19 08 36
	ePS	11 34
	ePPS	13 22
	eL	27 38
COL	e(SKS)	19 03 35
	eS	04 18
	ePPS	05 34
	eSSS	13 49
	eL	18 38
COLU	eL	19 43 06
HONO	e(S)	19 01 24
	eScS	02 23
	eL	08 26
HUAN.	eP	19 00 31
	eL	50 05
NK	ePKS	19 03 34
	eSKS	07 20
	e	14 35
	eSS	19 35
	eL	49 06
PHIL	ePKS	19 03 16
	e	03 48
	e	10 13
	e	15 26

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
PHIL	eSS	19 20 37
	eP'P'	21 37
	e(SSS)	26 14
	eL	36 14
PF	eP	18 55 21
	ePP	59 22
	ePPS	19 10 03
RC	eL	19 34 52
SLC	eL	19 24 07
SJ	eP'	19 00 54
	ePKS	05 06
	e	05 39
	eSKKS	11 32
	e	25 00
	eL	43 00
SH	eP	18 54 46
	e(PPS)	19 08 41
	eL	31 26
SIT	eS	19 04 40
	e	04 43
	ePPS	06 16
	i	06 36
	i(SS)	11 16
	eL	16 42
TUC	eP'	18 59 26
	ePP	19 00 07
	e	01 10
	ePPP	02 07
	e(SKS)	03 42
	ePS	09 28
	ePPS	10 30
UK	eSKS	19 05 17
	ePPS	07 59
	ePSPS	13 21
	eL	24 09
Oct. 5		
BH	eP	22 40 25
	eS	40 40
Oct. 5		
BH	eP	23 37 28
	eS	37 43

Date and Station		Phase (GCT) h m s
Oct. 6		
HUAN	iP	05 48 42
	iS	49 45
	iL	50 38
Oct. 6		
SH	e(P)	07 23 41
TUC	eP	07 23 50
Oct. 6		
BC	eP	18 53 36
PHIL	e(P)	18 52 08
	eS	56 25
	eL	59 08
PF	e(P)	18 53 32
SH	e(P)	18 54 36
TUC	eP	18 52 52
	i	52 57
	e	53 07
	e	55 46
	e(S)	56 31
	eL	59 46
Oct. 6		
SH	eP	19 37 02
Oct. 6		
BER	eP	20 06 54
	e	07 32
	ePP	09 26
	ePPP	10 52
	eS	15 44
	iS	16 00
	e(SS)	19 45
	eL	23 00
T_S = 6 sec. A = 4mm.		
T_L = 17 sec. $A_{max.}$ = 2.5mm.		
BC	iP	20 09 14
	iPP	13 10
	eP'P'	34 30
BOZ	eP	20 08 31
	e	08 45

Date and Station		Phase (GCT) h m s
Oct. 6, cont.		
BOZ	ePP	20 12 26
	eSKS	18 57
	eS	19 17
	iS	19 35
	eSS	25 16
	eL	31 57
BUR	eP	20 06 46
	i	06 56
	e	07 25
	ePP	09 14
	ePPP	10 51
	eS	15 52
	i	16 07
	e(ScS)	17 15
	e	20 21
	eSS	23 29
	eL	24 19
BUT	eP	20 08 26
	eSKS	19 10
	eS	19 18
	iS	19 34
	eSS	24 32
	eL	34 20
CHI	eP	20 08 41
	e	09 24
	ePP	11 26
	e	12 46
	iS	18 31
	i	18 57
	eSS	23 42
	eSSS	27 02
	eL	28 19
COL	eP	20 07 40
	ePP	10 45
	ePPP	12 31
	eS	17 33
	e	20 34
	eSS	23 04
	e(SSS)	26 04
COLU	eP	20 07 47
	eS	17 42
	eSS	22 16
	eSSS	25 52
	eL	26 18

Date and Station		Phase (GCT) h m s
Oct. 6, cont.		
GC	eP	20 08 29
	ePP	12 28
	ePPP	14 27
	eS	18 58
HONO	eL	20 55 49
HUAN	ePP	20 13 52
	e	14 24
	e	14 30
	eSKS	20 16
	ePS	23 06
LOG	iP	20 08 39
	iPP	12 22
	eSKS	19 06
	iS	19 34
	eL	31 58
MONT	eL	20 49 59
NK	eP	20 07 23
	ePP	10 37
	e(PPP)	11 27
	eS	16 50
	iS	16 55
	e(SS)	22 32
	eL	30 54
PHIL	iP	20 06 58
	i	07 12
	e	10 21
	ePPP	11 20
	i	16 13
	i	16 39
	e	19 13
	eSS	20 51
	eL	24 24
PF	iP	20 09 12
	iPP	13 09
	eP'P'	34 29
RC	eP	20 08 14
	i	08 17
	e	09 30
	iS	18 04
	i	18 22
	eL	37 54

Date and Station		Phase (GCT) h m s
Oct. 6, cont.		
SLC	e(P)	20 09 00
	ePP	12 43
	eSKS	19 35
	eS	19 57
	eSS	26 27
	eL	32 47
SJ	eP	20 07 38
	ePP	10 21
	e	11 06
	ePPP	12 48
	eS	17 19
	i	17 26
	i	17 33
	eSS	22 33
	eSSS	25 25
	eL	28 27
SEA	eSKS	20 18 55
	eSSS	29 42
	eL	32 19
SH	eP	20 09 03
	i	09 12.5
	ePP	13 05
	eSKS	19 54
	e(PKKP)	26 02
	eSS	26 57
SIT	eP	20 08 08
	i	08 38
	iS	18 36
	i	19 04
	eSS	24 00
	e(SSS)	26 47
	eL	30 04
TUC	eP	20 09 14
	i	09 18
	i	09 34
	ePP	12 57
	eSKS	19 54
	eS	20 17
	e(PS)	21 04
	ePKKP	25 47
	eSS	27 30
	eP'P'	34 13

Date and Station		Phase (GCT) h m s
Oct. 6, cont.		
UK	eSKS	20 19 48
	eS	20 26
	e	21 02
	e(PS)	22 17
	eSS	27 08
	eL	35 02
Oct. 6		
TUC	eP	22 08 30
Oct. 7		
PF	iP	00 16 44
SH	eP	00 16 27
TUC	eP	00 16 43
	e	16 54
	i	17 03
Oct. 7		
BER	eL	02 20 43
BC	iP	02 00 16.5
	e(PcP)	02 43
	e(S)	06 35
BOZ	eP	01 59 08
	e	59 16
	ePcP	02 01 32
	eS	04 00
	eL	05 00
BUR	eP	02 01 46
	e(S)	08 47
	eL	11 41
BUT	eP	01 59 08
	ePP	02 00 52
	ePcP	01 50
	eS	03 48
	eL	05 06
CHI	eP	02 01 03
	ePP	02 43
	e(S)	08 15
	eL	11 35

Date and Station		Phase (GCT) h m s
Oct. 7, cont.		
COL	iP	01 53 36
	iS	53 46
	iL	53 48
GC	eP	01 58 27
	eL	02 05 23
LOG	i(P)	01 59 39
	eS	02 05 34
	eL	06 24
NK	eP	02 01 44
	ePP	03 38
	eS	08 28
	eL	14 46
PHIL	eP	02 01 51
	ePP	03 43
	eS	08 51
	e(ScS)	11 33
	eL	12 42
PF	iP	02 00 19
	iPcP	03 06
	iL	07 36
SLC	eP	02 00 01
	eS	02 05 12
	eL	09 09
SJ	eL	02 28 37
SH	iP	01 59 05
	iPcP	02 02 29
	iL	06 12
SIT	eP	01 55 49
	iS	58 00
	iL	58 22
TUC	iP	02 00 56
	e	01 30
	e	01 51
	ePP	02 32
	iPcP	03 08
	eS	07 13
	eL	11 16

Date and Station		Phase (GCT)
		h m s
Oct. 7, cont.		
UK	eS	02 04 43
	e	05 01
	eL	08 03
Oct. 7		
BC	eP	03 04 25
BOZ	eP	03 03 18
	eL	12 10
BUR	eL	03 16 24
BUT	e(S)	03 07 12
	eL	09 26
CHI	eL	03 20 06
COL	iP	02 57 42
	iS	57 52
COLU	e(S)	03 14 45
	eL	19 24
GC	eP	03 02 36
	iPP	03 13
	e	09 30
	i	09 35.5
LOG	eL	03 12 40
NK	eL	03 20 19
PHIL	eL	03 16 33
PF	eP	03 04 25
SH	eP	03 03 10
SIT	eS	03 02 20
	iL	02 35
TUC	eP	03 05 03
Oct. 7		
BC	e(P)	04 48 25
COL	iP	04 41 46
	iS	42 51

Date and Station		Phase (GCT)
		h m s
Oct. 7, cont.		
GC	eP	04 46 39
	e	53 41
	i	54 02
PF	e(P)	04 48 29
SH	eP	04 47 25
SIT	eP	04 43 56
TUC	eP	04 49 09
Oct. 7		
SH	eP	10 45 42
Oct. 8		
SH	eP	02 09 32
	iS	10 02
Oct. 8		
PF	iP	15 44 49
TUC	iP	15 43 24
Oct. 8		
HUAN	eP	17 20 16
	eL	21 24
Oct. 8		
BC	e(P)	18 08 34
PF	e(P)	18 08 33
TUC	eP	18 07 34
Oct. 9		
BH	eP	00 30 49
	eS	31 14
	iL	32 22
HUAN	eP	00 34 52
TUC	eP	00 37 40
Oct. 9		
PF	iP	03 38 34
SH	iP	03 38 16

Date and Station		Phase (GCT)
		h m s
Oct. 9, cont.		
TUC	iP	03 38 38
Oct. 10		
BH	eP	01 26 57
	iS	27 22
Oct. 10		
BC	iP	02 51 46
PF	iP	02 51 50
SH	eP	02 51 38
TUC	iP	02 51 47
	i	52 06
	e	52 47
	e	55 15
Oct. 10		
BER	ePP	07 50 30
	e(pPPP)	54 32
	eSKS	56 30
	eS	57 24
	e(SP)	58 30
	eL	08 12 10
BC	eP	07 43 28
	iPcP	43 36
	i	43 46
	ePP	45 51
	i	46 17
BOZ	eP	07 43 04
	ePcP	43 30
	ePP	45 56
	eS	52 00
	eSS	56 34
	eL	08 05 00
BUT	eP	07 43 00
	ePP	45 08
	e	49 00
	eS	51 42
	e	52 06
	eSS	55 52
	eSSS	57 36
	eL	08 02 28

Date and Station		Phase (GCT)
		h m s
Oct. 10, cont.		
CHI	eSKS	07 54 28
	eL	08 10 26
COL	eP	07 39 52
	eS	45 57
	esS	48 05
	eScS	49 06
COLU	eL	08 19 54
GC	eP	07 42 23
	i	42 30.5
	i	42 46.5
	e	44 20
HONO	eL	07 53 00
LOG	i(P)	07 43 18
	ipP	44 02
	isP	44 56
	epPP	46 27
	eScS	51 46
	eL	08 10 06
PHIL	eP	07 45 22
	epPP	49 37
	eSKS	55 19
	e(SP)	56 31
	ePS	57 18
	eSS	08 02 35
	eL	12 34
PF	eP	07 43 34
	iPcP	43 40
	i	46 16
RC	eP	07 43 46
	ePP	47 12
	eS	52 54
SLC	eP	07 43 31
	eS	52 35
	e(ScS)	53 35
	eL	08 03 49
SJ	epPP	07 51 26
	e	54 34
	eSKS	55 46
	ePSP	08 01 23

Date and Station		Phase (GCT)
		h m s
Oct. 10, cont.		
SJ	esSS	08 07 55
	eSSS	11 02
	eL	22 21
SH	eP	07 42 35
	i	42 47
	e	45 10
SIT	eP	07 40 50
	eS	47 52
	eSS	52 18
	eL	55 44
TUC	eP	07 43 57
	iPcP	44 05
	i	44 38
	e	44 44
	epP	44 54
	ePP	46 57
	epPP	48 04
	esPP	48 32
	ePPP	48 37
	eS	53 25
	eL	08 04 32
Oct. 10		
BH	eP	13 23 21
	iS	23 46
Oct. 10		
BER	ePP	14 04 00
	ePS	13 40
	e(SS)	19 00
	eSSS	24 12
	eL	41 00
BC	eP	13 55 35
BOZ	eL	14 28 36
BUT	eL	14 24 49
CHI	eL	14 32 20
COL	eS	14 07 54
	e	08 06
	eSS	13 50
	ePSPS	14 44
	eL	27 18

Date and Station		Phase (GCT)
		h m s
Oct. 10, cont.		
GC	eP	13 55 47
HUAN	eSKS	14 06 48
	e	06 52
	e(S)	08 28
	eSS	14 06
	eL	26 00
LOG	eL	14 20 53
PHIL	ePS	14 12 33
	eSS	19 24
	e(P'P')	22 47
	eL	43 30
PF	iP	13 55 43
	i(pP)	55 59
RC	eL	14 34 18
SLC	eL	14 34 43
SJ	eSKS	14 08 16
	eSS	19 17
	e(P'P')	20 12
SH	eP	13 55 15
	e	55 30
SIT	e(SKS)	14 05 38
	eS	07 46
	eSS	14 05
	eL	20 50
TUC	eP	13 55 37
	i(pP)	55 49
UK	eSS	14 22 31
	eSSS	26 08
	eL	30 02
Oct. 10		
SH	eP	17 43 13
TUC	eP	17 44 13
Oct. 10		
SH	eP	18 03 42

Date and Station		Phase (GCT) h m s
Oct. 10, cont.		
BC	eP	19 44 21
	e(S)	44 56
PF	eP	19 44 19
	iP	44 25.5
	eS	44 58
Oct. 10		
BUT	e(S)	21 47 03
	eL	22 01 33
SLC	eL	21 58 03
TUC	eP	21 41 09
Oct. 11		
PF	eP	04 15 47
TUC	eP	04 14 54
Oct. 11		
SJ	eP	06 46 43
	eS	47 18
	eL	47 25
Oct. 11		
SJ	eP	13 29 31
	eS	29 53
	eL	29 56
Oct. 11		
BC	i(P)	14 25 21
Oct. 11		
HUAN	eP	21 30 11
	e	30 40
	eS	31 51
	eL	32 09
Oct. 11		
BC	eP	22 04 33
PF	eP	22 04 36
SH	iP	22 03 52
Oct. 12		
PHIL	eL	01 31 00

Date and Station		Phase (GCT) h m s
Oct. 12, cont.		
BOZ	e(S)	13 21 00
	eL	21 28
Oct. 13		
BC	i(P)	01 13 11
BUT	e(S)	01 20 30
	eL	20 53
COL	iP	01 06 22
	iS	06 26
GC	e(P)	01 11 20
	eS	18 14
PF	i(P)	01 13 13
RC	e(S)	01 23 34
	e	24 36
	eL	26 40
SLC	eL	01 21 48
SH	e(P)	01 11 50
	e	12 08
	i	19 02.5
TUC	iP	01 13 52
Oct. 13		
PF	eP	07 26 18
	e(S)	27 10
Oct. 13		
BER	e(P)	08 01 15
	eL	36 35
HUAN	eL	08 18 40
PHIL	eL	08 37 37
SJ	eL	08 35 04
TUC	e(P)	08 01 35
UK	eL	08 20 13
Oct. 13		
BH	e(P)	11 02 38
	e	03 57

Date and Station		Phase (GCT) h m s
Oct. 13, cont.		
HUAN	eL	18 15 17
SH	eP	18 23 36
TUC	iP	18 22 30
Oct. 14		
BH	e(S)	00 01 31
	eL	02 06
Oct. 14		
COL	eL	01 29 44
Oct. 14		
BER	ePP	02 02 30
	eSKS	07 22
	ePS	12 16
	eSS	19 22
	eSSS	23 25
	eL	29 17
BC	eP	01 54 15
BUT	eS	02 06 29
	ePPS	08 30
	e(PKKP)	11 58
	eSS	13 04
	eScSScS	18 11
	eSKPP	23 42
CHI	ePS	02 10 02
	eL	26 02
HUAN	eP	01 54 56
	e	55 00
	ePP	58 38
	eSKS	02 05 12
	eSS	12 24
	eL	25 10
PF	eP	01 54 14
RC	eL	02 24 04
SJ	eSKS	02 06 52
	ePS	11 00
SH	eP	01 54 09

Date and Station		Phase (GCT) h m s
Oct. 14, cont.		
TUC	eP	01 54 17
	iP	54 19
	i	54 30
	i	54 52
	iPP	58 16
	eSKS	02 04 56
	eS	05 20
	ePS	06 31
	eSS	10 33
	eSSS	14 59
	eL	19 33
UK	eL	02 16 11
Oct. 14		
GC	iP	10 20 30
	eS	21 13
Oct. 14		
BOZ	eL	14 30 26
Oct. 14		
PF	e(P)	15 26 34
Oct. 15		
BC	eP	04 16 22
BUT	eL	04 23 14
COL	iP	04 09 40
	iS	09 47
GC	eP	04 14 34
	i	14 52
	e(S)	21 25
PHIL	eL	04 33 30
PF	eP	04 16 24
RC	eL	04 26 56
SH	eP	04 15 21
TUC	iP	04 17 03
	i	17 31
	e	19 17
Oct. 15		
BC	iP	08 58 51.5
	i	59 06
	eL	09 03.0

Date and Station		Phase (GCT) h m s
Oct. 15, cont.		
BOZ	e(P)	08 59 11
	e	59 39
BUT	eL	09 02 04
GC	eP	08 57 39
	e	58 26
	eS	59 10
	eL	09 00 58
PHIL	eL	09 16 07
PF	iP	08 58 57
	eL	09 03.0
RC	iP	08 59 58
	e	09 00 24
	e	01 04
	eL	01 32
SLC	eL	09 02 17
SEA	e(P)	08 58 38
	eL	09 00 26
SH	eP	08 57 03
	iP	57 07.5
	i	57 41.5
	e	58 34
	e	59 02
TUC	eP	08 59 55
	i	59 58
	e	09 01 50
	e	02 53
	eS	04 48
	eL	05 09
UK	e(P)	08 57 07
	e	58 46
	i	59 21
Oct. 15		
SJ	eL	18 40 07
Oct. 15		
BER	eL	20 03 20
Oct. 15		
BC	iP	19 41 31
	iScP	47 52

Date and Station		Phase (GCT) h m s
Oct. 15, cont.		
BOZ	eL	20 03 04
BUT	eL	19 48 32
CHI	eL	19 55 11
COL	iP	19 34 50
COLU	eL	20 01 24
GC	e(P)	19 39 44
	eL	46 33
LOG	iL	19 50 36
NK	eL	19 56 09
PHIL	e(S)	19 51 42
	eL	55 48
PF	eP	19 41 33
	i	41 50
	iScP	47 49
SLC	eL	19 50 22
SEA	eL	19 46 02
SH	eP	19 40 32
	ePP	41 25
	iL	47 24.5
TUC	eP	19 42 13
	ePP	43 33
	eS	48 07
	e	48 15
	e	49 49
	eL	51 36
Oct. 16		
HUAN	eP	00 33 09
	e	33 20
	eS	34 51
	eL	35 02
Oct. 16		
BH	eP	02 21 14
	eS	30 37
	eL	42 48

Date and Station		Phase (GCT) h m s
Oct. 16, cont.		
BER	eP	02 19 42
	i	19 56
	ePP	22 06
	ePPP	23 30
	eS	27 47
	iS	27 50
	eScS	29 40
	iSS	31 50
	eL	33 04
BC	iP	02 16 39
	ipP	16 51
	iPP	17 56
	iPPP	18 10
	i(S)	21 36
	iS	22 11
	i(SS)	23 04
	i	27 36
BOZ	eP	02 15 37
	i	15 47
	ePP	16 45
	ePcP	17 55
	iS	20 21
	iL	21 59
BUT	iP	02 15 26
	i	15 34
	i	17 40
	iS	20 26
	i	21 14
	iL	21 50
CHI	iP	02 17 27
	i	17 34
	i	17 35
	iPP	19 02
	iS	23 37
	i	24 16
	iL	26 30
COL	iP	02 10 07
COLU	eP	02 18 42
	ePP	20 49
	ePPP	22 28
	iS	26 00
	eSS	28 34
	eL	29 26

Date and Station		Phase (GCT) h m s
Oct. 16, cont.		
GC	eP	02 14 50
	i	15 04
	eS	19 09
HONO	eP	02 17 52
	e	19 55
	eS	24 11
	eL	27 25
HUAN	eP	02 23 06
	i	23 18
	iPP	27 08
	iS	34 48
	eL	48 04
LOG	iP	02 16 01
	i	16 40
	iPP	17 00
	i(PPP)	17 44
	iS	21 01
	iL	22 14
NK	iP	02 18 05
	iPcP	19 26
	iS	24 48
	iL	28 11
PHIL	iP	02 18 21
	i	19 15
	iPP	20 07
	ePPP	20 50
	eS	24 52
	iS	25 10
	iScS	28 00
	iSS	28 44
	iL	30 18
PF	iP	02 16 41
	ipP	16 53
	iPP	18 00
	iPPP	18 15.5
	iS	22 18
	i(SS)	23 08
	iL	26.0
SLC	iP	02 16 25
	ePP	17 31
	ePcP	18 07
	eS	21 05
	eL	21 39

Date and Station		Phase (GCT) h m s
Oct. 16, cont.		
SJ	eP	02 21 00
	ePPP	25 18
	eS	30 04
	i	30 15
	iScS	31 07
	eSS	34 50
	eL	37 56
SEA	eP	02 14 47
	iS	19 12
	iL	20 38
SH	eP	02 15 38
	i	15 40
	i	15 50
	i	16 12.5
	eS	20 31
	e	20 57
	eL	21 11
SIT	iP	02 12 06
	i(S)	14 32
TUC	iP	02 17 20
	i	17 32
	ePP	18 51
	iPPP	19 36
	iS	23 22
	iL	26 37
UK	eP	02 15 47
	epP	16 51
	eS	20 27
	i	21 32
	iL	22 51
Oct. 16		
BC	eP	09 29 05
COL	iP	09 22 28
	iS	22 31
PF	iP	09 29 11
SH	eP	09 28 10
TUC	eP	09 29 47

Date and Station		Phase (GCT) h m s
Oct. 16, cont.		
BC	eP	11 29 36
COL	iP	11 22 59
	iS	23 01
PF	eP	11 29 37
SH	eP	11 28 35
TUC	eP	11 30 14
	i	32 23
Oct. 16		
COL	eP	14 13 28
	iP	13 31
	e	13 33
	iS	13 36
Oct. 16		
BC	iP	14 25 00
PF	iP	14 25 03.5
	i	25 58
Oct. 17		
BC	e(P)	00 48 57
SH	eP	00 47 57
TUC	eP	00 49 37
Oct. 17		
BC	iP	04 15 23
	e	15 25
GC	e(P)	04 16 29
HUAN	iP	04 06 38
	iS	07 12
PF	iP	04 15 20
SH	iP	04 16 12
	e	16 27
	e	16 40
	e(pP)	17 11
TUC	iP	04 14 46
	epP	15 50

Date and Station		Phase (GCT) h m s
Oct. 17, cont.		
PF	eP	08 25 16
Oct. 17		
SH	eP	09 17 23
	e	17 30
Oct. 17		
BC	eP	10 29 56
BUT	eL	10 37 33
COL	iP	10 23 18
	iS	23 22
	iL	23 26
GC	eP	10 28 14
	eS	35 09
	e	35 23
PHIL	eL	10 47 48
PF	iP	10 30 01
SH	eP	10 28 56
	e	28 59
	e	30 15
TUC	eP	10 30 39
Oct. 17		
BC	e(P)	11 52 26
	e	52 58
PF	e(P)	11 52 29
	i	52 56
Oct. 17		
BC	eP	14 03 45
	epP	03 53
GC	e(P)	14 04 50
	e	05 27
HUAN	eP	13 55 51
	ipP	56 01
	iS	59 07
	eL	59 36
MONT	e(P)	13 53 35
	eS	54 22
	eL	54 40

Date and Station		Phase (GCT) h m s
Oct. 17, cont.		
PF	iP	14 03 42.5
	ipP	03 51.5
SH	eP	14 04 23
TUC	iP	14 03 14
Oct. 17		
BH	eP	22 07 32
	eS	08 16
Oct. 18		
BC	iP	01 13 23
	ipP	13 40
PF	iP	01 13 26
	ipP	13 43
SH	iP	01 13 15
	ipP	13 31
TUC	iP	01 13 24
	ipP	13 40
Oct. 18		
BH	eP	04 03 04
	eS	03 57
BC	eP	04 09 51
PF	eP	04 09 44
TUC	iP	04 09 08
Oct. 18		
BC	e(P)	13 01 17
PF	e(P)	13 01 15
	i	01 20
SH	e(P)	13 01 00
TUC	e(P)	13 01 18
	e	01 23
Oct. 18		
BC	e(S)	16 32 02
PF	eP	16 31 21
	e(S)	32 19

Date and Station		Phase (GCT) h m s
Oct. 18, cont.		
BC	eP	20 27 49
PF	iP	20 27 51
SH	eP	20 27 08
	e	28 12
Oct. 18		
PF	iP	21 05 48
TUC	iP	21 05 50
Oct. 18		
BH	eP	23 01 47
	eS	02 50
BC	e(P)	23 07 16
PF	e(P)	23 07 18
TUC	e(P)	23 07 35
Oct. 19		
BC	iP	12 49 45
	iPcP	52 15.5
	iScP	56 01.5
BOZ	eL	12 57 33
BUT	eL	12 57 19
COL	iP	12 43 02
	iS	43 09
GC	eP	12 47 53
	e(S)	50 31
	e(L)	54 53
PF	iP	12 49 45
SLC	eL	12 59 59
SEA	eP	12 48 55
	eS	52 52
	eL	54 01
SH	i(P)	12 48 44
	i	48 47
	iPP	51 56
	eL	55 05

Date and Station		Phase (GCT) h m s
Oct. 19, cont.		
SIT	eP	12 45 22
	eS	47 38
	eL	47 50
TUC	eP	12 50 24
	e	52 30
	eS	56 19
	eL	58 13
Oct. 19		
HUAN	iP	21 12 38
	iS	12 45
Oct. 20		
BH	eP	01 54 50
BER	eP	01 53 26
	ePP	55 40
	e(PPP)	57 00
	eS	02 01 25
	e	01 32
	eScS	03 18
	eSS	05 16
	eL	07 40
BC	iP	01 50 10
	ipP	50 21.5
	iPP	51 41.5
	i(PPP)	51 54.5
	iS	55 13
	iSS	56 05
	eL	59 54
BOZ	eP	01 49 10
	ePP	50 10
	eS	53 48
	e	54 08
	iL	54 26
BUT	eP	01 49 00
	ePP	50 08
	ePcP	51 45
	eS	53 37
	iL	55 07
COL	iP	01 43 30
COLU	eP	01 52 19
	ePP	54 20

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
COLU	eS	01 59 26
	eSS	02 03 00
GC	eP	01 48 20
	eS	52 40
	iL	55 28
HONO	eP	01 51 26
	eS	57 46
	eL	02 00 57
T_L = 17 sec. $A_{max.}$ = 6mm.		
HUAN	eP	01 56 35
	eSKS	02 07 20
	eL	21 36
LOG	iP	01 49 32
	iPP	50 43
	i(PPP)	51 20
	iPcP	52 17
	iS	54 35
	eL	55 05
PHIL	eP	01 51 58
	iP	51 59
	ePP	53 52
	eS	58 50
	e	58 58
	eScS	02 01 58
	iSS	02 21
	eL	04 19
NK	eP	01 51 36
	ePP	53 19
	eS	58 23
	eL	02 01 45
PF	iP	01 50 10
	ipP	50 22
	iPP	51 40
	i(PPP)	51 50
	iS	55 08
	iSS	55 59
	eL	59 30
RC	eP	01 49 54
	ePcP	52 12
	eS	55 36
	iL	57 28

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
SLC	eP	01 49 55
	e	51 15
	eS	55 07
	eL	55 11
SJ	eP	01 54 20
	e	55 16
	ePP	57 14
	eS	02 03 40
	iS	03 50
	eScS	04 44
	e(SS)	07 47
	eL	11 34
SH	eP	01 49 09
	i	49 20
	ePcP	52 13
	eS	53 57
	iL	56 06
SIT	eP	01 45 36
	iS	47 22
	iL	47 57
TUC	iP	01 50 50
	i	50 55
	i	51 22
	ePP	52 25
	ePcP	52 53
	ePPP	53 07
	eS	56 52
	eL	59 55
UK	eP	01 49 09
	eS	54 19
Oct. 20		
BC	eP	02 40 39
PF	eP	02 40 40
SH	eP	02 39 39
TUC	eP	02 41 20
Oct. 20		
BC	eP	03 05 28
GC	eP	03 03 35

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
PF	eP	03 05 29
SH	eP	03 04 27
	e	07 39
TUC	iP	03 06 07
Oct. 20		
BC	iP	04 21 05
PF	eP	04 21 06
SH	eP	04 20 05
TUC	eP	04 21 45
Oct. 20		
BC	e(P)	07 57 18
PF	i(P)	07 57 21
Oct. 20		
BC	iP	12 27 49
	ipP	28 03
GC	eP	12 26 35
PF	iP	12 27 52
	ipP	28 08
SH	eP	12 26 57
	e	28 58
TUC	iP	12 28 20
	epP	28 34
Oct. 20		
HUAN	eP	16 47 30
	eS	50 48
	eL	50 36
Oct. 21		
BC	eP	09 57 02
	ipP	57 11
COL	eL	10 06 52
PF	iP	09 57 05
	ipP	57 14

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
SH	eP	09 56 14
	epP	56 23
TUC	iP	09 57 31
	ipP	57 40
Oct. 22		
BC	iP	01 57 29
PF	iP	01 57 32
SH	eP	01 57 18
TUC	iP	01 57 33
Oct. 22		
BC	e(P)	17 36 17
GC	e(P)	17 36 11
PF	e(P)	17 36 18
SH	e(P)	17 35 48
	e	39 35
TUC	e(P')	17 38 56
	ePP	40 29
	e	18 06 26
	e	09 49
Oct. 22		
PF	eP	21 14 56
SH	e(P)	21 14 43
TUC	eP	21 14 53
Oct. 22		
PF	iP	23 24 21.5
	e	31 41
	i	32 12
SH	iP	23 24 42.5
Oct. 23		
BC	e(P)	05 43 37
PF	e(P)	05 43 35

Date and Station		Phase (GCT) h m s
Oct. 23, cont.		
TUC	eP	05 43 06
	iS	43 13
Oct. 23		
BER	e(S)	11 52 42
BC	iP	11 55 09.5
	i	55 43
PF	iP	11 55 05
	i	55 35
	i	12 06 35
SJ	eP	11 47 12
	i	47 13
	eS	47 15
	eL	47 19
SH	eP	11 55 54
TUC	iP	11 54 41
	i	54 45
	i	54 57
Oct. 23		
UK	eP	23 37 55
	e(S)	42 33
	e	43 39
Oct. 23		
BH	eP	23 38 41
	eS	39 05
Oct. 24		
BC	iP	05 24 29
PF	iP	05 24 33
SH	iP	05 24 13.5
Oct. 24		
BC	iP	06 59 18
	iPcP	07 02 07
	e	15 58
PF	iP	06 59 14
	iPcP	07 02 05
	i	16 01

Date and Station		Phase (GCT) h m s
Oct. 24, cont.		
SH	iP	07 00 21
	i	02 29
TUC	iP	06 58 34
Oct. 24		
SH	iP	07 15 19.5
	i	15 27
	i	15 38.5
	i	16 58
	i	25 11
TUC	eP	07 16 22
	e	16 33
	e	16 43
Oct. 24		
PF	i(P)	07 56 32
Oct. 24		
HUAN	e(P)	10 04 50
	eS	08 45
	eL	09 00
Oct. 24		
BER	eL	18 15 14
Oct. 24		
PF	eP	19 15 57
	e	17 05
Oct. 24		
PF	e(P)	22 43 52
SH	e(P)	22 39 13
	e	42 48
	e	43 28
TUC	eP	22 44 15
	e	44 48
Oct. 25		
BH	eP	02 34 22
	eS	35 10
Oct. 25		
BC	iP	10 56 16
	iS	56 58

Date and Station		Phase (GCT) h m s
Oct. 25, cont.		
PF	eP	10 56 12
	i	56 22
	i(S)	57 01
TUC	eP	10 56 22
	iS	56 37
	iL	56 42
Oct. 25		
BC	e(P)	14 45 51
	i	46 14
	e(S)	47 12
LOG	iP	14 43 53
	i(S)	44 03
PF	eP	14 45 21
	i	45 41
	iS	46 54
SLC	eP	14 44 23
	eS	44 39
	iL	44 43
SH	e(P)	14 46 11.5
	i	47 53
TUC	eP	14 46 41
	e(S)	49 04
	eL	49 29
Oct. 25		
PF	eP	17 53 45
	iS	54 18
Oct. 25		
COL	eP	18 05 36
	i	05 47
Oct. 25		
SJ	eP	18 28 10
	e	28 13
	e	28 18
	iS	28 26
	iL	28 50
SH	eP	18 37 05

Date and Station		Phase (GCT) h m s
Oct. 25, cont.		
BC	eP	19 21 15
	iS	21 51
PF	eP	19 21 23
	i	21 33
	iS	22 11
Oct. 25		
SH	eP	20 21 37.5
	i	22 41
Oct. 26		
BC	eP	03 03 25
	i	04 20
PF	e(P)	03 03 35
	i	03 42
	i	04 26
Oct. 26		
PF	e(P)	09 33 12
Oct. 26		
BH	e(S)	11 47 02
Oct. 26		
BC	eP	13 06 55
PF	eP	13 06 58
	epP	07 10
SH	eP	13 06 48
TUC	iP	13 06 56
	ipP	07 10
Oct. 26		
PF	iP	19 56 35.5
TUC	eP	19 56 43
Oct. 26		
PF	e(P)	20 51 27
Oct. 27		
PF	eP	00 35 24
SH	iP	00 33 27.7
	eS	34 03
	iS	34 04.2

Date and Station		Phase (GCT) h m s
Oct. 27, cont.		
TUC	e(P)	00 36 20
	e	36 28
Oct. 27		
PF	e(P)	02 07 47
SH	e(P)	02 06 44
TUC	e(P)	02 08 26
Oct. 27		
PF	eP	02 17 51
SH	eP	02 17 37
TUC	eP	02 17 53
Oct. 27		
BC	eP	04 16 20
	iS	17 00
PF	iP	04 16 12
	iS	16 38.6
TUC	iP	04 16 32
	i	16 41
	iS	17 26
	iL	17 38
Oct. 27		
BC	eP	05 02 33
PF	eP	05 02 35
SH	eP	05 02 26
TUC	eP	05 02 34
	e	02 49
Oct. 27		
PF	e(P)	08 05 06
SH	e(P)	08 04 53
Oct. 27		
BC	eP	11 23 55
GC	e(P)	11 24 45
	e	25 34

Date and Station		Phase (GCT) h m s
Oct. 27, cont.		
HUAN	eP	11 18 28
	eL	23 37
PHIL	eL	11 39 35
PF	eP	11 23 54
SH	e(P)	11 24 08
TUC	iP	11 23 10
	i	23 34
	i	24 04
	e	26 06
Oct. 28		
BC	e(P)	00 44 11
PF	eP	00 43 39
TUC	eP	00 43 26
	i	43 34
	e	44 14
	eL	52 24
Oct. 28		
BER	eL	03 15 00
BC	eP	03 16 06
PF	eP	03 16 26
	e	23 58
SJ	eP	03 10 21
	eS	10 51
	iL	11 04
TUC	e(P)	03 16 29
	e	17 20
Oct. 28		
BC	e(P)	09 48 26
HUAN	eL	09 54 32
PF	iP	09 47 56
	i	10 01 51
SH	eP	09 49 17

Date and Station		Phase (GCT) h m s
Oct. 28, cont.		
TUC	eP	09 47 51
	e	47 58
	e	48 11
	e	49 14
	e	50 34
	e(S)	53 17
	eL	56 34
Oct. 28		
BC	iP	10 10 34
PF	iP	10 10 29
SH	iP	10 11 18
	i	11 42
TUC	iP	10 10 05
	e	10 42
Oct. 28		
HUAN	iP	10 45 40
	iS	46 00
Oct. 28		
BH	eP	12 17 42
	eS	18 23
BC	e(P)	12 24 36
PF	e(P)	12 24 32
TUC	iP	12 23 55
Oct. 28		
BC	eP	15 46 55
PF	iP	15 46 58
TUC	eP	15 47 31
	i	47 32.5
	e	47 56
Oct. 28		
TUC	eP	17 59 36
	iS	18 00 19
	eL	00 34
Oct. 29		
BC	iP	12 10 20.5
	epP	10 47

Date and Station		Phase (GCT) h m s
Oct. 29, cont.		
GC	eP	12 09 45
PF	iP	12 10 23.5
	i(pP)	10 50
	i	15 49
SH	iP	12 09 33
	i	09 59.5
TUC	iP	12 10 49
	i	10 58
	epP	11 16
Oct. 30		
PF	i(P)	02 54 19
Oct. 30		
BC	eP	03 56 27
HUAN	e(P)	03 53 00
PF	eP	03 57 26
SH	eP	03 57 06
TUC	eP	03 55 59
Oct. 30		
BOZ	eL	13 25 57
Oct. 30		
BER	eL	15 29 08
SJ	eP	15 24 27
	e	24 41
	e	24 54
	eS	25 15
	eL	25 37
Oct. 31		
PF	e(P)	00 45 08
SH	eP	00 42 48
	iS	42 54.2
TUC	e(P)	00 45 04
	e	45 16

Date and Station		Phase (GCT) h m s
Oct. 31, cont.		
BC	eP	01 42 03
PF	eP	01 42 06
SH	e(P)	01 41 57
TUC	eP	01 42 04
	e	42 21
	e	44 06
Oct. 31		
PF	eP	02 40 57
SH	eP	02 40 42
TUC	iP	02 40 59
Oct. 31		
BC	iP	12 19 40
GC	e(P)	12 19 54
HONO	e(P)	12 12 39
	iP	12 12 48
	iL	13 20
PF	iP	12 19 45.5
SH	eP	12 19 06
TUC	iP	12 20 06
Oct. 31		
PF	i(P)	12 59 07
SH	iP	12 57 13.8
	iS	57 59.8
TUC	eP	13 00 07
	e	00 26
Oct. 31		
BC	eP	13 21 51
BUT	eL	13 25 59
GC	e	13 21 37
PF	eP	13 22 58

Date and Station		Phase (GCT) h m s
Oct. 31, cont.		
SLC	eL	13 25 39
SH	eP	13 20 07
	i	20 51
	iS	20 53
	e	22 57
TUC	eP	13 22 56
	i	23 06
	e	23 26
	e	24 23
	eL	27 56
UK	e(P)	13 20 09
Oct. 31		
BH	eP	16 51 53
	eS	52 26
Oct. 31		
PF	iP	17 59 02
Oct. 31		
GC	e(P)	23 11 14
PF	iP	23 12 33
SH	eP	23 11 25
TUC	eP	23 13 10
Nov. 1		
PF	e(P)	01 51 37
	iP	52 04
TUC	iP	01 50 50
	i(pP)	51 17
Nov. 1		
SH	e(P)	04 53 29
	iP	53 31
	i	54 15.5
SIT	eL	05 33 08
BER	eP'	06 19 22
	ePP	22 35
	eSKS	26 13

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
BER	eSKSP	06 32 52
	ePSPS	42 24
	e(SSS)	49 30
	eL	59 49
BOZ	eL	07 04 43
BUT	eL	07 20 29
CHI	eL	07 10 15
COL	eL	07 05 52
GC	eP'	06 18 44
	ePP	20 26
HUAN	eP'	06 19 53
	e(SKSP)	34 28
	eSS	44 53
LOG	iPKS	06 22 18
	eL	07 06 25
PHIL	ePKS	06 22 40
	e	34 42
	e	41 56
	eL	07 02 49
PF	eP'	06 19 03
	iPP	21 31
	iPKS	22 30
SLC	ePKS	06 22 34
	eL	07 04 36
SJ	eP'	06 19 48
	ePP	24 13
	eSKKS	31 12
	e(SKSP)	35 38
	e(SS)	44 25
	eSSS	50 16
	eL	07 18 46
SH	eP'	06 18 46
	ePP	20 37
TUC	eP'	06 19 03
	iP'	19 15
	e	20 22

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
TUC	iPP	06 22 13
	iPKS	22 44
	eSKS	26 32
	eSKKS	29 07
	eL	07 07 47
Nov. 1		
SH	eP	13 06 41
Nov. 1		
BH	eP	15 03 32
	iS	07 25
BER	eP	15 07 00
	iP	07 04
	iPP	08 54
	iS	13 06
	iL	16 31

T_P = 4 sec. A = 6mm.
T_S = 8 sec. A = 11mm.
T_L = 18 sec. $A_{max.}$ = 27mm.

BOZ	eP	15 09 38
	iP	09 44
	iPcP	10 14
	ePP	12 04
	ePPP	13 54
	eS	18 18
	iS	18 24
	iScS	19 32
	iSS	22 32
	eL	26 18
BUT	eP	15 09 43
	e	10 13
	ePP	13 03
	ePPP	14 28
	eS	18 27
	e	21 23
	eSS	22 10
	eSSS	24 51
	eL	27 03
CHI	eP	15 08 12
	iP	08 20
	ePP	10 28
	iS	15 46
	eScS	18 06

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
CHI	iSS	15 19 50
	eL	20 44
COL	eP	15 12 07
	ePP	15 56
	eSKS	23 04
	eS	23 16
	ePS	24 28
COLU	eP	15 07 12
	ePP	09 15
	ePPP	10 43
	iS	13 46
	iSS	16 41
	iL	17 36
GC	eP	15 10 04
	eS	19 18
HONO	eP	15 11 49
	eS	22 11
	eSS	27 51
	eL	35 12
HUAN	iP	14 59 15
LOG	eP	15 09 13
	iP	09 20
	iS	17 45
	i	18 48
	eL	30 11
MONT	eP	15 01 58
	i	02 34
	eS	04 04
	iL	04 25
PHIL	iP	15 07 57
	i	08 04
	i	08 24
	iPcP	08 47
	iPP	09 56
	iPPP	10 49
	iS	15 07
	iL	24 19
PF	eP	15 08 56
	i	09 21
	iPP	11 28
	i	13 58

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
PF	iScP	15 16 58
	i(S)	17 28
	i(P'P')	51 41
RC	i(P)	15 10 04
	e	14 12
	i(S)	18 16
SLC	eP	15 09 24
	iP	09 28
	iPP	11 50
	iS	17 48
	eSS	22 10
	eL	28 20
SJ	eP	15 05 06
	i	05 12
SEA	eP	15 11 10
	eS	20 29
	eL	31 49
SH	iP	15 09 47.5
	i	09 53.5
	e	11 13
	eS	18 47
SIT	eS	15 21 42
	iS	21 44
	i	21 49
	ePKKP	29 29
	eL	34 20
TUC	iP	15 08 25
	eS	16 06
	eScS	18 33
	eSS	20 22
UK	eP	15 09 54
	e(PcP)	10 43
	iS	18 46
	i	19 14
	eL	27 24
Nov. 1		
PF	eP	16 29 39
	i	29 48
	i	30 35

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
PF	eP	16 34 24
Nov. 1		
BH	e(P)	16 52 46
HUAN	iP	16 47 20
PF	eP	16 58 09
SH	eP	16 59 46
TUC	eP	16 57 37
Nov. 1		
HUAN	iP	18 50 04
PF	e(P)	19 01 05
SH	eP	19 01 54
TUC	iP	19 00 32
Nov. 1		
PF	e(P)	19 15 38
SH	eP	19 16 26
Nov. 1		
PF	e(P)	21 51 07
SH	eP	21 51 58
Nov. 2		
HUAN	iP	00 06 12
PF	eP	00 16 02
SH	iP	00 16 52
TUC	iP	00 15 29
Nov. 2		
SH	e(P)	00 49 08
Nov. 2		
PF	iP	01 02 41
	i	02 47
	i(S)	03 19

Date and Station		Phase (GCT) h m s
Nov. 2, cont.		
BH	e(P)	01 36 51
GC	e(P)	01 43 28
HUAN	iP	01 32 35
PF	iP	01 42 26
SJ	e(P)	01 38 23
	e	39 11
	ePP	39 35
	eS	43 19
	eL	44 48
SH	eP	01 43 06
TUC	iP	01 41 44
Nov. 2		
SH	eP	05 56 05
	i	56 43
Nov. 2		
SH	eP	06 17 46
	e	22 31
	i	22 36.5
	e	28 18
Nov. 2		
SH	eP	06 42 49
Nov. 2		
HUAN	iP	06 41 28
SH	eP	06 52 29
TUC	iP	06 51 07
Nov. 2		
SH	eP	07 00 58
Nov. 2		
BER	eP	07 08 21
	ePPP	11 15
	e(S)	14 34
	eL	20 27
BOZ	iP	07 03 28
	e	04 00

Date and Station		Phase (GCT) h m s
Nov. 2, cont.		
BOZ	e	07 05 10
	e	05 42
	eS	06 22
	eL	06 54
BUT	eP	07 03 16
	e	03 48
	e	05 36
	eS	06 02
	eL	06 26
CHI	eP	07 06 32
	ePP	07 41
	eS	11 24
	eL	15 06
COLU	e	07 20 41
GC	eP	07 02 38
	eS	05 15
LOG	iP	07 03 11
	i	03 35
	iS	05 15
	iL	05 25
PHIL	eP	07 07 28
	ePP	08 46
	eS	13 03
	eL	17 48
RC	iP	07 04 34
	iS	08 28
	iL	10 22
SLC	eP	07 03 16
	eL	06 22
SJ	eP	07 10 07
	ePcP	10 41
	eS	17 46
SEA	eP	07 02 18
	e	02 35
SH	iP	07 01 20
	eS	02 08
SIT	eP	07 04 24

Date and Station		Phase (GCT) h m s
Nov. 2, cont.		
SIT	eS	07 07 46
	i	07 54
	eL	08 20
TUC	iP	07 03 50
	e	05 12
	e(S)	07 31
	eL	07 53
UK	eP	07 01 15
	eS	01 29
Nov. 2		
HUAN	iP	06 59 52
SH	eP	07 10 27
TUC	iP	07 09 05
Nov. 2		
SH	eP	07 21 50
	e	27 03
Nov. 2		
SH	eP	08 02 49
	e	03 28
Nov. 2		
SH	iP	08 54 15
TUC	iP	08 54 33
Nov. 2		
SH	iP	09 14 13
	eS	14 44
Nov. 2		
SH	iP	09 36 01
Nov. 2		
HUAN	iP	11 59 06
	iS	59 18
	iL	59 40
SH	eP	12 09 47
TUC	iP	12 08 25
Nov. 2		
HUAN	iP	13 16 26

Date and Station		Phase (GCT)
		h m s
Nov. 2, cont.		
HUAN	iP	15 55 14
Nov. 2		
HUAN	eP	17 31 09
	iS	31 24
SH	iP	17 41 50.5
TUC	eP	17 40 25
Nov. 2		
HUAN	iP	21 19 55
	iS	20 14
	iL	20 32
PF	e(P)	21 29 45
	i	30 39
	e	38 53
SH	eP	21 30 28
TUC	iP	21 29 06
Nov. 2		
HUAN	iP	21 27 27
Nov. 2		
BH	eP	21 33 35
	e(S)	37 27
BER	eL	21 46 16
GC	e(P)	21 40 05
HUAN	eP	21 29 00
	iP	29 02
SH	eP	21 39 42
TUC	iP	21 38 19
Nov. 2		
HUAN	iP	22 12 49
PF	e(P)	22 22 38
Nov. 3		
PF	iP	08 22 08
	i	23 43
	i	24 43

Date and Station		Phase (GCT)
		h m s
Nov. 3, cont.		
PF	iP	09 57 20
Nov. 3		
PF	e(P)	16 08 20
Nov. 3		
SH	eP	16 17 55
Nov. 3		
PF	iP	18 24 25
	i	25 34
	ipP	25 39
SH	iP	18 24 08
	epP	25 15
TUC	iP	18 24 28
	ipP	25 41
Nov. 3		
SJ	eL	21 35 46
SH	eP	21 08 00
Nov. 3		
HUAN	iP	22 16 35
	iS	16 54
SH	eP	22 27 10
Nov. 4		
BER	eP	00 23 05
	ePP	27 05
	eS	34 42
	ePS	35 45
	eL	54 48
BOZ	eP	00 20 26
	ePPP	24 33
	eS	29 46
	eSS	34 05
	eSSS	37 08
	eL	40 14
BUT	eP	00 20 24
	ePPP	25 18
	eS	29 28
	e	29 41
	eL	40 30

Date and Station		Phase (GCT)
		h m s
Nov. 4, cont.		
CHI	eP	00 21 41
	iP	21 53
	ePP	24 53
	e(PPP)	27 39
	eS	32 03
	iS	32 13
	eSS	37 29
	eSSS	41 45
	eL	45 02
COL	eP	00 17 23
	e	18 04
	ePP	19 11
	eS	23 56
	eL	27 14
	eScS	27 26
COLU	eSKS	00 33 12
	eS	33 48
	eL	55 21
GC	eP	00 19 48
	eS	28 49
HONO	eP	00 18 46
	e(PPP)	22 54
	eS	26 45
	eSS	31 12
	eL	33 24
HUAN	e(P)	00 25 36
	ePKS	32 08
	eL	01 06 52
NK	eP	00 22 04
	eSKS	32 36
	iS	32 55
	ePS	33 46
	eL	46 07
PHIL	eP	00 22 13
	e	25 40
	ePPP	27 55
	eSKS	32 44
	iS	32 55
	iScS	33 12
	eSS	39 04
	e(PSPS)	39 46
	eSSS	43 22
	eL	49 26

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
PF	eP	00 20 53
	iPP	21 03
	iPPP	23 03
	i	23 53
	i	25 46
	i	26 15
	iS	30 49
	i(PS)	32 20
RC	iP	00 20 57
	iPP	23 47
	e(S)	29 31
	eScS	30 33
	eL	41 17
SLC	eP	00 20 49
	eS	30 20
	eScS	31 22
	eL	41 30
SJ	ePP	00 28 39
	e	29 08
	eS	36 04
	ePS	38 16
	i	38 19
	iPKKP	38 48
	eSS	44 29
SEA	eP	00 19 40
	eS	28 07
	eSS	32 51
	eL	34 15
SH	eP	00 20 04
	i	20 15.5
	eS	29 11
	iS	29 13.5
SIT	iP	00 18 16
	i	18 23
	ePcP	21 33
	eS	25 32
	iS	25 46
	eL	30 38
TUC	eP	00 21 19
	iP	21 20

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
TUC	iPP	00 24 26
	e(PPP)	26 07
	eS	31 34
	e(SSS)	40 06
UK	eP	00 20 10
	ePPP	24 02
	e(S)	29 28
	eL	37 52
Nov. 4		
PF	iP	00 31 12
SH	iP	00 30 23.5
TUC	eP	00 31 38
Nov. 4		
SH	eP	00 40 08
Nov. 4		
GC	e(P)	00 48 37
PF	iP	00 47 13
SH	eP	00 46 25
	e	47 15
	e(S)	56 55
TUC	iP	00 47 40
Nov. 4		
HUAN	iP	01 31 41
	iS	32 05
	iL	32 32
PF	i(P)	01 41 03
SH	eP	01 40 40
TUC	eP	01 41 05
	e	41 10
Nov. 4		
SH	eP	05 39 09
Nov. 4		
PF	eP	06 03 18

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
SH	eP	06 04 08
TUC	iP	06 02 45
	i	03 08
Nov. 4		
PF	i(P)	06 15 22
Nov. 4		
SH	eP	06 24 33
TUC	iP	06 25 47
Nov. 4		
SH	eP	06 46 09
TUC	eP	06 45 52
Nov. 4		
PF	iP	07 08 08
SH	iP	07 07 20
TUC	iP	07 08 35
Nov. 4		
SH	eP	07 57 21
Nov. 4		
MONT	eP	08 21 39
	e(S)	22 02
	eL	22 17
Nov. 4		
SH	eP	08 23 06
Nov. 4		
GC	e(P)	09 58 49
PF	iP	09 58 32
	i	58 45
	i(PP)	10 02 06
	i(PPP)	04 39
	iS	11 44
SH	iP	09 58 20
	e	10 01 43

Date and Station		Phase (GCT) h m s
Nov. 4, cont.		
TUC	iP	09 58 34
	i	58 52
	i	59 06
	i	10 00 24
	iPP	02 07
Nov. 4		
SH	iP	10 04 22.5
	e	07 57
TUC	iP	10 04 36
	e	04 53
Nov. 4		
SH	eP	10 27 03
Nov. 4		
SH	eP	10 39 51
Nov. 4		
MONT	eP	11 42 06
	i(S)	42 23
	eL	42 29
Nov. 4		
TUC	eP	15 50 09
Nov. 4		
PF	e(P)	18 17 44
SH	iP	18 18 35.5
TUC	eP	13 17 13
Nov. 4		
PF	eP	18 29 16
	i	29 18
SH	eP	18 29 03
TUC	eP	18 29 15
Nov. 4		
PF	eP	23 29 05
	i	29 15
	i	30 02
SH	eP	23 31 16

Date and Station		Phase (GCT) h m s
Nov. 5		
PF	eP	00 09 57
SH	eP	00 09 45
TUC	eP	00 10 07
	e	10 19
Nov. 5		
PF	iP	02 15 57
	ipP	16 28
SH	eP	02 15 34
	i	16 08.5
TUC	iP	02 16 04
	i	16 13
	epP	16 34
Nov. 5		
GC	e(P)	02 33 39
PF	iP	02 34 23
	e	37 41
SH	iP	02 33 40.5
TUC	iP	02 34 42
	e	35 13
Nov. 5		
PF	iP	09 52 33
SH	e(P)	09 51 39
TUC	iP	09 52 35
Nov. 5		
GC	e(P)	16 09 00
PF	eP	16 08 42
	i	09 40
SH	eP	16 08 23
	i	08 35
TUC	eP	16 08 37
	e	09 06
Nov. 5		
SH	eP	22 29 33

Date and Station		Phase (GCT) h m s
Nov. 5, cont.		
TUC	iP	22 31 10
Nov. 6		
SH	eP	07 48 03
	i	48 16
Nov. 6		
TUC	iP	09 46 50
Nov. 6		
BC	eP	10 39 42
	i	40 07
Nov. 6		
BC	eP	13 13 04
PF	iP	13 13 07
	i	14 40
SH	eP	13 12 51
TUC	eP	13 13 11
	e	13 32
Nov. 7		
SH	iP	01 05 45
Nov. 7		
BER	eL	03 24 42
BC	e(P)	03 12 29
HUAN	eP	03 06 13
	eS	08 12
	iL	08 38
PF	e(P)	03 12 30
SH	eP	03 13 22
	e	15 30
TUC	iP	03 11 50
	e	13 37
Nov. 7		
BC	iP	05 25 02
HUAN	iP	05 15 17
	iS	15 46
	iL	16 37

Date and Station		Phase (GCT) h m s
Nov. 7, cont.		
PF	iP	05 25 00
	i	25 46
SH	eP	05 25 51
TUC	iP	05 24 27
Nov. 7		
HUAN	eP	05 26 40
	eS	28 13
	iL	28 23
Nov. 7		
PF	e(P)	12 16 30
	i	17 22
SH	e	12 17 40
Nov. 7		
PF	e(P)	21 15 55
SH	eP	21 15 06
Nov. 7		
PF	eP	22 40 36
	i	40 44
SH	eP	22 39 41
	e	39 54
Nov. 7		
BH	eP	23 05 09
	eS	09 00
BC	iP	23 10 37
	iPcP	12 05
	i(PPP)	13 07
	eS	17 40
COLU	eS	23 15 17
	eL	24 35
GC	eP	23 11 43
HUAN	iP	23 00 47
	iS	02 23
	iL	03 10
PHIL	eP	23 09 27
	ePcP	10 51

Date and Station		Phase (GCT) h m s
Nov. 7, cont.		
PHIL	eS	23 16 37
	eL	20 58
PF	iP	23 10 34
	iPcP	12 05
	eS	17 45
SLC	eL	23 34 40
SJ	e(P)	23 06 39
	ePcP	08 35
	iS	11 37
	i	12 01
	eL	13 12
SH	eP	23 11 24
TUC	iP	23 10 01
	e	10 31
Nov. 8		
BH	eP	00 58 31
	eS	59 09
Nov. 8		
BC	iP	04 14 03
	i	14 30
GC	eP	04 12 59
PF	iP	04 14 05
SH	eP	04 13 20
	i	14 09.5
TUC	iP	04 14 31
	i	14 41
	i	14 59
Nov. 8		
BH	e(P)	05 27 19
BC	iP	05 33 30
	ipP	33 52
GC	eP	05 34 40
	ipP	35 04
PF	iP	05 33 27
	ipP	33 50

Date and Station		Phase (GCT) h m s
Nov. 8, cont.		
PF	i(sP)	05 34 11
SJ	eP	05 29 36
	i(PP)	30 01
	ePcP	31 11
	iS	33 52
	eL	34 06
SH	iP	05 34 21
	ipP	34 44.5
	e	35 23
TUC	iP	05 32 51
	ipP	33 14
Nov. 8		
BC	iP	06 57 45
	e	57 50
GC	e(P)	06 56 10
PF	eP	06 56 46
	i	57 54
	i	58 44
SH	eP	06 52 30
	e	56 29
	i	57 03.5
TUC	eP	06 56 51
	i	57 50
	e	58 17
Nov. 8		
BC	eP	15 32 53
PF	eP	15 32 55
SH	eP	15 32 46
TUC	eP	15 32 54
Nov. 8		
BH	eP	17 48 06
	eS	48 44
Nov. 8		
BC	eP	21 01 12
GC	eP	21 01 44

Date and Station		Phase (GCT) h m s
Nov. 8, cont.		
PF	eP	21 01 43
SH	eP	21 01 07
TUC	eP	21 01 13
Nov. 8		
TUC	eL	23 22 14
Nov. 9		
PF	e(P)	02 03 19
Nov. 9		
BER	eP'	05 17 07
	iPP	20 24
	eSKS	24 33
	iSKKS	26 13
	iP'P'	39 18
	eL	58 47
$T_{P'P'}$ = 12 sec. A = 2mm.		
T_L = 20 sec. $A_{max.}$ = 1.5mm.		
BC	eP	05 10 58
	iP	11 00
	i	11 49
	iSKS	21 37
	iS	21 49
	iP'P'	37 44
BOZ	eP	05 11 48
	e	11 51
	iSKS	22 12
	ePS	24 14
	eSS	29 52
	eSSS	34 01
	eL	37 12
BUT	eSKS	05 22 06
	ePS	24 10
	eSS	29 51
	eSSS	34 46
	eL	41 08
CHI	eSKS	05 23 15
	ePS	26 58
	e	27 05
	eSS	32 17
	e	40 20
	eL	49 06

Date and Station		Phase (GCT) h m s
Nov. 9, cont.		
COL	ePP	05 14 45
	eSKS	21 36
	ePS	23 30
	ePKKP	28 11
	eL	35 44
	eP'P'	36 33
	eSKPP	40 35
COLU	eSKS	05 23 34
	eSKKS	24 49
	ePS	27 48
	e(SS)	33 04
	eL	54 00
GC	eP	05 11 11
	e	12 27
	ePP	15 03
	eSKS	21 45
HONO	eP	05 07 17
	iS	14 50
	eL	19 32
HUAN	eP'	05 16 08
	eS	24 26
	ePS	26 04
	i	26 20
	eSS	32 32
LOG	eP	05 11 25
	iS	21 58
	eSS	29 19
	eL	42 49
PHIL	eL	05 49 49
PF	eP	05 11 01
	iP	11 04
	i	12 01
	iPP	14 47
	eSKS	21 39
	eS	21 52
	eL	36 29
	i(P'P')	37 47
RC	ePP	05 16 03
	iSKS	22 27
	ePS	25 09
	eSS	31 06
	eL	42 04

Date and Station		Phase (GCT) h m s
Nov. 9, cont.		
SLC	eP	05 11 14
	iS	21 58
	e	22 44
	eSS	29 34
	eL	37 04
SJ	eP'	05 17 04
	ePP	19 14
	iPKS	20 14
SH	eP	05 10 43
	iP	10 46.5
	i	10 53
	i	10 57.5
	iSKS	21 15.5
	eS	21 25
	eP'P'	36 12
	iL	37 31
SIT	eP	05 10 53
	ePP	14 54
	e	18 47
	iSKS	21 30
	iS	22 02
	ePS	23 09
	eL	35 50
TUC	eP	05 11 05
	iP	11 06
	i	11 35
	iPP	14 52
	eSKS	21 36
	iPS	23 29
	eSS	28 47
	e(SSS)	32 04
	eL	36 02
UK	eSKS	05 21 07
	eS	22 24
	eL	34 47
Nov. 9		
BC	i(P)	07 45 20
PF	e(P)	07 45 18
	i	45 23
SH	eP	07 45 00

Date and Station		Phase (GCT) h m s
Nov. 9, cont.		
TUC	eP	07 45 20
Nov. 9		
PF	eP	09 59 02
SH	eP	09 58 53
Nov. 9		
BH	iP	10 08 38
	iS	08 47
Nov. 9		
BC	e(P)	12 31 37
PF	eP	12 31 25
	eS	32 01
Nov. 9		
BC	eP	15 19 54
	e	23 14
PF	eP	15 19 56
Nov. 9		
BC	e(P)	15 57 39
HUAN	iP	15 47 42
	eS	48 00
	iL	48 26
PF	i(P)	15 57 40
Nov. 9		
SH	eP	23 48 24
Nov. 10		
SH	eP	01 03 33
Nov. 10		
BC	iP	01 49 29
	ipP	49 45
PF	iP	01 49 31
	i	49 41
	ipP	49 47
SH	eP	01 49 21
	epP	49 38

Date and Station		Phase (GCT) h m s
Nov. 10, cont.		
TUC	iP	01 49 30
	ipP	49 47
Nov. 10		
BC	iP	02 23 30
	iS	24 01
	i	24 08
PF	iP	02 23 37
	iS	24 08
SH	eP	02 24 55
	i	27 07.5
TUC	eP	02 24 13
	i	24 37
	e(S)	25 30
Nov. 10		
SH	iP	06 49 37.8
	eS	49 51
Nov. 10		
BC	eP	10 04 58
PF	iP	10 04 59
SH	eP	10 04 43
TUC	eP	10 05 03
Nov. 11		
BC	e(P)	00 13 53
PF	eP	00 13 02
	i	13 53
SH	eP	00 10 17
TUC	i(P)	00 14 07
Nov. 11		
TUC	eP	23 29 47
	e	29 56
	e	32 18
Nov. 12		
TUC	eP	00 28 03

Date and Station		Phase (GCT) h m s
Nov. 12, cont.		
TUC	eP	00 54 45
Nov. 12		
PHIL	e(S)	01 11 43
	eL	16 10
SLC	eL	01 08 04
TUC	eP	01 01 47
	eS	02 44
	iL	02 56
Nov. 12		
TUC	eP	01 20 23
Nov. 12		
BC	iP	01 40 20
	iS	43 24
BOZ	eL	01 48 32
CHI	eL	01 52 46
COLU	eL	01 57 33
LOG	e(S)	01 46 22
PHIL	eL	01 53 13
PF	iP	01 40 21
	i	41 50
	iS	43 25
RC	eL	01 49 10
SLC	eL	01 45 46
TUC	eP	01 40 43
	iS	41 46
	iL	41 54
Nov. 12		
CHI	eL	02 30 02
PHIL	eL	02 30 28
SLC	eL	02 22 42

Date and Station		Phase (GCT) h m s
Nov. 12, cont.		
TUC	eP	02 16 54
	iS	17 51
	iL	17 58
Nov. 12		
TUC	eP	02 27 40
	iS	28 34
	iL	28 44
Nov. 12		
BC	iP	02 45 37
BOZ	eL	02 53 07
CHI	eL	02 57 08
COLU	eL	03 01 50
LOG	eS	02 50 35
	iL	51 05
PHIL	eL	03 00 48
PF	iP	02 45 38
	i	46 20
	iS	47 35
RC	e(P)	02 48 07
	e	49 39
	eL	52 49
SH	eP	02 47 12
TUC	eP	02 45 02
	iS	45 58
	iL	46 10
Nov. 12		
TUC	eP	02 52 55
	iS	53 54
	iL	54 06
Nov. 12		
SH	eP	10 41 23
	e	41 36
	i	41 45.5
Nov. 12		
BC	eP	10 52 19

Date and Station		Phase (GCT) h m s
Nov. 12, cont.		
BOZ	eL	11 25 32
CHI	eL	11 36 25
HUAN	ePS	11 07 06
	ePPS	08 18
PF	iP	10 52 24
SLC	e(SKS)	11 02 20
	ePPS	16 20
SH	eP	10 52 05
	i	52 07
TUC	eP	10 52 25
	i	52 32
	eSS	11 11 46
	eL	22 00
Nov. 12		
BER	iPKS	16 41 32
	eSKS	45 10
	eSKSP	50 30
	i	17 00 17
	e(SS)	01 30
	e	04 27
	eSSS	06 54
	eL	21 10
BC	iP	16 32 06
	eS	42 41
BOZ	eSKS	16 43 18
	ePS	45 36
	e	49 01
	eL	17 03 08
BUT	eL	17 05 13
CHI	eSS	16 55 51
	eL	17 05 26
GC	eP	16 32 18
	e(S)	42 09
HONO	eP	16 28 22
	eS	36 07
	eSoS	38 08

Date and Station		Phase (GCT) h m s
Nov. 12, cont.		
HONO	eSS	16 40 44
	eL	42 24
HUAN	ePP	16 38 07
	eS	45 31
	ePS	47 00
	ePPS	48 02
	eSS	52 49
LOG	eSKS	16 43 06
	eL	04 16
PF	iP	16 32 09
	eS	42 49
SH	eP	16 31 51
TUC	eP	16 32 13
	e	32 18
	e	32 37
	ePP	35 54
	e	38 34
	eSKS	42 54
	iPS	44 37
	ePPS	45 39
	eSS	50 33
	iSSS	54 06
	eL	59 06
Nov. 12		
PF	eP	17 19 47
	i	21 57
Nov. 12		
SH	iP	22 52 09.5
TUC	iP	22 52 29
Nov. 12		
SH	eP	23 54 51
Nov. 13		
SH	iP	03 08 25.5
TUC	iP	03 08 40
Nov. 13		
BC	iP	11 32 35
	ipP	33 15

Date and Station		Phase (GCT) h m s
Nov. 13, cont.		
PF	iP	11 32 40
	ipP	33 22
SH	iP	11 32 16.5
TUC	iP	11 32 46
	epP	33 26
Nov. 13		
BC	iP	20 45 45
GC	eP	20 44 28
	i	44 37.5
PF	iP	20 45 47
SH	eP	20 44 43
TUC	iP	20 46 22
	i	46 31
Nov. 13		
MONT	e(P)	23 39 31
	iS	39 45
	eL	40 00
PF	iP	23 50 01
	ipP	50 30
	i	51 02
SH	eP	23 51 14.5
	epP	51 44
TUC	iP	23 50 04
	ipP	50 32
	i	50 49
Nov. 14		
BC	iP	00 53 51
GC	iP	00 52 03
SH	eP	00 52 50
TUC	iP	00 54 32
	e	54 37
Nov. 14		
BC	e(P)	05 21 30
	e	26 32

Date and Station		Phase (GCT) h m s
Nov. 14, cont.		
PF	e(P)	05 21 35
	e	25 27
SH	eP	05 20 55
TUC	eL	05 36 10
Nov. 14		
BH	e(P)	06 13 43
Nov. 14		
BC	iP	11 01 37
	ipP	02 24
COL	esS	11 04 11
	eL	08 36
GC	iP	11 00 33
	epP	01 21
	e(S)	08 56
HUAN	ePKS	11 12 32
	e	13 40
PF	iP	11 01 39
	ipP	02 24
SH	iP	11 00 49.5
	ipP	01 34.5
	i	01 39.5
	e(S)	09 26
	esS	10 27
TUC	iP	11 02 04
	i	02 13
	i	02 27
	ipP	02 50
	e(pPP)	05 46
	eS	11 06
	esS	11 51
	e	13 53
	e(SS)	15 38
	eL	19 31
Nov. 14		
BC	eP	20 21 40
PF	eP	20 21 40

Date and Station		Phase (GCT) h m s
Nov. 14, cont.		
TUC	iP	20 20 42
	e	20 58
Nov. 15		
BH	e(P)	04 32 06
Nov. 15		
BC	iP	07 23 07
	i	23 30
PF	iP	07 23 10
	i	23 33
SH	iP	07 22 44
	epP	23 06
	e	24 23
	i	24 29.5
TUC	e(P)	07 24 45
	e	24 49
Nov. 15		
TUC	eP	10 20 08
	i	20 11
Nov. 15		
HUAN	iP	11 56 11
	e	56 20
	e(S)	59 28
	eL	12 02 09
Nov. 15		
PF	i(P)	15 43 15
Nov. 15		
HUAN	e(P)	17 04 35
Nov. 15		
BC	iP	17 21 09
HUAN	iP	17 11 15
	iS	12 13
	iL	12 40
PF	iP	17 21 06
SH	iP	17 21 55
	epP	22 25

Date and Station		Phase (GCT) h m s
Nov. 15, cont.		
TUC	iP	17 20 32
	ipP	20 56
Nov. 15		
BC	iP	20 29 37
COL	eP	20 25 35
	e	28 17
	eS	29 36
	eL	29 49
GC	eP	20 28 12
HH	iP	20 28 37
PF	iP	20 30 40
SIT	e(S)	20 26 07
	eL	32 40
SH	iP	20 28 31
TUC	iP	20 30 17
	i	30 27
Nov. 15		
SH	eP	22 30 40
Nov. 15		
GC	iP	23 17 31
HH	iP	23 17 44
	e	28 44
	e	29 11
SH	eP	23 17 40.5
	e	17 54.5
Nov. 16		
HH	eP	01 54 42
SH	e(P)	01 54 41
Nov. 16		
BH	eP	11 53 06
	eS	53 52
BC	eP	12 00 29

Date and Station		Phase (GCT) h m s
Nov. 16, cont.		
HH	eP	12 01 22
	eL	21 15
PF	eP	12 00 24
SH	eP	12 01 22
TUC	eP	11 59 48
	i	59 59
Nov. 16		
BH	eP	13 02 30
	eS	03 16
BC	e(P)	13 10 01
PF	e(P)	13 09 57
TUC	eP	13 09 12
	e	09 20
Nov. 16		
HH	eP	14 02 24
Nov. 16		
BC	iP	17 47 44
GC	eP	17 48 09
HUAN	eL	18 23 02
PF	iP	17 47 48
	i	48 38
SH	eP	17 47 34
TUC	iP	17 47 49
	e	48 35
Nov. 16		
BC	e(P)	21 20 28
	i	20 45
PF	i(P)	21 20 24
	i	20 41
TUC	eP	21 19 46
	e	20 10

Date and Station		Phase (GCT) h m s
Nov. 17		
BC	eP	01 05 29
	i	05 42
PF	eP	01 05 31
	i	05 44
SH	eP	01 04 41
	e	04 50
TUC	iP	01 06 12
	e	06 29
Nov. 17		
TUC	eP	02 35 07
	e	35 25
Nov. 17		
GC	iP	06 57 49.3
	iS	58 11.0
HH	eP	06 58 31
	eS	59 53
Nov. 17		
BC	e(P)	08 18 49
	i	19 04
	i	20 04
COL	e(P)	08 19 35
	e	23 07
GC	e(P)	08 17 31
	e	19 29
HH	eP	08 17 44
	e	17 52
PF	e(P)	08 18 46
	i	19 14
	i	20 06
SIT	eL	08 21 50
SH	eP	08 17 40
	i	19 36
TUC	eP	08 19 16
	i	20 23

Date and Station		Phase (GCT) h m s
Nov. 17, cont.		
HH	eP	08 28 57
Nov. 17		
HUAN	iP	09 53 28
	i(S)	53 46
	iL	54 16
Nov. 17		
BER	eP	10 02 00
	eS	06 23
	eL	07 07
BC	iP	10 07 16
CHI	eL	10 29 00
COLU	eS	10 09 36
	eL	14 20
GC	eP	10 07 32
HUAN	eP	10 04 11
	e	04 17
	ePP	05 36
	ePcP	05 52
	eS	10 22
	eL	15 32
PF	iP	10 07 10
	i	07 21
	i(PcP)	08 10
SJ	eS	10 04 52
	i	04 56
	iL	05 18
SH	eP	10 07 48
SIT	eL	10 33 19
TUC	eP	10 06 51
	i	07 05
Nov. 17		
BC	iP	11 23 38
CHI	eL	11 47 12
COL	e(S)	11 19 20
	eL	23 41

Date and Station		Phase (GCT) h m s
Nov. 17, cont.		
COLU	eL	11 50 10
GC	e(P)	11 22 02
HH	eP	11 22 07
PF	e(P)	11 23 05
	i	23 40
SIT	eL	11 26 18
SH	eP	11 22 02
	i	23 05
TUC	eP	11 23 39
	i	23 53
	i	24 05
	i	24 21
Nov. 17		
BC	eP	14 07 39
	iP	07 42
	i	07 53
	iS	08 15
PF	iP	14 07 37
	i	07 55
	iS	08 17
TUC	eP	14 08 08
	e	08 30
	i	08 57
	iS	09 25
	e	10 00
	iL	10 18
Nov. 17		
PF	e(P)	14 33 52
TUC	eP	14 32 57
	i	33 06
Nov. 17		
HH	eP	15 26 39
Nov. 18		
HH	eP	05 10 46
Nov. 18		
BC	e(P)	05 28 06

Date and Station		Phase (GCT) h m s
Nov. 18, cont.		
HH	eP	12 55 24
TUC	iP	12 53 53
	i	54 02
	e	54 16
Nov. 18		
BC	iP	16 47 38
HUAN	iP	16 37 47
	iS	38 33
	iL	39 10
HH	eP	16 48 33
PF	iP	16 47 36
	i	47 50
SJ	eS	16 48 38
	eL	50 30
SH	iP	16 48 25.5
	i	48 32.5
TUC	iP	16 47 02
Nov. 18		
BC	e(P)	17 34 15
HUAN	iP	17 24 10
	iS	25 47
	iL	26 12
PF	iP	17 33 48
	i	34 41
SJ	eP	17 29 08
	eS	34 56
	eL	36 11
SH	eP	17 35 11
TUC	iP	17 33 19
	i	33 37
Nov. 18		
BC	iP	20 00 19
	iS	01 08
	i	01 31

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Date and Station		Phase (GCT) h m s
Nov. 20, cont.		
RC	eP	20 59 43
	e	21 02 07
	e	03 33
	iS	04 11
	iL	05 13
Nov. 20		
SH	e(P)	23 07 17
Nov. 20		
BH	eP	23 59 18
	e	00 00 09
Nov. 21		
BC	iP	00 06 00
HH	eP	00 06 52
PF	iP	00 05 58
SH	e(P)	00 06 56
TUC	iP	00 05 18
Nov. 21		
BH	e(P)	04 00 17
BER	eP	04 01 44
	iPP	03 26
	eS	08 04
	eScS	12 24
	eL	12 32
T_L = 13 sec. $A_{max.}$ = 2mm.		
BC	eP	03 58 27
	iS	04 02 04
BOZ	eP	04 00 01
	iPP	00 58
	e(PcP)	02 09
	eS	04 34
	i	04 41
	iL	05 04
BUT	eP	04 00 00
	ePP	00 52
	ePcP	03 04
	iS	04 44
	iL	05 46

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
CHI	eP	04 06 06
	ePP	01 23
	eS	04 55
	eL	05 53
COL	eP	04 13 31
COLU	eP	04 00 08
	ePcP	02 31
	eS	04 50
	eL	06 25
GC	eP	04 00 27
	eS	05 35
HONO	e(P)	04 02 48
	eS	09 47
	eSS	13 23
	eL	13 40
T_L = 18 sec. $A_{max.}$ = 9mm.		
HUAN	eP	04 02 24
	i	02 28
	e	03 00
	e(S)	08 22
	e	10 44
LOG	iP	03 59 16
	i	59 28
	iPP	04 00 00
	i(PPP)	01 07
	iS	03 33
	eL	05 20
HH	eP	04 00 20
	eS	05 24
NK	iS	04 05 58
	i	09 02
	iL	12 06
PHIL	eP	04 01 17
	iPP	02 10
	iPcP	03 23
	eS	06 19
	iS	06 38
	iL	08 27
PF	iP	03 58 28
	eS	04 02 03

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
SLC	eP	03 59 08
	iP	59 11
	iPP	04 00 44
	e(PPP)	01 00
	iS	03 19
	iL	04 04
SJ	eP	04 01 42
	i	01 48
	i	01 56
	ePP	03 17
	iS	07 43
	eL	10 30
SH	eP	03 59 36
	ePP	04 00 26
	e	02 26
	ePcP	02 46
SIT	eP	04 02 21
	e(PP)	04 44
	iS	08 50
	iL	12 21
	iScS	12 28
TUC	iP	03 57 28
	iS	04 00 16
	iL	00 43
UK	eP	03 59 30
	ePP	04 00 05
	eS	04 00
	eL	04 48
Nov. 21		
BC	iP	04 21 41
HH	eP	04 23 53
PF	iP	04 21 41
SH	eP	04 23 03
TUC	iP	04 20 52
	i	21 09
Nov. 21		
BC	eP	04 57 46
PF	eP	04 57 43

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
SH	eP	04 58 51
TUC	iP	04 56 43
Nov. 21		
BC	eP	05 36 59
PF	eP	05 36 58
TUC	iP	05 36 00
Nov. 21		
PF	i(P)	09 50 05
HH	eP	09 48 33
SH	eP	09 50 27
TUC	iP	09 50 11
	e	50 17
Nov. 21		
BC	e(P)	09 57 01
PF	i(P)	09 57 03
SH	eP	09 58 12
TUC	iP	09 56 01
	i	56 09
	e	56 34
Nov. 21		
HH	eP	12 49 15
SH	iP	12 49 07
Nov. 21		
BER	eL	20 06 33
BC	iP	19 15 32
BOZ	eL	19 48 07
BUT	eL	19 47 24
CHI	eL	19 42 50
GC	eP	19 15 18

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
HUAN	eL	20 07 06
HH	eP	19 15 34
PHIL	eL	19 56 30
PF	iP	19 15 26
SLC	eL	19 43 14
SIT	eL	19 39 50
SH	eP	19 15 04
	e	16 00
TUC	eP	19 15 46
	e	15 57
	eL	43 44
UK	eL	19 39 10
Nov. 22		
BC	iP	05 04 38
HH	iP	05 03 51
PF	iP	05 04 43
SH	iP	05 03 49
	i	04 02
TUC	iP	05 05 08
Nov. 22		
BC	iP	05 48 59
GC	iP	05 49 18.5
HH	iP	05 49 33
PF	iP	05 49 03
SH	iP	05 48 21.5
	ipP	50 05
TUC	iP	05 49 05
	i	49 22
	e(pP)	51 07

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
BC	e(P)	08 06 54
CHI	eP	08 08 02
	ePP	09 20
	eS	13 32
	eL	16 30
GC	e(P)	08 08 29
	i	08 39
HUAN	e(P)	08 07 50
	e(S)	13 14
	eL	17 50
PF	i(P)	08 06 55
RC	eP	08 07 39
	e(S)	13 32
	eL	17 40
SLC	eL	08 16 40
SH	eP	08 07 54
TUC	eP	08 06 11
	i	06 13
	i	06 23
	e	09 26
	eS	10 28
	eL	11 48
Nov. 22		
BC	e(P)	09 34 06
PF	e(P)	09 34 00
SH	eP	09 33 22
TUC	eP	09 33 57
	i	34 17
Nov. 22		
HH	eP	10 59 19
Nov. 22		
PF	e(P)	12 31 22
SH	e(P)	12 31 16

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
TUC	eP	12 31 15
	e	31 28
Nov. 22		
HUAN	iP	19 10 14
	iS	11 07
	iL	12 34
HH	eP	19 20 56
PF	e(P)	19 20 03
Nov. 22		
BC	iP	19 31 03
	i	31 13
PF	iP	19 31 07
	i	31 16
TUC	eP	19 31 11
	e	31 20
Nov. 22		
HH	eP	20 11 02
PF	eP	20 12 10
Nov. 23		
BER	e(P)	09 53 20
	iS	59 17
	iSS	10 02 00
	iL	02 15
BC	eP	09 48 21
	i	48 26
	i	49 03
	iS	50 06
	iL	50 56
BOZ	iP	09 46 23
	iS	47 54
	iL	48 41
BUT	iP	09 46 29
	iS	47 29
	iL	48 04
CHI	iP	09 50 08
	e(PP)	51 12
	eS	53 09

Date and Station		Phase (GCT) h m s
Nov. 23, cont.		
CHI	iS	09 53 35
	iL	54 56
COLU	eP	09 51 37
	eS	56 10
	eL	56 34
GC	eP	09 47 31
	eS	48 34
HUAN	eP	09 56 52
	eS	10 05 36
	eL	14 32
HN	eP	09 47 03
	i	47 03.5
LOG	iP	09 46 54
	i	46 59
NK	iP	09 51 21
	iPP	52 05
	e(PPP)	52 36
	e(PcP)	54 05
	iS	55 40
	iL	58 37
PHIL	iP	09 51 54
	iPP	52 41
	iPPP	53 02
	iS	56 27
	i	56 34
	iL	57 54
PF	iP	09 48 19
	i	49 04
	iS	50 03
RC	iP	09 47 37
	i	47 46
	i	47 53
	iL	10 00 59
SLC	eP	09 47 10
	iP	47 11
	i	47 33
	i	47 54
	iS	47 59
	iL	48 05

Date and Station		Phase (GCT) h m s
Nov. 23, cont.		
SJ	eP	09 54 34
	eS	10 01 20
	eL	04 33
SEA	eP	09 48 45
	eS	50 03
	eL	50 05
TUC	iP	09 49 09
	i	49 14
	iS	52 24
	iL	52 43
UK	eP	09 48 40
	iS	50 42
	iL	51 00
Nov. 23		
BC	eP	10 52 13
	e(S)	52 43
Nov. 23		
HH	iP	12 07 06
	i	07 38
	iS	08 05
Nov. 23		
PF	eP	16 53 55
TUC	eP	16 53 15
	e	53 39
Nov. 23		
BC	iP	18 01 08
	ipP	01 27
GC	eP	17 59 29
	ipP	59 47
GC	iP	17 59 51
	e(pP)	18 00 09
PF	iP	18 01 11
	ipP	01 30
SH	iP	18 00 03
	ipP	00 21
TUC	iP	18 01 50

Date and Station		Phase (GCT) h m s
Nov. 23, cont.		
TUC	i	18 01 58
	ipP	02 09
	e	03 41
Nov. 23		
TUC	eP	21 03 29
	e	03 39
PF	iP	21 03 27
Nov. 24		
GC	eP	04 50 34
Nov. 24		
PF	iP	08 19 11
Nov. 24		
BC	eP	14 27 16
	i	27 19
	ipP	27 32
	i	28 42
HH	e(P)	14 26 20
PF	eP	14 27 19
	iP	27 22
	ipP	27 37
SH	iP	14 26 16.5
	i	26 19.5
	ipP	26 32.5
	i	28 13.5
TUC	eP	14 27 53
	i	27 56
	ipP	28 09
	i	28 19
Nov. 24		
BH	iP	23 01 09
	iS	01 21
Nov. 25		
BH	eP	03 15 58
	eS	16 10
Nov. 25		
BC	eP	08 27 05

Date and Station		Phase (GCT) h m s
Nov. 25, cont.		
PF	iP	08 27 05
SH	eP	08 26 54
TUC	iP	08 27 09
Nov. 25		
BC	eP	08 37 53
PF	iP	08 37 56
SH	eP	08 36 38
TUC	iP	08 36 58
Nov. 25		
SH	eP	08 40 17
	epP	40 32
TUC	eP	08 41 54
	epP	42 10
Nov. 25		
TUC	e(P)	10 01 16
Nov. 25		
SH	eP	18 09 42
	iP	09 43
	iS	10 14
Nov. 25		
BER	eS	18 29 41
	eL	33 07
BH	eP	18 19 43
	e(S)	23 34
BC	e(P)	18 25 14
GC	e(P)	18 26 20
HUAN	iP	18 15 24
	iS	16 10
	iL	16 41
HH	eP	18 26 08
PF	e(P)	18 25 11

Date and Station		Phase (GCT) h m s
Nov. 25, cont.		
SJ	eL	18 26 09
SH	eP	18 26 01
TUC	eP	18 24 37
	i	24 48
	iPcP	25 19
	ePP	26 38
Nov. 25		
GC	e(P)	18 36 15
HUAN	iP	18 25 16
	iS	25 40
	iL	25 54
SH	eP	18 35 53
TUC	eP	18 34 29
	e	34 35
Nov. 25		
BC	iP	23 34 20
GC	iP	23 34 42.5
HH	eP	23 34 58
PF	iP	23 34 23
SH	eP	23 34 07
TUC	iP	23 34 26
	i	34 37
Nov. 26		
PF	e(P)	00 19 52
SH	eP	00 19 37
TUC	iP	00 19 57
	e	20 12
Nov. 26		
HH	eP	00 33 37
	iP	33 39
	iS	33 58

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
BC	eP	01 19 35
GC	e(P)	01 17 51
PF	iP	01 19 33
SH	eP	01 18 30
TUC	eP	01 20 17
	e	20 26
Nov. 26		
SH	iP	10 31 26.5
Nov. 26		
SH	e(P)	22 50 09
	e	50 23
Nov. 27		
HH	eP	10 41 02
Nov. 27		
SH	i(P)	21 15 39.5
Nov. 28		
PF	e(P)	03 00 47
SH	eP	03 01 21
TUC	eP	03 00 32
	e	00 39
Nov. 28		
BC	e(P)	08 58 01
GC	eP	08 56 44
	i	56 53.5
HH	eP	08 57 05
	i	58 48
	e	09 06 29
PF	e(P)	08 58 04
SH	eP	08 57 02
	i	57 10.5
	i	58 56.5
	e	09 02 52

Date and Station		Phase (GCT) h m s
Nov. 28, cont.		
TUC	eP	08 58 38
	i	58 47
	e	59 44
Nov. 28		
HH	eP	10 39 58
Nov. 28		
PF	e(P)	12 40 49
SH	eP	12 41 35
TUC	eP	12 40 17
Nov. 28		
SH	eP	14 20 08
Nov. 28		
SH	eP	14 25 03
Nov. 28		
BOZ	eS	22 04 03
	eL	05 07
CHI	eL	22 06 10
HH	eP	21 58 42
SLC	eS	22 01 12
	eL	02 10
SH	e(P)	21 57 51
	e	58 22
TUC	eP	21 55 07
	i	55 26
	iS	56 35
	iL	56 48
Nov. 28		
BC	iP	23 49 09
	ipP	49 20
PF	iP	23 49 10
	ipP	49 21
SH	eP	23 48 52
	ipP	49 03
	e	49 43

Date and Station		Phase (GCT) h m s
Nov. 28, cont.		
TUC	iP	23 49 16
	ipP	49 26
Nov. 29		
BC	e(P)	01 03 59
	i	04 40
PF	e(P)	01 03 58
	i	04 40
Nov. 29		
SH	eP	06 38 24
Nov. 29		
HH	eP	10 26 36
	e	31 20
TUC	eP	10 27 34
	e	27 48
Nov. 29		
BC	iP	13 13 50
	i	14 08
PF	iP	13 13 54
	i	14 13
Nov. 29		
PF	i(P)	14 24 02
Nov. 30		
HUAN	e(P)	00 57 26
HH	eP	01 04 45
SH	eP	01 05 05
	i	05 21.5
TUC	e(P)	01 03 25
	e	03 54
Nov. 30		
GC	eP	13 12 50
HH	iP	13 13 06
SH	iP	13 13 02.5

Date and Station		Phase (GCT) h m s
Nov. 30, cont.		
TUC	iP	13 14 15
	e	14 49
Nov. 30		
SH	eP	13 39 55
TUC	eP	13 40 17
Nov. 30		
SH	iP	14 23 44
TUC	iP	14 24 04
Nov. 30		
BC	iP	21 29 22
	ipP	31 38
GC	eP	21 28 29
	e(pP)	29 35
HH	iP	21 28 44
	e(pP)	30 00
PF	iP	21 29 23
	ipP	30 41
SH	iP	21 28 40
	epP	29 57
TUC	iP	21 29 46
	epP	31 05
Dec. 1		
BC	eP	00 51 11
HH	iP	00 50 17
PF	iP	00 51 14
SH	iP	00 50 08.5
TUC	iP	00 51 50
	i	52 04
Dec. 1		
BC	eP	02 45 20
CHI	e(P)	02 45 37
GC	eP	02 43 59

Date and Station		Phase (GCT) h m s
Dec. 1, cont.		
PF	eP	02 45 20
SH	eP	02 44 23
	e	44 28
TUC	eP	02 46 04
Dec. 1		
HH	eP	04 31 18
PF	eP	04 31 35
SH	eP	04 30 58
	i	31 01.5
TUC	eP	04 31 58
	e	32 07
Dec. 1		
PF	eP	05 36 47
SH	eP	05 36 33
TUC	iP	05 36 50
	e	37 08
Dec. 1		
BC	eP	07 07 05
PF	iP	07 07 07
	epP	09 15
SH	iP	07 06 54
TUC	iP	07 07 11
	epP	09 15
Dec. 1		
BH	eP	16 20 21
	eS	21 00
Dec. 1		
PF	eP	21 49 10
TUC	iP	21 48 55
	i	49 12
Dec. 1		
BC	eP	23 28 33

Date and Station		Phase (GCT) h m s
Dec. 1, cont.		
HH	eP	23 28 06
PF	iP	23 28 37
SH	iP	23 27 36
TUC	iP	23 29 10
	i	29 21
Dec. 2		
PF	eP	07 09 38
TUC	eP	07 08 45
	e	09 05
	eL	14 17
Dec. 2		
BC	iP	15 58 30
	ipP	58 55
PF	iP	15 58 23
	ipP	58 58
SH	iP	15 57 28.5
	ipP	58 03
TUC	eP	15 58 51
	epP	59 27
Dec. 2		
BC	iP	21 48 27
	i	49 07
GC	iP	21 48 45
PF	iP	21 48 35
	i	49 12
SH	iP	21 48 14.5
	eS	57 30
TUC	iP	21 48 32
	i	48 49
	e	49 35
	e	50 48
	e(S)	58 12
Dec. 2		
PF	eP	22 57 44

Date and Station		Phase (GCT) h m s
Dec. 2, cont.		
BC	iP	23 38 42
PF	iP	23 38 40
TUC	eP	23 39 05
Dec. 3		
PF	eP	00 06 57
TUC	eP	00 06 06
Dec. 3		
TUC	eP	22 24 35
	eS	25 31
	eL	25 42
Dec. 4		
HH	eP	02 35 27
Dec. 4		
BC	ePP	14 34 58
GC	e	14 31 48
	ePP	34 05
	e(SKS)	39 30
	e(sS)	40 08
HUAN	eP'	14 36 33
	e	38 04
	ePKS	40 15
	eSKS	45 08
	eSKKS	46 10
	eSKSP	50 24
	ePPPS	53 04
	eSS	15 00 00
	eL	17 32
HH	eP	14 30 00
	e	37 01
	eSKS	39 42
PF	ePP	14 34 50
SH	eP	14 29 47
	e	31 50
	e	32 58
TUC	ePP	14 34 51
	e	35 34

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
SH	iP	14 59 12
TUC	iP	15 00 49
Dec. 4		
SH	eP	20 59 26
TUC	iP	20 59 38
Dec. 5		
TUC	eP	05 52 05
Dec. 5		
HH	eP	14 52 24
Dec. 5		
BC	eP	17 12 04
GC	eP	17 12 23
PF	eP	17 12 06
SH	iP	17 11 49.5
	e	12 52
	e	13 17
TUC	iP	17 12 10
	e	13 36
Dec. 5		
SJ	eP	20 20 20
	iS	20 55
	iL	21 03
Dec. 5		
CHI	e(P)	21 59 34
	eL	22 20 36
SH	iP	21 59 00
TUC	iP	21 59 17
Dec. 5		
BH	ePP	23 38 49
BC	iP	23 34 17
	ipP	34 32
HUAN	e(P)	23 34 27

Date and Station		Phase (GCT) h m s
Dec. 5, cont.		
SH	eP	23 34 10
TUC	iP	23 34 17
	ipP	34 32
Dec. 5		
BC	eP	23 42 44
PF	eP	23 42 48
SH	eP	23 42 38
TUC	iP	23 42 44
	i	42 58
	i	43 09
Dec. 6		
HH	eP	01 58 10
Dec. 6		
HH	eP	11 55 03
Dec. 7		
TUC	eP	02 02 48
	e	03 16
Dec. 7		
TUC	eP	03 24 42
Dec. 7		
BC	eP	03 48 24
PF	iP	03 48 26
SH	iP	03 48 03
	e	48 58
	e	49 20
TUC	eP	03 48 35
	e	49 19
	e	49 42
Dec. 7		
PF	eP	06 31 49
Dec. 7		
SH	eP	10 29 50
TUC	iP	10 30 11

Date and Station		Phase (GCT) h m s
Dec. 7, cont.		
HH	iP	11 18 44
SH	iP	11 18 41
Dec. 7		
BC	eP	11 54 45
PF	eP	11 54 48
SH	eP	11 54 24
TUC	eP	11 54 55
Dec. 7		
PF	eP	13 27 41
TUC	eP	13 27 38
	e	28 02
Dec. 7		
BC	eP	15 15 10
	e	18 46
HH	eP	15 19 03
PF	e(P)	15 15 12
	i	18 42
SJ	eP	15 10 55
	eS	11 26
	eL	11 34
SH	eP	15 19 31
	i	19 51.5
TUC	iP	15 15 30
	i	18 16
	i	18 53
	i	19 17
Dec. 7		
BC	eP	16 34 34
HH	eP	16 35 53
PF	eP	16 34 32
TUC	iP	16 33 49
	i	34 07

Date and Station		Phase (GCT) h m s
Dec. 7, cont.		
PF	iP	17 29 30
SH	iP	17 29 05
TUC	iP	17 29 38
Dec. 7		
HH	eP	19 35 30
Dec. 7		
BC	eP	23 00 15
	e	00 40
Dec. 8		
BC	eP	00 34 10
HH	eP	00 34 37
PF	eP	00 34 06
SH	eP	00 33 52
TUC	iP	00 34 09
	e	34 23
Dec. 8		
TUC	eP	07 03 16
Dec. 8		
TUC	eP	07 08 24
	e	08 36
Dec. 8		
HH	iP	09 07 27
	i	07 56
MONT	eP	08 55 37
	iS	55 54
	eL	56 03
SH	iP	09 07 19.5
TUC	iP	09 06 09
Dec. 8		
BC	eP	16 58 15
GC	eP	16 58 39

Date and Station		Phase (GCT) h m s
Dec. 8, cont.		
HH	eP	16 58 52
PF	eP	16 58 17
SH	eP	16 58 02
TUC	eP	16 58 16
Dec. 8		
HH	eP	17 01 51
TUC	eP	17 05 07
Dec. 8		
BER	e(S)	17 41 28
	eL	52 20
BC	eP	17 32 00
PF	eP	17 31 58
SJ	e(S)	17 41 10
TUC	iP	17 32 02
Dec. 8		
HUAN	e	18 06 42
	eL	15 40
SLC	eL	18 04 07
Dec. 8		
HH	eP	23 28 19
Dec. 9		
TUC	eP	02 19 34
Dec. 9		
HH	iP	04 40 15
PF	eP	04 40 56
SH	eP	04 40 09
	i	40 13.5
Dec. 9		
HH	eP	05 51 22

Date and Station		Phase (GCT) h m s
Dec. 9, cont.		
SJ	eP	09 23 10
	eS	23 31
	eL	23 39
Dec. 9		
BC	eP	09 55 34
GC	eP	09 54 11
HH	eP	09 54 01
PF	eP	09 55 38
SH	eP	09 55 07
TUC	eP	09 55 56
	i	56 04
Dec. 9		
GC	e(P)	23 31 24
HUAN	eP	23 22 25
	e	22 45
	eS	22 56
	eL	23 06
HH	iP	23 31 13
Dec. 9		
HH	iP	23 52 34
PF	e(P)	23 54 00
	e	58 35
Dec. 10		
HUAN	eP	01 36 36
	eS	37 09
	eL	37 21
Dec. 10		
BC	eP	02 41 54
	e(S)	42 44
PF	eP	02 42 00
Dec. 10		
BC	eP	04 53 42
	e	54 38

Date and Station		Phase (GCT) h m s
Dec. 10, cont.		
GC	e(P)	04 52 15
	e	53 53
HH	eP	04 52 08
PF	eP	04 53 36
RC	eL	05 09 05
SLC	eL	05 12 24
SH	e(P)	04 53 16
TUC	iP	04 54 03
	i	54 09
	e	55 43
Dec. 10		
HUAN	eP	09 15 13
	eS	15 51
	eL	16 23
Dec. 10		
BC	eP	09 47 28
HH	eP	09 45 53
TUC	eP	09 47 46
	i	47 52
Dec. 10		
HH	iP	23 29 55
PF	i(P)	23 30 13
	iP	30 49
SH	eP	23 29 53
TUC	iP	23 31 04
Dec. 11		
GC	eP	00 31 12
Dec. 11		
SH	eP	01 06 35
	e	08 06
Dec. 11		
SH	eP	12 47 50

Date and Station		Phase (GCT) h m s
Dec. 12		
BC	eP	02 03 34
GC	eP	02 02 17
HH	eP	02 02 37
PF	eP	02 03 44
	e	31 12
SH	iP	02 02 40.5
Dec. 12		
HH	eP	02 31 08
SH	eP	02 30 39
Dec. 12		
HUAN	eP	18 35 40
	e	39 40
PF	iP	18 43 29
Dec. 12		
BOZ	e(P)	19 54 03
	eS	54 18
BUT	eP	19 53 53
	eS	54 03
	eL	54 06
GC	eP	19 55 03
	iS	56 04
HH	iP	19 54 11
Felt in Helena, Mont.		
Dec. 13		
BC	eP	01 38 26
PF	eP	01 38 31
SH	eP	01 38 20
TUC	eP	01 38 34
	i	38 45

Date and Station		Phase (GCT) h m s
Dec. 13, cont.		
HUAN	eP	02 20 11
	i	20 40
	e(PcP)	23 09
	eS	23 55
	eL	25 34
Dec. 13		
BC	iP	03 32 14
PF	iP	03 32 12
	e	34 54
SH	eP	03 32 00
TUC	iP	03 32 16
	i	32 19
	i	34 36
Dec. 13		
HH	eP	04 05 18
SH	eP	04 05 19
Dec. 13		
HH	eP	05 58 13
Dec. 13		
HUAN	eP	06 33 29
	eS	37 02
	eL	38 04
Dec. 13		
BC	eP	09 35 44
PF	iP	09 35 48
SH	eP	09 35 31
TUC	iP	09 35 47
Dec. 13		
BC	eP	12 15 26
GC	iP	12 16 47
HH	eP	12 16 04
PF	iP	12 15 08
	i	15 20

Date and Station		Phase (GCT) h m s
Dec. 13, cont.		
SH	eP	12 16 26
TUC	iP	12 15 04
Dec. 13		
BC	eP	12 53 42
PF	eP	12 53 41
Dec. 13		
BC	eP	21 03 41
HUAN	eP	20 58 45
	e	21 01 09
	eS	01 48
	eL	02 42
HH	iP	21 05 11
PF	iP	21 03 38
SH	eP	21 05 06
TUC	iP	21 03 33
Dec. 13		
BC	iP	23 12 09
	ipP	12 24
GC	iP	23 11 07
	epP	11 20
HH	iP	23 11 24
	ipP	11 40
PF	iP	23 12 10
	ipP	12 26
	e	15 14
SH	iP	23 11 22
	ipP	11 38
TUC	eP	23 12 31
	ipP	12 51
	e	13 16
Dec. 14		
BC	eP	02 28 14
	ipP	28 44

Date and Station		Phase (GCT) h m s
Dec. 14, cont.		
GC	eP	02 29 11
	ipP	29 40
	esP	29 57
HH	eP	02 29 00
	ipP	29 31
MONT	eP	02 17 35
	eS	18 10
	iS	18 19
	eL	18 25
PF	iP	02 28 11
	ipP	28 41
SJ	ePP	02 26 46
	eS	30 54
	e	31 25
	eL	34 16
SH	eP	02 28 52
	epP	29 22
TUC	iP	02 27 44
	ipP	28 14
Dec. 14		
SH	eP	05 43 32
	e	44 07
	i	44 31.5
Dec. 14		
SJ	e(P)	07 33 35
	eS	37 17
	eL	39 17
Dec. 14		
BC	e(P)	13 26 05
PF	i(P)	13 25 23
	e	26 52
Dec. 14		
TUC	eP	15 51 25
Dec. 14		
SH	eP	23 31 15

Date and Station		Phase (GCT) h m s
Dec. 15		
SH	eP	00 19 48
Dec. 15		
BC	eP	01 02 08
PF	iP	01 02 10
SH	eP	01 01 57
TUC	iP	01 02 13
Dec. 15		
BC	eP	03 19 57
	i	20 28
	iS	20 41
PF	iP	03 19 58
	i	20 28
	iS	20 38
TUC	eP	03 19 32
	i	19 43
	iS	20 23
Dec. 15		
HH	eP	13 33 38
Dec. 15		
HUAN	eP	17 43 42
	eS	44 28
	eL	44 36
Dec. 15		
BER	ePP	19 40 17
	eSKS	46 16
	ePS	50 20
	eSS	57 10
	eSSS	16 01 07
BC	eP	19 34 20
	ePP	38 28
BOZ	eP'	19 39 42
	eSKS	45 40
	ePS	49 15
	ePPS	50 31
	eSS	55 30
	eL	20 09 19

Date and Station		Phase (GCT) h m s
Dec. 15, cont.		
BUT	eP'	19 39 42
	ePS	49 15
	ePPS	50 25
	eSS	55 34
	eL	20 08 46
CHI	ePS	19 50 03
	eL	20 21 43
COL	ePP	19 41 07
	e(S)	49 42
	ePS	51 05
	eSS	57 20
	eL	20 14 36
GC	e(P)	19 35 03
	eP'	39 01
	e	39 39
HONO	eS	19 43 08
	eL	53 53
HUAN	iP	19 32 20
	e	34 50
	ePP	35 13
	eS	42 08
	eScS	42 52
	eSS	47 14
	eL	52 58
PHIL	eP'	19 39 43
	ePP	40 40
	ePS	50 46
	e(SS)	56 16
	eSSS	20 02 40
	eL	20 13
PF	eP	19 34 21
	ePP	38 32
	ePKKP	50 27
RC	eP'	19 39 28
	ePS	49 26
	eL	16 27
SJ	eP	19 34 43
	e(PP)	38 50
	e	40 26

Date and Station		Phase (GCT) h m s
Dec. 15, cont.		
SJ	eSKS	19 45 23
	eSKKS	46 20
	ePS	48 33
	ePPS	49 27
	ePKKP	50 40
	eSS	54 43
	e	20 03 28
	eL	07 14
SH	eP	19 34 28
	e	34 33
	ePP	38 48
SIT	eP'	19 39 41
	e(PS)	49 34
	ePPS	51 22
	eSS	57 08
	eSSS	20 01 35
	eL	08 30
TUC	iP	19 34 08
	iPP	38 14
	e	40 10
	eSKS	44 12
	eS	45 23
	ePS	47 17
	ePKKP	50 34
	eP'P'	58 38
	eL	20 03 18
Dec. 16		
HUAN	eP	00 01 31
	e	02 16
HH	eP	00 05 52
Dec. 16		
TUC	iP	00 28 43
Dec. 16		
BC	eP	01 45 31
GC	eP	01 45 08
	e	45 49
HH	eP	01 45 17

Date and Station		Phase (GCT) h m s
Dec. 16, cont.		
PF	iP	01 45 34
SH	eP	01 44 57
TUC	eP	01 45 55
Dec. 16		
BC	e(P)	09 23 54
PF	eP	09 22 18
	e	24 08
SH	eP	09 22 28
	e	23 20
Dec. 16		
BC	eP	11 05 47
PF	eP	11 05 48
Dec. 16		
BC	iP	11 28 05
	i	28 19
	iS	29 05
BOZ	eL	11 35 12
GC	e(PP)	11 31 37
HH	eP	11 30 56
PF	iP	11 28 25
	i(S)	29 13
SH	eP	11 29 51
	eL	33 01
TUC	eP	11 27 41
	i	27 50
Dec. 16		
SH	eP	13 53 28
Dec. 16		
HH	eP	14 31 03
	iS	31 52
Dec. 16		
BC	iP	18 25 11
	e	29 31

Date and Station		Phase (GCT) h m s
Dec. 16, cont.		
HH	e	18 28 26
SH	iP	18 24 06
	e	28 27
TUC	iP	18 25 53
	i	27 44
	e	29 59
Dec. 16		
BC	eP	19 40 34
TUC	iP	19 40 39
Dec. 16		
BC	iP	20 52 53
GC	iP	20 51 24
	i	51 34
HH	iP	20 51 30
PF	iP	20 52 53
SH	eP	20 52 08
TUC	eP	20 53 21
Dec. 16		
BC	e(P)	21 00 03
	e	01 44
COL	e(P)	20 56 32
	eS	21 00 40
	eL	02 39
GC	eP	20 59 07
HH	eP	20 59 23
PF	eP	21 00 24
SH	eP	20 59 22
TUC	iP	21 00 57
	i	01 13
	i	01 24

Date and Station		Phase (GCT) h m s
Dec. 17		
TUC	eP	02 10 11
	e	10 30
Dec. 17		
BC	eP	04 24 48
PF	eP	04 24 50
Dec. 17		
HH	eP	07 08 10
Dec. 17		
GC	eP	08 01 53
HH	eP	08 02 08
PF	eP	08 03 05
SH	eP	08 02 04
TUC	eP	08 03 38
	e	03 47
Dec. 17		
BC	eP	11 02 13
PF	iP	11 02 16
	e	03 31
SH	iP	11 01 59.5
TUC	iP	11 02 17
	ipP	02 41
Dec. 17		
BC	eP	11 18 41
PF	eP	11 18 43
SH	iP	11 18 28.5
TUC	iP	11 18 43
Dec. 17		
BC	e(S)	12 43 57
GC	eP	12 39 17
	eS	40 31

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
HH	iP	12 38 35
	iS	39 05
IF	e(P)	12 40 53
	e	43 42
SH	eP	12 40 23
Dec. 17		
PF	eP	14 43 46
Dec. 17		
BC	e(P)	20 29 10
PF	e(P)	20 29 11
TUC	iP	20 28 12
	e	28 52
Dec. 17		
GC	eP	21 57 30
Dec. 17		
HH	eP	22 16 01
Dec. 17		
SH	iP	23 12 12.5
Dec. 18		
HH	eP	00 22 45
Dec. 18		
BC	eP	03 18 59
PF	iP	03 18 57
TUC	eP	03 18 27
Dec. 18		
HUAN	eP	04 57 27
Dec. 18		
SH	eP	14 39 20
Dec. 18		
BC	eP	17 19 49
PF	eP	17 19 53

Date and Station		Phase (GCT) h m s
Dec. 18, cont.		
PF	eP	18 09 56
Dec. 19		
BC	eP	01 27 31
GC	eP	01 27 57
HH	eP	01 28 07
PF	iP	01 27 34
SH	eP	01 26 21
TUC	iP	01 27 36
Dec. 19		
SH	eP	02 38 47
Dec. 19		
HH	eP	03 00 15
SH	eP	02 59 46
Dec. 19		
GC	eP	04 50 41
HH	eP	04 50 38
SH	eP	04 50 10
	i	50 18
Dec. 19		
HUAN	eP	06 33 15
	e	34 37
Dec. 19		
HH	eP	07 00 56
Dec. 19		
HUAN	eP	14 58 11
Dec. 19		
HUAN	eP	15 19 37
	eS	20 13
	eL	20 25
PF	e(P)	15 31 18

Date and Station		Phase (GCT) h m s
Dec. 19, cont.		
BC	e(P')	16 54 54
GC	eP	16 49 46
	i(pP)	49 57
HUAN	e(P')	16 56 33
	e	17 01 02
HH	iP	16 49 52
	e	17 00 50
PF	e(P)	16 50 36
	i	53 59
	i	55 46
	e	17 06 37
SH	eP	16 49 54
	i	49 19.5
TUC	e(P')	16 54 16
	e	55 23
	e	17 06 16
Dec. 19		
BH	e(P)	16 56 05
Dec. 20		
PF	eP	00 16 31
Dec. 20		
PF	eP	06 16 42
Dec. 20		
PF	iP	16 00 13
TUC	eP	16 00 30
Dec. 21		
BC	eP	00 19 04
GC	eP	00 19 22
HONO	eL	00 24 13
HH	eP	00 19 36
PF	eP	00 19 04
	i	19 12

Date and Station		Phase (GCT) h m s
Dec. 21, cont.		
SH	eP	00 18 45
TUC	iP	00 19 06
	i	19 13
Dec. 21		
GC	eP	03 12 06
	e	14 22
HH	eP	03 12 44
	e	15 28
PF	iP	03 14 29
SH	eP	03 12 54
TUC	iP	03 15 17
	e	15 38
Dec. 21		
SH	eP	09 05 08
Dec. 21		
BC	eP	10 52 41
HUAN	eP	10 49 05
	e(S)	54 26
	eL	56 03
HH	eP	10 53 13
PF	iP	10 52 28
TUC	iP	10 51 55
	e	52 03
Dec. 21		
BC	iP	11 47 39
	i	47 53
PF	iP	11 47 43
	i	47 58
SH	eP	11 47 14
Dec. 21		
HH	e(P)	12 00 34
	e	05 22

Date and Station		Phase (GCT) h m s
Dec. 21		
BC	iP	16 57 24
	ipP	57 41
COL	eL	17 23 36
GC	iP	16 57 47
	ipP	58 02
HUAN	e(S)	17 10 28
	eL	30 41
HH	iP	16 58 03
PF	iP	16 57 29
	ipP	57 45
SLC	eL	17 23 04
TUC	iP	16 57 30
	ipP	57 47
	i	57 57
	eS	17 06 32
	eL	19 44
Dec. 21		
HUAN	eP	23 56 24
	eS	57 45
	eL	58 34
Dec. 22		
BC	eP	00 02 30
HH	eP	00 03 27
PF	iP	00 02 27
SH	iP	00 03 22
TUC	iP	00 01 51
	i	01 57
Dec. 22		
PF	eP	02 40 13
SH	iP	02 39 54.5
TUC	iP	02 40 15

Date and Station		Phase (GCT) h m s
Dec. 22, cont.		
BC	eP	03 07 41
HH	e(P)	03 07 05
PF	iP	03 07 38
	e	10 40
SJ	eL	03 10 49
SH	iP	03 08 00.5
Dec. 22		
BC	eP	03 16 46
COL	eP	03 09 47
	eS	10 16
HH	eP	03 14 23
PF	eP	03 16 53
SH	i(P)	03 18 28.5
TUC	iP	03 18 33
Dec. 22		
PF	iP	03 18 47
BC	eP	03 18 47
Dec. 22		
SH	eP	09 58 09
Dec. 22		
TUC	eP	10 22 24
Dec. 22		
BC	iP	13 18 59
GC	iP	13 17 54
	i	18 01
HH	eP	13 18 11
PF	iP	13 19 02
SH	eP	13 18 10

Date and Station		Phase (GCT) h m s
Dec. 22, cont.		
TUC	iP	13 19 27
	i	19 35
	i	19 49
Dec. 22		
PF	iP	18 22 33
SH	eP	18 23 22
TUC	iP	18 21 59
Dec. 22		
HH	eP	20 56 47
Dec. 22		
SH	eP	21 42 38
Dec. 22		
BC	eP	21 58 54
HH	e(P)	21 58 39
PF	iP	21 58 57
SH	eP	21 58 18
TUC	iP	21 59 05
Dec. 23		
BC	iP	02 02 13
	i	02 35
	i(PP)	02 52
	iPcP	05 13
	eScP	08 53
	e(S)	12 22
GC	e(P)	02 03 42
	i	04 20
	i(PcP)	05 42
HUAN	eP	02 02 22
	e(S)	07 22
	eL	11 24
Dec. 23		
HH	e(P)	02 03 27
	i	05 38

Date and Station		Phase (GCT) h m s
Dec. 23, cont.		
PF	iP	02 02 09
	i	02 34
	i(PP)	02 47
	iPcP	05 13
	eScP	08 51
	eS	11 59
SJ	e(P)	01 57 44
	eS	02 02 24
	eL	03 05
SH	eP	02 02 53
	i	03 33.5
	i	05 33
TUC	iP	02 01 28
	i	01 42
	i	01 54
	i(PcP)	05 01
	e(S)	06 05
	i	06 37
	i(ScP)	08 36
	eL	08 44
Dec. 23		
BC	eP	09 58 59
HH	eP	09 58 12
PF	eP	09 59 00
TUC	eP	09 59 28
	e	59 47
Dec. 23		
PF	eP	11 13 58
Dec. 23		
HH	iP	15 07 41
SH	eP	15 07 29
TUC	iP	15 06 25
	e	06 45
Dec. 23		
SH	eP	17 03 04

Date and Station		Phase (GCT) h m s
Dec. 23, cont.		
HH	eP	18 23 29
Dec. 24		
BC	eP	04 22 09
PF	eP	04 22 17
	e(S)	22 52
Dec. 24		
HUAN	eP	05 10 20
Dec. 24		
BC	iP'	05 41 20
CHI	eL	06 43 12
GC	eP'	05 41 31
LOG	iP'	05 41 34
	i	41 54
HUAN	ePP	05 41 14
	eSKKS	48 19
	ePS	50 48
	eSS	56 28
	eL	06 19 00
HH	eP'	05 41 37
	i	41 44
PF	iP'	05 41 20
	iPKS	44 50
RC	eP'	05 41 43
SJC	eP'	05 41 37
	eL	06 36 38
SJ	eP'	05 41 23
	e	42 40
	ePKS	45 08
	e(SKKS)	50 30
	e(PS)	56 16
	e	06 04 10
SH	eP'	05 41 14

Date and Station		Phase (GCT) h m s
Dec. 24, cont.		
TUC	iP	05 41 16
	i	41 43
	iPKS	44 26
	e(SKS)	47 48
	e	51 46
Dec. 24		
BC	iP	16 42 10
	eL	49 55
BOZ	eL	16 53 23
BUT	eL	16 54 28
GC	iP	16 43 49
HUAN	eP	16 44 04
	eS	49 45
HH	eP	16 43 38
LOG	eL	16 51 28
PF	iP	16 42 07
	eL	49 44
RC	eP	16 42 40
	eS	48 12
	eL	51 41
SLC	eL	16 51 17
SJ	eL	16 53 08
TUC	iP	16 41 17
	i	44 24
	e(S)	44 17
	eL	46 38
Dec. 24		
GC	eP	17 14 24
PF	eP	17 12 41
TUC	iP	17 11 52
	eL	17 27
Dec. 24		
BOZ	eL	17 38 15

Date and Station		Phase (GCT) h m s
Dec. 24, cont.		
GC	eP	17 28 08
PF	iP	17 26 26
	eL	33 52
SLC	eL	17 36 16
SH	eP	17 27 11
TUC	iP	17 25 37
	eL	31 12
Dec. 24		
GC	eP	17 40 25
LOG	eL	17 48 52
PF	eP	17 38 43
SLC	eS	17 44 20
	eL	49 20
TUC	iP	17 37 53
Dec. 24		
BOZ	eL	17 50 30
BUT	eL	17 54 07
GC	iP	17 43 35
	i	45 58
HUAN	e(P)	17 43 43
	eS	49 17
	eL	52 28
HH	eP	17 43 23
PF	iP	17 41 52
	eS	46 27
	eL	49 24
RC	eP	17 42 32
	e(S)	48 43
	eL	51 36
SJ	eL	17 53 15
SH	eP	17 42 59

Date and Station		Phase (GCT) h m s
Dec. 24, cont.		
TUC	iP	17 41 02
	e	43 26
	eS	45 03
Dec. 25		
GC	eP	02 11 21
HH	eP	02 11 37
PF	eP	02 11 45
SH	eP	02 11 11
Dec. 25		
PF	iP	04 34 09
Dec. 25		
BC	iP	06 05 42
	i(pP)	05 54
GC	eP	06 04 19
HH	eP	06 04 41
	i	04 54
PF	iP	06 05 47
	i(pP)	05 59
SH	iP	06 04 36
	i	04 47.5
TUC	iP	06 06 23
	ipP	06 36
Dec. 25		
TUC	eP	09 28 33
Dec. 25		
BC	iP	14 59 55
PF	iP	14 59 59
	e	15 02 07
SH	eP	14 59 43
TUC	iP	15 00 01
	i	00 10

Date and Station		Phase (GCT) h m s
Dec. 26		
BC	iP	02 14 06
GC	eP	02 13 09
HH	iP	02 13 26
PF	iP	02 14 09
SH	eP	02 13 20
TUC	iP	02 14 32
	e	14 40
Dec. 26		
COL	eP	04 44 16
	iS	44 23
Dec. 26		
HUAN	eP	04 11 40
	e	12 24
Dec. 26		
BC	eP	10 30 01
	e(S)	30 31
PF	eP	10 30 08
	e(S)	30 45
Dec. 26		
BC	iP	16 57 03
	i	57 09
	e(PP)	17 00 38
BOZ	eL	17 28 19
CHI	eSS	17 19 06
	eL	41 20
GC	eP	16 57 15
	ePP	17 00 56
HONO	eS	17 00 37
	eL	05 00
T_L = 12 sec. $A_{max.}$ = 10mm.		
HUAN	ePP	17 03 04

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
HUAN	ePS	17 12 49
	eSS	18 46
	eL	32 46
HH	eP	16 57 31
PF	eP	16 57 06
	iP	57 08
	e(PP)	17 00 46
RC	eL	17 33 35
SLC	eSKS	17 08 06
	eL	28 30
SJ	ePKS	17 06 14
	e(S)	14 15
	ePS	15 13
	eSS	22 12
	eSSS	27 18
SH	eP	16 56 45
	i	57 29
	ePP	17 00 16
SIT	eL	17 20 42
TUC	iP	16 57 10
	i	57 16
	iPP	17 00 55
	e(PPP)	02 47
	e	06 33
	eS	08 40
	eL	25 48
UK	eL	17 18 07
Dec. 26		
BC	eP	19 16 01
PF	iP	19 16 07
TUC	eP	19 16 09
Dec. 26		
PF	eP	20 00 29
TUC	eP	20 00 31

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
BC	iP	20 05 27
	i	12 28
GC	eP	20 05 51
	i	06 03
HH	eP	20 06 03
PF	iP	20 05 31
	i	05 46
	i	06 19
	i	12 33
SH	eP	20 05 17
TUC	iP	20 05 29
	i	05 42
	i	05 58
Dec. 26		
CHI	eL	20 45 16
HUAN	eL	20 37 25
PF	eL	20 31 57
RC	eL	20 38 50
SLC	eL	20 45 30
SH	eP	20 12 12
TUC	iP	20 12 37
Dec. 26		
PF	eP	20 59 52
SH	eP	20 59 29
TUC	eP	20 59 53
Dec. 26		
BC	iP	23 29 06
PF	iP	23 29 11
SH	eP	23 28 50

Date and Station		Phase (GCT) h m s
Dec. 26, cont.		
TUC	iP	23 29 15
	i	29 26
Dec. 26		
PF	eP	23 54 50
	e	56 13
SH	eP	23 54 29
	e	54 43
TUC	eP	23 54 53
Dec. 27		
PF	eP	01 06 51
Dec. 27		
BC	eP	03 24 16
	epP	24 43
GC	eP	03 23 05
	ipP	23 24
HH	eP	03 23 22
PF	iP	03 24 18
	ipP	24 43
SH	eP	03 23 23
	ipP	23 47.5
TUC	iP	03 24 48
	ipP	25 10
Dec. 27		
BC	eP	05 37 40
PF	eP	05 37 53
SH	eP	05 37 37
TUC	eP	05 37 57
Dec. 27		
BC	eP	05 54 34
PF	eP	05 54 38
SH	eP	05 54 24

Date and Station		Phase (GCT) h m s
Dec. 27, cont.		
TUC	eP	05 54 36
Dec. 27		
PF	eP	07 31 34
Dec. 27		
BC	eP	09 17 04
	e(S)	17 43
PF	eP	09 17 08
	i	17 16
	i(S)	17 41
Dec. 27		
HH	eP	11 49 19
Dec. 27		
BC	iP	16 51 06
	ipP	51 43
GC	eP	16 51 29
	e(pP)	52 06
HH	eP	16 51 41
PF	iP	16 51 17
	ipP	51 50
SH	iP	16 50 57.5
	ipP	51 35.5
TUC	iP	16 51 09
	i	51 28
	ipP	51 47
Dec. 27		
BC	eP	17 47 28
BOZ	eL	18 07 14
PF	iP	17 47 34
SH	eP	17 47 12
TUC	iP	17 47 36
	e	47 52
Dec. 27		
BC	eP	18 33 37

Date and Station		Phase (GCT) h m s
Dec. 27, cont.		
PF	eP	18 33 41
SH	eP	18 33 21
TUC	eP	18 33 44
Dec. 27		
SH	eP	21 20 49
Dec. 27		
HH	iP	22 27 19
SH	eP	22 27 17
Dec. 28		
BC	eP	03 12 50
PF	eP	03 12 24
TUC	eP	03 12 25
Dec. 28		
HH	eP	13 40 50
PF	eP	13 41 42
	i(pP)	41 54
Dec. 28		
BC	e(P)	15 56 11
PF	eP	15 54 36
	i	56 16
SH	e(P)	15 55 57
TUC	eP	15 54 33
	e	54 36
	i	56 16
Dec. 28		
BOZ	eL	18 37 36
Dec. 28		
BOZ	eL	19 17 46
PF	e(P)	19 06 09
Dec. 28		
HH	eP	19 55 15

Date and Station		Phase (GCT) h m s
Dec. 29		
BUT	eL	02 43 12
Dec. 29		
HH	eP	07 29 10
	e	29 46
SH	iP	07 29 03
	i	29 45.5
TUC	eP	07 30 47
Dec. 29		
HH	eP	11 39 28
TUC	eP	11 40 46
	e	41 06
Dec. 29		
TUC	eP	12 50 39
	e	50 52
Dec. 29		
BC	eP	14 42 53
GC	eP	14 42 13
	i	42 28
PF	iP	14 42 57
	i	43 14
SH	eP	14 42 08
	i	42 32
TUC	eP	14 43 16
	e	43 27
Dec. 29		
HH	eP	15 14 38
Dec. 29		
HH	e(P)	18 18 44
TUC	eP	18 20 06
	e	20 20
Dec. 29		
PHIL	eL	18 57 22

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
TUC	eP	18 43 21
	i	43 39
	e	44 07
	e	44 18
Dec. 29		
SH	eP	20 12 41
TUC	iP	20 12 04
Dec. 29		
BOZ	eL	22 16 14
SH	eP	21 58 26
	e	58 54
Dec. 29		
HH	iP	22 55 44
Dec. 30		
HUAN	eP	02 00 24
	eS	04 42
	iS	04 37
	eL	06 20
TUC	iP	02 01 55
	ePcP	03 53
Dec. 30		
HUAN	eP	05 17 06
	e(S)	17 41
	eL	17 55
Dec. 30		
HUAN	eP	05 25 20
	e	25 41
	eS	26 10
	eL	26 18
Dec. 30		
BH	iP	01 56 25
	iS	57 18
BC	eP	02 02 37
	iPcP	04 51
CHI	eP	02 01 42
	ePcP	03 09
	eS	07 03

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
CHI	eL	02 08 44
COL	eL	02 33 12
COLU	eP	02 00 33
	eS	05 11
	eL	07 09
GC	eP	02 03 55
	iPcP	05 24
HH	eP	02 03 37
	iPcP	05 16
PHIL	i(P)	02 02 38
	i	03 09
	iS	07 05
	eL	09 52
PF	iP	02 02 34
	iPcP	04 49
RC	eP	02 02 36
	ePcP	04 08
	eS	08 30
	eL	17 20
SLC	eL	02 12 51
SJ	e(P)	01 59 44
	iP	59 47
	i	59 55
	i	02 00 29
	eS	03 26
	iL	03 42
SH	eP	02 03 36
	ePP	05 14
SIT	eL	02 31 28
TUC	iP	02 01 55
	iPP	02 50
	ePcP	03 53
	i	04 37
Dec. 30		
GC	e(P)	07 11 39

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
HH	eP	07 08 42
	e	09 04
PF	eP	07 09 57
SH	eP	07 09 46
TUC	iP	07 10 04
	e	10 31
Dec. 30		
TUC	eP	07 37 55
	e	37 06
Dec. 30		
HH	eP	09 05 36
Dec. 30		
TUC	eP	14 32 42
Dec. 30		
HH	e(P)	15 42 24
TUC	eP	15 46 09
	e	46 16
Dec. 30		
BC	iP	16 57 44
	i	57 55
	e	58 24
GC	eP	16 56 19
PF	iP	16 57 46
	i	58 00
SH	eP	16 56 35
TUC	iP	16 58 24
	i	58 36
Dec. 30		
GC	eP	17 29 12
PF	iP	17 30 40
SH	eP	17 29 30
TUC	iP	17 31 17
	e	31 39

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
PF	iP	18 33 45
Dec. 30		
SH	eP	18 43 12
TUC	eP	18 43 46
Dec. 30		
PF	iP	19 20 00
	i	20 09
	iS	20 42
SH	e(P)	19 22 35
Dec. 30		
PF	eP	19 29 44
	iS	30 27
Dec. 30		
SH	eP	20 52 42
Dec. 31		
PF	eP	05 30 42
Dec. 31		
POZ	eL	05 57 26
HH	e(P)	05 39 33
RC	eL	05 55 57
SH	e(P)	05 40 42
TUC	eP	05 40 52
	e	40 59
	eL	59 05
Dec. 31		
PF	eP	09 22 17
Dec. 31		
HUAN	eP	11 21 26
	e(S)	22 13
	eL	22 19
Dec. 31		
TUC	e(P)	11 57 47
	e	58 06

Date and Station		Phase (GCT) h m s
Dec. 31, cont.		
TUC	eP	12 23 37
	e	23 48
	e	24 17
	e	24 41
	e(S)	29 42
	eL	31 32
Dec. 31		
BER	ePP	15 36 35
	eL	16 05 12
BOZ	e(S)	15 29 10
	eL	44 28
BUT	eL	15 43 27
CHI	eL	15 51 23
COL	eP	15 19 14
	eS	29 06
	e	29 28
	eL	44 24
GC	iP	15 18 40
	eS	28 35
HONO	eS	15 20 16
	eL	23 22
HUAN	eP	15 19 55
	ePP	24 03
	eSKS	30 36
	eS	31 30
	eP'P'	45 05
	eL	51 09
HH	eP	15 18 51
	i	19 30
	eL	45 12
LOG	iP	15 18 42
	e(S)	28 42
	eL	43 18
PHIL	eL	15 57 15
PF	iP	15 18 20
	iPcP	18 41
	iPPP	20 38
	eS	28 03

Date and Station		Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
		h m s		h m s		h m s
Dec. 31, cont.						
RC	eP	15 19 31				
	e	22 26				
	eSKS	29 54				
	eS	31 24				
	eL	47 16				
SLC	e(P)	15 19 08				
	eS	28 38				
	eL	41 30				
SJ	eL	15 56 09				
SH	eP	15 18 02				
	e(PP)	20 45				
SIT	eL	15 42 00				
TUC	iP	15 18 22				
	i	18 24				
	i	18 28				
	i	18 53				
	ePP	21 37				
	e(PPP)	23 18				
	eS	28 05				
	e	30 32				
	e	31 12				
	eSS	33 48				
	eL	37 53				
Dec. 31						
PF	eP	22 33 24				
	e(S)	34 09				

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
BOZ		COL, cont.		HUAN, cont.		LOG		TUC, cont.	
Oct.		Oct. cont.		Oct. cont.		Oct.		Oct. cont.	
16	17.4	18	07.8	11	04.2	29	04.5	20	03.1
			08.6		13.2		07.8		12.5
BUT		19	03.5	12	00.3				16.8
Oct.			06.3	13	10.5	SJ		21	09.9
31	23.4		23.3		15.2	Oct.		22	02.9
		20	02.5(2)		15.7	7	18.4		21.9
COL			03.0		18.9	10	12.7		23.5
Oct.			04.1(2)	14	09.6	26	05.1	23	04.8
1	03.9		04.2		13.4	28	10.0		04.9
	06.5		16.4	15	05.9				05.7
2	08.2		21.3		06.9	SIT			06.4
4	18.1		22.5		12.0	Oct.			10.1
7	02.5	21	05.4	16	00.6	8	10.9	24	05.4
	03.6		06.5		06.6		13.9		20.9
	05.1	22	01.4		09.2			25	10.9
	13.0		01.6		19.8	TUC		27	00.6
8	10.8		06.1		21.0	Oct.			10.7
	13.9		07.4	17	19.8	1	19.1		18.7
	15.4		17.7		23.7	3	03.7	28	12.4
9	03.7	25	15.5	18	04.1		09.4	31	05.2
13	02.1	27	02.1		12.8		10.8		
	02.3		07.1		21.8	4	00.2	BUT	
15	05.0	29	15.7	19	16.7		08.7	Nov.	
	23.9	30	00.5		21.2	5	06.5	12	01.8
16	00.3		22.7		21.7		06.6		02.4
	03.4	31	05.6	20	09.4		17.6		02.9
	04.2		14.5		10.0		22.9	COL	
	04.3(2)				16.7	6	07.4	Nov.	
	05.2	HUAN		21	01.0	7	00.3	8	21.3
	06.3	Oct.		22	01.5		03.1	9	11.0
	06.6	1	18.9		20.9	8	15.7	11	04.1
	06.9		21.6		21.4		18.1	14	00.8
	09.2	2	06.4		23.4	9	08.6		
	10.2	3	15.4	23	08.3	10	21.7	HONO	
	11.5		22.2		11.4	13	01.2	Nov.	
	11.7(2)	4	09.6		15.6		16.5	14	01.5
	12.5		20.2	24	02.1	15	04.3		
	17.0	5	09.9	26	17.7	16	09.5	HUAN	
	19.0	6	16.8		19.5		11.5	Nov.	
	19.2	7	04.8		22.5	17	00.8	1	18.9
	22.2		09.2	27	15.0		04.2		21.7
17	00.7	8	17.3	28	08.8		10.8		21.9
	02.5	9	06.4		10.7		14.1		23.9
	03.4		06.4	29	02.6	18	01.2	2	00.1
	10.7	10	09.6	30	11.2		13.0		00.3
	18.7		17.8		15.3	19	15.4		00.5
	23.0	11	03.1	31	08.6	20	02.7		03.2

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		HUAN, cont.		HUAN, cont.		TUC, cont.		BOZ, cont.	
Nov. cont.		Nov. cont.		Nov. cont.		Nov. cont.		Dec. cont.	
2	03.3	9	16.1(2)	25	00.3	2	06.7	17	12.6
	05.4		23.6		02.5	3	08.4		
	06.3	10	00.8		19.2	4	18.5	BUT	
	06.4		16.8		22.6	5	02.3	Dec.	
	09.1		19.8	26	02.1		02.6	12	19.9
	11.8	11	03.7		03.5	6	07.8	17	12.6
	14.9		08.7		06.2		15.3		
	15.7		13.9		07.4	8	21.4	COL	
	17.9(2)		15.8		10.1	9	15.9	Dec.	
	19.5	12	02.4(2)		13.6	11	15.8	12	17.4
	20.2(2)		04.9		17.7	12	04.4	13	10.2
	22.2		07.5		22.3		05.6	28	15.4
3	02.0	13	09.1	27	05.0		07.9		
	10.2		23.1		10.4		17.3	HONO	
	11.5	14	03.4	28	05.8		19.9	Dec.	
	15.7		06.3		06.8	14	09.7	4	01.5
	17.3		15.3		12.5		20.6	20	15.3
	21.0		15.5		12.7	17	14.1	22	12.9
	22.5		17.5		21.0		22.6	30	02.5
4	02.8(2)		21.2(2)	29	06.2	18	02.4	31	01.0
	07.4	15	01.5		13.1		11.8		15.9
	08.4		05.7		14.3	19	10.0		
	08.5		11.9		14.7		10.7	HUAN	
	11.4	16	05.7	30	12.6		13.5	Dec.	
	15.7		09.4		15.9		18.4	1	16.9
	16.4		09.9		16.0	22	10.6		17.1
	17.3		14.1		18.9		19.3		17.9
	18.1	17	07.3		21.0	27	07.9		19.7
	18.7		12.1			28	10.0		20.8
	20.1		14.2	MONT			13.7		21.5
5	01.0		14.7	Nov.			20.7		22.6
	01.4		15.0	2	07.1		20.8	2	00.2
	08.5		17.0	4	08.4		21.2		00.3
	10.5	18	12.8		11.7		21.4		05.1
	15.1	19	07.5	13	23.7		21.7		06.9
	17.5		18.5				21.8(2)		12.1
	18.5	21	17.8	SJ			23.9		12.7
	19.3	22	04.9	Nov.		30	00.4		13.0
6	00.4		11.9	6	07.7		01.3		13.1
	09.3		17.3				03.5		15.9
	09.5(2)	23	13.9	SIT			04.7		16.6
7	02.5		16.7	Nov.			08.2		17. 5
	11.6	24	06.9	19	06.1		11.7		17.9
8	17.3		11.6				12.8		18.5
	20.3		11.9	TUC					19.0
	21.6		19.9	Nov.		BOZ			20.6
9	03.5		20.7	1	16.9	Dec.			21.1
	08.1		22.2	2	01.7	12	12.9		21.2

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.	
Dec. cont.		Dec. cont.		Dec. cont.		Dec. cont.		Dec. cont.	
2	22.8	5	18.7	9	01.3	11	23.7	16	09.1
	23.0		21.6		02.9	12	03.5		12.1
	23.1	6	00.9		04.1		07.1		14.6
	23.3		01.7		04.4		08.5		21.3
	23.7		01.8		05.7		09.2		21.9
3	00.5		03.0		06.1		09.5		21.9
	01.1		03.5		09.0		10.0		22.7
	09.0		06.5		09.5		10.3		23.8
	11.4		11.2		10.0		10.7	17	02.6
	11.8		14.7		10.9		11.7		05.5
	12.0		16.8		12.4		14.6		05.8
	14.3		18.4		14.2		18.1		06.8
	15.3		18.5		15.9		18.8		07.8
	16.0		20.4		17.2		19.3		10.1
	17.3		20.5		18.6		22.0		12.3
	18.0		23.9		17.4	13	01.9		12.5
	19.9	7	00.0		17.7		02.9		14.8
	21.0		01.5		18.9		06.6		19.2
4	02.3		01.8		19.1		08.2	18	00.3
	02.5		02.8		21.9		12.2		01.5
	04.9		03.2		22.3		15.9		10.4
	08.3		04.0		23.2		18.1		11.9
	15.9		04.3		23.8		18.8		15.9
	17.3		06.0	10	03.4		22.7		16.2
	18.1		09.3		03.8		23.7		16.7
	18.3		11.2		07.9	14	02.2		20.0
	18.9		11.5		07.9		05.8		20.1
	20.9		15.6		08.4		09.2		22.0
	21.2		15.7		15.9		10.1		22.3
5	00.1		16.7		16.4		10.7	19	00.7
	00.2		17.1		18.0		11.5		01.5
	00.3		17.5		18.6		12.3		03.2
	00.3		20.0	11	00.2		13.3		04.1
	01.3		21.1		02.2		14.1		05.9
	03.3	8	01.3		02.7		14.5		06.6
	04.0		05.5		06.3		22.7		07.5
	05.9		08.7		06.4	15	01.1		10.8
	06.0		12.8		08.5		02.6		13.0
	06.7		14.7		08.8		06.4		18.6
	07.5		18.2		09.8		08.7		19.6
	09.5		20.2		13.7		09.3	20	00.1
	09.9		21.0		14.2		11.4		02.5
	11.4		21.9		16.9		14.5		05.8
	16.0		23.1		16.8		22.4		11.1
	17.7		23.8		21.5	16	00.0		12.8
	18.1		23.9		23.3		05.1		14.6
	18.3	9	00.3		23.6		08.3		15.9

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		HUAN, cont.							
Dec. cont.		Dec. cont.							
21	01.1	27	08.8						
	10.5		14.7						
	12.2		20.9						
	12.2	28	00.8						
	15.9		12.8						
	17.2		17.3						
	19.9		17.4						
	21.6		23.5						
	22.7	29	03.8						
22	06.2		03.9						
	08.0		04.5						
	08.6		05.6						
	08.9		14.6						
	10.2		18.5						
	11.3		18.9						
	12.8		19.9						
	16.7	30	06.8						
	18.2		16.7						
	20.4		20.7(strong)						
	21.2		23.6(strong)						
23	00.8	31	00.0						
	03.8		14.7						
	05.9		23.9						
24	05.0								
	05.2	TUC							
	06.8	Dec.							
	17.1	7	04.7(2)						
	18.0		10.2						
	18.5		11.7						
	20.5	8	15.9						
25	01.4	9	07.6						
	07.0	10	02.7						
	07.1	14	01.9						
	11.9	15	04.4						
	13.4		06.2						
	17.9	16	11.1						
	18.9		12.0						
	21.2	17	21.1						
26	07.1	19	02.7						
	08.9	20	22.1						
	15.7	23	11.2						
	18.4	27	07.2						
27	04.7		07.3						
	06.6	30	12.2						
	07.9								
	08.1								