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U. S. COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

October, November, December, 1948

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

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

**Balboa Heights, C. Z. (BH)
The Panama Canal
*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)
*Columbia, S. C. (COLU)
University of South Carolina
*Grand Coulee, Wash. (GC)
Bureau of Reclamation
Honolulu, T. H. (HONO)
*Huancayo, Peru (HUAN)
Geophysical Institute of Huancayo
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
**New Kensington, Pa. (NK)
Private station
**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 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 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.

* * * *

SEISMOGRAM INTERPRETATION

Date and Station		Phase (GCT) h m s
Oct. 1		
PF	eP	01 42 47
TUC	eP	01 42 49
Oct. 1		
TUC	eP	03 28 52
Oct. 1		
GC	iP	09 45 30
	i	45 34
	iS	46 02
Oct. 1		
BC	epP	11 38 12
	ipP	38 34
	iPP	39 02
	eS	42 11
BOZ	eP	11 39 15
	epP	39 31
	ePP	40 19
	eS	44 07
	esS	45 03
	eL	46 39
BUT	eP	11 39 19
	epP	39 34
	ePP	40 25
	eL	49 26
CHI	eP	11 38 41
	iPP	39 17
	iS	43 09
	esS	43 45
	eL	44 33
COLU	epP	11 38 29
	eS	42 20
	eL	43 08
GC	iP	11 39 59
HUAN	eP	11 40 48
	eL	50 14
PHIL	e(P)	11 39 36
	ePP	40 13

Date and Station		Phase (GCT) h m s
Oct. 1, cont.		
PHIL, cont.		
	eS	11 44 17
	eL	45 37
PF	iP	11 38 08
	ipP	38 37
	e	40 43
	ePcP	41 56
	eL	44 30
SIT	eS	11 48 20
	eL	53 40
TUC	iP	11 37 19
	epP	37 37
	iPP	38 01
	iS	40 40
	esS	41 06
	eL	41 48
Oct. 1		
BC	eP	11 57 42
COLU	eL	12 05 20
PF	eP	11 57 37
	e(S)	59 23
TUC	iP	11 57 03
	iS	59 57
	eL	12 01 15
	i	01 54
Oct. 1		
BC	eP	22 58 29
	e(pP)	59 04
GC	eP	22 58 33
	e(pP)	59 04
PF	iP	22 58 32
	e(pP)	23 59 03
TUC	iP	22 58 35
	ipP	59 16

Date and Station		Phase (GCT) h m s
Oct. 2		
BC	iP	00 15 55
PF	iP	00 15 53
SLC	e	00 16 16
	e	21 51
	eL	24 06
TUC	iP	00 14 56
	i	15 14
	i	15 25
	eL	18 26
Oct. 2		
BC	eP	04 57 16
	e	58 01
GC	eP	04 57 01
PF	eP	04 57 17
TUC	iP	04 57 24
	e	58 18
	e	58 36
	e	05 00 18
Oct. 2		
BC	eP	06 47 05
PF	iP	06 47 08
TUC	iP	06 47 10
Oct. 2		
PF	eP	08 00 56
Oct. 2		
BC	iP	14 34 55
GC	eP	14 35 18
PF	iP	14 34 58
SLC	eL	15 07 45
TUC	iP	14 34 56
	ipP	35 11
	i	35 15

Date and Station		Phase (GCT) h m s
Oct. 2, cont.		
TUC	eP	14 46 21
	i	46 33
Oct. 2		
BC	eP	16 04 23
GC	e(P)	16 05 17
LIN	eL	16 12 04
PF	iP	16 04 20
	eL	10 07
TUC	eP	16 03 24
	i	03 38
	eS	07 40
	iS	07 46
	eL	08 58
Oct. 3		
BC	eP	02 47 20
	eL	47 55
PF	iP	02 47 21
	iL	48 17
Oct. 3		
PF	eP	02 53 00
Oct. 3		
BC	eP	04 47 16
LOG	e(P)	04 45 45
	i	46 01
	e	46 08
	eS	46 28
	eL	46 46
PF	eP	04 46 42
	eL	48 52
Oct. 3		
PF	e(P)	07 01 15
	e	04 59
Oct. 3		
BC	eP	14 49 52
PF	iP	14 50 15

Date and Station		Phase (GCT) h m s
Oct. 3, cont.		
TUC	eP	14 48 57
Oct. 3		
BC	eP	17 22 18
GC	iP	17 21 02
PF	eP	17 22 21
TUC	iP	17 22 55
	ipP	23 11
	i	23 16
Oct. 4		
COL	eL	06 37 50
GC	iP	06 09 51
PHIL	eL	06 50 39
Oct. 4		
BC	eP	10 26 50
PF	eP	10 26 45
Oct. 4		
BC	eP	14 23 12
	eL	24 21
PF	iP	14 23 21
	eL	24 38
Oct. 4		
TUC	eP	17 18 51
Oct. 4		
BH	eP	17 27 14
	eS	28 14
Oct. 4		
TUC	eP	17 47 22
Oct. 5		
GC	iP	00 58 08
TUC	e(P)	00 59 20
Oct. 5		
BC	e(P)	12 12 12

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
GC	iP	12 11 01
PF	eP	12 12 17
TUC	iP	12 13 17
Oct. 5		
TUC	eP	12 55 58
	e	57 20
Oct. 5		
BER	eP	20 25 20
	ePP	29 01
	e	35 20
	eSKS	35 44
	eS	36 18
	e(PS)	37 26
	eSS	42 22
	eL	48 58
T_S = 16 sec. A = 5.5mm.		
T_L = 18 sec. $A_{max.}$ = 5.6mm.		
BC	eP	20 26 22
	e	29 26
	ePP	30 34
	eL	21 00 00
BUR	eP	20 25 00
	e(PP)	28 38
	eS	35 17
	e(SS)	41 55
	eSSS	44 56
	eL	51 58
BUT	eP	20 25 39
	ePP	29 28
	eSKS	35 47
	iSKS	36 12
	iPS	38 11
	eSS	43 29
	eSSS	47 14
	eL	50 23
CHI	eP	20 25 32
	ePP	29 20
	ePPP	31 12
	iSKS	36 01
	iPPS	37 55

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
CHI, cont.		
	eSS	20 42 55
	iSS	43 14
	eSSS	46 33
	eL	51 33
COL	eP	20 23 50
	iPP	26 39
	ePPP	28 30
	iPPP	28 46
	i	30 25
	iS	33 32
	iScS	34 26
	iSS	38 10
	eSSS	41 28
	iL	41 58
COLU	e(P)	20 36 15
	e	37 27
	ePP	39 52
	eSS	44 17
	eL	57 56
GC	iP	20 25 28
	eSKS	36 01
HONO	ePP	20 31 29
	eSKS	37 16
	ePS	40 41
	eSS	46 45
	eSSS	51 04
	eL	56 03
T_L = 18 sec. $A_{max.}$ = 11 mm.		
HUAN	eP'	20 31 26
	ePP	33 36
	iPKS	34 50
	e	36 08
	eSKKS	40 22
	e	41 52
	eSKSP	44 02
	ePPS	46 05
	eSSS	55 56
	iL	21 05 30

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
LIN	eSKS	20 36 18
	eSS	43 42
	e(SSS)	48 28
	eL	54 22
LOG	eP	20 25 51
	iP	25 57
	ePP	29 51
	iPP	29 56
	eSKS	36 29
	iSKS	36 32
	ePS	38 40
	e(SS)	44 21
	eSSS	48 03
NK	eSKS	20 35 49
	eS	36 36
	e	41 17
	eL	51 57
PHIL	eP	20 25 18
	ePP	28 53
	eSKS	35 40
	ePS	37 24
	eSS	42 25
	eSSS	46 10
	e	48 48
	eL	53 08
PF	eP	20 26 23
	e	29 03
	ePP	30 30
	e	32 26
	e(PPP)	32 57
	eL	21 02 21
SLC	eP	20 26 04
	ePP	30 03
	e	34 00
	eSKS	36 32
	iSKS	36 37
	iPS	39 14
	eSS	44 24
	iPSPS	44 54
	eSSS	48 44
	eL	53 38

Date and Station		Phase (GCT) h m s
Oct. 5, cont.		
SJ	eP	20 26 11
	ePP	30 22
	eSKS	36 42
	eS	37 47
	iS	37 55
	ePS	39 29
	eSS	45 06
	iSS	45 09
	iSSS	49 36
	eL	53 00
SIT	iP	20 24 44
	iPP	27 56
	iS	34 56
	eSS	40 24
	eSSS	44 00
	iL	45 45
TUC	eP	20 26 44
	iP'	30 44
	ePP	31 06
	iPP	31 12
	ePPP	33 27
	e	36 54
	iSKS	37 20
	iPS	40 36
	iPPS	41 34
	iPKKP	41 42
	eSS	46 30
	eL	54 14
UK	ePP	20 31 19
	eS	37 46
	ePPS	40 23
	eSS	46 30
	eSSS	50 00
	eL	53 47
Oct. 5		
BC	e(P)	20 41 57
PF	e(P)	20 41 56
Oct. 6		
PF	eP	22 04 15

Date and Station		Phase (GCT) h m s
Oct. 6, cont.		
PF	eP	22 26 38
Oct. 6		
BC	eP	23 02 20
PF	iP	23 02 23
TUC	iP	23 02 25
Oct. 7		
BH	iP	16 55 51
	iS	56 21
Oct. 7		
BC	iP	18 54 23
	i(pP)	54 47
	e	55 56
GC	eP	18 54 46
PF	iP	18 54 27
	ipP	54 52
TUC	iP	18 54 27
	i	54 50
Oct. 8		
GC	eP	06 50 22
PF	eP	06 50 01
TUC	iP	06 50 02
Oct. 8		
BC	iP	09 16 49
GC	eP	09 15 31
PF	iP	09 16 53
	i	17 15
SIT	e(P)	09 17 36
TUC	iP	09 17 28
	ipP	17 41
	i	17 52
Oct. 8		
PF	eP	14 03 27

Date and Station		Phase (GCT) h m s
Oct. 8, cont.		
LOG	iP	18 03 20
Oct. 8		
BC	eP'	19 20 24
	e	20 43
GC	eP	19 15 25
PHIL	eL	20 04 11
PF	eP'	19 20 27
	e	20 48
TUC	iP'	19 20 35
Oct. 9		
BC	eP	05 21 05
PF	eP	05 20 46
TUC	eP	05 21 09
	e	21 57
Oct. 9		
PF	eP	06 24 32
Oct. 9		
BC	eP	07 44 18
	epP	44 30
GC	eP	07 42 33
PF	iP	07 44 20
	ipP	44 32
TUC	iP	07 45 01
	ipP	45 12
Oct. 9		
PF	e(P)	09 10 23
	e	10 31
Oct. 9		
BC	iP	17 38 46
PF	eP	17 38 49
TUC	iP	17 39 14

Date and Station		Phase (GCT) h m s
Oct. 9, cont.		
BC	eP	18 34 17
GC	e(P)	18 34 40
HUAN	eP	18 29 32
	ePP	30 45
	eS	35 00
	eSS	37 13
	eL	38 18
PF	eP	18 34 21
TUC	iP	18 33 53
Oct. 9		
PF	e(P)	22 32 29
Oct. 9		
PF	eP	22 52 43
	e	53 14
Oct. 10		
PF	e(P)	02 25 12
TUC	eP	02 25 20
Oct. 10		
TUC	eP	03 00 31
	e	01 32
Oct. 10		
PF	e(P)	04 46 55
Oct. 10		
HUAN	eP	08 47 22
	eS	49 20
	iL	50 05
Oct. 10		
TUC	eP	10 42 24
Oct. 10		
BC	eP	13 28 33
TUC	eP	13 27 49
Oct. 10		
GC	eP	17 56 10

Date and Station		Phase (GCT) h m s
Oct. 10, cont.		
PF	eP	17 56 46
	e	18 00 29
Oct. 10		
PF	eP	20 12 24
Oct. 10		
TUC	eP	20 26 58
Oct. 11		
BC	eP	02 48 48
PF	eP	02 48 49
TUC	iP	02 48 55
Oct. 11		
PF	eP	03 28 06
Oct. 11		
BC	eP	04 19 04
TUC	eP	04 19 10
	epP	19 31
Oct. 11		
PF	eP	08 14 05
Oct. 11		
TUC	iP	13 50 14
	ipP	51 30
Oct. 11		
BC	eP	14 20 35
PF	eP	14 20 29
	i	20 40
	i	20 53
Oct. 12		
BC	eP	02 47 54
PF	eP	02 47 56
TUC	iP	02 48 02
Oct. 12		
BC	eP	02 53 10

Date and Station		Phase (GCT) h m s
Oct. 12, cont.		
PHIL	eL	03 40 42
PF	eP	03 53 13
TUC	iP	02 53 17
Oct. 12		
BC	e(P)	03 33 24
PF	e(P)	03 33 21
	e	33 35
Oct. 12		
PF	eP	11 05 44
Oct. 12		
BC	iP	13 50 07
	epP	51 29
GC	iP	13 50 26
PF	iP	13 50 11
	e(pP)	51 43
Oct. 13		
GC	iP	08 08 25
	iS	08 41
Oct. 13		
PF	eP	12 07 05
	eL	08 33
Oct. 13		
BC	eP	12 58 37
	e	58 50
PF	eP	12 58 41
TUC	eP	12 59 14
	i	59 27
Oct. 13		
TUC	eP	13 04 53
	e	05 13
Oct. 13		
TUC	eP	23 33 44

Date and Station		Phase (GCT) h m s
Oct. 14		
TUC	eP	00 22 38
	e	27 09
Oct. 14		
BC	iP	06 47 20
PF	iP	06 47 23
TUC	iP	06 47 23
Oct. 14		
BH	iP	08 59 34
	iS	59 56
Oct. 14		
BH	iP	09 07 23
Oct. 14		
BC	eP	10 59 10
PF	iP	10 59 13
TUC	iP	10 59 43
Oct. 14		
BC	iP	11 57 53
GC	eP	11 57 50
TUC	eP	11 58 05
Oct. 14		
BC	iP	21 54 06
	epP	56 21
	ePP	57 03
GC	iP	21 54 24
	ipP	56 44
	eS	22 04 25
PF	iP	21 54 10
	ipP	56 24
	iPP	57 40
TUC	iP	21 54 11
	i	54 22
	ipP	56 25
	e	57 45
	i	57 55

Date and Station		Phase (GCT) h m s
Oct. 15		
BC	eP	11 02 40
GC	e(P)	11 01 54
PF	eP	11 02 42
TUC	eP	11 03 17
Oct. 15		
PF	e(P)	14 27 11
Oct. 15		
GC	e(P)	19 09 08
Oct. 15		
BER	ePP	23 01 38
	eSKS	08 14
	ePS	10 22
	iSS	15 55
	eL	29 28
CHI	ePPS	23 12.56
	eSS	19 07
	eL	34 41
GC	eP'	23 03 04
	ePP	05 32
HUAN	eP	22 54 18
	e(PPP)	58 44
	eS	23 02 51
	e(SS)	06 32
	iL	10 32
PHIL	eP	23 02 15
	eSKS	08 15
	eL	24 42
PF	eP'	23 02 43
	ePP	04 19
SJ	e	22 57 04
	ePP	59 55
	e	23 00 32
	iSKS	07 02
	iSS	12 59
	eSSS	16 07
	eL	18 35

Date and Station		Phase (GCT) h m s
Oct. 15, cont.		
SIT	eP'	23 03 48
	eSKS	09 54
	eSS	26 06
	eL	43 15
TUC	eP'	23 02 34
	ePP	03 45
	e	04 45
	ePKKP	12 56
	ePS	13 41
	eL	27 40
Oct. 16		
COL	eL	00 02 10
Oct. 16		
BC	eP	02 08 58
PF	eP	02 09 01
TUC	eP	02 09 05
	e	11 40
	eL	38 06
Oct. 16		
BC	iP	04 43 44
PF	iP	04 43 46
TUC	iP	04 43 50
Oct. 16		
BC	iP	04 53 59
	iPcP	56 14
COL	e	04 54 19
GC	e(P)	04 52 45
PF	iP	04 54 01
TUC	iP	04 54 38
	e	55 07
	iPcP	56 29
	e	56 38
Oct. 16		
PF	eP	14 40 28

Date and Station		Phase (GCT) h m s
Oct. 17		
BC	eP	02 34 46
HUAN	e(P)	02 32 07
PF	eP	02 34 48
TUC	eP	02 34 35
	e	35 07
Oct. 19		
COL	iP	01 35 17
	i	35 39
Oct. 19		
COL	eP	01 46 58
Oct. 19		
PF	eP	03 56 55
Oct. 19		
PF	eP	22 32 41
TUC	eP	22 33 11
Oct. 19		
BC	eP	22 36 18
PF	eP	22 36 21
TUC	eP	22 36 52
Oct. 20		
TUC	eP	02 54 54
Oct. 20		
BC	eP	03 24 27
GC	eP	03 23 07
PF	eP	03 24 29
TUC	eP	03 25 05
Oct. 20		
PF	eP	08 21 12
TUC	eP	08 21 13

Date and Station		Phase (GCT) h m s
Oct. 20, cont.		
BC	eP	11 08 16
GC	e(P)	11 18 33
PF	eP	11 08 18
TUC	eP	11 08 19
Oct. 20		
BC	e(P)	11 19 53
PF	iP	11 19 55
TUC	iP	11 20 26
Oct. 20		
COL	eP	16 22 37
PF	iP	16 22 07
Oct. 20		
PF	eP	21 32 57
Oct. 20		
GC	iP	23 57 56
	iS	58 12
Oct. 21		
BC	eP	02 01 27
GC	eP	02 01 18
PF	iP	02 01 30
Oct. 21		
TUC	eP	02 05 33
	eL	27 46
Oct. 21		
TUC	iP	02 35 30
Oct. 21		
BC	eP	02 38 33
PHIL	e	02 55 15
	eL	03 00 28
PF	eP	02 38 30

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
TUC	iP	02 38 04
Oct. 21		
BC	eP	02 41 13
PF	iP	02 41 15
Oct. 21		
PF	eP	04 19 10
Oct. 21		
BC	eP	04 36 25
PF	eP	04 36 26
TUC	iP	04 36 25
Oct. 21		
BH	eP	04 52 36
	eS	54 23
BC	iP	04 56 55
BUR	ePP	04 58 18
	e(S)	05 03 17
	eL	03 48
CHI	e	04 56 56
	eS	05 00 57
	eL	01 54
COLU	eP	04 55 11
	eS	59 16
	e	05 01 29
	eL	02 27
GC	eP	04 58 18
HUAN	eP	04 56 09
	e	56 27
	ePP	57 15
	e	57 38
	eS	05 00 49
	eL	02 57
LIN	eS	05 00 57
	eL	02 14

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
PHIL	eP	04 56 18
	e	56 28
	eS	05 01 13
	eL	01 54
PF	iP	04 56 51
	i	57 10
	e(S)	05 02 45
RC	eP	04 57 04
	ePP	58 27
	eL	05 05 22
SLC	ePP	04 58 14
	eL	04 52
SJ	eP	04 55 08
	ePP	55 45
	e	57 04
	eS	59 22
	eL	05 00 23
	iL	00 46
TUC	iP	04 56 10
	i	56 24
	i	57 14
	iPcP	59 21
	eS	05 01 12
	eL	01 22
	iScP	02 55
UK	eL	05 27 08
Oct. 21		
BC	eP	05 14 58
BOZ	eP	05 15 15
	e(SKS)	25 40
	eSKS	26 22
	ePS	28 06
	eSSS	37 01
	eL	42 08
BUR	e(SKKS)	05 28 47
	ePS	32 33
	e	40 49
	eL	58 54

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
COL	e	05 14 07
	e(S)	24 14
	eSS	33 06
	eL	38 59
GC	eP	05 15 49
HONO	eS	05 19 02
	eL	24 08
LIN	ePS	05 29 37
	eL	50 43
PHIL	ePS	05 32 16
	e	34 49
	eSS	39 57
	eL	51 36
PF	eP	05 15 01
RC	ePS	05 29 14
	eL	48 48
SLC	ePS	05 27 41
	eL	41 38
SJ	eP	05 21 07
	ePP	24 43
	e(SKS)	28 05
	eL	55 58
SIT	eP	05 14 14
	e	17 11
	ePP	17 50
	eS	24 50
	iS	25 00
	e	28 19
	eSS	30 48
	eSSS	34 12
	eL	36 15
TUC	eP	05 15 11
	eSKS	25 50
	eL	40 38
Oct. 21		
PF	eP	07 08 43

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
TUC	iP	07 08 44
	e	09 06
Oct. 21		
PF	e(P)	11 41 06
TUC	eP	11 40 49
Oct. 21		
PF	iP	12 34 21
TUC	iP	12 34 52
Oct. 21		
PF	e(P)	13 36 39
Oct. 21		
TUC	eP	14 38 05
	ePP	42 05
Oct. 21		
GC	e(P)	14 51 20
PF	iP	14 52 42
TUC	e(P)	14 53 13
	e	53 21
Oct. 21		
HUAN	eL	14 54 07
Oct. 21		
GC	eP	15 23 40
PF	iP	15 25 03
TUC	eP	15 25 33
Oct. 21		
BC	eP	18 01 31
GC	eP	18 03 45
PF	eP	18 01 30
SLC	eL	18 14 20
TUC	iP	18 01 20
	eS	06 08
	eL	09 44

Date and Station		Phase (GCT) h m s
Oct. 21, cont.		
PF	eP	21 08 51
Oct. 21		
GC	e(P)	21 15 35
Oct. 21		
BC	e(P)	22 00 15
PF	eP	22 00 18
TUC	eP	22 00 48
	e	00 57
Oct. 22		
PF	eP	02 19 20
Oct. 22		
BC	eP	02 34 57
PF	eP	02 34 59
Oct. 22		
PF	eP	04 05 29
TUC	e(P)	04 05 30
Oct. 22		
PF	eP	14 13 04
Oct. 22		
BC	iP	14 17 29
GC	iP	14 16 08
PF	iP	14 17 30
TUC	iP	14 18 01
Oct. 22		
PF	eP	14 34 13
Oct. 22		
BC	eP	21 03 00
PF	eP	21 03 01
Oct. 22		
PF	iP	22 43 52

Date and Station		Phase (GCT) h m s
Oct. 23		
PF	eP	03 51 28
Oct. 23		
BC	iP	04 34 28
GC	iP	04 33 11
PF	iP	04 34 30
TUC	iP	04 35 03
Oct. 23		
GC	iP	05 00 00
PF	eP	05 00 46
	e	05 38
TUC	e(P)	05 05 18
Oct. 23		
PF	e(P)	11 31 38
Oct. 23		
TUC	iP	11 49 02
	e	49 27
Oct. 23		
PF	eP	13 26 13
Oct. 23		
BC	iP	15 55 42
	e	57 40
GC	eP	15 54 22
PF	iP	15 55 45
	e	58 00
TUC	iP	15 56 16
	i	56 25
Oct. 23		
PF	e(P)	18 12 47
Oct. 23		
GC	eP	21 12 54
Oct. 23		
PF	iP	23 51 54

Date and Station		Phase (GCT) h m s
Oct. 24		
PF	eP	03 21 21
Oct. 24		
BC	eP	17 09 26
PF	eP	17 09 29
TUC	eP	17 09 33
	i	09 38
Oct. 24		
BC	eP	17 28 03
PF	eP	17 28 06
TUC	iP	17 28 10
Oct. 25		
GC	eP	04 31 00
PF	e(P)	04 36 07
TUC	e(P)	04 36 31
Oct. 25		
PF	eP	06 26 57
Oct. 25		
BC	eP	08 53 58
PF	eP	08 53 59
TUC	eP	08 54 08
Oct. 25		
PF	iP	09 24 34
Oct. 25		
BC	eP	10 12 08
PF	iP	10 12 05
TUC	iP	10 11 37
Oct. 25		
PF	eP	12 15 38
TUC	eP	12 16 09

Date and Station		Phase (GCT) h m s
Oct. 25, cont.		
PF	iP	12 36 16
TUC	iP	12 36 47
Oct. 25		
BC	eP	12 39 45
GC	iP	12 38 19
PF	iP	12 39 48
TUC	iP	12 40 19
	i	40 29
	e	41 08
Oct. 25		
PF	eP	22 54 54
Oct. 26		
BC	eP	08 24 08
GC	eP	08 24 32
PF	iP	08 24 17
TUC	iP	08 24 17
Oct. 26		
BC	eP	09 53 47
PF	eP	09 53 52
TUC	iP	09 54 24
Oct. 26		
PF	eP	14 07 30
TUC	eP	14 06 51
Oct. 26		
TUC	iP	14 47 43
	e	48 24
Oct. 26		
TUC	eP	15 45 30
	e	45 37

Date and Station		Phase (GCT) h m s
Oct. 26, cont.		
BC	eP	20 05 14
GC	eP	20 04 13
PF	eP	20 05 14
TUC	iP	20 05 35
	i	05 49
	e	09 17
Oct. 27		
BER	eL	18 44 58
BC	eP	18 46 22
GC	iP	18 46 59
HUAN	eP	18 43 46
	e(S)	50 59
	eL	53 56
PHIL	eP	18 42 56
	eS	47 19
	e	47 55
	eL	48 29
PF	iP	18 46 17
SJ	iP	18 38 36
	iS	39 26
	iL	39 41
TUC	iP	18 45 53
	i	46 10
	i	46 21
	i	46 41
Oct. 27		
BC	eP	19 14 43
Oct. 27		
TUC	eP	19 39 54
	e	41 00
Oct. 27		
BH	e	23 10 22
	eS	11 28

Date and Station		Phase (GCT) h m s
Oct. 27, cont.		
BC	e(P)	23 16 55
PF	eP	23 16 52
TUC	eP	23 16 15
	e	16 26
Oct. 28		
GC	eP	00 43 47
TUC	e(P)	00 44 31
Oct. 28		
BH	eP	03 57 07
	eS	57 33
Oct. 28		
BC	eP	14 21 18
BOZ	eL	14 24 35
BUT	eL	14 34 43
GC	iP	14 20 00
HONO	eL	14 33 09
PHIL	eL	14 38 59
PF	eP	14 21 18
SLC	eL	14 34 10
TUC	iP	14 22 26
	e	23 10
	e	23 13
UK	eL	14 21 51
Oct. 28		
BC	eP	14 33 12
PF	eP	14 33 16
SLC	eL	14 46 49
TUC	iP	14 34 17
	i	34 25

Date and Station		Phase (GCT) h m s
Oct. 28, cont.		
UK	eL	14 34 23
Oct. 28		
BC	eP	20 57 39
	i	57 45
	ePP	21 00 33
GC	eP	20 56 37
HUAN	eL	21 51 00
LOG	iP	20 57 35
	ipP	57 55
	ePP	21 00 27
	iS	07 11
	isS	07 32
	esS	07 37
	eSS	12 12
	eL	27 01
PHIL	eL	21 34 30
PF	eP	20 57 35
	iPcP	57 47
	ePP	21 00 40
	eS	06 57
SLC	eP	20 58 49
	e	21 01 55
	eS	07 19
	esS	07 45
	eL	20 06
SJ	eL	22 03 09
TUC	iP	20 57 58
	i	58 10
	i	59 19
	e	21 01 26
	eS	08 16
	eL	24 36
Oct. 29		
PF	eP	02 59 37
Oct. 29		
BC	eP	03 18 25
	epP	18 53

Date and Station		Phase (GCT) h m s
Oct. 29, cont.		
GC	eP	03 19 25
HUAN	eP	03 09 42
	eL	11 40
PF	eP	03 18 23
	ipP	18 50
TUC	eP	03 17 55
	ipP	18 21
	i	18 43
Oct. 29		
GC	iP	08 17 28
Oct. 29		
BC	iP	10 12 51
PF	iP	10 12 54
TUC	iP	10 12 56
	i	13 27
	e	13 37
Oct. 29		
BC	iP	11 13 31
CHI	ePP	11 16 19
	eS	20 28
	eL	23 36
GC	eP	11 15 40
HUAN	e(S)	11 18 20
	eL	22 20
LOG	eP	11 14 37
	eS	20 21
	eL	25 32
PF	iP	11 13 29
SJ	eL	11 57 18
TUC	iP	11 13 19
	iPP	14 14
	iPcP	16 32

Date and Station		Phase (GCT) h m s
Oct. 29, cont.		
TUC, cont.		
	e(S)	11 18 22
	eL	20 35
Oct. 29		
BC	eP	14 52 48
GC	eP	14 52 38
HUAN	eS	14 58 50
	eL	15 00 21
	e	03 13
TUC	iP	14 51 53
	i	51 57
Oct. 30		
BC	eP	05 01 37
GC	iP	05 00 53
	e	02 03
PF	iP	05 01 39
TUC	iP	05 02 00
Nov. 1		
BC	eP	10 00 22
	eL	03 40
CHI	eL	10 10 37
LIN	eL	10 07 32
PF	iP	10 00 19
	eL	03 07
RC	eL	10 04 46
SLC	eL	10 06 03
TUC	eP	09 56 16
	i	59 44
	iS	10 00 50
	iL	01 07
Nov. 1		
BC	eP	11 47 20
	eL	49 48

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
BUR	eL	12 03 42
BUT	eL	11 57 11
CHI	eL	11 57 31
LIN	eL	11 54 33
PHIL	eL	12 01 30
PF	eP	11 47 15
	e(S)	48 47
RC	eL	11 54 53
SLC	eL	11 52 31
TUC	iP	11 46 12
	i	46 38
	eS	47 40
	iS	47 57
	iL	48 10
Nov. 1		
BER	eSSS	12 40 25
	eL	48 42
BC	eP	12 15 40
	e	16 55
	eP'P'	45 20
BOZ	eP	12 15 10
	eS	22 20
	e(ScS)	25 48
	eL	29 08
BUR	e(S)	12 27 04
	eL	38 15
CHI	eP	12 16 37
	eS	25 18
	eL	39 42
COL	eP	12 11 20
	eS	15 53
	e	17 10
	eL	18 44

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
HUAN	ePS	12 35 23
	eSS	41 52
	eL	58 20
LIN	eP	12 16 22
	eS	24 42
	eScS	26 04
	eL	36 20
PHIL	eP	12 17 19
	eS	26 36
	eScS	27 21
	eSSS	34 12
	eL	40 08
PF	iP	12 15 42
	e	20 35
	e(S)	22 52
	e(P'P')	45 00
RC	eP	12 15 47
	eS	23 29
	iScS	25 25
	eL	35 31
SLC	eP	12 15 31
	eScS	25 13
	eL	30 37
SJ	eL	13 00 20
SIT	eL	12 22 56
TUC	iP	12 16 14
	i	16 25
	i	16 49
	eL	37 34
	eP'P'	45 13
	i	45 30
Nov. 1		
HUAN	eP	13 57 30
	eS	59 02
	eL	59 35
Nov. 1		
HUAN	e	22 55 15
	eL	23 11 06

Date and Station		Phase (GCT) h m s
Nov. 1, cont.		
TUC	eL	23 39 05
Nov. 1		
BC	iP	23 59 51
	e(S)	00 05 49
PF	iP	23 59 55
SH	iP	23 58 49
	ipP	59 05
	i	59 11
	iS	00 03 50.5
TUC	iP	00 00 29
	ipP	00 43
	iPcP	01 51
	iPP	02 06
Nov. 2		
BC	eP	01 38 50
PF	eP	01 38 54
SH	eP	01 37 46
TUC	iP	01 39 30
Nov. 2		
HUAN	eL	10 03 10
Nov. 2		
BC	eP	10 45 43
PF	iP	10 45 46
SH	iP	10 44 48
TUC	iP	10 46 17
Nov. 2		
PF	e(P)	12 25 44
Nov. 2		
BC	e(P)	14 52 49
SJ	eP	14 45 21
	e(S)	46 40
	eL	47 00

Date and Station		Phase (GCT) h m s
Nov. 2, cont.		
SH	eP	14 54 34
	e	54 52
TUC	eP	14 52 19
	ipP	52 36
Nov. 2		
BC	iP	16 43 21
PF	iP	16 43 20
TUC	iP	16 49 23
	i	49 39
	iS	50 44
	iL	50 52
Nov. 2		
BC	eP	21 29 47
Nov. 2		
HUAN	iP	22 11 41
	eS	12 28
	eL	12 33
Nov. 2		
PF	eP	22 29 37
	ipP	30 04
SH	eP	22 28 31
	epP	29 05
TUC	eP	22 30 17
	epP	30 52
Nov. 3		
BC	eP	02 33 38
	eL	35 48
PF	iP	02 33 40
	eL	35 28
SH	i(P)	02 33 26.5
TUC	eP	02 33 00
	i	33 15
	iS	34 02
	iL	34 09

Date and Station		Phase (GCT) h m s
Nov. 3, cont.		
DER	ePKS	05 41 31
	e(SKS)	46 14
	ePPS	52 22
	eSS	58 15
	eL	06 13 12
BC	iP	05 32 02
	e	32 16
	ePP	35 24
BOZ	eL	05 59 32
BUR	eSS	05 56 32
	eL	06 10 02
BUT	eL	06 00 11
CHI	ePS	05 48 03
	eSS	54 25
	eL	06 06 05
COL	eL	05 56 09
COLU	eL	06 11 20
HONO	e(P)	05 28 28
	e	28 45
	eS	35 36
	eL	40 21
HUAN	ePP	05 37 47
	eSKS	44 14
	e(S)	46 02
	ePS	47 20
	e(PPS)	49 08
	eSS	53 20
	eSSS	57 57
	eL	06 04 05
LIN	eS	05 46 18
	eSS	52 39
	eSSS	56 17
	eL	06 08 28
PF	iP	05 32 00
	e	32 17
	eS	43 14
	eP'P'	57 43

Date and Station		Phase (GCT) h m s
Nov. 3, cont.		
SLC	ePS	05 44 57
	eL	58 41
SJ	ePP	05 40 16
	ePKS	41 24
	e	43 20
	eSKS	45 30
	e(S)	48 41
	ePS	50 42
	eSS	57 18
	eSSS	06 02 04
	eL	12 39
SH	eP	05 31 41
	i	31 51.5
	e	32 59
TUC	iP	05 32 04
	i	32 10
	i	35 30
	ePP	35 51
	eS	43 21
	e(PS)	44 20
	ePPS	45 04
	eSS	49 24
	eSSS	53 00
	ePKKP	50 04
	eL	57 12
UK	eL	05 55 43
Nov. 3		
BC	e(P)	07 08 31
PF	e(P)	07 08 33
TUC	eP	07 08 37
Nov. 3		
PF	eP	07 31 15
TUC	e(P)	07 31 19
Nov. 3		
TUC	iP	08 27 00
Nov. 3		
PF	e(P)	12 55 12

Date and Station		Phase (GCT) h m s
Nov. 3, cont.		
PF	eP	16 25 15
TUC	eP	16 25 24
	e	25 39
Nov. 4		
TUC	iP	04 45 27
Nov. 4		
BC	e(P)	04 51 41
	e	51 47
PF	eP	04 51 47
SH	eP	04 50 02
TUC	e(P)	04 52 32
Nov. 4		
BC	iP	13 28 01
COL	eP	13 23 41
	eL	34 04
PF	iP	13 28 04
SH	iP	13 27 06
	i	27 13.5
	e	27 39
TUC	iP	13 28 35
	i	28 39
	i	29 06
	i	29 13
Nov. 4		
BC	iP	17 20 58
HUAN	iP	17 11 07
	e(S)	11 17
	iL	11 32
PF	e(P)	17 20 49
SH	eP	17 21 40
	e	21 56
TUC	iP	17 20 18
	i	20 26

Date and Station		Phase (GCT) h m s
Nov. 5		
PF	e(P)	07 09 47
Nov. 5		
BC	eP	08 45 35
PF	eP	08 45 36
SH	eP	08 45 16
TUC	iP	08 45 40
	i	45 47
Nov. 5		
BC	eP	17 20 39
PF	iP	17 20 42
TUC	iP	17 20 43
	i	20 52
	i	21 05
Nov. 5		
BC	eP	19 23 24
PF	iP	19 23 28
TUC	iP	19 22 59
Nov. 5		
BC	eP	20 26 33
PF	e(P)	20 26 30
Nov. 6		
BC	eP	14 26 30
HUAN	e(PS)	14 38 20
	eL	15 03 12
PF	iP	14 22 33
TUC	eP	14 22 07
	i	22 16
	eL	52 34
Nov. 6		
PF	eP	17 27 59
	eS	28 38
	eL	8 55

Date and Station		Phase (GCT) h m s
Nov. 6, cont.		
PF	eP	18 07 34
	eS	08 09
	iL	08 28
Nov. 6		
BC	e(P)	20 48 31
PF	iP	20 48 25
	eS	49 02
	eL	49 23
Nov. 6		
BC	epP	23 58 52
	ePP	00 00 52
HUAN	iP	23 50 58
	eS	51 59
	eL	52 20
PF	iP	23 58 51
	epP	00 00 50
	ePP	01 49
SJ	e	23 58 00
	eS	00 01 05
TUC	iP	23 57 51
	ipP	59 49
	ePP	00 01 20
Nov. 7		
PF	e(P)	01 45 19
TUC	eP	01 44 59
Nov. 7		
PF	e(P)	02 09 17
Nov. 7		
PF	e(P)	03 08 41
Nov. 7		
PF	e(P)	04 26 20
Nov. 8		
BH	eP	01 20 36
	eS	21 02

Date and Station		Phase (GCT) h m s
Nov. 8, cont.		
BC	eP	02 55 01
PF	e(P)	02 55 05
TUC	e(P)	02 54 40
Nov. 8		
BC	iP	04 46 59
PF	iP	04 46 52
	i	47 53
SH	eP	04 45 33
TUC	iP	04 47 03
	i	47 13
	i(pP)	47 33
Nov. 8		
BH	eP	14 44 56
	eS	45 53
Nov. 8		
PF	e(P)	16 52 23
Nov. 8		
BC	iP	18 03 29
	ePP	05 28
PF	iP	18 03 32
	iPP	05 52
	iPPP	06 54
SH	eP	18 02 46
TUC	iP	18 03 05
	i	03 23
	i	03 52
	i	04 18
	eS	12 39
Nov. 9		
TUC	eP	04 55 10
	i	55 50
	e(S)	56 36
	eS	56 50
	eL	56 56

Date and Station		Phase (GCT) h m s
Nov. 9, cont.		
PF	iP	06 40 09
Nov. 9		
PF	eP	12 37 33
	e(S)	38 08
	eL	38 47
TUC	e(P)	12 38 18
	e	40 37
Nov. 9		
HUAN	eP	19 32 42
Nov. 9		
HUAN	eP	20 05 18
Nov. 9		
BER	eL	21 01 28
BC	iP	20 40 23
	i	40 56
	i	41 20
	iS	41 58
BOZ	eL	20 47 08
BUT	eL	20 47 39
COIU	eL	20 53 35
LOG	eP	20 41 17
	eS	43 26
	eL	44 32
PF	iP	20 40 26
RC	eP	20 42 17
	e(S)	46 26
	eL	47 09
SIC	e	20 42 39
	eL	43 57
SH	eP	20 41 24
	e	41 39
	eL	44 57

Date and Station		Phase (GCT) h m s
Nov. 9, cont.		
TUC	iP	20 39 22
	i	39 34
	i	39 44
	i(S)	39 55
	iS	40 12
	iL	40 20
UK	eL	20 46 05
Nov. 9		
BC	iP	20 50 07
	i	50 46
	i(S)	51 57
PF	iP	20 50 09
	eS	51 49
TUC	iP	20 49 08
	i	49 19
	i(S)	49 36
	i	49 53
	eS	50 01
	iL	50 14
Nov. 10		
HUAN	e(P')	03 43 02
	e	43 43
	ePP	47 18
	eSKS	49 45
	eSS	04 07 22
	eSSS	14 13
	eL	44 10
SJ	e(P')	03 44 22
	ePP	46 42
	ePKS	47 56
	e(SKS)	51 12
	e	04 01 18
	eSSS	11 25
TUC	e(P')	03 42 14
Nov. 10		
PF	eP	06 56 53
	eS	58 02
	iL	58 33

Date and Station		Phase (GCT) h m s
Nov. 10, cont.		
BC	iP	13 11 13
PF	iP	13 11 16
TUC	iP	13 11 08
	i	11 16
	e	11 36
Nov. 10		
BH	iP	20 55 01
	iS	55 25
Nov. 10		
BC	eP	23 57 18
	iP	57 22
	iS	57 47
Nov. 11		
BC	iP	07 16 12
HUAN	eP	07 09 43
	epP	10 05
	e(S)	12 52
	e	14 03
	eL	14 44
TUC	iP	07 16 17
	ipP	16 42
	isP	16 54
	ePP	18 18
Nov. 11		
BC	eP'	07 51 13
	iP'	51 30
HUAN	e(P)	07 43 03
RC	e(P')	07 51 43
SH	e(P')	07 52 13
	e	52 43
TUC	iP'	07 51 34
	i	51 46
	i	52 17
	i	55 39
	i	58 23

Date and Station		Phase (GCT) h m s
Nov. 11, cont.		
BC	iP	12 51 38
PF	eP	12 51 34
TUC	iP	12 50 23
	ipP	50 41
Nov. 11		
PF	e(P)	20 34 48
TUC	e(P)	20 34 17
Nov. 12		
BH	e	02 06 18
Nov. 12		
BH	iP	04 47 21
	e	48 01
PF	eP	04 54 44
TUC	iP	04 53 36
Nov. 12		
BER	eL	18 37 36
BC	e(P)	17 46 08
HUAN	eSKS	17 57 38
	e	18 00 40
	eSS	04 42
	eL	18 48
LOG	eP	17 46 16
PF	eP	17 45 55
	i	46 16
TUC	iP	17 45 57
	i	46 17
	ePP	49 08
	eS	56 04
	eSS	18 01 37
	eL	11 32
UK	eL	18 08 33
Nov. 12		
BC	e(P)	22 13 45

Date and Station		Phase (GCT) h m s
Nov. 12, cont.		
TUC	iP	22 14 05
Nov. 13		
PF	e(P)	02 46 01
Nov. 13		
BH	iP	04 04 52
	iS	05 00
Nov. 13		
PF	e(P)	04 58 22
	i	58 28
Nov. 13		
BER	eSS	07 36 31
	eL	08 00 12
BC	eP	07 12(54)
BOZ	eS	07 23 46
	eL	40 10
CHI	eS	07 25 57
	eL	46 39
COL	eS	07 23 54
	eL	37 45
HONO	eL	07 21 14
HUAN	eSKS	07 24 25
	ePS	26 20
	ePPS	26 53
	eSS	31 07
	eL	43 45
LOG	eP	07 13 01
	e	13 21
	e(PP)	15 40
	eS	23 15
	e	27 43
	eL	38 51
PHIL	eL	07 52 31
PF	eP	07 12(42)
	eP'P'	39 34

Date and Station		Phase (GCT) h m s
Nov. 13, cont.		
RC	eP	07 13 35
	eS	24 35
	eL	44 32
SLC	eP	07 12 59
	eS	23 21
	e	26 56
	eSS	29 00
	eL	38 14
SJ	e(PP)	07 21 21
	eSKKS	27 35
	ePS	29 19
	eSS	35 13
	eL	55 58
SIT	eL	07 35 53
TUC	iP	07 12 39
	i	13 35
	ePP	15 58
	eS	22 46
	eL	36 08
UK	eL	07 35 06
Nov. 13		
BC	e	13 00 17
	eL	01 24
PF	eP	12 59 43
	eS	13 00 44
	eL	01 17
SH	eP	12 58 57
	eS	59 28
	iS	59 29
Nov. 13		
TUC	e(P)	16 46 09
Nov. 13		
PF	eP	18 57 11
TUC	iP	18 56 30
	eL	19 05 50
Nov. 13		
BER	eL	23 47 38

Date and Station		Phase (GCT) h m s
Nov. 13, cont.		
BC	eP	23 01 02
BOZ	e	23 11 54
	eL	28 20
CHI	eL	23 34 48
COL	eS	23 12 01
	eL	28 03
HUAN	e(S)	23 12 34
	e	14 25
	e	15 11
	e	19 27
	eL	32 18
PHIL	e	23 40 14
	e	43 27
	eL	45 13
PF	iP	23 00 43
	i	00 59
RC	eL	23 32 48
SLC	e(P)	23 01 38
	e(S)	11 26
	e	15 10
	eL	24 38
SJ	e	23 17 45
	e	22 15
	e	28 02
	eL	44 28
SH	e(P)	23 00 33
TUC	iP	23 00 45
	i	01 02
	e	03 35
	eS	10 51
	e	12 03
	eL	23 26
UK	eL	23 23 17
Nov. 14		
BC	eP	02 51(34)

Date and Station		Phase (GCT) h m s
Nov. 14, cont.		
PF	eP	02 51(07)
TUC	eP	02 51 09
	i	51 20
Nov. 14		
BC	e(P)	04 26 28
PF	e(P)	04 26 31
TUC	e(P)	04 26 46
Nov. 14		
BC	iP	06 27 51
HUAN	eL	07 22 44
PF	iP	06 28 01
	e	32 26
SH	eP	06 26 24
TUC	iP	06 27 56
	ipP	28 09
	i	28 27
	ePP	31 24
Nov. 14		
PF	e(P)	10 37 51
TUC	iP	10 38 15
Nov. 14		
PF	e(P)	13 46 24
	eL	47 27
Nov. 14		
BC	eP	14 02 29
HUAN	eL	14 26 36
PF	iP	14 02 10
TUC	iP	14 02 11
	i	02 22
	i	02 34

Date and Station		Phase (GCT) h m s
Nov. 14, cont.		
BC	eP	17 51 33
HUAN	e(P)	17 44 02
	e	44 14
	eL	47 18
IF	iP	17 51 31
TUC	iP	17 51 05
	i	51 24
	i	51 31
Nov. 14		
PF	e(P)	20 48 07
	e	48 46
TUC	iP	20 48 08
Nov. 14		
PF	iP	22 05 09
Nov. 15		
BC	iP	05 01 25
	ePP	04 48
PF	iP	05 01 26
	ePP	04 50
SH	eP	05 00 45
TUC	iP	05 01 48
	iPP	05 27
Nov. 15		
BC	eP	10 36 07
PF	iP	10 36 09
SH	eP	10 35 03
TUC	iP	10 36 45
	i	37 09
Nov. 15		
TUC	e(P)	10 44 22
Nov. 15		
BC	e(P)	13 27 35

Date and Station		Phase (GCT) h m s
Nov. 15, cont.		
PF	eP	13 26 37
TUC	iP	13 26 41
Nov. 16		
BC	eP	04 31 58
PF	eP	04 32 00
TUC	iP	04 32 32
	i	32 47
Nov. 16		
TUC	e(P)	05 31 35
Nov. 16		
BC	eP	22 01 51
	e	03 07
PF	eP	22 01 54
	e	03 10
TUC	iP	22 01 56
	i	02 05
	i	02 27
	e	03 11
	e	03 36
Nov. 17		
PF	eP	01 15 36
SH	eP	01 13 48
	i	14 40.5
	e	15 06
TUC	iP	01 16 41
Nov. 17		
PF	eP	01 25 47
	e	30 32
TUC	eP	01 25 17
	e	26 23
Nov. 17		
PF	e(P)	05 28 35

Date and Station		Phase (GCT) h m s
Nov. 17, cont.		
TUC	eP	09 34 52
Nov. 17		
BC	e(P)	15 57 00
PF	eP	15 57 04
	ePP	16 00 22
TUC	iP	15 57 06
	i	57 09
Nov. 18		
SH	eP	00 04 37
TUC	e(P)	00 04 50
	e	07 06
Nov. 18		
BC	iP	13 14 00
PF	iP	13 14 02
	ipP	14 43
SH	iP	13 14 04.5
	i	14 22
TUC	iP	13 15 34
Nov. 18		
BC	iP	13 33 43
HUAN	iP	13 25 47
	e(S)	26 39
	eS	26 49
	eL	26 59
PF	iP	13 33 40
	i(pP)	34 13
	ePP	35 41
SH	iP	13 34 27.5
TUC	iP	13 33 10
	i	33 55
	i	35 08
Nov. 19		
BH	iP	01 05 24
	eS	06 07

Date and Station		Phase (GCT) h m s
Nov. 19, cont.		
BER	eP	01 10 25
	ePP	11 12
	iPcP	13 33
	eS	15 06
	i(sS)	16 17
	eL	18 05
T_S = 13 sec. A = 1.8 mm.		
T_L = 19 sec. $A_{max.}$ = 8.5mm.		
BC	eP	01 11 40
	ePP	13 10
	e(S)	16 58
BOZ	eP	01 12 22
	e	14 05
	eS	18 33
	eL	22 20
BUT	eP	01 12 22
	ePP	14 20
	eL	22 42
CHI	eP	01 10 42
	ePP	11 50
	e(S)	15 51
	eS	16 08
	eL	17 32
COL	eS	01 25 10
	eL	38 10
COLU	eP	01 09 36
	eS	13 50
	eL	14 20
HONO	e(P)	01 16 15
	eL	40 29
HUAN	eP	01 09 22
	i	09 33
	ipP	09 52
	e	10 50
	eS	13 37
	eL	15 20
LIN	e	01 12 05
	eL	24 01

Date and Station		Phase (GCT) h m s
Nov. 19, cont.		
LOG	eP	01 11 54
	e	12 52
	iPP	13 38
	eS	17 54
	eL	20 42
PHIL	iP	01 10 39
	iPP	11 43
	i	12 01
	iPcP	13 49
	iS	15 47
	eL	17 16
PF	eP	01 11 36
	ePP	13 12
	e(PcP)	13 31
	e(S)	17 12
RC	iP	01 11 40
	iPP	13 02
	i	13 19
	eS	17 10
	eL	20 04
SLC	eP	01 11 48
	ePP	13 39
	eS	17 52
	eL	21 34
SJ	iP	01 08 45
	i	09 06
	eS	12 20
	iL	12 38
SH	eP	01 12 38
	iPcP	14 20
SIT	e(S)	01 23 38
	eL	31 10
TUC	iP	01 10 58
	ipP	11 15
	isP	11 43
	i	12 04
	iPP	12 12
	i	12 33
	i	13 02
	iPcP	13 26

Date and Station		Phase (GCT) h m s
Nov. 19, cont.		
TUC, cont.		
	eS	01 16 27
	eScP	17 21
	eL	18 25
Nov. 19		
BH	e	01 10 07
	e	11 13
Nov. 19		
BH	e	13 03 32
Nov. 19		
BC	eP	21 38 13
HUAN	eL	22 12 22
LOG	eP	21 38 37
PF	eP	21 38 17
SH	eP	21 38 02
TUC	iP	21 38 18
Nov. 20		
SH	eP	02 19 46
Nov. 20		
BC	eP	04 14 06
	epP	16 07
HUAN	iP	04 06 37
	e(S)	07 33
	eL	07 58
PF	iP	04 14 02
	ipP	16 03
	iPP	17 01
TUC	iP	04 13 32
	ipP	15 40
	e	17 21
Nov. 20		
BC	iP	07 04 32
LOG	eP	07 04 51

Date and Station		Phase (GCT) h m s
Nov. 20, cont.		
PF	iP	07 04 34
	epP	06 48
SH	iP	07 04 18
	ipP	06 31.5
TUC	iP	07 04 38
	e(pP)	06 52
Nov. 20		
SH	eP	07 29 17
Nov. 20		
BER	eL	08 45 20
BC	eP	08 26 03
BOZ	eL	08 37 10
BUT	eL	08 38 11
CHI	eS	08 32 08
	eL	34 46
HUAN	eL	08 39 24
LIN	eS	08 31 13
	eL	34 02
LOG	eP	08 27 02
	ePP	27 34
	eS	31 04
	eL	34 52
PHIL	eS	08 33 53
	eL	40 09
PF	eP	08 26 00
RC	eP	08 27 23
	e(S)	32 04
	eL	35 27
SLC	eP	08 26 42
	eL	34 28

Date and Station		Phase (GCT) h m s
Nov. 20, cont.		
TUC	iP	08 25 04
	i	25 40
	e(S)	28 22
	eL	29 24
Nov. 20		
BC	iP	10 20 47
	epP	21 20
LOG	eP	10 20 30
PF	iP	10 20 50
	ipP	21 23
SH	iP	10 19 57.5
	epP	20 30
TUC	iP	10 21 18
	i	21 27
	i	21 37
	ipP	21 51
Nov. 20		
LOG	iP	15 28 24
	i	28 30
	i	28 39
	iL	29 01
Nov. 20		
PF	eP	20 47 08
Nov. 20		
TUC	e(P)	22 29 08
Nov. 21		
PF	iP	04 28 07
SH	eP	04 28 51
TUC	iP	04 27 39
	e	28 07
Nov. 21		
PF	e(P)	17 20 10
Nov. 21		
HUAN	e(P)	17 40 10
	e	42 06
	e(S)	42 24
	eL	42 32

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
BER	ePP	19 31 35
	ePKS	32 28
	esPP	32 44
	ePPS	43 17
	e	45 15
	e(SS)	50 04
	eSSS	54 22
	eL	20 12 10
T_L = 20 sec. $A_{max.}$ = 5 mm.		
BC	eP	19 23 04
	ipP	23 50
	ePKKP	40 49
BOZ	epP	19 24 17
	eS	34 25
	ePS	36 04
	ePPS	37 00
	e(SSS)	45 34
	eL	54 53
BUT	e(SKS)	19 34 11
	eL	20 00 24
CHI	ePP	19 29 17
	eSP	38 26
	ePS	38 37
	ePPS	39 41
	eSS	44 19
	esSS	45 42
	eL	19 58 59
COL	eP	19 22 47
	epP	23 31
	e(PP)	26 46
	eS	33 01
	ePS	34 12
	ePPS	35 09
	eL	44 36
COLU	ePP	19 29 54
	ePS	39 36
	eL	58 28
HONO	esS	19 27 04
	eL	30 43
T_L = 12 sec. $A_{max.}$ = 2mm.		

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
HUAN	ePP	19 29 42
	epPP	30 21
	ePPP	32 12
	eSKS	35 24
	e(S)	36 48
	iPS	39 42
	ePPS	40 22
	e	41 08
	esSS	46 33
	eSSS	49 45
	eL	57 35
LIN	ePP	19 28 29
	e	30 19
	eSKS	34 22
	ePS	37 34
	eSS	43 12
	eL	20 01 20
PHIL	eS	19 37 43
	esS	39 21
	ePS	40 08
	e(PPS)	41 06
	eSS	47 02
	eL	20 02 42
PF	eP	19 23 07
	ipP	23 53
	i	24 57
	e(PP)	26 25
	ePKKP	41 16
	eP'P'	49 00
RC	eS	19 35 23
	epS	36 02
	ePS	36 51
	ePPS	37 42
	eL	20 04 46
SLC	eS	19 34 10
	ePPS	36 40
	eL	48 16
SJ	ePP	19 31 30
	ePKS	32 22
	i	32 38
	e	35 28
	ePPS	43 12
	e(SS)	49 32
	eL	57 27

Date and Station		Phase (GCT) h m s
Nov. 21, cont.		
SH	eP	19 22 47
	epP	23 31
	epPP	26 50
	eP'P'	49 01
SIT	eP	19 22 42
	eS	33 02
	ePPS	35 05
	e	37 56
	eL	46 00
TUC	iP	19 23 15
	ipP	24 01
	ePP	26 52
	epPP	27 39
	eSKKS	33 33
	ePS	35 14
	ePPS	36 19
	eSS	40 33
	iPKKP	40 44
	eSSS	41 16
	eSSS	45 17
	eP'P'	48 50
	eL	50 20
Nov. 22		
SH	iP	02 41 22
TUC	iP	02 42 51
Nov. 22		
BER	eP	09 19 03
	eS	29 06
	eSS	34 30
	eL	39 10
BC	iP	09 15 36
BOZ	eS	09 21 39
	eScS	25 01
	eL	29 33
BUT	eL	09 33 49
CHI	eS	09 25 13
	eScS	27 05
	eL	35 01

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
COL	eP	09 11 51
	e(S)	16 01
	eL	17 06
COLU	eS	09 27 05
	eL	39 30
HONO	e(P)	09 14 03
	eL	22 20
HUAN	eS	09 33 26
	ePS	35 12
	eSS	41 25
	eSSS	44 42
	eL	58 10
LIN	eS	09 24 14
	eL	35 07
PHIL	eS	09 26 53
	eL	37 29
PF	iP	09 15 39
RC	eL	09 34 08
SIC	eP	09 15 26
	eS	22 16
	eScS	25 18
	eSS	25 46
	eL	28 24
SJ	eSKS	09 30 25
	ePPS	32 16
	eL	52 04
SH	eP	09 14 35
	i	14 43
	iS	20 23.5
TUC	iP	09 16 13
	i	16 22
	i	16 29
	e	26 50
	eL	29 56
UK	eL	09 27 02

Date and Station		Phase (GCT) h m s
Nov. 22, cont.		
PF	eP	12 11 41
SH	eP	12 10 07
TUC	iP	12 11 45
Nov. 22		
BC	e(P)	20 57 45
PF	e(P)	20 57 42
TUC	iP	20 57 00
	i	57 13
Nov. 22		
PF	iP	23 22 04
SH	iP	23 21 49.5
Nov. 22		
BC	eP	23 43 07
	e	43 17
PF	eP	23 43 05
SH	eP	23 42 34
TUC	iP	23 43 30
	i	43 40
	i	43 48
Nov. 23		
TUC	eP	00 40 48
	i	41 07
Nov. 23		
PF	iP	10 15 50
Nov. 23		
HUAN	e(P)	21 24 14
	e	25 32
Nov. 24		
BC	iP	06 45 19
HUAN	e(P)	06 36 45
	e(S)	38 51
	eL	39 06

Date and Station		Phase (GCT) h m s
Nov. 24, cont.		
MONT	e	06 34 54
	e (S)	35 00
	iS	35 10
	eL	35 17
PF	iP	06 45 16
SH	iP	06 46 00.5
	i	46 26
TUC	iP	06 44 47
	e	45 40
Nov. 24		
HUAN	eP	17 41 49
	eS	49 15
	e	50 15
	e (SS)	53 33
	eL	58 08
Nov. 25		
SH	eP	04 17 59
	i	18 05.5
	eS	18 41
Nov. 25		
PF	e (P)	09 52 30
Nov. 25		
BC	iP	14 58 03
	ipP	59 14
	ePP	15 01 00
HUAN	eSKS	15 09 56
	ePS	12 18
PF	iP	14 58 08
	ipP	59 18
TUC	iP	14 58 11
	ipP	59 22
	ePP	15 01 09
	iS	07 41
Nov. 25		
SH	eP	18 40 42

Date and Station		Phase (GCT) h m s
Nov. 26		
PF	iP	03 32 45
SH	eP	03 32 28
	e	32 47
TUC	iP	03 32 47
Nov. 26		
PF	eP	04 44 50
TUC	iP	04 44 52
Nov. 26		
BER	ePP	05 59 12
	eSKSP	06 09 18
	e	10 48
	ePPS	11 37
	eSS	17 40
	ePSPS	19 04
	eL	32 05
T_L = 20 sec. $A_{max.}$ 3.5mm.		
BC	eP	05 50 24
	ePP	54 47
	ePKKP	06 06 59
BOZ	ePP	05 55 00
	eSKS	06 01 10
	e	03 11
	ePS	04 06
	eSS	10 18
	eSSS	13 33
	eL	22 07
BUR	ePP	05 58 31
	ePS	06 08 45
	eSS	15 59
	e (SSS)	21 39
	eL	38 01
BUT	ePP	05 54 54
	eSKS	06 01 03
	eL	20 55
CHI	ePP	05 56 51
	eSKS	06 02 13
	ePS	06 40

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
CHI, cont.		
	ePPS	06 08 05
	eSS	13 20
	esSS	13 52
	eSSS	17 50
	eL	30 00
COL	eP	05 49 28
	ePP	52 51
	eS	59 22
	esS	06 00 02
	eSS	05 07
	eL	16 01
COLU	ePP	05 58 02
	ePKS	59 06
	ePS	06 08 10
	eSS	15 34
	eSSS	20 38
	eL	32 40
HONO	eP	05 46 42
	ipP	47 08
	eS	55 16
	iS	55 19
	e	56 42
	eL	06 02 26
T_S = 8 sec. A = 1.5 mm.		
T_L = 20 sec. $A_{max.}$ = 3.5 mm.		
HUAN	e (P')	05 55 59
	e	57 57
	ePP	59 04
	ePKS	59 34
	e (SKS)	06 04 05
	ePS	09 07
	eSS	16 50
	eL	32 30
LOG	e	05 50 50
	ePP	54 58
	ePPP	57 05
	eSKS	06 01 14
	e (S)	01 53
	ePS	03 39
	e	08 11
	eL	20 18

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
PHIL	ePKS	05 59 50
	eSS	06 16 08
	eL	33 17
PF	eP	05 50 28
	ePP	54 44
	iPKKP	06 06 56
RC	ePP	05 55 28
	eSKKS	06 02 14
	ePS	04 48
	eSS	11 04
	eSSS	15 08
	eL	27 22
SLC	ePP	05 55 09
	eSKS	06 01 07
	ePS	03 54
	eL	19 41
SJ	eP'	05 56 13
	e	57 17
	e	57 52
	ePKS	06 01 12
	e(SKS)	04 47
	eSKSP	10 12
	e	11 33
	i	13 45
	eSS	18 35
	eL	37 20
SEA	ePS	06 02 33
	eL	21 04
SH	eP	05 49 57
	ipP	50 19.5
	e	53 09
	eSKS	06 00 27
	esS	01 55
SIT	eS	06 00 42
	eL	17 04
TUC	eP	05 50 42
	e	50 50
	eP'	54 19
	ePP	54 52
	ipPP	55 17

Date and Station		Phase (GCT) h m s
Nov. 26, cont.		
TUC, cont.		
	esS	06 03 03
	iPS	04 06
	ePPS	05 03
	iPKKP	06 44
	eSS	10 06
	eSSS	14 36
	eP'P'	15 04
	eL	20 15
Nov. 26		
LOG	eL	07 45 02
Nov. 26		
HUAN	eL	14 11 15
Nov. 26		
PF	e(P)	17 04 47
	e(pP)	05 04
Nov. 27		
SH	eP	04 44 47
TUC	eP	04 43 39
Nov. 27		
HUAN	eP	06 00 25
	e(S)	01 34
	eL	01 50
Nov. 27		
BC	iP	06 24 01
	ipP	24 30
HUAN	e(P)	06 15 36
MONT	eP	06 13 01
	iS	13 14
	eL	13 25
Felt		
PF	iP	06 23 59
	ipP	24 27
SH	iP	06 24 41.5
	ipP	25 10.5
	e	26 37
	e	31 04
TUC	iP	06 23 30
	ipP	23 58

Date and Station		Phase (GCT) h m s
Nov. 27, cont.		
BC	eP	06 42 45
HUAN	e(P)	06 37 15
	eS	42 33
	e	43 42
	eL	44 17
PF	eP	06 42 38
SH	eP	06 43 15
	i	43 29
TUC	iP	06 42 18
	i	42 25
	i	42 30
	i	43 08
Nov. 27		
MONT	e	07 29 22
	eL	29 29
SH	iP	07 41 24.5
	e	41 52
Nov. 27		
TUC	eP	12 18 26
Nov. 27		
BH	e	12 23 17
Nov. 27		
BH	eP	18 26 41
	eS	27 16
Nov. 28		
PF	eP	01 55 50
SH	eP	01 54 08
	i	54 34
Nov. 28		
SH	eP	07 50 57
	e	51 49
Nov. 28		
SH	iP	12 26 54
Nov. 28		
SH	iP	16 44 26.5

Date and Station		Phase (GCT)
		h m s
Nov. 28, cont.		
BC	ePP	22 02 26
HUAN	eP'	22 03 07
	e	03 29
	e	04 12
PF	eP'	22 01 39
TUC	eP'	22 01 48
	ePP	03 19
Nov. 28		
BC	eP	23 56 54
	e(pP)	56 16
PF	iP	23 57 02
SH	iP	23 56 46
	epP	56 59
TUC	iP	23 57 03
	ipP	57 16
	i	57 27
Nov. 29		
PF	iP	01 16 13
Nov. 29		
BC	eP	02 16 10
SH	iP	02 15 46
TUC	iP	02 16 15
Nov. 29		
HUAN	e(P)	08 50 40
	eL	58 15
Nov. 30		
HUAN	iP	04 07 54
	eL	08 07
Nov. 30		
PF	iP	07 51 33
Nov. 30		
BC	eP	08 40 23
	ipP	42 20
	eS	49 45

Date and Station		Phase (GCT)
		h m s
Nov. 30, cont.		
HUAN	eP	08 33 02
	e	33 37
	e	35 45
	iS	36 04
	eL	36 52
	e(ScS)	43 25
PF	iP	08 40 20
	ipP	42 22
	ePP	43 22
	eS	49 31
SJ	eP	08 36 42
	eS	42 32
	eScS	45 34
	esS	46 10
SH	eP	08 40 59
	i	41 10.5
	ipP	43 02.5
	eS	50 50
TUC	iP	08 39 55
	i	40 05
	ipP	41 55
	eS	48 46
Nov. 30		
TUC	e(P)	13 30 08
Nov. 30		
MONT	e(P)	16 58 27
	i(S)	58 37
Felt	eL	58 45
Dec. 1		
SH	iP	01 40 37.5
	eS	40 59.5
Dec. 1		
PF	eP	04 52 21
Dec. 1		
HUAN	eS	08 35 20
	eL	47 22
Dec. 1		
TUC	eP	09 41 01

Date and Station		Phase (GCT)
		h m s
Dec. 1, cont.		
TUC	iP	12 13 23
Dec. 1		
HUAN	eSKS	18 39 38
	ePS	42 20
	e(SS)	43 14
	eL	53 20
Dec. 2		
BC	eP	04 33 34
COL	eP	04 33 41
	e	35 45
	eL	36 03
PF	eP	04 38 36
SH	iP	04 37 30.5
	i	38 18.5
	e	39 10
TUC	eP	04 39 13
	i	39 19
	i	39 45
	e	41 20
Dec. 2		
TUC	eP	08 23 32
Dec. 2		
TUC	iP	13 44 15
	e	44 28
Dec. 2		
SH	iP	16 59 53.6
	eS	17 00 05
	iS	00 06
Dec. 2		
HUAN	e	18 29 17
	e	29 40
	eL	31 22
PF	eP	18 37 55
SH	e(P)	18 38 42

Date and Station		Phase (GCT) h m s
Dec. 2, cont.		
TUC	eP	18 37 25
	e	38 13
Dec. 3		
PF	e(P)	06 42 41
Dec. 3		
PF	iP	06 54 40
TUC	eP	06 54 41
Dec. 3		
TUC	eP	17 57 26
Dec. 3		
TUC	eP	18 24 50
Dec. 3		
SIT	eL	20 07 09
Dec. 3		
SH	iP	23 52 31.5
Dec. 4		
BER	iP	00 30 22
	iPP	31 57
	iS	36 23
	i	37 44
	iL	38 55
T_P = 9 sec, A = 1.6 mm.		
T_L = 15 sec. $A_{max.}$ = 6.1 mm.		
BOZ	eP	00 27 06
	iS	31 32
	eL	34 28
BUR	eP	00 29 51
	eS	35 37
	i	38 10
	eL	39 49
COLU	eP	00 27 17
	eS	31 52
	eL	34 34
LIN	eP	00 27 33
	eS	31 29
	eL	32 36

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
LOG	iP	00 27 29
	i	28 28
	iS	31 25
	iL	33 01
NK	i(S)	00 35 36
	iL	39 50
PHIL	iP	00 29 21
	eS	34 22
	iS	34 40
	eL	35 26
SJ	iP	00 30 08
	e	31 25
	i	31 50
	iS	36 02
	iL	39 00
SH	eP	00 27 55
	e	32 19
TUC	iP	00 25 32
	i	26 08
	i	26 33
	i	26 50
	iS	27 54
	iL	28 30
UK	iP	00 27 57
	e	28 57
	eS	32 17
	eL	33 49
Dec. 4		
TUC	eP	02 26 14
Dec. 4		
BUR	eL	03 01 03
LOG	eP	02 48 13
	iP	48 14
	i	48 58
	e	49 34
	eS	52 21
	eL	53 54
NK	eL	02 59 35

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
PHIL	eL	03 00 50
SH	eP	02 48 39
TUC	iP	02 46 17
	iS	48 37
	iL	49 19
Dec. 4		
LOG	eP	03 57 27
	e	58 09
	eS	04 01 25
	eL	03 48
SH	eP	03 57 53
TUC	eP	03 55 30
	i	55 47
	eS	57 42
	iL	58 17
Dec. 4		
TUC	iP	07 55 08
	e(S)	57 26
	eL	58 18
Dec. 4		
HUAN	iP'	12 31 11
	e	31 44
	iPP	32 47
	iS	37 54
	iSS	40 42
	iL	41 28
Dec. 4		
BC	eP	16 01 09
PF	iP	16 01 07
SH	eP	16 02 02

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
TUC	iP	16 00 04
	i	00 15
	eS	02 09
	eL	03 23
Dec. 4		
PF	e(P)	16 38 13
	i	38 34
SH	eP	16 37 06
	i	37 22
SIT	iS	16 38 40
	eL	44 46
TUC	eP	16 38 46
	i	38 56
Dec. 4		
TUC	e(P)	20 38 09
Dec. 4		
BC	iP	20 41 17
	ipP	42 04
LOG	eP	20 41 00
	epP	41 48
PF	i(pP)	20 42 01
TUC	iP	20 41 28
	ipP	42 16
Dec. 4		
BER	e	23 52 28
	e	59 17
	eL	00 02 00
BOZ	eP	23 46 23
	i	46 28
	eS	48 51
	iS	49 10
	eL	49 41
BUT	iP	23 46 28
	i	46 45
	iS	48 57
	iL	49 24

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
BUR	eS	23 57 49
	eL	00 00 03
CHI	eP	23 48 32
	ePP	49 38
	eS	52 54
	iS	53 05
	i	53 31
	eL	55 14
COL	eL	23 56 31
COLU	e	23 54 13
	eL	55 31
HONO	eL	23 59 48
HUAN	e(S)	23 53 27
LIN	eP	23 47 21
	e	47 49
	eS	50 43
	eL	52 08
LOG	eP	23 45 23
	iP	45 25
	i	45 57
	i	46 17
	iS	47 41
	iL	47 56
NK	iS	23 54 32
	e	56 47
	i	58 52
	iL	00 01 20
PHIL	e	23 55 31
	eL	58 21
PF	iP	23 59 27
	i	00 00 20
RC	eP	23 46 41
	i	47 12
	eS	49 43
	iL	50 27

Date and Station		Phase (GCT) h m s
Dec. 4, cont.		
SJ	eP	23 51 49
	ePP	53 48
	eS	58 52
	eL	00 02 50
SEA	eL	23 46 51
SH	eP	23 45 20
	e	47 28
	i	47 36
SIT	iS	23 53 48
	iL	56 20
TUC	iP	23 44 29
	e	44 41
	iS	45 33
	iL	45 59

Damage at Desert Hot Springs, Indio, and Palm Springs, California

Dec. 4		
BC	iP	23 47 00
	iS	47 28
Dec. 5		
BC	iP	00 07 58
	i(S)	08 35
	iL	09 03
PF	iP	00 08 07
SH	eP	00 09 30
	e	11 37
	i	11 47.5
Dec. 5		
PF	iP	00 43 25
	iS	43 55
	iL	44 04
Dec. 5		
PF	iP	00 47 10
	iS	47 45
	iL	47 54

Date and Station		Phase (GCT)
		h m s
Dec. 5, cont.		
BC	iP	00 51 35
	iS	52 13
PF	iP	00 51 44
	iS	52 20
SH	e(P)	00 50 54
Dec. 5		
SH	iP	02 54 41.0
	iS	54 53.5
Dec. 5		
SH	iP	03 52 03.2
	iS	52 15.7
Dec. 5		
BER	e	06 47 43
	e(SKS)	54 03
	e	59 49
	eSS	07 08 23
	e	13 36
	eL	24 00
BC	eP'	06 44 45
BOZ	e	06 45 37
	e(PKS)	48 41
	e(SKS)	52 26
	ePPS	58 29
	eSS	07 04 36
	e	05 01
	e	09 25
	eL	19 29
BUR	e(PP)	06 47 57
	e	07 11 09
	eL	30 08
BUT	ePP	06 47 44
	e	07 00 41
	eSS	04 32
	eL	17 07
CHI	eP'	06 45 42
	ePKS	49 00
	eSKS	53 48
	e	57 46

Date and Station		Phase (GCT)
		h m s
Dec. 5, cont.		
CHI, cont.		
	e	07 06 14
	eSS	06 46
	eL	20 34
COLU	ePP	06 48 52
	e(SS)	07 05 46
	eSSS	11 04
	eL	21 10
HONO	eL	07 09 32
HUAN	e	06 40 07
	ePP	43 50
	e	46 00
	eSKS	50 36
	ePS	52 26
	i	52 55
	iSS	57 00
	eL	07 06 29
LIN	e	06 48 50
	e	54 42
	eSS	07 05 53
	eL	21 42
LOG	eP'	06 45 05
	e	51 23
	ePS	56 44
	e	58 27
	eSS	07 02 38
	eSSS	07 16
	eL	18 00
PHIL	ePP	06 49 24
	e	51 57
	eSKKS	55 54
	eS	56 58
	e	07 01 45
	eSS	07 39
	eL	25 46
PF	eP'	06 44 47
RC	eP'	06 45 28
	e	45 48
	ePKS	48 47
	e	51 44

Date and Station		Phase (GCT)
		h m s
Dec. 5, cont.		
RC, cont.		
	eSKS	06 53 58
	ePPS	58 24
	eSS	05 32
	eL	21 30
SJ	e	06 45 48
	iPKS	49 00
	iPPP	49 25
	i	50 39
	ePPS	59 05
	e(SS)	07 05 15
	e	11 00
	eL	16 35
SH	eP'	06 45 16
SIT	e(S)	06 55 44
	eSS	07 04 46
	eL	18 38
TUC	e(P')	06 45 01
	ePP	46 07
	ePS	55 44
	e	59 30
	eSS	07 01 05
	eSSS	06 32
	eL	12 32
Dec. 5		
SH	iP	07 37 27.1
	iS	37 39.7
Dec. 5		
BC	iP	07 48 32
	i	48 49
PF	iP	07 48 34
	iS	49 06
	iL	49 24
Dec. 5		
SH	iP	09 15 05.2
	iS	15 18.0
Dec. 5		
BC	iP	09 29 07
	iS	29 26
	iL	30 00

Date and Station		Phase (GCT)
		h m s
Dec. 5, cont.		
PF	iP	09 29 15
	iS	29 44
	iL	30 05
Dec. 5		
BC	iP	12 52 05
	iS	52 23
	iL	53 10
PF	iP	12 52 13
	eS	52 48
	iL	53 05
SLC	eL	12 55 50
Dec. 5		
BC	iP	13 39 31
	iS	39 44
	iL	40 30
Dec. 5		
SH	iP	14 30 14.1
	iS	30 27.1
Dec. 5		
COL	e	16 34 14
	e	37 30
	eL	39 08
Dec. 5		
SH	eP	16 34 04
	eS	34 16
Dec. 5		
SH	iP	17 29 39
	eS	29 53
Dec. 6		
BC	iP	02 46 46
	iS	47 13
	iL	48 00
PF	iP	02 46 53
	iS	47 26
	iL	47 50
TUC	eP	02 47 21
	i	47 31

Date and Station		Phase (GCT)
		h m s
Dec. 6, cont.		
TUC, cont.		
	eS	02 48 15
	iL	48 38
Dec. 6		
BC	eP	12 23 45
HUAN	ePS	12 39 32
	e	42 02
	eSS	45 45
	eL	13 02 27
PHIL	eL	13 16 36
PF	eP	12 23 44
SH	eP	12 23 24
SIT	eL	12 58 56
TUC	eP	12 23 51
	i	24 13
	eL	53 10
Dec. 6		
SH	iP	13 52 19
	eS	52 30
Dec. 6		
TUC	eP	20 17 49
Dec. 7		
TUC	eP	01 32 04
Dec. 7		
SH	iP	05 02 02.5
Dec. 7		
BC	iP	09 23 22
HUAN	eP	09 22 41
PHIL	iPP	09 20 55
	iS	24 18
	eL	25 15
PF	iP	09 23 23
	e	23 50

Date and Station		Phase (GCT)
		h m s
Dec. 7, cont.		
SJ	eP	09 16 14
	iS	16 45
	iL	16 52
Felt throughout Puerto Rico		
SH	iP	09 24 15
	e	24 41
	e	24 59
TUC	iP	09 22 55
	i	23 15
	e	24 38
Dec. 7		
BC	eP	14 05 45
	epP	06 22
PF	eP	14 05 49
	epP	06 25
SH	iP	14 05 42.5
	ipP	06 09.5
TUC	iP	14 05 50
	ipP	06 27
Dec. 7		
TUC	e(P)	16 31 43
Dec. 7		
BC	e(P)	21 16 11
PF	e(P)	21 16 13
SH	eP	21 15 51
TUC	eP	21 16 37
Dec. 7		
PF	eP	22 07 30
Dec. 7		
PF	e(P)	23 02 57

Date and Station		Phase (GCT) h m s
Dec. 8		
BC	eP	01 16 02
SH	iP	01 15 25.5
TUC	eP	01 16 50
Dec. 8		
HUAN	eP	06 09 42
	i	10 01
	iS	13 36
	eL	15 12
SJ	eP	06 05 11
	eL	19 17
Dec. 8		
HUAN	eP	16 22 04
	e	25 54
	e	30 12
	e	32 02
	e	36 42
	eL	41 12
Dec. 8		
SJ	e	16 28 47
	eSKS	34 41
	e	40 05
	e	44 52
	e	50 59
	eL	58 53
Dec. 8		
SH	iP	17 46 17
TUC	eP	17 47 20
Dec. 8		
BC	iP	22 33 40
	ipP	34 11
HUAN	eP	22 25 03
	eS	26 35
	eL	27 16
PF	iP	22 33 38
	ipP	34 08
	isP	34 19

Date and Station		Phase (GCT) h m s
Dec. 8, cont.		
SH	iP	22 34 20.5
	epP	34 50
TUC	iP	22 33 09
	ipP	33 40
Dec. 9		
TUC	eP	13 24 19
	eL	53 06
Dec. 9		
BC	eP	21 04 39
Dec. 10		
SH	iP	06 39 12
	i	40 11
TUC	iP	06 39 26
Dec. 10		
BOZ	eL	09 48 50
Dec. 10		
BC	eP	09 52 02
	e	55 04
	eP'P'	10 21 17
SH	eP	09 51 06
	e	54 07
	eP'P'	10 21 04
TUC	iP	09 52 35
	i	52 51
	i	53 02
	eL	10 15 47
	eP'P'	21 24
Dec. 10		
BC	eP	10 59 33
	eS	59 54
	eL	11 00 08
Dec. 10		
HUAN	eL	13 56 10
Dec. 10		
BC	iP	20 43 36
	iS	44 13

Date and Station		Phase (GCT) h m s
Dec. 10, cont.		
PF	iP	20 43 43
	iS	44 28
Dec. 11		
BC	eP	03 13 42
PF	iP	03 13 46
SH	iP	03 13 34
	epP	13 47
TUC	iP	03 13 44
	ipP	14 02
	isP	14 13
Dec. 11		
BC	eP	05 12 36
PF	iP	05 12 34
SH	eP	05 13 54
	i	14 06.5
TUC	iP	05 11 31
	eS	13 37
	eL	14 19
Dec. 11		
BC	e(P)	10 48 57
	eL	50 10
Dec. 11		
BC	iP	16 12 59
	iS	13 40
PF	iP	16 13 05
	iS	13 47
TUC	eP	16 13 35
	i	13 43
	i	13 54
	iS	14 32
	i	14 52
	iL	15 16
Dec. 12		
BC	eP	01 30 43
	epP	31 11

Date and Station		Phase (GCT) h m s
Dec. 12, cont.		
PF	iP	01 31 41
SH	iP	01 31 20.5
	ipP	31 49.5
TUC	iP	01 30 13
	epP	30 40
	isP	30 53
Dec. 12		
BC	iP	06 32 30
	epP	34 34
PF	iP	06 32 33
	epP	34 38
SH	iP	06 32 17.5
TUC	iP	06 32 34
	iPP	34 44
Dec. 12		
BC	eP	06 48 43
	ipP	48 56
PF	eP	06 48 46
SJ	eP	06 48 24
	epP	48 36
TUC	iP	06 48 51
	ipP	49 03
Dec. 12		
BC	iP	09 32 00
HUAN	eP	09 24 53
	e	25 29
PF	iP	09 31 58
SH	eP	09 32 33
TUC	iP	09 31 32
	e	31 55
Dec. 12		
BER	e(S)	13 40 41
	eL	51 34

Date and Station		Phase (GCT) h m s
Dec. 12, cont.		
BC	iP	13 26 14
	e	31 26
BOZ	e	13 33 44
	eL	41 27
BUR	eL	13 45 52
CHI	eL	13 35 58
COL	eP	13 22 25
	e	23 19
	eS	26 31
	eL	28 30
COLU	e	13 37 50
	eL	51 35
HONO	eL	13 31 27
HUAN	e	13 44 02
	eS	46 00
	eSS	52 01
	e	56 13
	eL	14 03 16
LIN	e	13 44 44
	eL	48 47
PHIL	eL	13 50 32
PF	iP	13 26 17
	eS	33 30
SLC	eS	13 28 13
	e	33 06
	eL	36 39
SJ	eS	13 40 48
	e	46 15
	eL	53 48
SEA	eL	13 30 56
SH	eP	13 25 12
	e(PP)	26 54
	e	30 36
	e	31 06

Date and Station		Phase (GCT) h m s
Dec. 12, cont.		
TUC	iP	13 26 50
	i	27 04
	i	28 03
	iPP	28 43
	eS	34 30
	eL	41 08
UK	eS	13 32 47
	eL	38 40
Dec. 12		
BC	eP	15 29 26
PF	eP	15 29 25
SH	eP	15 29 36
TUC	eP	15 29 35
	e	29 41
Dec. 13		
BC	iP	02 40 08
PF	iP	02 40 09
SH	eP	02 39 12
	i	39 34.5
TUC	eP	02 40 38
Dec. 13		
BH	iP	03 42 27
	eS	43 13
Dec. 13		
PF	iP	23 04 50
SH	iP	23 04 35.5
TUC	iP	23 04 52
Dec. 14		
HUAN	eL	04 44 10
Dec. 14		
PF	eP	09 36 14
SH	eP	09 35 06
	e	37 49

Date and Station		Phase (GCT) h m s
Dec. 14, cont.		
TUC	iP	09 36 50
	ipP	37 05
Dec. 14		
BC	iP	11 28 58
PF	eP	11 29 01
SH	eP	11 28 33
Dec. 14		
SH	iP	16 21 06
	i	21 11
Dec. 14		
SH	eP	21 38 13
	i	38 20
Dec. 15		
SH	iP	02 19 44
TUC	iP	02 20 02
Dec. 15		
TUC	iP	11 19 56
Dec. 15		
BC	iP	19 23 49
	ipP	24 47
	esP	25 15
	eS	34 05
COL	eS	19 29 23
	esS	30 18
	eSS	33 32
	eL	36 16
HUAN	ePP	19 34 12
	e	39 08
	e	42 26
	eSKSP	43 57
	e(SSS)	58 24
	eL	20 11 46
PHIL	e	19 41 00
	e(SS)	46 39
	eL	20 00 48

Date and Station		Phase (GCT) h m s
Dec. 15, cont.		
PF	iP	19 23 52
	ipP	24 48
	eS	34 12
RC	eP	19 24(09)
	iSKS	34(14)
	iS	34(42)
	eSS	40(37)
	eL	53(16)
SLC	eP	19 24 02
	iSKS	33 50
	iS	34 05
	e	35 06
	eSS	39 21
	eSSS	43 37
	eL	47 33
SJ	ePP	19 33 10
	eSKKS	38 59
	e	42 21
	e	45 08
	eSS	49 43
	i	52 02
	e	56 13
	eL	20 10 40
SH	iP	19 23 11.5
	ipP	24 09.5
	isP	24 49
	eS	32 50
	esS	34 33
SIT	iS	19 30 38
	eSS	35 30
	eL	38 45
TUC	iP	19 24 11
	ipP	25 09
	i	25 23
	i	25 53
	eSKS	34 18
	iS	34 49
	ePS	35 47
	eL	50 14
Dec. 15		
BC	iP	22 03 16
	ipP	03 39

Date and Station		Phase (GCT) h m s
Dec. 15, cont.		
PF	iP	22 03 20
	ipP	03 43
SH	iP	22 02 26.5
	ipP	02 50
	e	05 38
TUC	iP	22 03 45
	ipP	04 10
Dec. 15		
BC	iP	22 39 18
	ipP	39 48
PF	iP	22 38 51
	ipP	39 22
SH	eP	22 38 28
	epP	38 58
TUC	iP	22 39 48
	ipP	40 19
Dec. 16		
BER	ePS	07 47 41
	e	51 00
	eL	08 09 13
BC	eP	07 30 33
BOZ	eSSS	07 41 53
	e	49 40
	eL	56 47
COL	eS	07 41 40
	eL	54 20
HONO	eS	07 33 09
	eL	36 29

T_L = 16 sec. $A_{max.}$ = 4.8mm.

HUAN	ePP	07 36 03
	eS	43 21
	ePS	44 55
	e(SS)	50 01
	eL	57 03

Date and Station		Phase (GCT) h m s
Dec. 16, cont.		
PHIL	eL	08 10 36
PF	iP	07 30 35
SLC	eS	07 41 17
	eSS	46 56
	eL	53 16
SJ	e(P)	07 32 46
	ePP	38 15
	e	40 44
	eS	45 57
	ePS	47 00
	ePPS	48 50
	e(SS)	54 21
	eL	08 07 40
SH	eP	07 30 20
	e	32 53
	ePP	33 14
SIT	eS	07 41 35
	eL	50 45
TUC	eP	07 30 36
	i	30 41
	eS	41 07
	eL	49 50
Dec. 16		
PF	iP	08 47 48
	eS	48 01
Dec. 16		
HUAN	iP	22 01 36
	iS	01 57
	iL	02 08
Dec. 17		
SH	iP	03 48 40.5
	e	48 54
	eS	49 08
Dec. 17		
SH	iP	09 37 10
TUC	iP	09 38 25

Date and Station		Phase (GCT) h m s
Dec. 17, cont.		
SH	eP	10 28 20
TUC	iP	10 28 37
Dec. 17		
HUAN	eP	10 47 08
Dec. 17		
BH	iP	11 32 07
	eS	32 37
BC	eP	11 39 29
HUAN	eP	11 35 58
	e	36 52
	e(S)	39 44
	eL	41 42
PF	eP	11 39 36
SJ	eP	11 35 41
	iS	39 10
	eL	40 00
SH	eP	11 40 26
TUC	iP	11 38 50
	eL	54 15
Dec. 17		
BH	eP	11 57 49
	iS	58 17
Dec. 17		
BH	eP	12 26 16
	e	26 39
Dec. 17		
SH	iP	20 48 46.5
	eS	49 00
Dec. 18		
SH	iP	07 00 02.5
	iS	00 15
Dec. 18		
BC	eP	14 26 20

Date and Station		Phase (GCT) h m s
Dec. 18, cont.		
PF	eP	14 26 16
Dec. 18		
HUAN	eS	14 47 00
	eL	15 04 45
Dec. 18		
PF	eP	22 50 05
SH	eP	22 49 49
TUC	eP	22 50 07
Dec. 18		
BC	eP	23 45 50
	iS	46 20
PF	iP	23 45 58
	iS	46 38
SH	e(P)	23 47 40
	e	48 53
TUC	iP	23 46 41
	i	46 52
	i	47 08
	iS	47 42
	i	48 15
	iL	48 27
Dec. 19		
BC	eP	04 08 59
HUAN	eP	04 01 04
	eS	04 01
	iS	04 08
	eL	05 06
PF	iP	04 08 58
SH	e(P)	04 09 35
	i	09 38.5
TUC	iP	04 08 29
	ipP	08 40

Date and Station		Phase (GCT)
		h m s
Dec. 19, cont.		
SH	iP	16 53 43
	iS	53 51.5
Dec. 20		
SH	eP	02 43 21
	eS	43 32
Dec. 20		
BC	eP	04 44 08
	e(S)	45 03
	iL	45 45
PF	eP	04 44 16
	i	45 21
SH	eP	04 44 05
	i	44 32.5
	iL	45 38
TUC	eP	04 45 05
	eL	47 56
Dec. 20		
LOG	e	11 26 28
	e	26 39
	i(S)	27 43
	iL	27 51
Dec. 20		
SH	eP	15 52 17
	i	52 48.5
	iS	52 49
Dec. 20		
SH	iP	16 17 43.5
	iS	18 05
Felt at Klamath Falls and Fossil, Oregon.		
Dec. 20		
SH	eP	17 36 50
Dec. 20		
BC	eP	18 52 48
PF	eP	18 52 54
SH	eP	18 52 01

Date and Station		Phase (GCT)
		h m s
Dec. 20, cont.		
HUAN	eP'	20 59 03
	ePP	21 02 38
SH	eP	20 52 49
	e	53 03
Dec. 20		
SH	eP	23 20 32
Dec. 21		
SH	iP	00 53 12
	iS	53 38.5
Dec. 21		
TUC	eP	07 12 54
Dec. 21		
PF	eP	16 45 00
TUC	eP	16 45 06
Dec. 21		
BC	eP	17 49 17
PF	eP	17 49 13
TUC	eP	17 48 32
	e	48 50
Dec. 21		
BC	eP	20 21 38
BOZ	eL	20 31 30
HUAN	eP	20 20 07
	eS	25 00
	eL	30 06
PHIL	eP	20 18 20
	eS	22 19
	eL	23 14
PF	eP	20 21 31
SLC	eL	20 35 19
SJ	iP	20 14 06
	i	14 10

Date and Station		Phase (GCT)
		h m s
Dec. 21, cont.		
SJ, cont.		
	iS	20 14 34
	iL	14 43
Felt in western part of Island.		
SH	eP	20 22 25
	iP	22 28.5
TUC	eP	20 21 04
	i	21 23
Dec. 21		
PF	iP	21 42 01
SH	eP	21 41 28
Dec. 21		
SH	iP	23 44 31
	eS	44 46
	iS	44 47.5
Dec. 22		
BC	eP	00 40 20
PF	eP	00 40 21
SH	eP	00 39 27
TUC	iP	00 41 00
	e	41 16
Dec. 22		
TUC	eP	05 03 39
Dec. 22		
PF	iP	05 47 25
	e	48 07
TUC	iP	05 47 21
Dec. 22		
BC	eP	15 51 18
HUAN	eP	15 43 54
PF	iP	15 51 18

Date and Station		Phase (GCT) h m s
Dec. 22, cont.		
SH	iP	15 51 56.5
TUC	iP	15 50 51
Dec. 22		
BER	eL	20 17 48
Dec. 23		
HUAN	e	05 54 33
Dec. 23		
BC	eP	07 24 51
HUAN	eSS	07 43 41
	eL	56 49
PF	eP	07 24 54
	ePP	28 21
SH	eP	07 24 46
TUC	eP	07 24 54
	iP	24 57
	i	25 14
	eL	53 36
Dec. 23		
BER	eP	08 53 40
	eS	09 03 48
	eSS	09 10
	eL	15 30
BC	eP	08 50 44
	iP	50 46
	eS	58 32
BOZ	eP	08 50 10
	iPP	52 04
	iPPP	53 18
	iS	57 23
	iSS	09 00 55
	iL	02 31
BUT	eP	08 50 05
	eS	57 09
	eSS	09 00 21
	eL	03 03

Date and Station		Phase (GCT) h m s
Dec. 23, cont.		
CHI	eP	08 51 50
	ePP	55 40
	eS	09 00 24
	iS	00 27
	e	01 02
	e	02 19
	eSS	04 36
	e	05 01
	eL	07 40
COL	iP	08 46 32
	e	47 34
	iS	50 46
	iL	52 40
COLU	eP	08 52 47
	eS	09 02 11
	eSS	06 52
	eL	10 52
HONO	e(P)	08 49 17
	eS	55 52
	eL	59 07
HUAN	ePP	09 01 04
	e	02 01
	e	05 09
	ePS	10 26
	e	10 45
	e(SS)	16 11
	eSSS	21 37
	eL	30 43
LIN	iP	08 51 28
	ePP	53 45
	eS	59 54
	iScS	09 01 16
	eSS	03 44
	eSSS	06 08
	iL	10 22
NK	e(P)	08 52 19
	eS	09 01 21
	eL	09 21
PHIL	eP	08 52 33
	e	53 43

Date and Station		Phase (GCT) h m s
Dec. 23, cont.		
PHIL	ePP	08 55 14
	ePPP	56 59
	iS	09 01 46
	eSS	06 13
	eL	09 40
PF	iP	08 50 48
	ePP	52 54
	eS	58 34
	i	09 01 45
RC	iP	08 50(49)
	ePPP	54(03)
	iS	58(39)
	iPcP	09 00(34)
	e	02(32)
	eL	03(52)
SJ	e(P)	08 54 41
	ePP	58 16
	e	09 02 36
	eSKS	05 03
	e	08 14
	eSS	11 42
	eL	19 18
SEA	e(P)	08 49 14
	eS	55 17
	eL	09 00 19
SH	iP	08 49 49
	e	51 25
	ePP	51 43
	eS	56 47
	eScS	59 41
SIT	e	08 47 44
	iS	52 45
	iL	54 20
TUC	iP	08 51 20
	epP	52 09
	ePP	53 37
	ePPP	54 52
	eS	59 37
	iS	59 39
	eSS	09 03 40
	eL	07 46

Date and Station		Phase (GCT)
		h m s
Dec. 23, cont.		
UK	e(S)	08 57 44
	eL	09 02 34
Dec. 23		
BC	eP	15 35 39
	e	39 59
PF	eP	15 35 43
	e	39 58
SH	eP	15 34 40
	i	40 28.5
	e	41 29
	e	42 39
TUC	iP	15 38 58
	i	39 06
	eS	41 17
	eL	42 10
Dec. 23		
PF	iP	15 58 50
Dec. 23		
BC	eP	18 58 48
SH	eP	18 57 52
	i	58 02
	i	59 20.5
TUC	iP	18 59 25
Dec. 24		
BC	eP	04 53 57
	eScP	59 58
PF	iP	04 54 00
	iScP	05 00 00
SH	iP	04 53 00
	i	54 28.5
	e	55 07
	eScP	59 42
TUC	iP	04 54 32
	iScP	05 00 05
Dec. 24		
BC	eP	07 40 21

Date and Station		Phase (GCT)
		h m s
Dec. 24, cont.		
HUAN	e	07 41 45
	eL	54 22
PF	eP	07 40 23
SH	iP	07 40 38.5
TUC	eP	07 40 16
Dec. 26		
BER	e	07 26 30
	e(S)	30 22
	eL	36 20
BC	iP	07 23 52
	ipP	23 09
	ePP	26 20
HUAN	eP	07 15 19
	i	15 41
	iS	17 41
	iL	18 00
PF	iP	07 23 49
	ipP	24 09
RC	iP	07 23(58)
	i	25(04)
	eS	33(16)
SJ	eP	07 20 17
	ipP	20 39
	esP	20 52
	iPP	21 46
	ipPP	22 01
	i	23 40
	iS	26 06
	iScS	29 29
	eL	30 42
TUC	iP	07 23 21
	ipP	23 36
	isP	23 49
	e	24 52
	ePP	26 16
	eS	32 15
	eL	40 33

Date and Station		Phase (GCT)
		h m s
Dec. 26, cont.		
BC	eP	08 56 58
PF	iP	08 57 01
	e	58 58
TUC	iP	08 57 05
Dec. 26		
HUAN	eP	09 34 11
	eS	41 21
	eSS	44 59
	eL	47 31
SJ	e	09 48 00
	e	52 39
	eL	10 06 53
TUC	eP	09 52 26
Dec. 26		
PF	eP	19 12 33
Dec. 27		
PF	iP	00 28 21
Dec. 27		
PF	iP	02 27 07
	eL	28 50
Dec. 27		
BC	eP	04 15 13
PF	eP	04 15 17
SH	iP	04 14 59
TUC	eP	04 15 20
Dec. 27		
BH	eP	05 54 38
	e	55 05
Dec. 27		
BC	eP	11 19 48
	eS	20 26

Date and Station		Phase (GCT) h m s
Dec. 27, cont.		
PF	eP	11 19 54
	iP	19 58
	i(S)	20 41
Dec. 28		
BC	iP	00 28 17
SH	iP	00 27 56.5
TUC	iP	00 28 29
Dec. 28		
SH	iP	01 12 05
	eS	12 35
	iS	12 36.5
Dec. 28		
SH	eP	02 00 07
	eS	00 35
Dec. 28		
BC	iP	02 27 24
	eL	28 25
SH	eP	04 24 37
	eS	25 05
TUC	e(P)	02 28 23
	eL	31 14
Dec. 28		
SH	iP	02 26 14.5
	iS	26 45
Dec. 28		
BC	eP	05 27 48
PF	iP	05 27 33
	eL	29 10
SH	iP	05 26 39.5
	eS	27 10
Dec. 28		
TUC	e(P)	05 43 55
	eL	46 39
Dec. 28		
SH	eP	06 05 51
	eS	06 19

Date and Station		Phase (GCT) h m s
Dec. 28, cont.		
BC	eP	12 54 25
	i	54 33
	i	55 08
PF	iP	12 54 32
	i(S)	54 56
Dec. 28		
TUC	eP	15 43 39
Dec. 28		
BC	eP	19 08 09
PF	eP	19 08 05
SH	eP	19 09 11
TUC	eP	19 07 24
Dec. 29		
BC	eP	00 42 37
PF	eP	00 42 33
Dec. 29		
PF	e(P)	01 37 04
Dec. 29		
BC	e(P)	02 37 06
Dec. 29		
BUT	eL	05 40 54
HUAN	eP	05 53 39
	e	55 02
	ePP	57 22
	eSKS	06 03 52
	ePS	07 02
	eSS	09 06
	eL	15 00
PHIL	eL	06 42 25
SLC	eL	06 35 37
Dec. 29		
PF	e(P)	06 41 17
SH	eP	06 41 00
	i	41 32

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
TUC	eP	06 41 14
Dec. 29		
PF	eP	07 44 21
Dec. 29		
PF	iP	11 03 06
SH	eP	11 02 49
TUC	iP	11 03 09
	e	03 30
Dec. 29		
PF	e(P)	12 48 41
	eL	49 50
Dec. 29		
BC	eP	12 55 16
	iP	55 19
BOZ	eP	12 56 02
	e(S)	57 51
	iL	58 10
BUT	eP	12 56 06
	eS	57 27
	iL	57 51
CHI	iS	13 03 20
	eL	05 44
LIN	eP	12 57 40
	eS	13 01 05
	eL	03 14
NK	eL	13 07 02
PHIL	eP	13 00 24
	eS	06 10
	eL	08 02
PF	iP	12 54 56
RC	eP	12 56(38)
	eS	59(16)
	eL	06 00(26)
SLC	eP	12 55 03
	i	55 45

Date and Station		Phase (GCT) h m s
Dec. 29, cont.		
SLC, cont.		
	iS	12 56 34
	iL	56 46
SH	iP	12 54 03
	eS	54 33
TUC	eP	12 56 01
	iP	56 05
	i	56 23
	i	56 56
	iS	58 11
	iL	58 43
UK	eP	12 55 13
	iS	55 45
	iL	56 12
Dec. 29		
BH	eP	14 02 26
	iS	02 45
Dec. 29		
PF	eP	18 20 04
Dec. 29		
SH	e(P)	20 19 02
TUC	eP	20 20 29
	e	21 11
Dec. 29		
PF	e(P)	21 26 24
SH	eP	21 23 57
	eS	24 23
Dec. 29		
BC	eP	23 20 07
PF	eP	23 20 09
	e	20 57
SH	eP	23 19 32
	e	20 18

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
BC	eP	04 21 59
PF	e(P)	04 22 30
SH	eP	04 21 05
	e	21 18
TUC	iP	04 22 30
Dec. 30		
PF	eP	20 42 11
Dec. 30		
PF	eP	21 32 31
Dec. 30		
BER	eS	00 07 18
	eScS	09 54
	eL	10 52
BC	iP	23 54 17
BOZ	iP	23 53 12
	e	53 31
	e(S)	55 56
	iL	57 14
BUT	eP	23 53 30
	eS	55 34
	eL	55 54
CHI	eP	23 56 15
	e	56 49
	e	57 47
	iS	00 01 12
	eL	03 12
COL	eP	23 53(42)
	e	54(09)
	eS	56(47)
	eL	57(56)
HONO	eS	00 02 55
	eL	05 22

T_L = 8 sec. $A_{max.}$ = 11.5 mm.

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
LIN	eP	23 55 25
	ePP	56 08
	eS	00 00 03
	eL	01 53
LOG	iP	23 53 39
	i	54 26
	i	54 54
	iS	56 45
	eL	57 29
NK	eL	00 05 48
PHIL	e(PP)	23 59 03
	e	59 56
	eS	00 03 25
	eL	05 43
PF	iP	23 54 19
RC	iP	23 54(25)
	i	55(02)
	i	56(00)
	iS	58(11)
	i	58(42)
	iL	59(49)
SLC	iP	23 53 48
	i	54 22
	iS	57 14
	iL	58 16
SJ	ePPP	00 03 28
	eS	08 15
	eL	14 55
SEA	eP	23 51(16)
	eS	52(10)
	eL	53(02)
SIT	eP	23 51 28
	iP	51 29
	iS	52 46
	iL	53 21

Date and Station		Phase (GCT) h m s
Dec. 30, cont.		
TUC	eP	23 55 09
	iP	55 10
	iPP	56 22
	i	57 00
	eS	59 37
	i	00 00 24
	iL	01 15
UK	eP	23(54 05)
	e	(54 34)
	eS	(55 40)
	eL	(56 41)
Dec. 31		
HUAN	eL	00 31 28
Dec. 31		
PF	e(P)	02 19 51
SH	eP	02 17 23
	eS	17 51
Dec. 31		
TUC	eP	03 45 38
Dec. 31		
SH	eP	06 21 00
	eS	21 29
Dec. 31		
PF	e(P)	06 44 13
SH	eP	06 41 53
TUC	eP	06 44 41
Dec. 31		
BH	eP	07 09 53
	eS	11 23
BC	eP	07 16 38
HUAN	eP	07 12 44
	e	13 33
	eS	16 29
	e	18 31
	eL	19 21
PF	iP	07 16 34

Date and Station		Phase (GCT) h m s
Dec. 31, cont.		
SJ	eL	07 13 46
SH	eP	07 17 25
TUC	eP	07 16 02
Dec. 31		
BH	eP	07 33 14
	eS	34 42
BC	eP	07 40 00
HUAN	eP	07 36 06
	eS	40 10
	eL	41 30
PF	iP	07 40 03
SH	eP	07 40 51
TUC	iP	07 39 23
Dec. 31		
PF	e(P)	07 55 15
SH	eP	07 52 48
	iS	53 17
Dec. 31		
PF	e(P)	08 20 27
SH	iP	08 18 01
	iS	18 29
Dec. 31		
PF	e(P)	10 00 15
SH	eP	09 57 48
	iS	58 17.5
Dec. 31		
BC	eP	14 37 08
	eL	38 30
PF	e(P)	14 36 46
SH	eP	14 37 01
	e	37 22
	i	38 05

Date and Station		Phase (GCT) h m s
Dec. 31, cont.		
TUC	eP	14 38 05
	e(S)	39 36
	eL	40 21

Local and Minor Earthquakes

day	hour
BOZ	
Dec.	
15	19.6
COL	
Oct.	
5	02.7
Nov.	
6	02.0
10	01.3
11	19.5
16	11.4
HONO	
Nov.	
4	12.5
6	19.3
	19.3
15	21.8
16	00.6
17	20.6
	22.6
18	20.0
HUAN	
Oct.	
1	13.8
	21.8
2	12.4
	18.2
3	00.2
	01.3
	02.2
4	04.8
5	21.2
6	04.6
	05.9
	07.4
	10.1
7	00.4
	02.4
	04.4
	(strong)
	16.8
8	10.8
	14.4
	(strong)
	16.8

day	hour
HUAN, cont.	
Oct, cont.	
9	14.8
	21.7
	22.5
10	11.1
12	07.8
13	08.0
	09.4
	09.9
14	14.8
	18.5
16	14.6
17	04.4
	16.9
18	10.5
	11.7
19	03.4
20	08.3
21	03.3
	21.2
22	01.2
	12.6
23	17.4
	17.9
24	06.4
	13.6
	18.3
	20.9
25	02.9
	04.3
	05.6
	07.2
	14.9
	(very strong)
	15.4
26	13.7
28	11.5
29	09.5
	16.2
Nov.	
1	03.4
	03.5
	12.3
3	00.9
	03.0
	22.7
4	20.7

day	hour
HUAN, cont.	
Nov, cont.	
4	20.7
5	04.2
	07.4
	15.4
6	13.7
7	06.5
	15.8
8	17.3
9	15.6
	20.3
10	13.3
12	12.7
13	09.8
15	10.6
	12.2
17	23.2
18	08.3
	14.8
19	09.7
	17.3
20	00.7
21	03.5
22	21.8
23	00.4
	09.2
	14.4
27	00.1
	18.9
	23.1
29	05.6
Dec.	
1	04.5
	15.5
2	03.9
	05.0
	10.5
3	06.3
	19.9
	21.0
	(strong)
5	10.7
6	04.7
	08.7
	16.0
8	03.2
	10.7

day	hour
HUAN, cont.	
Dec, cont.	
8	13.1
9	06.4
11	07.5
12	02.1
	21.4
	(strong)
13	01.3
15	03.7
17	19.4
	23.0
18	11.4
	16.5
19	04.9
	06.6
	17.4
20	15.9
	18.8
21	07.8
	07.9
	(strong)
	18.4
	22.6
22	00.5
	01.6
	05.0
	06.0
	18.5
23	01.5
	12.9
	14.1
24	08.7
25	04.3
	10.2
26	13.1
	20.0
27	09.5
30	13.5
	19.3
31	01.4
LOG	
Oct.	
7	12.2
9	13.6
MONT	
Nov.	
21	04.3

day	hour
SLC	
Nov.	
9	12.6
20	15.5
SJ	
Oct.	
17	20.5
19	23.4
20	14.9
21	01.3
Nov.	
7	10.5
19	16.5
22	16.9
26	22.6
SH	
Dec.	
51 Reno after-shocks recorded from 28-06 thru 31-23.	
SIT	
Oct.	
12	02.1
TUC	
Oct.	
2	13.6
3	04.8
4	09.9
6	09.2
9	20.8
10	18.8
18	23.4
21	19.0
23	20.7
26	11.8
	17.5
29	19.1
30	09.9
Nov.	
1	15.9
2	01.6
3	03.9

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
TUC, cont.		TUC, cont.							
Nov, cont.		Dec, cont.							
6	17.4	7	04.4						
	18.1		20.4						
	20.8	8	06.2						
7	12.4		08.7						
9	21.4	8	11.5						
	23.8		12.0						
10	00.1		16.5						
	06.2		17.8						
	06.6		23.6						
	08.9	9	01.5						
	09.2		05.2						
	17.5		10.0						
	23.9		10.0						
11	07.7		12.8						
13	03.8		21.1						
14	13.7	10	15.7						
	21.9		18.0						
15	05.8		20.7						
	12.1	11	01.4						
17	12.4		01.9						
18	15.8		10.8						
20	15.5	12	04.3						
21	03.9		05.8						
	09.2	13	10.3						
23	09.7		15.0						
	21.9		18.3						
24	11.6	15	16.7						
25	13.3	16	18.5						
	16.5	19	09.0						
29	03.1	21	23.7						
		22	10.8						
Dec.			15.0						
1	16.0	23	15.6						
3	03.9	24	23.5						
4	04.4	25	04.2						
	05.1	27	08.5						
	11.5		11.3						
5	00.7		23.6						
	00.9	28	12.9						
	02.4	29	07.2						
	07.8		19.4						
	08.5								
	09.5								
	12.9								
	13.3								
	13.4								
	13.5								