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Department of Commerce

Charles Sawyer, Secretary

U. S. Coast and Geodetic Survey

R. F. A. Studds, Director

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# SEISMOLOGICAL BULLETIN

July, August, September, 1946

## MSI - 127

ISSUED BY THE U. S. COAST AND GEODETIC SURVEY

Washington 25, D. C.

# National Oceanic and Atmospheric Administration

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DEPARTMENT OF COMMERCE

Charles Sawyer, Secretary

U. S. COAST AND GEODETIC SURVEY

R. F. A. Studds, Director

# S E I S M O L O G I C A L  B U L L E T I N

July, August, September, 1946

MSI-127

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Issued by the U. S. Coast and Geodetic Survey
Washington 25, D. C.

A-4319-4 (63)+

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

**Balboa Heights, C. Z. (BH)
The Panama Canal
*Bermuda (BER)
Meteorological Station and International Union Geodesy and Geophysics
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and U. S. Weather Bureau
*College, Alaska (COL)
University of Alaska
*Columbia, S. C. (COLU)
University of South Carolina
*Grand Coulee, Wash. (GC)
Bureau of Reclamation
Honolulu, T. H. (HONO)
*Huancayo, Peru (HUAN)
Carnegie Institution of Washington
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
**Montezuma, Chile (MONT)
Smithsonian Institution
**New Kensington, Pa. (NK)
Private station.
*Overton, Nev. (OV)
Bureau of Reclamation and National Park Service
**Philadelphia, Pa. (PHIL)
The Franklin Institute
*Pierce Ferry, Ariz. (PF)
Bureau of Reclamation and National Park Service
*Rapid City, S. Dak. (RC)
South Dakota State School of Mines and Technology
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico
**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 magnitudes are determined by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the report.

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

## PROVISIONAL EPICENTERS

Note.--Epicenter locations for 1946-48 have not been determined and will be omitted from this publication until the backlog is eliminated.

## SEISMOGRAM INTERPRETATIONS

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| July 1 | | |
| BER | eL | 03 22 10 |
| BC | iP | 02 59 21.5 |
| | eL | 03 11 14 |
| BOZ | eS | 03 03 15 |
| | eL | 06 52 |
| BUR | e | 03 09 20 |
| | eL | 12 58 |
| CHI | eP | 03 00 12 |
| | ePcP | 02 09 |
| | eS | 06 11 |
| | eL | 10 37 |
| COL | iP | 02 52 45 |
| | iS | 53 00 |
| | eL | 53 17 |
| COLU | eL | 03 18 33 |
| GC | eP | 02 57 33 |
| | eL | 03 04 17 |
| LOG | e | 02 58 38 |
| | eL | 03 08 54 |
| PHIL | e | 03 11 47 |
| | eL | 14 20 |
| RC | e(P) | 02 59 02 |
| | eL | 03 07 14 |
| SLC | eL | 03 07 11 |
| SJ | eL | 03 28 00 |
| SH | iP | 02 58 21.5 |
| SIT | eP | 02 54 48 |
| | eS | 56 28 |
| | eL | 57 04 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| July 1 | | |
| BC | eP | 04 26 03 |
| | iP | 26 35 |
| July 1 | | |
| BC | eP | 10 04 37 |
| PHIL | e(S) | 10 15 54 |
| | e | 20 44 |
| | eL | 30 33 |
| SH | eP | 10 05 08 |
| July 1 | | |
| COL | eL | 13 12 37 |
| July 1 | | |
| BER | e(PP) | 22 57 17 |
| | e | 23 01 39 |
| | e | 07 03 |
| | eSS | 15 14 |
| | e(SSS) | 20 14 |
| | eL | 30 29 |
| BC | iP | 22 48 47 |
| | i | 49 09 |
| | iPP | 52 44 |
| BOZ | eSKS | 22 59 29 |
| | ePS | 23 01 33 |
| | e | 05 53 |
| | eL | 14 07 |
| BUT | ePP | 22 53 07 |
| | eSKS | 59 25 |
| | eS | 23 00 16 |
| | e | 03 25 |
| | eL | 15 39 |
| CHI | e | 22 54 48 |
| | ePS | 23 04 36 |
| | eSS | 10 15 |
| | eL | 22 19 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| July 1 | | |
| COL | e | 22 49 50 |
| | eS | 57 50 |
| | e | 59 04 |
| | eSS | 23 03 26 |
| | eL | 08 40 |
| HONO | e(PP) | 22 46 50 |
| | eS | 52 36 |
| | eL | 58 18 |
| HUAN | eP' | 22 54 39 |
| | e(PP) | 57 24 |
| | e | 58 08 |
| | e | 23 09 12 |
| | eSS | 14 07 |
| | e | 16 35 |
| | e | 22 14 |
| | eL | 29 32 |
| LOG | e | 22 51 32 |
| | ePS | 23 01 43 |
| | eSS | 06 16 |
| | eL | 19 11 |
| PHIL | e | 23 00 48 |
| | ePS | 06 20 |
| | eSS | 13 06 |
| | eL | 24 36 |
| PF | eP | 22 48 50 |
| | iSKS | 59 25 |
| RC | ePP | 22 53 50 |
| | eSKS | 23 00 04 |
| | ePS | 02 52 |
| | eL | 19 06 |
| SLC | e | 22 55 33 |
| | eS | 23 00 32 |
| | eL | 16 33 |
| SH | eP | 22 48 25.5 |
| | e | 51 38 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 1 | | |
| SIT | iP | 22 48 00 |
| | ePP | 51 11 |
| | ePPP | 53 03 |
| | eS | 58 16 |
| | e | 59 12 |
| | eSS | 23 03 32 |
| | eL | 10 25 |
| TUC | eP | 22 49 00 |
| | ePP | 52 57 |
| | e | 56 38 |
| | ePS | 23 01 42 |
| | eSS | 07 14 |
| | eSSS | 11 02 |
| | e | 16 42 |
| UK | eSKS | 22 59 12 |
| | eSS | 23 04 28 |
| | eL | 11 46 |
| July 2 | | |
| TUC | e | 04 04 04 |
| July 2 | | |
| BC | i | 07 29 33 |
| | eS | 30 05 |
| | iS | 30 10 |
| PF | iP | 07 29 33 |
| | eL | 30 30 |
| July 2 | | |
| TUC | e | 22 29 26 |
| July 3 | | |
| BC | iP | 00 17 19 |
| | i | 17 26 |
| | eL | 17 58 |
| PF | iP | 00 17 27 |
| | i | 17 33.5 |
| | eL | 18 08 |
| July 3 | | |
| BC | eP | 01 08 38 |
| | i | 08 48 |
| PF | eP | 01 08 39 |
| SH | eP | 01 07 41 |
| TUC | e | 01 09 16 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 3 | | |
| TUC | e | 03 40 56 |
| July 3 | | |
| BC | e | 04 59 30 |
| PF | e | 04 59 16 |
| SH | eP | 04 59 20 |
| TUC | e | 04 58 21 |
| | e | 58 32 |
| | e | 05 01 13 |
| July 3 | | |
| BC | i | 06 15 55 |
| | i | 15 59.6 |
| | e(S) | 16 55 |
| | i | 17 09 |
| PF | iP | 06 15 51 |
| | i | 16 00 |
| | e(S) | 16 57 |
| July 3 | | |
| BC | e | 10 55 34 |
| PF | e | 10 55 18 |
| TUC | eP | 10 54 18 |
| | e | 58 08 |
| | e | 58 26 |
| | e | 11 00 29 |
| July 3 | | |
| PF | eP | 12 55 19 |
| July 3 | | |
| PF | eP | 13 11 23 |
| TUC | eP | 13 11 27 |
| | e | 13 14 |
| July 3 | | |
| TUC | eP | 16 04 22 |
| | e | 05 12 |
| | eL | 06 44 |
| July 4 | | |
| HUAN | e | 02 04 06 |
| | eL | 28 35 |
| PF | e | 02 12 35 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 4 | | |
| TUC | eP | 02 12 27 |
| July 4 | | |
| BC | eP | 04 06 30 |
| PF | iP | 04 06 37 |
| TUC | iP | 04 06 38 |
| July 4 | | |
| HUAN | eP | 04 39 47 |
| | i(S) | 40 32 |
| | iL | 40 45 |
| PF | eP | 04 49 16 |
| TUC | eP | 04 48 43 |
| July 4 | | |
| BC | iP | 07 13 29 |
| PF | iP | 07 13 32 |
| | i | 14 11 |
| SH | iP | 07 13 10 |
| TUC | iP | 07 13 39 |
| July 4 | | |
| BC | e(P) | 09 45 57 |
| | i | 46 01 |
| | i | 47 36 |
| PF | iP | 09 45 39 |
| | i | 45 47 |
| | eS | 47 03 |
| SH | e | 09 46 26 |
| | e | 49 33 |
| TUC | eP | 09 44 41.5 |
| | i | 44 48.5 |
| | i(S) | 45 03.5 |
| | i | 45 10 |
| | i | 45 23 |
| | eL | 45 51 |
| July 4 | | |
| TUC | eL | 10 22 00 |
| July 4 | | |
| BC | eP | 10 35 36 |
| | e | 35 48 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 4 | | |
| PF | iP | 10 35 50 |
| TUC | e | 10 35 51 |
| July 5 | | |
| BC | e | 02 45 09 |
| GC | eP | 02 42 32 |
| | iP | 42 44 |
| | iS | 43 36 |
| PF | e | 02 45 04 |
| SH | iP | 02 43 34 |
| TUC | eP | 02 45 58 |
| July 5 | | |
| BC | iP | 03 13 10.5 |
| | i | 13 12 |
| | iS | 13 40 |
| July 5 | | |
| BC | eL | 10 51 32 |
| PF | e | 10 49 22 |
| | eL | 51 44 |
| TUC | e | 10 48 15 |
| | i | 48 31 |
| | i | 48 36 |
| | eS | 49 11 |
| | i | 49 30 |
| | i | 49 37 |
| | eL | 50 26 |
| July 5 | | |
| BC | iP | 11 16 10 |
| | i(S) | 16 40 |
| PF | iP | 11 16 13 |
| | i | 16 17 |
| | i | 16 29 |
| | e(S) | 16 51.5 |
| July 5 | | |
| BC | iP | 13 17 00 |
| | i | 17 26 |
| | i(S) | 17 37 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 5 | | |
| PF | iP | 13 17 00 |
| | i | 17 01 |
| | e | 17 08 |
| | eS | 17 39 |
| July 5 | | |
| BC | eP | 18 22 03 |
| | i | 22 25.7 |
| | iS | 22 34 |
| July 5 | | |
| BC | eP | 19 42 17 |
| PF | iP | 19 42 21 |
| SH | iP | 19 41 41 |
| TUC | iP | 19 42 40 |
| July 5 | | |
| TUC | eP | 20 07 59 |
| July 6 | | |
| BC | eP | 01 50 58 |
| | e | 51 24 |
| | iS | 51 27 |
| PF | eP | 01 51 01 |
| | e | 51 05 |
| | eS | 51 39 |
| July 6 | | |
| TUC | eP | 03 13 10 |
| July 6 | | |
| BC | iP | 08 18 01 |
| | i | 18 31.4 |
| | iS | 18 34.2 |
| PF | iP | 08 18 02 |
| | i | 18 10 |
| | eS | 18 41.5 |
| July 6 | | |
| SJ | e | 13 14 58 |
| | eL | 15 11 |
| July 6 | | |
| SJ | e | 13 26 24 |
| | eL | 26 44 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 6 | | |
| BC | eP | 17 33 59 |
| | i | 34 03 |
| | iS | 34 29 |
| PF | iP | 17 34 02 |
| | i | 34 08 |
| | eS | 34 40 |
| July 7 | | |
| BC | iP | 05 23 55.5 |
| PF | iP | 05 23 51 |
| TUC | eP | 05 23 11 |
| | e | 23 46 |
| | eL | 34 04 |
| July 7 | | |
| BC | iP | 06 57 01.5 |
| | i | 57 08.5 |
| | i | 57 23.5 |
| | e(S) | 58 42 |
| | i | 58 52.5 |
| BOZ | e | 06 58 01 |
| | eL | 59 44 |
| BUT | e | 06 58 04 |
| | eS | 59 44 |
| | eL | 07 00 15 |
| GC | i | 06 57 33 |
| | e(S) | 59 09 |
| | i | 59 28 |
| OV | eP | 06 56 58 |
| | i | 57 05 |
| | i | 57 27 |
| | eS | 58 45 |
| PHIL | e | 07 12(51) |
| | eL | 14(32) |
| PF | iP | 06 57 04 |
| | i | 57 06 |
| | i | 57 30 |
| | eS | 58 54 |
| | i | 59 04 |
| SLC | e | 06 57 34 |
| | eL | 58 10 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 7 | | |
| TUC | eP | 06 58 09 |
| | i | 58 33 |
| | eS | 07 00 27 |
| | eL | 01 33 |
| UK | eP | 06 55 47 |
| | eL | 56 47 |
| July 7 | | |
| TUC | eL | 07 01 35 |
| July 7 | | |
| BC | eP | 07 32 38 |
| | iP | 32 42 |
| | eS | 33 18 |
| OV | i(P) | 07 32 46 |
| PF | e(P) | 07 32 50 |
| | eS | 33 34 |
| July 7 | | |
| TUC | eL | 08 26 13 |
| July 7 | | |
| LOG | eP | 12 57 37 |
| | iS | 59 17 |
| | iL | 59 41 |
| July 7 | | |
| BC | iP | 20 07 30 |
| PF | iP | 20 07 34 |
| | ipP | 08 27 |
| SH | iP | 20 07 18 |
| | i | 07 25 |
| | ipP | 08 12 |
| TUC | eP | 20 07 36 |
| | epP | 08 26 |
| July 8 | | |
| TUC | eP | 01 41 27 |
| July 8 | | |
| TUC | e | 06 25 04 |
| July 8 | | |
| PF | iP | 10 10 40 |
| SH | iP | 10 11 21 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 8 | | |
| TUC | eP | 10 11 38 |
| | eL | 45 05 |
| July 8 | | |
| HUAN | eP | 14 58 05 |
| | iP | 58 06 |
| | i | 58 17 |
| | eS | 58 56 |
| | eL | 59 10 |
| TUC | iP | 15 05 57.5 |
| | i | 06 05 |
| July 8 | | |
| TUC | iP | 15 14 07 |
| | i | 14 15 |
| | iS | 14 26 |
| | i | 14 31 |
| | iL | 14 51 |
| July 8 | | |
| BC | eP | 18 01 08 |
| HUAN | e | 18 12 11 |
| | eSKS | 14 07 |
| | e | 19 14 |
| | eSS | 32 13 |
| | e | 39 29 |
| | eL | 51 27 |
| OV | eP | 18 01 12 |
| PF | eP | 18 01 11 |
| SLC | eL | 18 31 29 |
| SH | i(P) | 18 01 52.5 |
| | e | 02 00 |
| TUC | eP | 18 01 11 |
| | i | 01 28 |
| | e | 13 03 |
| | eL | 25 21 |
| July 9 | | |
| BER | eSKS | 01 34 02 |
| | e | 40 00 |
| | eSS | 44 40 |
| | e | 49 51 |
| | eL | 02 05 09 |
| BC | eP | 01 20 31.5 |
| | i | 20 36 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 9 | | |
| BOZ | e | 01 23 11 |
| | ePP | 24 39 |
| | eS | 31 41 |
| | e | 33 07 |
| | e | 43 38 |
| | eL | 46 26 |
| BUT | eP | 01 21 16 |
| | e | 25 21 |
| | eS | 31 39 |
| | e | 31 53 |
| | e | 36 47 |
| | e | 40 43 |
| | eL | 44 16 |
| CHI | eSKS | 01 32 48 |
| | eS | 34 01 |
| | ePS | 35 21 |
| | eSS | 41 01 |
| | eL | 51 22 |
| COL | eP | 01 21 15 |
| | ePP | 24 36 |
| | eS | 32 01 |
| | eSS | 37 43 |
| | eL | 44 41 |
| COLU | eL | 02 02 39 |
| GC | eP | 01 20 57 |
| HONO | eP | 01 16 41 |
| | eS | 23 29 |
| | eL | 27 12 |

$T_S$ = 16 sec. A = 1.6 mm.
$T_L$ = 12 sec. $A_{max.}$ = 2.6mm.

| | | |
|---|---|---|
| HUAN | eP | 01 21 42 |
| | ePP | 25 24 |
| | eSKS | 32 17 |
| | eSS | 39 20 |
| | eL | 46 19 |
| LIN | eL | 01 58 54 |
| LOG | eP | 01 21 03 |
| | ePP | 24 51 |
| | eS | 31 27 |
| | eL | 47 52 |
| OV | eP | 01 20 37 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 9 | | |
| PHIL | e | 01 32 55 |
| | eS | 35 26 |
| | ePS | 37 18 |
| | eSS | 42 50 |
| | e | 47 08 |
| | eL | 57 28 |
| PF | eP | 01 20 35 |
| RC | eSKS | 01 32 07 |
| | e | 32 44 |
| | e | 39 12 |
| | eL | 49 26 |
| SLC | eP | 01 20 56 |
| | ePP | 24 14 |
| | eS | 31 25 |
| | e | 31 45 |
| | eSS | 37 01 |
| | eL | 43 41 |
| SH | iP | 01 20 21.5 |
| SIT | eP | 01 20 56 |
| | e | 21 32 |
| | e | 25 39 |
| | eS | 31 23 |
| | eSS | 37 09 |
| | eL | 44 05 |
| TUC | eP | 01 20 36 |
| | iP | 20 38 |
| | e | 21 31 |
| | ePP | 23 56 |
| | eS | 30 54 |
| | e | 32 13 |
| | eSS | 36 31 |
| | eSSS | 40 04 |
| | eL | 44 56 |
| UK | e(P) | 01 20 17 |
| | eS | 30 08 |
| | eSS | 35 08 |
| | eL | 40 10 |
| July 9 | | |
| BC | iP | 03 19 43 |
| | iS | 20 26 |
| OV | i(P) | 03 19 51 |
| | eS | 20 29 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 9 | | |
| PF | iP | 03 19 53 |
| | i | 20 02 |
| | i | 20 40 |
| | e(S) | 20 47 |
| July 9 | | |
| TUC | iP | 09 25 11 |
| July 9 | | |
| TUC | e | 10 06 10 |
| | e | 07 31 |
| | e | 07 47 |
| July 9 | | |
| BC | iP | 10 11 42 |
| | ipP | 12 00 |
| OV | eP | 10 11 42 |
| PF | iP | 10 11 44 |
| | ipP | 12 04 |
| TUC | iP | 10 12 12 |
| | ipP | 12 31.5 |
| July 9 | | |
| OV | eP | 12 05 21 |
| PF | iP | 12 05 27 |
| TUC | iP | 12 05 56 |
| | e | 06 45 |
| July 9 | | |
| BER | ePP | 13 34 56 |
| | i | 36 07 |
| | e | 43 02 |
| | eSS | 53 18 |
| | eL | 14 12 13 |
| BC | iP | 13 26 36 |
| | i | 26 50 |
| | iS | 36 53 |
| | i | 37 22 |
| BOZ | eP | 13 27 03 |
| | epP | 28 06 |
| | ePP | 30 50 |
| | eSKS | 37 23 |
| | e | 38 13 |
| | e | 38 46 |
| | ePS | 39 31 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BOZ | e | 13 43 56 |
| | eL | 53 41 |
| BUT | eP | 13 27 09 |
| | e | 29 30 |
| | ePP | 30 58 |
| | eS | 37 19 |
| | iS | 38 03 |
| | ePS | 39 23 |
| | eSS | 44 19 |
| | eL | 53 12 |
| CHI | eP' | 13 32 51 |
| | eSKS | 38 32 |
| | e | 39 36 |
| | e | 40 24 |
| | ePS | 42 25 |
| | eSS | 48 18 |
| | eL | 14 02 10 |
| COL | eP | 13 26 34 |
| | e | 29 26 |
| | eS | 36 49 |
| | e | 37 09 |
| | e | 37 10 |
| | e | 38 01 |
| | eSS | 42 53 |
| | eL | 49 45 |
| COLU | ePP | 13 33 22 |
| | e | 38 50 |
| | ePS | 43 09 |
| | eL | 50 28 |
| GC | iP | 13 26 45 |
| | i | 30 27 |
| | eSKS | 36 59 |
| HONO | e(P) | 13 22 43 |
| | eS | 29 44 |
| | isS | 31 05 |
| | iScS | 32 21 |
| | eL | 34 51 |

$T_P$ = 2 sec. A = 1.7 mm.
$T_S$ = 7 sec. A = 1.8 mm.
$T_{sS}$ = 10 sec. $A_{max.}$ = 5.7mm.

| | | |
|---|---|---|
| HUAN | e | 13 30 40 |
| | iPP | 32 37 |
| | e | 34 49 |
| | eSKKS | 38 26 |
| | e | 39 20 |

| Date and Station | Phase | (GCT) |
|---|---|---|
| | | h m s |
| HUAN | e | 13 41 50 |
| | e | 43 59 |
| | eSS | 47 46 |
| | eSSS | 51 47 |
| | eL | 59 46 |
| LIN | e | 13 32 04 |
| | e | 41 24 |
| | e | 47 05 |
| | eL | 14 05 43 |
| LOG | eP | 13 26 58 |
| | iPP | 30 46 |
| | iSKS | 37 17 |
| | iS | 37 56 |
| | eL | 54 07 |
| OV | iP | 13 26 38.3 |
| | i | 26 41 |
| | iSKS | 36 55 |
| | i | 37 25 |
| PHIL | eP' | 13 32 39 |
| | iPP | 34 12 |
| | eSKS | 39 18 |
| | iSKS | 39 20 |
| | e | 40 43 |
| | ePS | 43 55 |
| | eSS | 50 46 |
| | e | 53 44 |
| | eL | 14 01 52 |
| PF | iP | 13 26 39 |
| | i | 36 56 |
| RC | e | 13 28 29 |
| | e | 30 54 |
| | iPP | 31 36 |
| | iSKS | 37 49 |
| | e | 38 26 |
| | ePS | 41 21 |
| | e(SS) | 47 19 |
| | eL | 56 58 |
| SLC | e | 13 26 53 |
| | e | 27 18 |
| | ePP | 30 41 |
| | eSKS | 37 15 |
| | e | 38 11 |
| | eSS | 44 04 |
| | eL | 51 40 |

| Date and Station | Phase | (GCT) |
|---|---|---|
| | | h m s |
| SIT | iP | 13 26 27 |
| | e | 27 15 |
| | ePP | 30 00 |
| | eS | 36 43 |
| | iS | 37 01 |
| | e | 38 10 |
| | e | 39 11 |
| | eSS | 43 02 |
| | e | 49 50 |
| TUC | iP | 13 26 44 |
| | ipP | 27 30 |
| | i | 27 31 |
| | iPP | 30 25 |
| | e | 31 17 |
| | ePPP | 32 32 |
| | e | 33 34 |
| | eS | 37 00 |
| | e | 38 17 |
| | ePS | 38 58 |
| | ePPS | 39 57 |
| | eSS | 44 00 |
| | eL | 51 04 |
| | eP'P' | 52 10 |
| UK | eP | 13 26 14 |
| | ePP | 29 20 |
| | eS | 36 23 |
| | eSS | 42 10 |
| | eL | 48 22 |
| July 9 | | |
| HUAN | iP | 15 32 33 |
| | i | 32 44 |
| July 9 | | |
| PF | iP | 23 59 33 |
| TUC | e | 23 59 58 |
| | eL | 00 25 54 |
| July 10 | | |
| BC | eP | 03 37 28 |
| PF | iP | 03 37 29 |
| TUC | iP | 03 38 07 |
| | e | 38 18 |
| July 10 | | |
| PF | iP | 10 57 07 |
| TUC | e | 10 57 32 |

| Date and Station | Phase | (GCT) |
|---|---|---|
| | | h m s |
| July 10 | | |
| BC | eP | 17 11 39 |
| | e | 11 47 |
| PF | eP | 17 11 38 |
| | iP | 11 47 |
| TUC | iP | 17 12 14 |
| | e | 14 36 |
| | e | 27 20 |
| | e | 27 21 |
| | eL | 37 38 |
| July 10 | | |
| HUAN | e | 19 33 31 |
| | e | 33 55 |
| July 10 | | |
| TUC | i | 20 25 12 |
| July 10 | | |
| TUC | e | 22 25 15 |
| July 11 | | |
| BC | e | 01 08 32 |
| PF | e | 01 08 32 |
| TUC | eP | 01 08 58 |
| | e | 09 20 |
| | e | 11 54 |
| July 11 | | |
| PF | iP | 01 19 19 |
| SH | iP | 01 18 33 |
| TUC | e | 01 19 40 |
| July 11 | | |
| BH | e(P) | 04 50 41 |
| BER | eP | 04 52 50 |
| | i | 53 15 |
| | ipP | 53 41 |
| | eS | 58 44 |
| | eL | 05 00 32 |

$T_P$ = 5 sec. A = 0.6 mm.
$T_S$ = 10 sec. A = 1.3 mm.
$T_{Lmax.}$ = 16 sec. A = 3.6 mm.

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| BC | iP | 04 52 08.5 |
| | i | 52 37 |
| | eS | 56 48 |
| | eL | 05 00 27 |
| BOZ | iP | 04 52 59 |
| | i | 53 26 |
| | ePP | 54 10 |
| | e | 54 51 |
| | iS | 58 00 |
| | i | 58 50 |
| | eL | 05 00 41 |
| BUT | iP | 04 53 07 |
| | i | 53 36 |
| | iPP | 54 24 |
| | eS | 58 07 |
| | iS | 58 13 |
| | eL | 05 02 25 |
| CHI | iP | 04 51 58 |
| | ipP | 52 27 |
| | i | 52 42 |
| | e(S) | 56 07 |
| | iS | 56 12 |
| | iL | 57 03 |
| COL | eP | 04 57 03 |
| | ePP | 59 12 |
| | eS | 05 04 30 |
| | e | 08 36 |
| | eL | 09 31 |
| COLU | eP | 04 51 11 |
| | e | 51 43 |
| | e | 54 39 |
| | eL | 55 58 |
| GC | iP | 04 53 41 |
| | ipP | 54 09 |
| | iS | 59 16 |
| | esS | 05 00 04 |
| HONO | eS | 05 04 43 |
| | eSS | 09 19 |
| | eL | 12 07 |

$T_S$ = 11 sec. $A_{max.}$ = 2.2 mm.
$T_L$ = 26 sec. A = 1.5 mm.

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| HUAN | iP | 04 53 23 |
| | i | 54 04 |
| | e | 57 51 |
| | eS | 58 42 |
| | eL | 59 32 |
| LIN | eP | 04 51 46 |
| | eS | 55 51 |
| | iL | 56 25 |
| LOG | iP | 04 52 34 |
| | i | 53 01 |
| | i | 53 50 |
| | iS | 57 09 |
| | i | 57 45 |
| | iL | 58 02 |
| NK | e(P) | 04 52 18 |
| | ipP | 52 49 |
| | e | 54 32 |
| | eS | 56 57 |
| | i | 57 31 |
| | eL | 05 00 25 |
| OV | iP | 04 52 10 |
| | i | 52 35 |
| PHIL | iP | 04 52 35 |
| | e | 52 51 |
| | iPP | 53 16 |
| | e | 54 05 |
| | iS | 57 10 |
| | iL | 58 07 |
| PF | eP | 04 52 05 |
| | iP | 52 07 |
| | i | 52 33 |
| | eS | 56 42 |
| | eL | 05 00 15 |
| RC | eP | 04 52 26 |
| | iP | 52 27 |
| | i | 52 59 |
| | i | 55 51 |
| | iS | 56 58 |
| | iL | 57 49 |
| SLC | eP | 04 52 26 |
| | i | 52 54 |
| | i | 52 55 |
| | i | 53 43 |
| | iS | 57 01 |
| | eL | 58 09 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| SH | eP | 04 53 24 |
| | i | 54 50 |
| | eS | 58 38 |
| | eL | 05 00 55 |
| SIT | iP | 04 55 31 |
| | i | 55 52 |
| | ePPP | 58 27 |
| | iS | 05 02 40 |
| | i | 03 30 |
| | iScS | 05 08 |
| | e | 06 30 |
| | eL | 07 51 |
| TUC | iP | 04 51 23 |
| | ipP | 52 19 |
| | i | 53 16 |
| | iS | 55 14 |
| | isS | 56 37 |
| | iL | 57 25 |
| UK | e | 04 53 14 |
| | e | 53 36 |
| | eS | 58 24 |
| | e | 59 19 |
| | eL | 05 00 00 |
| BC | eP | 13 25 16.6 |
| | i | 25 21 |
| | e(L) | 25 50 |
| PF | iP | 13 25 21 |
| | e | 25 27 |
| | e(L) | 26 01 |
| July 11 | | |
| TUC | eP | 16 19 40 |
| | e | 20 22 |
| July 12 | | |
| BC | iP | 02 46 38 |
| HUAN | eP | 02 38 56 |
| PF | iP | 02 46 36 |
| TUC | iP | 02 46 10 |
| July 12 | | |
| PF | eP | 04 01 25 |
| | iP | 01 30 |
| | e(L) | 03 15 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| TUC | eP | 04 00 56 |
| | i | 01 10 |
| | i | 01 15 |
| | i(S) | 01 41 |
| | i | 01 51 |
| | i | 01 59 |
| | iL | 02 02 |
| July 12 | | |
| BC | eP | 05 17 15 |
| | e(L) | 24 12 |
| PF | eP | 05 17 12 |
| | e(L) | 24 00 |
| RC | eL | 05 26 29 |
| SLC | eL | 05 25 45 |
| TUC | eP | 05 16 22 |
| | e | 16 51 |
| | e(S) | 19 26 |
| | eL | 21 03 |
| July 12 | | |
| HUAN | eL | 07 46 35 |
| July 12 | | |
| PF | eP | 15 00 28.5 |
| | iP | 00 33 |
| | e(L) | 02 13 |
| TUC | eP | 15 00 00 |
| | i | 00 15.5 |
| | i | 00 26 |
| | i(S) | 00 52.5 |
| | i | 01 08.5 |
| | iL | 01 57 |
| July 12 | | |
| BC | eP | 19 01 37 |
| | e | 01 49 |
| PF | eP | 19 01 36 |
| | i | 01 52.5 |
| SH | eP | 19 01 13 |
| July 12 | | |
| BH | iP | 20 05 03 |
| | iS | 05 11 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| July 12 | | |
| BC | iP | 22 04 05 |
| | i | 04 22 |
| | i | 09 42 |
| | iS | 10 15 |
| | iScS | 13 57 |
| BOZ | e | 22 04 44 |
| | eS | 09 16 |
| | eL | 12 11 |
| BUT | e | 22 09 04 |
| | eL | 13 28 |
| CHI | e | 22 05 38 |
| | eS | 13 00 |
| | eScS | 15 18 |
| | eSS | 16 46 |
| | eL | 18 15 |
| COL | eP | 21 59 53 |
| | eS | 22 03 02 |
| COLU | eL | 22 39 54 |
| GC | eP | 22 02 41 |
| | e(S) | 07 48 |
| | iL | 13 05 |
| HONO | eL | 22 10 22 |
| PHIL | eP | 22 06 42 |
| | e | 07 35 |
| | e | 09 07 |
| | eS | 14 58 |
| | e | 15 36 |
| | eSS | 19 00 |
| | eL | 22 01 |
| PF | iP | 22 04 09 |
| | iS | 10 22 |
| | i | 13 03 |
| SLC | eS | 22 09 52 |
| | e | 13 09 |
| | eL | 16 04 |
| SH | iP | 22 03 02 |
| | i | 03 35 |
| | iPP | 04 17 |
| | i(S) | 08 20 |
| | iL | 13 13 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| SIT | iP | 22 00 51 |
| | i | 01 19 |
| | iS | 04 31 |
| | eL | 07 13 |
| TUC | iP | 22 04 44.5 |
| | i | 04 56.5 |
| | ipP | 05 14 |
| | i | 05 31 |
| | ePP | 06 29 |
| | eS | 11 27 |
| | eSS | 14 31 |
| July 12 | | |
| BH | iP | 23 30 18 |
| | i | 31 07 |
| BER | eL | 23 42 26 |
| BC | iP | 23 37 03.5 |
| CHI | e | 23 37 09 |
| | eL | 40 43 |
| HUAN | iP | 23 33 32 |
| | e | 34 27 |
| | e | 36 46 |
| | e(S) | 37 10 |
| | eL | 38 17 |
| PHIL | eP | 23 36 10 |
| | e | 37 19 |
| | eS | 42 46 |
| | eL | 45 00 |
| PF | iP | 23 37 00 |
| | e(S) | 43 38 |
| SLC | e | 23 43 51 |
| | e | 47 33 |
| | eL | 52 14 |
| SH | iP | 23 38 00 |
| SIT | eL | 00 05 00 |
| TUC | iP | 23 36 22.5 |
| | e | 37 49 |
| | e | 42 17 |
| | eL | 47 50 |
| July 13 | | |
| BC | eP | 01 52 19 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | e | 01 59 26 |
| PF | eP | 01 52 19 |
| SH | eP | 01 51 35 |
| TUC | eP | 01 52 41 |
| | e | 56 07 |
| July 13 | | |
| PF | e | 05 03 12 |
| July 13 | | |
| TUC | eP | 10 43 40 |
| July 13 | | |
| BC | eP | 12 01 17 |
| | iP | 01 23 |
| | e(L) | 01 58 |
| PF | iP | 12 01 34.5 |
| | e(L) | 02 17 |
| July 14 | | |
| TUC | eP | 05 03 39 |
| July 14 | | |
| TUC | eP | 17 25 04 |
| July 14 | | |
| BC | eP | 23 11 33 |
| | eS | 12 23 |
| PF | iP | 23 11 38 |
| | iS | 12 37 |
| July 15 | | |
| SJ | e | 00 14 57 |
| | eS | 15 45 |
| | eL | 15 46 |
| July 15 | | |
| BC | e(P) | 02 03 47 |
| TUC | e | 02 02 49 |
| | e | 03 08 |
| July 15 | | |
| BC | eP | 09 15 52 |
| PF | iP | 09 15 54 |
| TUC | iP | 09 15 58.5 |
| July 15 | | |
| PF | eP | 16 29 35 |
| TUC | iP | 16 29 36 |
| July 15 | | |
| BC | iP | 18 39 43 |
| | i | 39 54.5 |
| PHIL | e | 18 46 48 |
| | eL | 50 27 |
| PF | iP | 18 39 39 |
| SH | iP | 18 40 45 |
| | i | 42 55 |
| TUC | eP | 18 39 00 |
| | e | 39 14 |
| | eL | 49 02 |
| July 15 | | |
| TUC | eP | 22 11 17 |
| July 16 | | |
| BH | e | 00 13 06 |
| | e | 13 58 |
| July 16 | | |
| TUC | eP | 03 45 40 |
| | e | 46 13 |
| July 16 | | |
| SJ | iP | 04 39 04 |
| | i | 39 12 |
| | iS | 39 29 |
| | iL | 39 43 |
| July 16 | | |
| BER | eP | 05 28 06 |
| | e(S) | 47 26 |
| | eL | 06 00 52 |
| BOZ | eS | 05 50 10 |
| | e | 55 40 |
| | eL | 06 09 16 |
| BUT | e(P) | 05 43 27 |
| | eSKS | 50 17 |
| | e | 50 41 |
| | eSSS | 06 00 38 |
| | eL | 10 44 |
| CHI | eS | 05 49 14 |
| | e | 49 28 |
| | eL | 06 04 21 |
| COL | eS | 05 48 51 |
| | eL | 06 09 39 |
| GC | eP | 05 39 43 |
| | e | 51 33 |
| HUAN | eSSS | 06 03 43 |
| | eL | 19 25 |
| PHIL | e | 05 42 50 |
| | eS | 48 06 |
| | eSS | 52 28 |
| | eL | 06 00 44 |
| PF | eP | 05 40 19 |
| | ePP | 44 23 |
| SLC | e | 05 50 35 |
| | eL | 06 14 02 |
| SIT | eP | 05 39 22 |
| | ePP | 42 46 |
| | eS | 49 56 |
| | e | 51 11 |
| | e | 54 31 |
| | eL | 06 03 42 |
| TUC | eP | 05 40 28 |
| | e | 40 41 |
| | ePP | 44 29 |
| | e | 45 17 |
| | eSKS | 51 08 |
| | e | 53 56 |
| | eL | 06 15 29 |
| July 16 | | |
| BC | iP | 20 26 03 |
| | i | 26 08 |
| GC | iP | 20 26 58 |
| | i | 27 17 |
| HUAN | iP | 20 17 59 |
| | eS | 20 39 |
| | eL | 21 10 |
| MONT | iP | 20 15 24 |
| | i(S) | 16 00 |
| | eL | 16 08 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| OV | iP | 20 26 05 |
| | e | 35 28 |
| PF | iP | 20 26 01 |
| | e | 26 52 |
| | e | 35 21 |
| SH | iP | 20 26 42 |
| | i | 27 33 |
| TUC | iP | 20 25 34 |
| | i | 25 53 |
| July 17 | | |
| HUAN | eL | 01 47 18 |
| PHIL | eL | 01 53 09 |
| July 17 | | |
| BC | iP | 05 12 46 |
| PF | iP | 05 12 49 |
| SH | eP | 05 11 38 |
| TUC | iP | 05 13 28 |
| | e | 14 12 |
| July 17 | | |
| BC | eP | 10 39 44 |
| | i | 39 56 |
| | e(S) | 48 16 |
| | e | 48 31 |
| BUT | eL | 10 53 20 |
| OV | eP | 10 39 47 |
| | i(S) | 48 49 |
| PHIL | e | 10 46 09 |
| | eL | 50 32 |
| PF | eP | 10 39 39 |
| | e(S) | 47 59 |
| | e | 48 25 |
| SLC | eL | 10 49 38 |
| TUC | eP | 10 38 56 |
| | e | 39 29 |
| | i | 39 37 |
| | e(S) | 43 15 |
| | e | 43 40 |
| | eL | 44 32 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| UK | eL | 10 51 30 |
| July 17 | | |
| BC | e | 13 45 58 |
| PF | eP | 13 45 56 |
| TUC | eP | 13 45 08 |
| | e | 45 14 |
| | e | 45 42 |
| | eS | 48 39 |
| | eL | 51 44 |
| July 17 | | |
| PF | iP | 16 38 48.5 |
| | i | 38 57 |
| | eS | 39 34 |
| July 17 | | |
| SH | eP | 17 29 53 |
| July 17 | | |
| SH | e | 19 09 27 |
| July 18 | | |
| OV | eP | 05 02 17 |
| | i | 02 23 |
| | e(S) | 03 25 |
| PF | iP | 05 02 56.5 |
| | e(S) | 03 35 |
| SH | e | 05 05 05 |
| TUC | eP | 05 03 44 |
| | e | 04 09 |
| | i(L) | 05 31 |
| July 18 | | |
| BER | e | 06 18 02 |
| | e | 21 08 |
| | e | 23 09 |
| | eS | 27 19 |
| | eL | 31 16 |
| $T_S$ = 12 sec. A = 0.7 mm. | | |
| $T_{Lmax.}$ = 16 sec. A = 26 mm. | | |
| BC | iP | 06 11 04 |
| | i | 11 33.5 |
| | e | 14 05 |
| BOZ | eP | 06 10 05 |
| | e | 10 52 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BOZ | e | 06 11 52 |
| | e(S) | 12 36 |
| | e | 13 03 |
| | eL | 13 30 |
| BUT | eP | 06 09 55 |
| | e | 10 29 |
| | eS | 12 22 |
| | eL | 13 10 |
| CHI | eP | 06 13 09 |
| | ePP | 13 59 |
| | e(S) | 17 13 |
| | eS | 17 33 |
| | eL | 18 03 |
| COL | eP | 06 11 14 |
| | e | 11 50 |
| | eS | 14 47 |
| | iS | 14 52 |
| | eL | 16 05 |
| COLU | e | 06 14 29 |
| | e | 15 42 |
| | eS | 20 27 |
| | eL | 23 35 |
| GC | eP | 06 08 45 |
| | iP | 08 48.4 |
| | eS | 10 09 |
| HONO | e | 06 19 44 |
| | e | 19 46 |
| | eL | 21 32 |
| HUAN | eP | 06 19 02 |
| | e | 28 56 |
| | eL | 40 17 |
| LIN | eP | 06 12 23 |
| | e | 12 59 |
| | e(S) | 16 46 |
| | eL | 18 29 |
| LOG | iP | 06 10 32 |
| | i | 11 58 |
| | eS | 13 28 |
| | iS | 13 32 |
| | eL | 14 49 |
| NK | e | 06 14 06 |
| | e | 15 16 |
| | eS | 19 50 |
| | eL | 23 34 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| OV | iP | 06 11 02 |
| PHIL | e | 06 14 28 |
| | e | 14 42 |
| | iPP | 16 00 |
| | eS | 20 25 |
| | iS | 20 37 |
| | eL | 24 25 |
| PF | iP | 06 11 08 |
| | i | 13 16 |
| | eS | 14 25 |
| RC | iP | 06 11 25 |
| | i | 12 45 |
| | iS | 15 07 |
| | eL | 16 44 |
| SLC | eP | 06 10 38 |
| | e | 10 43 |
| | e | 11 08 |
| | iS | 13 44 |
| | eL | 14 25 |
| SH | iP | 06 09 29.6 |
| | e | 10 29 |
| SIT | iP | 06 08 55 |
| | i | 09 26 |
| | iS | 10 36 |
| | iL | 10 48 |
| TUC | iP | 06 12 00 |
| | iPP | 12 49 |
| | iS | 16 14 |
| | eL | 17 43 |
| UK | iP | 06 09 44 |
| | iL | 12 00 |
| July 18 | | |
| PF | e | 06 54 48 |
| TUC | eP | 06 55 36 |
| July 18 | | |
| BER | e | 07 32 50 |
| | e | 36 37 |
| | eL | 40 28 |

$T_{Lmax.}$ = 16 sec. A = 26 mm.

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BC | eP | 07 20 34 |
| | e | 20 57 |
| | eS | 23 57 |
| BOZ | eP | 07 19 40 |
| | e | 22 42 |
| | eL | 23 18 |
| BUT | e | 07 19 31 |
| | eL | 22 39 |
| CHI | e | 07 22 49 |
| | e | 23 22 |
| | e | 26 02 |
| | eL | 26 58 |
| COL | eP | 07 20 43 |
| | iP | 20 48 |
| | e | 21 18 |
| | eS | 24 12 |
| | iS | 24 22 |
| | iL | 25 41 |
| COLU | e | 07 29 53 |
| | eL | 33 15 |
| GC | eP | 07 18 15 |
| | iP | 18 18 |
| | e | 19 24 |
| | eS | 19 44 |
| | e | 20 29 |
| HONO | eL | 07 31 02 |
| HUAN | eP | 07 28 28 |
| | e | 32 08 |
| | eL | 47 00 |
| LIN | eP | 07 22 02 |
| | e | 22 21 |
| | eS | 26 26 |
| | eL | 28 49 |
| NK | e | 07 23 34 |
| | e | 24 47 |
| | eS | 29 09 |
| | eL | 32 24 |
| LOG | iP | 07 20 05 |
| | i | 21 05 |
| | iS | 23 02 |
| | eL | 23 51 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PHIL | e | 07 24 05 |
| | ePP | 25 24 |
| | e(S) | 29 39 |
| | eL | 33 01 |
| PF | iP | 07 20 36 |
| | i | 24 18 |
| | e(S) | 27 51 |
| | i | 34 44 |
| RC | eP | 07 20 53 |
| | i | 20 57 |
| | i | 21 40 |
| | iS | 24 34 |
| | eL | 26 11 |
| SLC | eP | 07 20 12 |
| | e | 20 39 |
| | iS | 23 15 |
| | eL | 24 09 |
| SH | eP | 07 18 57 |
| | e | 21 07 |
| SIT | eP | 07 18 25 |
| | iS | 20 05 |
| | iL | 20 40 |
| TUC | eP | 07 21 27 |
| | iP | 21 29 |
| | i | 22 07 |
| | iS | 25 47 |
| | eL | 27 02 |
| UK | eP | 07 19 11 |
| | iL | 21 26 |
| July 18 | | |
| PF | iP | 07 24 20 |
| SH | iP | 07 22 37.5 |
| TUC | iP | 07 25 09 |
| | i(S) | 29 26 |
| July 18 | | |
| PF | i | 07 34 45 |
| TUC | eP | 07 35 34 |
| July 18 | | |
| BC | iP | 11 58 45 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| HUAN | e | 11 49 41 |
| | e | 51 44 |
| PF | i(P) | 11 58 42 |
| | i | 58 56 |
| TUC | eP | 11 58 12 |
| July 18 | | |
| BOZ | e(S) | 14 33 21 |
| | eL | 34 08 |
| BUT | e | 14 31 38 |
| | eS | 33 39 |
| | eL | 34 12 |
| CHI | e | 14 37 28 |
| | eL | 39 36 |
| COLU | eL | 14 43 01 |
| GC | eP | 14 31 45 |
| | e | 34 53 |
| LIN | eL | 14 36 57 |
| LOG | iP | 14 29 59 |
| | i | 30 30 |
| | i | 30 53 |
| | iL | 32 11 |
| NK | eL | 14 43 34 |
| PHIL | e | 14 41 52 |
| | eL | 44 24 |
| RC | eP | 14 31 17 |
| | eS | 35 08 |
| | eL | 35 51 |
| SLC | e | 14 29 43 |
| | e | 29 57 |
| | e | 30 20 |
| | eS | 30 28 |
| | eL | 30 39 |
| SH | iP | 14 29 53 |
| | i | 30 18 |
| | i | 30 41 |
| | e(L) | 31 47 |
| SIT | e | 14 41 05 |
| | eL | 42 18 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| UK | e | 14 31 40 |
| | eL | 32 41 |
| July 18 | | |
| BC | eP | 15 25 12 |
| PF | eP | 15 25 14 |
| SH | iP | 15 24 37.5 |
| TUC | eP | 15 25 33 |
| July 18 | | |
| BC | e | 16 10 22 |
| BUT | eL | 16 13 07 |
| GC | iP | 16 08 02 |
| PHIL | e | 16 25 40 |
| | eL | 27 01 |
| PF | iP | 16 10 20.5 |
| SH | eP | 16 08 43 |
| SIT | eL | 16 10 19 |
| TUC | iP | 16 11 13 |
| | i | 11 23 |
| | i | 12 13 |
| | eL | 20 02 |
| UK | eL | 16 12 20 |
| July 18 | | |
| TUC | eP | 19 40 39 |
| | e | 42 30 |
| July 18 | | |
| PF | iP | 23 49 26.5 |
| SH | eP | 23 48 50 |
| July 19 | | |
| TUC | e | 08 40 34 |
| July 19 | | |
| TUC | eP | 11 23 25 |
| | e | 26 16 |
| July 19 | | |
| BC | eP | 21 28 01 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| COL | eS | 21 31 58 |
| | eL | 39 57 |
| GC | eP | 21 27 20 |
| | eS | 36 16 |
| HUAN | eL | 22 19 15 |
| PHIL | eSKS | 21 40 06 |
| | e(S) | 40 44 |
| | e | 45 46 |
| | e | 47 40 |
| | eL | 53 08 |
| SH | iP | 21 27 20 |
| | i | 27 28 |
| SIT | e | 21 26 13 |
| | eS | 33 42 |
| | e | 35 32 |
| | e | 37 43 |
| | eL | 43 16 |
| TUC | eP | 21 28 30 |
| | i | 28 38 |
| | i | 29 29 |
| | i | 29 43.5 |
| | ePP | 31 46 |
| | eS | 38 53 |
| | eL | 57 00 |
| UK | e(S) | 21 36 45 |
| | eL | 46 00 |
| July 20 | | |
| TUC | eP | 06 09 08 |
| | e | 10 04 |
| July 20 | | |
| TUC | e | 10 25 26 |
| July 20 | | |
| TUC | e | 14 55 22 |
| July 20 | | |
| SJ | e | 17 20 57 |
| | e(S) | 21 11 |
| | eL | 21 20 |
| July 21 | | |
| TUC | e | 04 58 24 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| July 21 | | |
| TUC | eP | 07 36 12 |
| | e | 37 41 |
| July 21 | | |
| HUAN | eL | 09 08 56 |
| July 21 | | |
| BC | e | 11 29 30 |
| TUC | iP | 11 26 34 |
| | i | 26 50 |
| | i | 26 57 |
| | i(S) | 27 24 |
| | i | 27 35 |
| | i | 27 47 |
| | iL | 28 24 |
| July 21 | | |
| BC | eP | 19 34 03 |
| PF | eP | 19 34 04 |
| TUC | iP | 19 34 06.5 |
| | e | 37 47 |
| July 21 | | |
| TUC | eP | 20 37 21 |
| July 21 | | |
| PF | iP | 22 56 24.5 |
| | e(S) | 57 15 |
| July 22 | | |
| PF | iP | 05 20 23.8 |
| | i | 20 31.7 |
| | i | 20 32.4 |
| | i(S) | 21 14.5 |
| July 22 | | |
| BC | iP | 10 25 29 |
| PF | iP | 10 26 31.5 |
| TUC | iP | 10 25 33.5 |
| | e | 27 08 |
| July 22 | | |
| OV | eP | 15 20 20.5 |
| | iP | 20 23 |
| | i | 20 28.5 |
| | e(L) | 21 05 |
| TUC | eP | 15 21 15 |
| | e | 21 57 |
| | eS | 22 24 |
| | e | 22 56 |
| | i | 23 10.5 |
| | iL | 23 33 |
| July 22 | | |
| TUC | eL | 20 11 04 |
| July 22 | | |
| TUC | iP | 22 29 50 |
| July 23 | | |
| TUC | eP | 06 47 38 |
| | e | 52 13 |
| July 23 | | |
| TUC | iP | 07 36 25.5 |
| July 23 | | |
| OV | eP | 11 26 48 |
| | iP | 26 54 |
| | e(S) | 27 34 |
| PF | eP | 11 26 49 |
| | iP | 26 53 |
| | i | 26 59 |
| | e(S) | 27 39 |
| July 23 | | |
| HUAN | eL | 14 31 33 |
| July 23 | | |
| BC | iP | 17 27 22.5 |
| | i | 30 58 |
| CHI | eL | 18 10 06 |
| GC | eP | 17 27 19 |
| | e | 43 44 |
| HONO | eL | 17 52 02 |
| PHIL | ePS | 17 44 53 |
| | e | 49 14 |
| | eSSS | 55 50 |
| | eL | 18 03 22 |
| PF | iP | 17 27 26 |
| | i | 30 02 |
| SH | iP | 17 27 00.5 |
| | e | 30 02 |
| SIT | eS | 17 37 15 |
| | i | 41 37 |
| | e | 45 06 |
| | eL | 47 26 |
| TUC | eP | 17 27 35 |
| | i | 27 43 |
| | e | 28 12 |
| | ePP | 31 19 |
| | ePS | 40 14 |
| | eL | 56 50 |
| July 23 | | |
| BC | iP | 17 45 08 |
| | i | 45 14 |
| COL | eP | 17 41 08 |
| | e | 44 06 |
| | eL | 44 53 |
| PF | iP | 17 45 11 |
| | e | 51 12 |
| SH | iP | 17 44 03 |
| | e | 45 02 |
| TUC | iP | 17 45 49 |
| | e | 46 33 |
| | e | 52 19 |
| July 24 | | |
| BC | iP | 00 20 22.5 |
| | i(S) | 21 17 |
| PF | iP | 00 20 15.5 |
| | i | 20 28 |
| | e | 21 25 |
| TUC | eL | 00 23 11 |
| | e | 23 32 |
| July 24 | | |
| BC | e | 10 43 05 |
| PF | e | 10 43 07 |
| TUC | eP | 10 43 07 |
| | e | 44 21 |
| July 24 | | |
| BC | iP | 11 13 19 |
| | i | 13 41 |
| | i | 13 57 |
| | iPP | 17 15.5 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HONO | eL | 11 23 45 |
| HUAN | e | 11 19 14 |
| PHIL | ePS | 11 30 43 |
| | eSS | 38 00 |
| | eL | 50 23 |
| PF | iP | 11 13 24 |
| | i | 13 51 |
| SH | eP | 11 12 56 |
| | e | 16 20 |
| TUC | eP | 11 13 37 |
| | e | 14 18 |
| | ePP | 17 44 |
| | eL | 43 40 |
| July 24 HUAN | iP | 14 00 00 |
| July 24 TUC | eP | 17 23 19 |
| July 24 BC | eP | 19 39 06 |
| PF | iP | 19 39 05 |
| TUC | iP | 19 39 07 |
| July 24 BC | iP | 21 46 43 |
| PF | iP | 21 46 47.3 |
| July 25 HUAN | eL | 01 40 07 |
| July 25 BC | eP | 05 12 51 |
| OV | e | 05 13 08 |
| July 25 TUC | e | 14 28 49 |
| July 25 BER | e | 16 54 12 |
| | e | 57 32 |
| | eS | 17 04 09 |
| | eSS | 08 56 |
| | eL | 14 13 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BC | iP | 16 50 45 |
| | i | 50 52.5 |
| | eS | 57 35 |
| BOZ | eP | 16 50 15 |
| | ePP | 51 30 |
| | eS | 56 42 |
| | e | 57 29 |
| | eL | 17 00 11 |
| BUT | e | 16 50 12 |
| | e | 52 32 |
| | eS | 56 35 |
| | eL | 17 01 22 |
| CHI | eP | 16 52 13 |
| | eS | 17 00 16 |
| | e | 00 23 |
| | eScS | 02 04 |
| | e | 04 20 |
| | eL | 06 17 |
| COL | e | 16 46 59 |
| | eS | 50 52 |
| | eL | 51 11 |
| COLU | eS | 17 02 15 |
| | eSS | 06 45 |
| | eL | 12 35 |
| GC | iP | 16 49 30 |
| | e(S) | 55 24 |
| | e | 55 51 |
| | e | 56 34 |
| HONO | eS | 16 54 28 |
| | eL | 56 32 |

$T_S$ = 13 sec. A = 1.6 mm.
$T_L$ = 20 sec. $A_{max.}$ = 4.5 mm.

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | eSKS | 17 07 05 |
| | ePS | 10 20 |
| | eSS | 15 46 |
| | e | 20 32 |
| | eL | 26 40 |
| LIN | eS | 16 59 22 |
| | eL | 17 08 39 |
| LOG | eP | 16 50 35 |
| | e(PP) | 52 33 |
| | eS | 57 18 |
| | e | 17 00 15 |
| | eL | 02 41 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| OV | eP | 16 50 45 |
| | iP | 50 47 |
| | e(S) | 57 37 |
| PHIL | eP | 16 53 06 |
| | e | 53 43 |
| | e | 55 56 |
| | eS | 17 01 58 |
| | e | 02 36 |
| | eSS | 06 33 |
| | eL | 09 49 |
| RC | eP | 16 51 02 |
| | e | 52 21 |
| | eS | 58 07 |
| | eScS | 17 00 56 |
| | eL | 04 40 |
| SLC | eP | 16 50 37 |
| | ePP | 52 22 |
| | e | 52 56 |
| | eS | 57 24 |
| | eL | 17 00 29 |
| SH | iP | 16 49 44.3 |
| | eS | 55 34 |
| | eScS | 59 47 |
| SIT | iP | 16 47 47 |
| | eS | 52 29 |
| | eL | 55 00 |
| TUC | iP | 16 51 22 |
| | i | 52 51.5 |
| | iPP | 53 04 |
| | iPPP | 54 20 |
| | e | 56 40 |
| | eS | 58 45 |
| | eScS | 17 01 10 |
| | eL | 04 10 |
| UK | eP | 16 49 52 |
| | eS | 55 56 |
| | eL | 58 42 |
| July 26 TUC | eP | 02 20 09 |
| July 26 TUC | eP | 04 06 46 |
| July 26 BC | eP | 04 21 30 |
| | iP | 21 33.5 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COL | e | 04 17 52 |
| | e | 21 34 |
| | eS | 22 01 |
| | eL | 23 34 |
| GC | eP | 04 20 15 |
| | e | 26 06 |
| OV | eP | 04 21 31.5 |
| SH | iP | 04 20 29.5 |
| | e(S) | 26 42 |
| TUC | iP | 04 22 07 |
| | i | 22 12 |
| | e | 23 10 |
| | e | 24 05 |
| | e | 25 26 |
| | e(L) | 25 37 |
| July 26 | | |
| BER | e | 06 54 01 |
| | ePP | 56 26 |
| | eS | 07 01 18 |
| | eScS | 03 46 |
| | eL | 11 10 |
| $T_S = 10\frac{1}{2}$ sec. A = 13 mm. | | |
| $T_L = 21$ sec. A = 0.5 mm. | | |
| BC | eP | 06 55 52 |
| | iP | 55 54 |
| | i | 56 12 |
| | eS | 07 05 04 |
| BOZ | eP | 06 56 27 |
| | e | 57 17 |
| | eS | 07 06 04 |
| | eSS | 10 51 |
| | eL | 15 43 |
| BUT | eP | 06 56 28 |
| | ipP | 56 44 |
| | e | 59 39 |
| | eS | 07 06 11 |
| | eL | 16 05 |
| CHI | eP | 06 55 20 |
| | epP | 55 33 |
| | ePP | 59 15 |
| | eS | 07 03 41 |
| | iS | 03 49 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| CHI | iScS | 07 05 08 |
| | i | 05 36 |
| | e | 08 03 |
| | eL | 14 03 |
| COLU | e | 06 54 16 |
| | ePP | 56 28 |
| | eS | 07 01 52 |
| | e | 02 16 |
| | e | 04 52 |
| | e | 06 53 |
| | eL | 12 13 |
| GC | eP | 06 56 54 |
| | e | 57 12 |
| | iS | 07 07 02 |
| | isS | 07 29 |
| HUAN | eP | 06 47 04 |
| | iS | 48 19 |
| | iL | 48 55 |
| LIN | eP | 06 55 26 |
| | e | 55 41 |
| | ePP | 58 01 |
| | eS | 07 04 05 |
| | e | 04 25 |
| | e | 05 17 |
| | eSS | 08 42 |
| | eL | 17 43 |
| LOG | eP | 06 56 13 |
| | i | 56 45 |
| | e | 58 43 |
| | eS | 07 05 34 |
| | e | 06 07 |
| | e | 09 50 |
| | eL | 19 31 |
| MONT | iP | 06 45 26 |
| | i | 45 36 |
| | i(S) | 45 54 |
| | iL | 46 23 |
| OV | eP | 06 55 55 |
| | iP | 55 56 |
| | eS | 07 05 09 |
| PHIL | eP | 06 54 53 |
| | epP | 55 21 |
| | e | 56 40 |
| | ePP | 57 26 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PHIL | iS | 07 02 59 |
| | i | 03 26 |
| | i | 04 35 |
| | eSS | 06 50 |
| | eL | 09 54 |
| RC | eP | 06 56 03 |
| | iP | 56 05 |
| | ePP | 58 34 |
| | eS | 07 05 14 |
| | e | 05 41 |
| | e | 09 15 |
| | eL | 15 50 |
| SLC | e | 06 56 08 |
| | eS | 07 05 28 |
| | e | 05 55 |
| | eSS | 10 21 |
| | eL | 16 01 |
| SH | iP | 06 56 35.5 |
| | e | 58 34 |
| | eS | 07 06 23 |
| SIT | e | 06 58 28 |
| | ePP | 07 01 54 |
| | eSKS | 08 32 |
| | eS | 09 03 |
| | e | 15 35 |
| | eL | 22 07 |
| TUC | eP | 06 55 21 |
| | iP | 55 22.5 |
| | ipP | 55 39 |
| | i | 56 26 |
| | ePP | 57 48 |
| | e | 58 29 |
| | e | 07 04 12 |
| | eScS | 05 36 |
| | e | 06 21 |
| | eL | 11 44 |
| | eP'P' | 24 08 |
| | e | 30 16 |
| UK | eP | 06 56 38 |
| | eS | 07 06 24 |
| | esS | 07 15 |
| | e | 11 14 |
| | eL | 20 10 |
| July 26 | | |
| TUC | eP | 07 44 35 |
| | e | 44 45 |

| Date and Station | Phase | (GCT) |
|---|---|---|
| | | h m s |
| July 26 | | |
| TUC | eP | 08 25 18 |
| July 26 | | |
| BH | eP | 17 43 40 |
| | eS | 44 03 |
| July 26 | | |
| TUC | iP | 21 53 08 |
| July 26 | | |
| TUC | iP | 22 07 55 |
| July 26 | | |
| BC | iP | 22 44 41 |
| OV | eP | 22 44 44 |
| | e | 55 35 |
| SH | iP | 22 44 26 |
| | e | 44 54 |
| | e | 55 00 |
| TUC | eP | 22 44 46 |
| | e | 45 18 |
| | e | 46 42 |
| July 27 | | |
| TUC | e | 00 10 55 |
| July 27 | | |
| BC | e | 02 34 07 |
| BOZ | eL | 03 05 59 |
| HONO | eL | 02 54 38 |
| HUAN | eL | 02 46 09 |
| OV | eP | 02 34 17 |
| RC | eL | 02 45 24 |
| TUC | iP | 02 33 23 |
| | i | 33 36 |
| | e | 35 02 |
| | eL | 38 28 |
| July 27 | | |
| BER | eL | 06 10 29 |
| BC | eP | 05 55 44 |
| HONO | eL | 06 13 19 |
| HUAN | eL | 06 04 30 |
| LIN | eL | 06 06 46 |
| OV | eP | 05 55 47 |
| RC | eL | 06 05 06 |
| SLC | eL | 06 05 41 |
| TUC | eP | 05 55 00 |
| | e | 55 25 |
| | e | 56 08 |
| | e | 56 39 |
| | e | 58 12 |
| | eS | 59 25 |
| | e | 06 00 43 |
| | eL | 02 17 |
| July 27 | | |
| BC | eP | 13 58 48 |
| OV | eP | 13 58 49 |
| TUC | iP | 13 58 18.5 |
| July 27 | | |
| BC | iP | 21 55 33 |
| | i | 55 45 |
| GC | iP | 21 55 29.5 |
| OV | eP | 21 55 35 |
| PHIL | eL | 22 44 43 |
| SH | iP | 21 55 10.4 |
| | e | 22 05 29 |
| TUC | iP | 21 55 44 |
| | i | 55 56 |
| | i | 56 36 |
| | e | 57 11 |
| | eL | 22 25 06 |
| July 27 | | |
| BC | iP | 22 51 28 |
| | i | 53 29 |
| | eS | 23 00 57 |
| OV | eP | 22 51 31 |
| | eS | 23 00 59 |
| SH | iP | 22 51 14.5 |
| SH | i | 22 53 14 |
| | eS | 23 00 21 |
| TUC | iP | 22 51 34 |
| | i | 51 41 |
| | ipP | 53 36 |
| | e | 23 01 07 |
| July 28 | | |
| TUC | iP | 02 43 33 |
| July 28 | | |
| TUC | eP | 05 47 31 |
| | e | 47 45.5 |
| July 28 | | |
| BOZ | e | 07 16 07 |
| | eL | 36 36 |
| TUC | iP | 07 18 13.5 |
| July 28 | | |
| BC | e(P) | 08 07 58 |
| BUT | e | 08 11 38 |
| | eL | 15 40 |
| COL | e | 08 02 10 |
| | e | 02 28 |
| | eS | 03 04 |
| | eL | 03 20 |
| GC | eP | 08 06 05 |
| | eS | 14 00 |
| | e | 14 58 |
| OV | eP | 08 07 45 |
| | e | 08 40 |
| | e | 20 55 |
| PHIL | e | 08 15 48 |
| | e | 18 58 |
| | e(L) | 23 10 |
| RC | e | 08 13 50 |
| | eL | 17 23 |
| SLC | eL | 08 17 46 |
| SH | e | 08 07 03 |
| SIT | eP | 08 06 16 |
| | eS | 07 26 |
| | iL | 07 35 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | iP | 08 08 36 |
| | e | 08 53 |
| | e | 10 35 |
| | eL | 22 46 |
| July 28 | | |
| HUAN | e | 16 34 49 |
| | e | 40 22 |
| | eL | 43 38 |
| SH | eP | 16 39 47 |
| TUC | e | 16 38 50 |
| | e | 39 33 |
| | e | 40 37 |
| July 28 | | |
| BC | eP | 22 28 53 |
| GC | eP | 22 27 43 |
| OV | eP | 22 28 55 |
| SH | eP | 22 27 53 |
| TUC | eP | 22 29 30 |
| | e | 30 32 |
| | eL | 51 36 |
| July 29 | | |
| TUC | eP | 03 11 24 |
| | e | 12 38 |
| July 29 | | |
| TUC | eP | 10 28 38 |
| July 30 | | |
| GC | eP | 00 38 04 |
| | e | 47 17 |
| July 30 | | |
| BC | e | 03 44 58 |
| SH | eP | 03 44 09 |
| TUC | eP | 03 45 30 |
| | e | 45 46 |
| July 30 | | |
| BC | eP | 07 34 11 |
| CHI | eL | 07 50 49 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COL | eL | 07 34 15 |
| HONO | eL | 07 41 45 |
| OV | eP | 07 34 11 |
| PHIL | e | 07 55 59 |
| | eL | 08 00 01 |
| TUC | eP | 07 34 52 |
| | e | 35 31 |
| | e | 36 47 |
| July 30 | | |
| HUAN | e | 09 23 04 |
| July 30 | | |
| BC | eP | 18 43 22 |
| | i | 43 32.5 |
| BOZ | e | 18 48 12 |
| | eL | 52 59 |
| BUT | eL | 18 51 17 |
| COL | e | 18 39 21 |
| | eL | 42 00 |
| HONO | eL | 18 49 48 |
| OV | e | 18 43 20 |
| | e | 43 32 |
| PHIL | e(S) | 18 53 51 |
| | eSS | 57 51 |
| | eL | 19 04 28 |
| TUC | eP | 18 44 07 |
| | e | 50 32 |
| | eL | 56 40 |
| UK | eL | 18 47 27 |
| July 30 | | |
| SJ | eP | 22 44 54 |
| | iP | 44 56 |
| | i | 45 04 |
| | iS | 45 19 |
| | i | 45 30 |
| | iL | 45 39 |
| July 31 | | |
| BH | e | 00 33 23 |
| | e | 36 59 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BER | eP | 00 33 46 |
| | i | 34 05 |
| | eS | 37 27 |
| | eL | 38 37 |
| BC | i | 00 38 26.5 |
| | i | 38 42.5 |
| HUAN | iP | 00 34 55 |
| | eS | 39 41 |
| | eL | 41 29 |
| OV | iP | 00 38 27 |
| PHIL | e | 00 35 17 |
| | eS | 40 12 |
| | eL | 43 43 |
| SJ | iP | 00 31 04 |
| | i | 31 12 |
| | i | 31 28 |
| | i | 31 50 |
| | i | 32 25 |
| | e(L) | 33 08 |
| SH | iP | 00 39 10.5 |
| TUC | eP | 00 37 57 |
| | i | 39 16 |
| | i | 39 34 |
| | i | 40 22 |
| | i | 41 12 |
| | e(S) | 45 21 |
| | e | 46 44 |
| | eL | 55 20 |
| July 31 | | |
| TUC | eP | 06 31 12 |
| | e | 35 31 |
| July 31 | | |
| TUC | eP | 07 29 33 |
| | i | 29 45 |
| | e(S) | 30 14 |
| | i | 30 41 |
| | e | 31 02 |
| | eL | 31 16 |
| July 31 | | |
| TUC | e | 13 18 35 |
| July 31 | | |
| TUC | e | 13 28 35 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| July 31 | | |
| CHI | e | 18 52 07 |
| | eL | 19 00 26 |
| OV | eP | 18 29 57 |
| SIT | eL | 18 43 00 |
| TUC | eP | 18 29 02 |
| | i | 29 56 |
| | eL | 35 02 |
| Aug. 1 | | |
| SIT | eL | 16 12 04 |
| Aug. 1 | | |
| BER | e(P) | 20 59 20 |
| | eS | 21 01 20 |
| BOZ | eL | 21 18 20 |
| CHI | eS | 21 06 10 |
| | eL | 12 26 |
| HUAN | eP | 21 02 11 |
| | eL | 12 38 |
| OV | iP | 21 03 53 |
| PHIL | eL | 21 11 11 |
| SLC | eL | 21 17 31 |
| SJ | iP | 20 56 16 |
| | iS | 56 40 |
| | iL | 56 46 |
| SIT | eL | 21 28 55 |
| TUC | eP | 21 03 23 |
| Aug. 2 | | |
| BC | eP | 01 45 14 |
| | eS | 51 04 |
| BOZ | eL | 01 53 47 |
| BUT | eL | 01 52 17 |
| CHI | e | 02 01 52 |
| COL | eP | 01 41 11 |
| | eS | 43 44 |
| | eL | 45 16 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COLU | eL | 02 07 16 |
| GC | eP | 01 43 57 |
| HONO | eL | 01 51 28 |
| PHIL | eL | 02 11 09 |
| SLC | eL | 01 53 28 |
| SH | eP | 01 44 11 |
| SIT | eP | 01 41 44 |
| | eS | 44 56 |
| | iS | 45 00 |
| | eL | 46 36 |
| TUC | eP | 01 45 57 |
| | e | 46 08 |
| | i | 46 24 |
| | eL | 57 54 |
| Aug. 2 | | |
| OV | eP | 04 03 04 |
| | e | 03 11 |
| | eS | 03 52 |
| Aug. 2 | | |
| SJ | e | 04 26 09 |
| Aug. 2 | | |
| BC | eP | 05 23 01 |
| OV | iP | 05 24 01 |
| TUC | iP | 05 23 24 |
| Aug. 2 | | |
| OV | eP | 11 41 49 |
| PF | iP | 11 41 53 |
| Aug. 2 | | |
| OV | i | 12 12 46 |
| Aug. 2 | | |
| BH | iP | 19 25 52 |
| BER | iP | 19 28 49 |
| | i(pP) | 29 20 |
| | iPP | 31 11 |
| | eS | 36 50 |
| | iS | 36 51 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BER | i(sS) | 19 37 22 |
| | iScS | 38 44 |
| | i | 39 15 |
| | iSS | 40 40 |
| | eL | 43 00 |

$T_P$ = 2 sec. A = 0.8 mm.
$T_S$ = 12 sec. A = 46 mm.
$T_L$ = 22 sec. A = 17 mm.

| | | |
|---|---|---|
| BC | iP | 19 30 29 |
| | eS | 39 54 |
| BOZ | eP | 19 31 01 |
| | ePP | 34 21 |
| | iS | 41 07 |
| | ePPS | 42 21 |
| | e | 43 50 |
| | eSS | 46 22 |
| | e | 49 22 |
| | eSSS | 50 04 |
| | eL | 52 46 |
| BUT | iP | 19 31 07 |
| | i(pP) | 31 20 |
| | ePP | 34 04 |
| | eS | 41 14 |
| | iPS | 41 46 |
| | eSS | 46 54 |
| | eSSS | 50 38 |
| | eL | 52 08 |
| CHI | iP | 19 29 56 |
| | ePP | 32 31 |
| | iPPP | 34 34 |
| | iS | 38 58 |
| | iScS | 40 21 |
| | eSS | 43 32 |
| | iL | 47 09 |
| COL | e(P') | 19 37 40 |
| | ePP | 38 09 |
| | eSKS | 44 16 |
| | ePS | 47 15 |
| | eSS | 53 16 |
| | eP'P' | 56 40 |
| | eL | 20 03 58 |
| COLU | eP | 19 29 00 |
| | ePP | 33 12 |
| | iS | 37 14 |
| | i(sS) | 37 40 |
| | eL | 44 06 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| GC | iP | 19 31 26 |
| | e(S) | 41 36 |
| HONO | e(P) | 19 32 56 |
| | ePP | 36 11 |
| | eSKS | 42 55 |
| | ePS | 45 17 |
| | eSS | 50 40 |
| | eL | 20 03 08 |
| $T_{PS}$ = 26 sec. A = 1.9 mm. | | |
| $T_L$ = 20 sec. A = 4.5 mm. | | |
| HUAN | iP | 19 22 25 |
| | iS | 25 14 |
| | iL | 25 55 |
| LOG | iP | 19 30 47 |
| | ePP | 33 43 |
| | eS | 40 40 |
| | i | 41 03 |
| | eSS | 46 09 |
| | eL | 54 06 |
| MONT | eP | 19 19 57 |
| | i | 20 12 |
| | i | 20 26 |
| | iS | 20 51 |
| | i | 21 01 |
| | iL | 21 09 |
| NK | eP | 19 29 44 |
| | eS | 38 32 |
| | eSS | 43 20 |
| | eL | 46 14 |
| OV | iP | 19 30 30 |
| | i | 30 32 |
| | eS | 40 04 |
| | e | 40 35 |
| PHIL | iP | 19 29 34 |
| | i | 29 44 |
| | ePP | 32 07 |
| | ePPP | 33 47 |
| | iS | 38 19 |
| | i | 38 51 |
| | e(SS) | 42 22 |
| | i | 42 24 |
| | eL | 45 42 |
| PF | iP | 19 30 26 |
| | eS | 39 55 |
| | i | 40 27 |
| | iL | 50 55 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SLC | eP | 19 30 41 |
| | ePP | 33 45 |
| | eSS | 45 37 |
| SJ | eP | 19 27 00 |
| | ePP | 28 44 |
| | i | 28 54 |
| | e(PPP) | 29 24 |
| | iS | 33 28 |
| | i | 33 59 |
| | eL | 36 48 |
| SEA | e(P) | 19 32 30 |
| | e(S) | 42 54 |
| | e(SS) | 47 53 |
| | eL | 20 01 00 |
| SH | iP | 19 31 07 |
| | e | 35 53 |
| | eS | 41 35 |
| | e(SS) | 48 30 |
| SIT | eP | 19 32 27 |
| | iPP | 36 40 |
| | e | 40 55 |
| | eSKS | 42 52 |
| | iS | 43 41 |
| | ePS | 45 38 |
| | eSS | 50 44 |
| | eSSS | 55 11 |
| | eL | 20 01 30 |
| TUC | iP | 19 29 59 |
| | i | 30 22 |
| | i | 31 10 |
| | iPP | 32 38 |
| | iS | 39 08 |
| | i | 39 31 |
| | eSS | 43 47 |
| | eL | 47 04 |
| | eP'P' | 58 08 |
| | eP'P'P' | 20 17 22 |
| UK | eP | 19 31 07 |
| | ePP | 34 35 |
| | eS | 41 10 |
| | eSS | 46 48 |
| | eSSS | 50 10 |
| | eL | 53 11 |
| Aug. 2 | | |
| BC | iP | 19 55 45 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| GC | eP | 19 57 30 |
| | e | 20 18 05 |
| OV | iP | 19 55 47 |
| PF | iP | 19 55 43 |
| SH | iP | 19 56 24 |
| TUC | iP | 19 55 15 |
| | i | 55 31 |
| Aug. 2 | | |
| HUAN | eL | 23 33 49 |
| SH | iP | 23 24 22 |
| TUC | eP | 23 23 59 |
| Aug. 3 | | |
| PF | iP | 02 04 47 |
| Aug. 3 | | |
| OV | iP | 02 14 26 |
| | eS | 15 21 |
| PF | iP | 02 14 32 |
| | i | 14 40 |
| | i | 14 44 |
| | iS | 15 39 |
| Aug. 3 | | |
| OV | eP | 07 56 45 |
| PF | iP | 07 56 22 |
| TUC | eP | 07 56 25 |
| Aug. 3 | | |
| TUC | e | 09 47 05 |
| Aug. 3 | | |
| SJ | e | 10 07 10 |
| | e | 07 29 |
| | e | 07 54 |
| Aug. 3 | | |
| BUT | eS | 13 27 17 |
| CHI | eL | 13 53 53 |
| COL | eP | 13 15 14 |
| | eS | 22 20 |
| | eSS | 25 29 |
| | eJ | 26 36 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| GC | eP | 13 17 23 |
| OV | eP | 13 18 20 |
| | iP | 18 25 |
| PF | iP | 13 18 20 |
| | i | 18 31 |
| SLC | eS | 13 28 05 |
| SH | eP | 13 17 34 |
| | iP | 17 45 |
| TUC | eP | 13 18 43 |
| | iP | 18 44 |
| | i | 18 54 |
| | e | 19 31 |
| | ePP | 22 06 |
| | eL | 46 00 |
| Aug. 4 | | |
| PF | iP | 11 43 42 |
| | e | 44 41 |
| | e | 44 59 |
| Aug. 4 | | |
| PF | iP | 15 37 25 |
| | e | 37 47 |
| | epP | 39 20 |
| TUC | iP | 15 37 26 |
| | ipP | 39 24 |
| | esP | 40 19 |
| | eSKS | 47 27 |
| | iSKS | 47 30 |
| Aug. 4 | | |
| BH | iP | 17 54 31 |
| | eS | 57 12 |
| | eL | 58 15 |
| BER | iP | 17 54 19 |
| | iS | 56 32 |
| | iL | 57 29 |
| $T_P$ = 11 sec. A = 30 mm. | | |
| BC | iP | 17 59 13 |
| BOZ | eP | 17 59 13 |
| | iP | 59 19 |
| | iPP | 18 01 01 |
| | i(PPP) | 01 50 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BOZ | iS | 18 05 42 |
| | i(SS) | 08 26 |
| | iL | 09 22 |
| BUT | eP | 17 59 21 |
| | e | 18 00 45 |
| | iS | 05 57 |
| | eL | 09 17 |
| CHI | eP | 17 56 54 |
| | iP | 57 02 |
| | iS | 18 01 34 |
| | i | 01 58 |
| | iL | 04 42 |
| COL | eP | 18 02 12 |
| | i | 02 53 |
| | e | 04 10 |
| | e(PP) | 05 16 |
| | ePPP | 06 09 |
| | i | 07 13 |
| | iS | 11 09 |
| | i | 13 21 |
| | eSS | 15 34 |
| | iL | 18 40 |
| COLU | iP | 17 55 19 |
| | eS | 58 36 |
| | iS | 58 39 |
| | iL | 18 00 28 |
| GC | eP | 17 59 55 |
| | iP | 59 57 |
| | e | 18 05 21 |
| | e | 06 01 |
| | eS | 07 01 |
| HONO | eP | 18 03 24 |
| | iP | 03 36 |
| | i | 04 15 |
| | iPP | 06 58 |
| | e(PPP) | 08 18 |
| | iS | 13 52 |
| | iPPS | 15 04 |
| | i | 16 48 |
| | i | 18 14 |
| | i | 23 23 |
| | iL | 25 48 |
| $T_P$ = 16 sec. A = 3.1 mm. | | |
| $T_{PP}$ = 14 sec. A = 4.0 mm. | | |
| $T_S$ = 15 sec. A = 26.5 mm. | | |
| $T_L$ = 20 sec. $A_{max.}$ = 19.5 mm. | | |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | eP | 17 57 24 |
| | iP | 57 31 |
| | iS | 18 02 31 |
| | i | 03 09 |
| | eL | 04 55 |
| LIN | eP | 17 57 34 |
| | iS | 18 02 36 |
| | iL | 04 52 |
| LOG | eL | 19 17 52 |
| MONT | eP | 17 58 44 |
| | ePP | 18 00 37 |
| | e(PPP) | 01 29 |
| | eS | 05 10 |
| | eL | 08 10 |
| OV | iP | 17 59 11 |
| PHIL | eP | 17 55 56 |
| | iP | 56 00 |
| | iS | 59 46 |
| PF | iP | 17 59 56 |
| | i | 59 58 |
| | eS | 18 05 36 |
| | iL | 10 06 |
| SLC | eP | 17 59 02 |
| | iPP | 18 01 01 |
| | i | 01 55 |
| | iS | 05 17 |
| | iL | 08 57 |
| SJ | eP | 17 51 48 |
| | iP | 51 52 |
| SEA | e | 18 01 23 |
| | i | 04 55 |
| | e(S) | 08 13 |
| | eSS | 11 23 |
| | eL | 14 13 |
| SH | eP | 18 00 00 |
| SIT | eP | 18 01 20 |
| | iP | 01 31 |
| | i | 05 32 |
| | iS | 09 46 |
| | i | 10 12 |
| | iScS | 11 20 |
| | iSS | 13 40 |
| | iL | 15 57 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 17 58 39 |
| | iP | 58 40 |
| | i | 58 47 |
| | i | 59 57 |
| | iPcP | 18 00 35 |
| | i | 00 52 |
| | iS | 04 40 |
| | iL | 07 33 |
| UK | eP | 18 00 08 |
| | iPcP | 01 32 |
| | i(PP) | 02 28 |
| | iS | 07 23 |
| | eScS | 10 02 |
| | iL | 11 44 |
| Aug. 4 | | |
| GC | i | 18 10 51 |
| SH | i | 18 11 00 |
| Aug. 4 | | |
| GC | iP | 18 12 43 |
| SH | iP | 18 12 47 |
| TUC | iP | 18 11 27 |
| Aug. 4 | | |
| GC | iP | 18 33 35 |
| SH | iP | 18 33 41 |
| Aug. 4 | | |
| SH | iP | 18 37 19 |
| TUC | iP | 18 35 57 |
| Aug. 4 | | |
| BC | iP | 18 41 52 |
| GC | iP | 18 42 36 |
| HUAN | iP | 18 40 12 |
| OV | iP | 18 41 51 |
| PF | iP | 18 41 47 |
| SH | iP | 18 42 41 |
| TUC | iP | 18 41 20 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 4 | | |
| PF | i | 19 48 23 |
| Aug. 4 | | |
| HUAN | e(P) | 20 16 27 |
| SH | i | 20 21 12 |
| Aug. 4 | | |
| BH | eP | 20 56 52 |
| | eS | 59 19 |
| BER | e(P) | 20 56 52 |
| | iL | 21 29 46 |
| BOZ | eL | 21 15 10 |
| CHI | eP | 20 59 12 |
| | iS | 21 03 44 |
| | eL | 05 07 |
| COLU | eS | 20 00 55 |
| | iS | 01 00 |
| | eL | 01 53 |
| GC | eP | 21 02 13 |
| | ePcP | 03 37 |
| HUAN | eP | 20 59 55 |
| | i | 21 01 35 |
| | ePcP | 02 10 |
| | eS | 05 14 |
| | eL | 05 43 |
| LIN | eP | 20 59 48 |
| | e(PP) | 21 01 13 |
| | e(S) | 04 22 |
| | eL | 09 40 |
| LOG | eP | 21 01 28 |
| | eL | 16 08 |
| OV | iP | 21 01 27 |
| PHIL | eP | 20 58 18 |
| | iP | 58 21 |
| | iPP | 58 55 |
| | e | 59 36 |
| | iS | 21 02 09 |
| | eL | 03 12 |
| PF | iP | 21 01 24 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 21 00 56 |
| | iP | 00 57 |
| | ePP | 02 31 |
| | e(PPP) | 03 13 |
| | eS | 07 12 |
| | eL | 09 22 |
| Aug. 4 | | |
| PF | iP | 21 30 20 |
| Aug. 4 | | |
| GC | eP | 21 58 30 |
| HUAN | e | 21 56 13 |
| LIN | eL | 22 06 41 |
| OV | iP | 21 57 45 |
| PF | iP | 21 57 41 |
| PHIL | eP | 21 54 29 |
| | e | 55 22 |
| | eS | 58 24 |
| | eL | 59 33 |
| SH | eP | 21 58 36 |
| TUC | eP | 21 57 15 |
| Aug. 4 | | |
| LIN | e | 23 44 53 |
| Aug. 5 | | |
| CHI | eS | 00 03 24 |
| | eL | 08 08 |
| COLU | eS | 00 00 36 |
| LIN | eL | 00 32 32 |
| PHIL | eP | 00 57 51 |
| | ePP | 58 13 |
| | eS | 01 01 43 |
| | eL | 03 11 |
| PF | eP | 00 00 59 |
| SH | iP | 00 01 54 |
| TUC | eP | 00 00 36 |
| | eL | 21 06 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Aug. 5 | | |
| LIN | eL | 01 47 33 |
| PF | eP | 00 59 59 |
| SH | iP | 01 00 44 |
| TUC | eP | 00 59 20 |
| | ePP | 01 00 58 |
| Aug. 5 | | |
| CHI | eP | 02 47 43 |
| | e(S) | 52 40 |
| | eL | 53 36 |
| COLU | eS | 02 49 40 |
| | eL | 50 10 |
| PHIL | eP | 02 46 48 |
| | ePP | 47 13 |
| | e(S) | 50 53 |
| | eL | 52 03 |
| SH | iP | 02 50 53 |
| TUC | eP | 02 49 32 |
| Aug. 5 | | |
| HUAN | e | 03 39 10 |
| | e | 40 10 |
| Aug. 5 | | |
| BOZ | eL | 03 57 22 |
| CHI | e | 03 45 15 |
| | eS | 48 01 |
| | eL | 49 42 |
| COLU | eS | 03 45 16 |
| | eL | 46 33 |
| GC | eP | 03 46 34 |
| HUAN | eP | 03 43 57 |
| | ePP | 45 27 |
| | ePcP | 46 32 |
| LIN | eL | 03 54 45 |
| PHIL | eP | 03 42 36 |
| | e | 42 54 |
| | e | 44 08 |
| | eS | 46 24 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| PHIL | iS | 03 46 29 |
| | eL | 47 51 |
| PF | eP | 03 45 41 |
| | iPcP | 47 15 |
| SLC | eL | 03 58 40 |
| SJ | e(P) | 03 38 27 |
| | e(S) | 39 17 |
| | iL | 39 33 |
| SH | iP | 03 46 36 |
| | iPP | 48 25 |
| TUC | eP | 03 45 10 |
| | ePcP | 46 53 |
| | eL | 04 01 38 |
| Aug. 5 | | |
| LIN | e | 04 31 08 |
| | eL | 32 17 |
| SH | i | 04 08 46 |
| | e | 15 31 |
| Aug. 5 | | |
| LIN | e | 04 42 49 |
| | eL | 43 41 |
| Aug. 5 | | |
| LIN | eL | 04 53 23 |
| Aug. 5 | | |
| CHI | e(P) | 05 47 56 |
| | eS | 51 56 |
| | e | 52 36 |
| | eL | 55 30 |
| COLU | eS | 05 49 12 |
| | eL | 50 32 |
| PHIL | eP | 05 46 26 |
| | ePP | 46 45 |
| | eS | 50 18 |
| | eL | 51 30 |
| SLC | eL | 06 02 57 |
| SJ | eP | 05 42 32 |
| | i | 42 53 |
| | iS | 43 08 |
| | iL | 43 20 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| SH | iP | 05 50 31 |
| TUC | eP | 05 49 10 |
| | ePPP | 51 20 |
| | eL | 06 09 13 |
| Aug. 5 | | |
| HUAN | iP | 06 24 04 |
| | i | 24 30 |
| | e | 27 51 |
| | e | 30 00 |
| | e | 32 45 |
| PF | iP | 06 28 18 |
| TUC | eP | 06 27 46 |
| Aug. 5 | | |
| LIN | e(P) | 07 15 38 |
| | eS | 21 36 |
| | eL | 23 40 |
| SJ | eP | 07 10 19 |
| | iS | 10 54 |
| | iL | 11 06 |
| TUC | eP | 07 17 06 |
| Aug. 5 | | |
| CHI | e(S) | 10 02 19 |
| | eL | 03 26 |
| COLU | eL | 10 00 32 |
| PF | iP | 10 00 40 |
| SJ | eP | 09 53 43 |
| | iS | 54 19 |
| | iL | 54 28 |
| TUC | eP | 10 00 08 |
| Aug. 5 | | |
| CHI | e(S) | 12 18 40 |
| LOG | eL | 12 35 20 |
| PHIL | eP | 12 12 37 |
| | e(S) | 16 42 |
| | eL | 17 08 |
| PF | iP | 12 15 49 |
| SH | iP | 12 16 42 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| TUC | eP | 12 15 22 |
| Aug. 5 | | |
| BC | eP | 12 41 23 |
| BOZ | eS | 12 47 54 |
| | eL | 51 20 |
| CHI | e(P) | 12 39 38 |
| | eS | 43 42 |
| | eL | 44 24 |
| COL | eS | 12 53 09 |
| | eL | 13 06 20 |
| COLU | eP | 12 37 30 |
| | eS | 40 57 |
| GC | eP | 12 42 15 |
| HUAN | eP | 12 39 40 |
| | eS | 44 48 |
| | eL | 46 20 |
| LIN | eL | 12 47 07 |
| LOG | e(S) | 12 48 06 |
| | eL | 57 46 |
| NK | e(P) | 12 37 26 |
| | eS | 42 34 |
| | eL | 46 20 |
| OV | iP | 12 41 21 |
| PHIL | e(P) | 12 38 13 |
| | iPP | 38 24 |
| | e | 39 15 |
| | eS | 42 01 |
| | eL | 43 15 |
| PF | iP | 12 41 17 |
| SLC | eS | 12 47 36 |
| | eL | 55 10 |
| SH | iP | 12 42 11 |
| SIT | eL | 13 06 42 |
| TUC | eP | 12 40 51 |
| | ePP | 42 19 |
| | ePPF | 43 04 |
| | eS | 47 00 |
| | eL | 49 57 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| UK | eL | 13 03 10 |
| Aug. 5 | | |
| PF | iP | 13 19 37 |
| | eS | 26 06 |
| TUC | eP | 13 18 50 |
| Aug. 5 | | |
| PHIL | eP | 14 07 50 |
| | eS | 11 51 |
| | eL | 12 53 |
| PF | eP | 14 10 59 |
| SJ | iP | 14 03 54 |
| | i | 04 18 |
| | iS | 04 30 |
| | iL | 04 40 |
| TUC | eP | 14 10 40 |
| Aug. 5 | | |
| TUC | eP | 15 14 51 |
| Aug. 5 | | |
| PF | iP | 15 31 40 |
| SJ | eP | 15 24 21 |
| | i | 24 46 |
| | iS | 24 55 |
| | iL | 25 06 |
| TUC | eP | 15 31 18 |
| Aug. 5 | | |
| PF | iP | 17 23 00 |
| Aug. 5 | | |
| TUC | eP | 17 41 56 |
| Aug. 5 | | |
| TUC | eP | 19 13 29 |
| Aug. 5 | | |
| BC | eP | 20 16 49 |
| | e | 16 55 |
| CHI | eP | 20 14 42 |
| | e | 15 12 |
| | eS | 19 08 |
| | eL | 21 16 |
| COLU | eS | 20 16 23 |
| | eL | 17 29 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| HUAN | e(P) | 20 15 21 |
| | eS | 20 35 |
| | eL | 21 18 |
| LIN | eI | 20 21 45 |
| NK | e(P) | 20 14 00 |
| | eL | 18 09 |
| OV | eP | 20 16 56 |
| PHIL | eP | 20 13 39 |
| | e | 13 59 |
| | e | 14 14 |
| | eS | 17 29 |
| | eL | 18 44 |
| SLC | eL | 20 30 28 |
| SJ | eP | 20 09 50 |
| | iP | 09 52 |
| | i | 10 06 |
| | iS | 10 22 |
| | iL | 10 32 |
| SIT | eL | 20 41 36 |
| TUC | eP | 20 16 23 |
| | ePPP | 18 20 |
| | eL | 31 30 |
| Aug. 6 | | |
| BC | e(P) | 03 00 39 |
| | i | 00 43 |
| | i | 00 52 |
| BOZ | eSKS | 03 11 15 |
| | ePPS | 13 12 |
| | e | 19 38 |
| | eSSS | 21 57 |
| CHI | eL | 03 35 36 |
| COL | eS | 03 10 03 |
| | e | 11 28 |
| | eL | 22 14 |
| GC | eP | 03 00 10 |
| HONO | ePP | 02 57 41 |
| | e | 59 13 |
| | e(S) | 03 03 37 |
| | eL | 11 40 |
| OV | e(P) | 03 00 20 |
| | i | 00 27 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PHIL | e | 03 16 11 |
| | eSSS | 27 02 |
| | eL | 36 20 |
| SLC | eSKS | 03 11 07 |
| SH | eP | 02 59 50 |
| | eS | 03 10 17 |
| SIT | eS | 03 10 08 |
| | eL | 22 33 |
| TUC | eP | 03 00 29 |
| | ePS | 11 44 |
| | ePPS | 12 49 |
| | eL | 29 34 |
| UK | eL | 03 26 12 |
| Aug. 6 | | |
| TUC | iP | 03 22 33 |
| Aug. 6 | | |
| BC | iP | 06 05 23 |
| BOZ | eL | 06 15 18 |
| CHI | eP | 06 03 08 |
| | eS | 07 39 |
| | eL | 08 16 |
| COL | eS | 06 17 14 |
| | eL | 31 05 |
| COLU | eP | 06 01 38 |
| | eS | 04 56 |
| | eL | 05 52 |
| HUAN | eP | 06 03 43 |
| | eS | 08 54 |
| | eL | 10 30 |
| OV | iP | 06 05 22 |
| PHIL | eP | 06 02 09 |
| | iP | 02 10 |
| | iPP | 02 19 |
| | eS | 05 58 |
| | iS | 06 09 |
| | eL | 07 32 |
| SLC | eS | 06 11 33 |
| | eL | 15 08 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | iP | 05 58 04 |
| | iS | 58 36 |
| | iL | 58 50 |
| SH | iP | 06 06 12 |
| SIT | eL | 06 28 37 |
| TUC | eP | 06 04 52 |
| | ePP | 06 29 |
| | eL | 19 11 |
| Aug. 6 | | |
| BC | iP | 13 24 16 |
| | i | 24 51 |
| HUAN | e | 13 15 46 |
| | e | 16 37 |
| | e | 17 20 |
| OV | iP | 13 24 19 |
| SEA | e | 13 38 26 |
| | e | 40 55 |
| | e | 45 54 |
| | e | 49 04 |
| TUC | eP | 13 23 45 |
| | e | 24 18 |
| Aug. 6 | | |
| BC | iP | 14 11 10 |
| | i | 11 19 |
| OV | eP | 14 11 14 |
| SH | iP | 14 11 00 |
| TUC | iP | 14 11 16 |
| | i | 11 25 |
| | e | 12 05 |
| Aug. 6 | | |
| SJ | eP | 15 16 04 |
| | e | 16 30 |
| | e(S) | 16 48 |
| | i | 16 52 |
| TUC | eP | 15 22 38 |
| Aug. 6 | | |
| BC | iP | 16 23 42 |
| | i | 23 49 |
| | i | 24 25 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COLU | e | 16 21 05 |
| HUAN | eP | 16 22 15 |
| | eL | 34 50 |
| PHIL | eP | 16 20 31 |
| | ePP | 20 50 |
| | e(S) | 24 24 |
| | eL | 25 36 |
| PF | iP | 16 23 42 |
| | i | 23 49 |
| SLC | eL | 16 37 47 |
| SJ | eP | 16 16 41 |
| | i | 17 08 |
| | iS | 17 18 |
| | iL | 17 32 |
| SH | eP | 16 24 38 |
| SIT | eL | 16 45 38 |
| TUC | eP | 16 23 17 |
| | ePP | 24 49 |
| | eL | 40 28 |
| Aug. 6 | | |
| BC | iP | 17 11 46 |
| CHI | eL | 17 26 08 |
| PF | iP | 17 11 39 |
| SJ | eP | 17 04 33 |
| | iS | 04 57 |
| | iL | 05 05 |
| SIT | eL | 17 36 51 |
| TUC | eP | 17 11 14 |
| Aug. 6 | | |
| SLC | e | 23 15 10 |
| | i | 15 33 |
| Aug. 6 | | |
| TUC | eP | 23 56 08 |
| Aug. 7 | | |
| TUC | eP | 05 40 48 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 7 | | |
| PF | eP | 06 25 21 |
| TUC | eP | 06 24 53 |
| Aug. 7 | | |
| BC | iP | 07 40 52 |
| OV | eP | 07 40 56 |
| PF | iP | 07 40 56 |
| | i | 41 34 |
| SH | iP | 07 40 31 |
| | e | 41 10 |
| TUC | iP | 07 41 04 |
| | e | 41 41 |
| Aug. 7 | | |
| TUC | e | 07 58 35 |
| | e | 08 04 51 |
| Aug. 7 | | |
| TUC | e | 09 18 36 |
| Aug. 7 | | |
| PHIL | eL | 11 57 38 |
| TUC | e | 11 49 04 |
| Aug. 7 | | |
| SH | eP | 16 30 55 |
| Aug. 7 | | |
| BH | eP | 18 29 50 |
| | eS | 32 27 |
| BC | iP | 18 34 30 |
| BOZ | eL | 18 44 30 |
| BUT | eS | 18 41 14 |
| | eL | 44 26 |
| CHI | eP | 17 32 24 |
| | eS | 36 42 |
| | eL | 37 25 |
| COLU | eS | 18 33 54 |
| GC | eP | 18 35 12 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | eP | 18 32 53 |
| | e | 33 15 |
| | ePP | 33 52 |
| | eS | 38 00 |
| | eL | 39 10 |
| LOG | eL | 18 44 20 |
| OV | iP | 18 34 28 |
| PHIL | iP | 18 31 14 |
| | e | 31 33 |
| | i | 31 42 |
| | eS | 35 06 |
| | eL | 36 29 |
| PF | iP | 18 34 24 |
| SLC | eS | 18 40 39 |
| | eL | 44 55 |
| SJ | iP | 18 27 16 |
| | i | 27 38 |
| | iS | 27 51 |
| | i | 28 03 |
| SH | iP | 18 35 18 |
| SIT | eL | 18 57 16 |
| TUC | iP | 18 33 58 |
| | ePP | 35 22 |
| | i | 35 34 |
| | eS | 40 00 |
| | eL | 43 12 |
| Aug. 7 | | |
| BH | eP | 19 24 53 |
| | eS | 27 24 |
| BC | eP | 19 29 26 |
| BUT | eS | 19 36 08 |
| CHI | eP | 19 27 13 |
| | eS | 31 49 |
| COLU | eS | 19 28 45 |
| GC | eP | 19 30 13 |
| HUAN | eP | 19 27 51 |
| | ePP | 29 06 |
| | eS | 33 10 |
| | eL | 34 20 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| LOG | eP | 19 29 26 |
| | eL | 39 28 |
| OV | eP | 19 29 27 |
| PHIL | eP | 19 26 16 |
| | i | 26 22 |
| | i | 27 44 |
| | iS | 30 08 |
| | eL | 30 33 |
| PF | eP | 19 29 22 |
| SLC | eS | 19 35 34 |
| | eL | 43 11 |
| SJ | eP | 19 22 27 |
| | i | 22 38 |
| | iS | 23 00 |
| | i | 23 15 |
| SH | iP | 19 30 17 |
| TUC | eP | 19 28 54 |
| | e(PP) | 30 18 |
| | eS | 34 55 |
| | eScS | 39 08 |
| Aug. 7 | | |
| BC | iP | 19 39 40 |
| | i | 39 53 |
| | eS | 46 05 |
| BOZ | e(P) | 19 39 23 |
| BUT | e(P) | 19 39 33 |
| COL | eP | 19 35 54 |
| | ePP | 36 28 |
| | eS | 39 20 |
| | eL | 41 04 |
| GC | eP | 19 38 22 |
| HONO | e(S) | 19 43 41 |
| | eL | 46 07 |
| LOG | eL | 19 48 55 |
| OV | iP | 19 39 40 |
| PF | iP | 19 39 44 |
| | i | 39 57 |
| | iS | 46 21 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SH | iP | 19 38 37 |
| | i | 38 49 |
| SIT | eP | 19 36 33 |
| | e(PP) | 36 50 |
| | iS | 40 42 |
| | eL | 42 16 |
| TUC | iP | 19 40 19 |
| | ePP | 42 24 |
| | eS | 47 20 |
| | e | 49 03 |
| UK | eS | 19 44 24 |
| | eL | 47 14 |
| Aug. 7 | | |
| TUC | e | 19 55 57 |
| Aug. 7 | | |
| BC | eP | 20 11 31 |
| PF | eP | 20 11 39 |
| SH | iP | 20 10 30 |
| TUC | eP | 20 10 56 |
| | e | 12 11 |
| | e | 12 24 |
| Aug. 7 | | |
| BC | iP | 20 40 54 |
| | e | 42 56 |
| OV | eP | 20 40 55 |
| | iP | 41 02 |
| SH | eP | 20 39 51 |
| TUC | eP | 20 41 32 |
| Aug. 7 | | |
| SH | iP | 20 54 19 |
| | i | 54 33 |
| Aug. 7 | | |
| HUAN | eL | 21 42 45 |
| PHIL | eP | 21 32 12 |
| | eS | 35 52 |
| | eL | 37 08 |
| SJ | e(P) | 21 28 00 |
| | iS | 28 24 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | i | 21 28 38 |
| | iL | 28 49 |
| TUC | eP | 21 34 40 |
| | eL | 49 02 |
| Aug. 7 | | |
| TUC | eP | 22 22 41 |
| Aug. 8 | | |
| LIN | e | 00 16 02 |
| | eL | 18 34 |
| Aug. 8 | | |
| BC | eP | 00 58 27 |
| OV | iP | 00 58 49 |
| Aug. 8 | | |
| TUC | e | 01 23 52 |
| Aug. 8 | | |
| BC | eP | 01 54 26 |
| CHI | eL | 02 01 33 |
| COLU | eL | 01 55 30 |
| OV | iP | 01 54 29 |
| PHIL | eP | 01 51 16 |
| | eS | 55 14 |
| | eL | 56 28 |
| SJ | e(P) | 01 47 24 |
| | iS | 47 54 |
| | i | 48 00 |
| | i | 48 05 |
| | iL | 48 18 |
| TUC | eP | 01 53 59 |
| Aug. 8 | | |
| TUC | eP | 03 48 17 |
| Aug. 8 | | |
| SJ | eP | 03 33 00 |
| | i | 33 30 |
| | iS | 33 40 |
| | iL | 33 45 |
| Aug. 8 | | |
| BC | eP | 10 06 12 |
| | iP | 06 22 |
| | e(S) | 07 08 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| OV | iP | 10 06 11 |
| | i | 06 21 |
| | eS | 06 56 |
| SH | iP | 10 06 13 |
| | i | 06 23 |
| | e(S) | 07 16 |
| Aug. 8 | | |
| BC | eP | 11 16 12 |
| | iP | 16 17 |
| OV | eP | 11 16 07 |
| | eS | 17 02 |
| | eL | 19 04 |
| SH | iP | 11 16 15 |
| | iS | 17 16 |
| | iL | 18 18 |
| TUC | eL | 11 19 40 |
| Aug. 8 | | |
| BH | eP | 13 31 58 |
| | eS | 34 39 |
| | eL | 35 37 |
| BER | eP | 13 31 36 |
| | iP | 31 39 |
| | iS | 34 04 |
| | iL | 35 18 |
| $T_P$ = 3 sec. A = 11½ mm. | | |
| BC | eP | 13 36 30 |
| | e | 36 35 |
| | i | 37 03 |
| | eS | 42 55 |
| BOZ | eP | 13 36 30 |
| | i | 37 24 |
| | iPP | 38 06 |
| | iPPP | 39 07 |
| | iS | 43 00 |
| | iL | 46 47 |
| BUT | eP | 13 36 40 |
| | i | 37 22 |
| | iPPP | 39 12 |
| | eS | 43 05 |
| | i | 43 24 |
| | eL | 46 34 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| CHI | eP | 13 34 12 |
| | iPP | 34 43 |
| | i | 35 10 |
| | iS | 38 38 |
| | i | 39 00 |
| | iL | 40 19 |
| COL | eP | 13 39 26 |
| | e | 39 54 |
| | ePP | 41 44 |
| | ePPP | 43 29 |
| | eS | 48 18 |
| | i | 49 58 |
| | eSS | 52 37 |
| | eL | 56 01 |
| COLU | iP | 13 32 32 |
| | i | 33 12 |
| | eS | 35 52 |
| | iS | 36 13 |
| | iL | 37 07 |
| GC | eP | 13 37 16.5 |
| | eS | 44 40 |
| | eL | 53 28 |
| HONO | eP | 13 40 50 |
| | e | 41 18 |
| | ePP | 43 58 |
| | eS | 50 45 |
| | e | 51 00 |
| | eL | 14 02 08 |
| $T_S$ = 14 sec. A = 3 mm. | | |
| $T_L$ = 20 sec. $A_{max.}$ = 2 mm. | | |
| HUAN | eP | 13 34 52 |
| | i | 35 20 |
| | i | 36 34 |
| | eS | 40 01 |
| | iS | 40 10 |
| | iL | 41 36 |
| LIN | eP | 13 34 54 |
| | i | 35 26 |
| | ePP | 36 10 |
| | eS | 40 00 |
| | i | 40 31 |
| | eL | 42 45 |
| LOG | iP | 13 36 26 |
| | i | 38 44 |
| | iS | 42 59 |
| | iL | 45 40 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| MONT | e(P) | 13 36 45 |
| | ePP | 37 47 |
| | ePPP | 38 24 |
| | e(S) | 42 54 |
| | eL | 45 13 |
| NK | iP | 13 33 36 |
| OV | eP | 13 36 29 |
| | iP | 36 32 |
| | i | 36 38 |
| | i | 37 11 |
| | eS | 42 51 |
| PHIL | iP | 13 33 14 |
| | i | 33 33 |
| | i | 34 03 |
| | iS | 37 11 |
| | i | 37 23 |
| | iL | 37 42 |
| SLC | e(P) | 13 36 23 |
| | i | 36 53 |
| | i | 39 14 |
| | eS | 42 27 |
| | eL | 45 51 |
| SH | eP | 13 37 19 |
| | ePPP | 40 03 |
| | e | 43 40 |
| SIT | eP | 13 38 43 |
| | e | 42 56 |
| | eS | 46 55 |
| | e | 49 02 |
| | iSS | 51 00 |
| | iL | 53 24 |
| TUC | eP | 13 35 59 |
| | iP | 36 01 |
| | i | 36 32 |
| | i | 37 10 |
| | iPP | 37 36 |
| | iPcP | 37 58 |
| | i | 41 20 |
| | iS | 42 00 |
| | iL | 44 30 |
| UK | eP | 13 37 14 |
| | e | 37 53 |
| | ePP | 39 10 |
| | eS | 44 40 |
| | e | 45 14 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| UK | eSS | 13 48 18 |
| | eL | 50 40 |
| Aug. 8 | | |
| BH | eP | 14 32 09 |
| | eS | 34 49 |
| BC | iP | 14 36 47 |
| GC | iP | 14 37 32.5 |
| HUAN | eP | 14 45 12 |
| OV | iP | 14 36 46 |
| SH | iP | 14 37 35 |
| TUC | iP | 14 36 16 |
| | i | 36 29 |
| Aug. 8 | | |
| BC | eP | 15 20 00 |
| TUC | e | 15 19 29 |
| Aug. 8 | | |
| BC | eP | 15 26 57 |
| OV | eP | 15 27 58 |
| TUC | eP | 15 26 26 |
| Aug. 8 | | |
| BC | iP | 15 38 48 |
| HUAN | eP | 15 38 15 |
| OV | eP | 15 38 49 |
| TUC | eP | 15 38 23 |
| Aug. 8 | | |
| BC | iP | 15 49 47 |
| OV | eP | 15 49 47 |
| TUC | eP | 15 49 16 |
| Aug. 8 | | |
| OV | iP | 16 14 06 |
| Aug. 8 | | |
| BC | eP | 16 18 14 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 8 | | |
| BH | eP | 17 27 30 |
| | eS | 29 59 |
| BC | iP | 17 32 09 |
| BUT | eP | 17 32 14 |
| | eS | 38 51 |
| | eL | 42 15 |
| CHI | eP | 17 29 46 |
| | e(PP) | 30 24 |
| | eS | 34 25 |
| | eL | 35 02 |
| COL | eS | 17 43 58 |
| | eL | 57 01 |
| COLU | eP | 17 28 16 |
| | eS | 31 34 |
| GC | eP | 17 32 52 |
| HUAN | eP | 17 30 31 |
| | iPP | 31 29 |
| | eS | 35 40 |
| | eL | 37 02 |
| LOG | eP | 17 32 02 |
| | eS | 38 16 |
| | eScS | 42 02 |
| | eL | 46 23 |
| NK | e(P) | 17 29 14 |
| | e(PcP) | 33 19 |
| PHIL | eP | 17 28 53 |
| | iP | 28 54 |
| | i | 29 09 |
| | e(S) | 32 46 |
| | i(S) | 32 50 |
| | eL | 33 06 |
| SLC | eS | 17 38 21 |
| | eL | 41 41 |
| SJ | eP | 17 24 58 |
| | iS | 25 28 |
| | iL | 25 40 |
| SH | iP | 17 32 58 |
| SIT | eS | 17 42 37 |
| | eScS | 44 09 |
| | eL | 48 44 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 17 31 37 |
| | iP | 31 38 |
| | ePP | 33 08 |
| | iPP | 33 15 |
| | ePPP | 33 48 |
| | eS | 37 34 |
| | eL | 40 35 |
| Aug. 8 | | |
| TUC | eP | 18 26 27 |
| Aug. 8 | | |
| TUC | e | 20 29 22 |
| Aug. 8 | | |
| TUC | e | 20 59 10 |
| Aug. 8 | | |
| OV | eP | 22 23 12 |
| Aug. 8 | | |
| TUC | eP | 22 52 09 |
| Aug. 8 | | |
| TUC | eP | 23 20 39 |
| Aug. 9 | | |
| TUC | e | 00 14 32 |
| Aug. 9 | | |
| PHIL | e(P) | 00 47 21 |
| | e(S) | 51 21 |
| | eL | 52 33 |
| SJ | eP | 00 43 28 |
| | i | 43 42 |
| | iS | 44 03 |
| | iL | 44 16 |
| TUC | e(P) | 00 50 08 |
| Aug. 9 | | |
| TUC | iP | 03 30 18 |
| | e | 30 36 |
| Aug. 9 | | |
| TUC | e | 03 51 43 |
| Aug. 9 | | |
| TUC | e | 06 03 04 |
| Aug. 9 | | |
| BH | eP | 08 29 11 |
| | eS | 31 38 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BC | iP | 08 33 44 |
| BOZ | eL | 08 47 18 |
| BUT | e | 08 36 29 |
| | eL | 46 06 |
| CHI | eP | 08 31 26 |
| | e(PP) | 32 21 |
| | eS | 36 08 |
| | eL | 38 41 |
| COL | eL | 08 59 22 |
| COLU | eP | 08 29 50 |
| | eS | 33 14 |
| | eL | 34 09 |
| GC | iP | 08 34 29 |
| HUAN | eP | 08 32 11 |
| | ePcP | 34 20 |
| | eS | 37 18 |
| | eL | 38 45 |
| LOG | eP | 08 33 40 |
| | eL | 46 32 |
| NK | eP | 08 30 45 |
| | eS | 35 07 |
| OV | iP | 08 33 43 |
| PHIL | iP | 08 30 27 |
| | i | 30 34 |
| | iPP | 30 54 |
| | eS | 34 27 |
| | eL | 34 44 |
| SLC | eP | 08 33 34 |
| | eS | 39 54 |
| | eL | 44 43 |
| SJ | iP | 08 26 32 |
| | i | 26 52 |
| | iS | 27 04 |
| | iL | 27 20 |
| SH | iP | 08 34 33 |
| SIT | eL | 08 52 38 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | iP | 08 33 12 |
| | i | 33 24 |
| | i | 33 38 |
| | ePP | 34 40 |
| | iPPP | 35 11 |
| | eL | 42 03 |
| UK | eL | 08 55 10 |
| Aug. 9 | | |
| TUC | eP | 09 53 40 |
| | e | 53 50 |
| Aug. 9 | | |
| SJ | eP | 10 10 23 |
| | eS | 10 53 |
| | iS | 10 57 |
| | iL | 11 08 |
| TUC | e | 10 17 10 |
| Aug. 9 | | |
| SIT | e | 10 42 50 |
| Aug. 9 | | |
| SJ | eP | 13 04 20 |
| | iS | 04 50 |
| | iL | 05 03 |
| TUC | eP | 13 10 51 |
| Aug. 9 | | |
| BC | iP | 16 41 55 |
| OV | iP | 16 41 55 |
| PHIL | eP | 16 38 51 |
| | eS | 42 36 |
| | eL | 43 55 |
| SJ | eP | 16 34 34 |
| | i | 34 53 |
| | iS | 35 06 |
| | iL | 35 20 |
| SIT | eL | 17 07 15 |
| TUC | eP | 16 41 24 |
| | e | 41 44 |
| | eL | 17 00 46 |
| Aug. 9 | | |
| TUC | iP | 17 42 04 |
| | e | 42 24 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 9 | | |
| BH | eP | 20 10 10 |
| | eS | 12 48 |
| BC | iP | 20 14 48 |
| BOZ | eS | 20 21 16 |
| | eScS | 24 44 |
| | eL | 25 40 |
| BUT | eP | 20 14 54 |
| | eS | 21 34 |
| | eL | 24 54 |
| CHI | eP | 20 12 27 |
| | eS | 17 10 |
| | e | 19 54 |
| COL | eS | 20 26 36 |
| | eL | 39 13 |
| COLU | eP | 20 10 54 |
| | eS | 14 13 |
| | eL | 15 30 |
| GC | eP | 20 15 31 |
| HUAN | eP | 20 13 09 |
| | ePP | 14 04 |
| | eS | 18 15 |
| | eL | 19 16 |
| LOG | eP | 20 14 53 |
| | eS | 21 08 |
| | eL | 29 13 |
| NK | eP | 20 11 56 |
| | eS | 15 58 |
| OV | iP | 20 14 42 |
| PHIL | eP | 20 11 32 |
| | i | 11 54 |
| | e | 12 49 |
| | eS | 15 25 |
| | eL | 16 39 |
| SJ | iP | 20 07 20 |
| | i | 07 39 |
| | iS | 07 48 |
| | iL | 08 00 |
| SH | iP | 20 15 37 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | eS | 20 25 18 |
| | eScS | 26 48 |
| TUC | iP | 20 14 16 |
| | i | 14 34 |
| | ePP | 15 43 |
| | iPP | 15 47 |
| | i | 16 32 |
| | eS | 20 10 |
| | eL | 23 20 |
| UK | e | 20 20 02 |
| | eS | 23 00 |
| Aug. 9 | | |
| BH | eP | 20 56 44 |
| | eS | 59 22 |
| BC | iP | 21 01 24 |
| HUAN | eP | 20 59 51 |
| | ePP | 21 00 56 |
| | eS | 04 50 |
| | eL | 07 32 |
| OV | e | 21 01 22 |
| SJ | eP | 20 54 11 |
| | iP | 54 12 |
| | iS | 54 40 |
| | iL | 54 46 |
| SH | eP | 21 02 12 |
| TUC | eP | 21 00 52 |
| | eL | 16 02 |
| Aug. 9 | | |
| PHIL | eP | 22 53 24 |
| | eS | 57 19 |
| | eL | 59 57 |
| TUC | e | 22 56 04 |
| Aug. 9 | | |
| TUC | e | 23 55 44 |
| | e | 57 47 |
| Aug. 10 | | |
| TUC | e | 00 08 16 |
| Aug. 10 | | |
| BC | iP | 02 18 31 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BOZ | eL | 02 32 28 |
| BUT | eP | 02 18 37 |
| | eS | 25 19 |
| | eL | 31 36 |
| CHI | eP | 02 16 12 |
| | eS | 20 53 |
| | eL | 21 19 |
| COL | eS | 02 30 29 |
| | eL | 38 25 |
| COLU | eP | 02 14 36 |
| | ePP | 15 24 |
| | eS | 18 04 |
| | eL | 19 23 |
| GC | eP | 02 19 15 |
| HUAN | eP | 02 16 57 |
| | ePP | 18 06 |
| | eS | 22 03 |
| | eL | 23 25 |
| OV | iP | 02 18 30 |
| PHIL | eP | 02 15 16 |
| | i | 15 21 |
| | ePP | 15 57 |
| | eS | 19 10 |
| | iS | 19 19 |
| | eL | 20 10 |
| SJ | eP | 02 11 18 |
| | iP | 11 20 |
| | iS | 11 48 |
| | iL | 12 03 |
| SH | eP | 02 19 19 |
| SIT | eL | 02 36 11 |
| TUC | iP | 02 17 59 |
| | i | 18 14 |
| | ePP | 19 24 |
| | ePcP | 19 48 |
| | e(S) | 24 21 |
| | eL | 26 44 |
| Aug. 10 | | |
| PHIL | eP | 07 03 29 |
| | e | 03 52 |
| | eS | 07 26 |
| | eL | 08 36 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | iP | 06 59 32 |
| | i | 07 00 00 |
| | iS | 00 09 |
| | iL | 00 24 |
| SH | eP | 07 07 33 |
| TUC | eP | 07 06 12 |
| Aug. 10 | | |
| TUC | iP | 08 46 20 |
| Aug. 10 | | |
| BC | iP | 09 08 21 |
| BUT | eP | 09 08 30 |
| | eS | 15 07 |
| | eL | 19 23 |
| CHI | eP | 09 06 07 |
| | ePP | 06 40 |
| | e(S) | 10 43 |
| | eL | 13 50 |
| COL | eS | 09 20 14 |
| | eL | 28 02 |
| COLU | eP | 09 04 29 |
| | eS | 07 37 |
| | eL | 08 44 |
| GC | eP | 09 09 05 |
| HUAN | eP | 09 06 49 |
| | ePP | 07 52 |
| | eS | 11 58 |
| | eL | 12 47 |
| OV | iP | 09 08 19 |
| PHIL | eP | 09 05 06 |
| | iP | 05 11 |
| | ePP | 05 47 |
| | eS | 09 02 |
| | iS | 09 07 |
| | eL | 10 09 |
| SJ | iP | 09 01 11 |
| | iS | 01 45 |
| | iL | 02 00 |
| SH | eP | 09 09 10 |
| SIT | eL | 09 25 28 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 09 07 49 |
| | iP | 07 50 |
| | i | 08 19 |
| | ePP | 09 23 |
| | eS | 13 52 |
| | eL | 16 44 |
| Aug. 10 | | |
| BH | eP | 11 49 16 |
| | eS | 51 46 |
| BC | iP | 11 53 49 |
| BOZ | eL | 12 06 20 |
| BUT | e | 11 54 48 |
| | e(S) | 12 00 37 |
| | eL | 05 31 |
| CHI | eP | 11 51 34 |
| | eS | 56 12 |
| | eL | 12 01 00 |
| COL | eS | 12 05 41 |
| | eL | 19 16 |
| COLU | eP | 11 49 58 |
| | eS | 53 13 |
| | eL | 54 29 |
| GC | eP | 11 54 34 |
| HUAN | eP | 11 52 16 |
| | ePP | 53 21 |
| | ePcP | 54 16 |
| | eS | 57 10 |
| | eL | 58 55 |
| OV | iP | 11 53 49 |
| PHIL | eP | 11 50 35 |
| | iP | 50 39 |
| | i | 51 19 |
| | e(S) | 54 32 |
| | i | 54 37 |
| | eL | 56 02 |
| SJ | iP | 11 46 40 |
| | iS | 47 10 |
| | iL | 47 29 |
| SH | eP | 11 54 39 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | e | 12 06 02 |
| | e | 09 20 |
| | eL | 14 56 |
| TUC | eP | 11 53 17 |
| | iP | 53 18 |
| | ePP | 54 46 |
| | ePPP | 55 20 |
| | eS | 59 24 |
| | eL | 12 02 10 |
| Aug. 10 | | |
| TUC | e | 12 41 03 |
| Aug. 10 | | |
| SH | eP | 13 43 02 |
| TUC | eP | 13 44 44 |
| Aug. 10 | | |
| PHIL | eP | 14 23 24 |
| | i | 23 50 |
| | eS | 26 54 |
| | eL | 28 44 |
| SJ | eP | 14 19 09 |
| | iS | 19 38 |
| | iL | 19 52 |
| TUC | eP | 14 26 08 |
| | e | 28 20 |
| Aug. 10 | | |
| SJ | eP | 18 16 06 |
| | iS | 16 34 |
| | iL | 16 45 |
| Aug. 11 | | |
| BER | ePP | 02 16 28 |
| | ePKS | 17 29 |
| | eSKS | 21 00 |
| | eSKSP | 26 29 |
| | eSSS | 38 30 |
| | eL | 49 32 |
| BC | iP | 02 07 45 |
| BOZ | eSKS | 02 18 41 |
| | eS | 19 38 |
| | ePS | 20 49 |
| | ePPS | 21 32 |
| | eSS | 26 30 |
| | eSSS | 29 51 |
| | e | 32 15 |
| | eL | 35 00 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BUT | ePP | 02 11 52 |
| | eSKS | 18 38 |
| | eL | 35 15 |
| CHI | eL | 02 49 29 |
| COL | eP | 02 06 48 |
| | e(PP) | 10 36 |
| | eS | 17 12 |
| | e | 17 52 |
| | eSS | 22 40 |
| COLU | eL | 03 20 18 |
| GC | eP | 02 07 18 |
| | i | 07 29 |
| | ePP | 11 15 |
| HONO | eP | 02 03 56 |
| | i | 04 16 |
| | e | 06 44 |
| | e | 07 20 |
| | iS | 11 31 |
| | eL | 17 09 |
| HUAN | eP' | 02 13 33 |
| | ePP | 16 03 |
| | ePPS | 26 46 |
| | eSS | 32 33 |
| | eSSS | 37 09 |
| | eL | 46 57 |
| $T_S$ = 9 sec. A = 2½ mm. | | |
| $T_L$ = 14 sec. $A_{max.}$ = 7.5mm. | | |
| LIN | ePS | 02 22 36 |
| | eSSS | 32 26 |
| | eL | 44 26 |
| OV | iP | 02 07 51 |
| PHIL | ePP | 02 15 16 |
| | ePKS | 16 44 |
| | eSKS | 20 29 |
| | ePS | 25 03 |
| | eSS | 32 14 |
| | eSSS | 36 38 |
| SLC | eP | 02 08 02 |
| | ePP | 11 51 |
| | eSKS | 18 37 |
| | ePS | 20 37 |
| | eSS | 26 00 |
| | eSSS | 29 53 |
| | eL | 33 01 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | eP' | 02 13 51 |
| | ePP | 16 35 |
| | iPKS | 17 29 |
| | e(SKS) | 20 11 |
| | eSKKS | 23 12 |
| | ePPS | 29 41 |
| | eSS | 34 50 |
| | eSSS | 40 04 |
| | eL | 52 06 |
| SH | eP | 02 07 21 |
| SIT | eP | 02 07 06 |
| | ePP | 10 32 |
| | iS | 17 32 |
| | eSS | 22 37 |
| | eL | 28 12 |
| TUC | eP | 02 08 04 |
| | ePP | 11 50 |
| | i | 12 04 |
| | i | 12 58 |
| | eSKS | 18 35 |
| | eSKKS | 19 05 |
| | e(S) | 19 30 |
| | ePS | 20 38 |
| | e(PPS) | 21 24 |
| | eSS | 26 00 |
| | eSSS | 29 36 |
| | eP'P' | 33 06 |
| | eL | 34 36 |
| UK | eS | 02 17 45 |
| | eL | 30 41 |
| Aug. 11 | | |
| BC | iP | 03 49 06 |
| GC | eP | 03 49 49 |
| OV | iP | 03 49 04 |
| SJ | eP | 03 41 49 |
| | iS | 42 20 |
| | iL | 42 34 |
| SH | iP | 03 49 55 |
| TUC | eP | 03 48 34 |
| | e | 48 55 |
| Aug. 11 | | |
| SJ | eP | 07 07 00 |
| | iS | 07 32 |
| | iL | 07 44 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Aug. 11 TUC | eP | 10 05 15 |
| Aug. 11 BC | iP | 13 20 49 |
| OV | eP | 13 20 47 |
| PHIL | eP | 13 17 25 |
| | ePP | 17 57 |
| | eS | 21 29 |
| | eL | 23 02 |
| SJ | iP | 13 13 17 |
| | i | 13 36 |
| | iS | 13 44 |
| | iL | 14 05 |
| SIT | eL | 13 45 44 |
| TUC | eP | 13 20 12 |
| | e | 20 34 |
| Aug. 11 SJ | eP | 13 32 08 |
| | eS | 32 37 |
| | iL | 32 54 |
| Aug. 11 BH | eP | 18 00 31 |
| | eS | 00 54 |
| Aug. 11 PHIL | eP | 18 35 18 |
| | eS | 39 00 |
| | eL | 40 27 |
| SIT | eL | 19 03 08 |
| Aug. 12 COLU | e | 02 46 24 |
| PHIL | eP | 02 44 05 |
| | e | 44 55 |
| | eS | 47 56 |
| | eL | 49 18 |
| SJ | eP | 02 40 01 |
| | iS | 40 33 |
| | iL | 40 51 |
| Aug. 12 SIT | e | 03 10 47 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Aug. 12 GC | iP | 07 09 06 |
| SH | eP | 07 08 31 |
| SIT | eL | 07 35 46 |
| TUC | eP | 07 08 50 |
| | e | 09 43 |
| | eL | 32 44 |
| Aug. 12 BOZ | eL | 09 53 44 |
| CHI | eS | 09 42 08 |
| | eL | 46 45 |
| COLU | eS | 09 39 16 |
| | eL | 40 32 |
| GC | eP | 09 40 14 |
| HUAN | eP | 09 38 19 |
| | eL | 48 20 |
| PHIL | eP | 09 36 38 |
| | e | 36 51 |
| | e(PP) | 37 29 |
| | eS | 40 30 |
| | eL | 41 40 |
| SLC | eL | 09 53 27 |
| SJ | eP | 09 32 51 |
| | eS | 33 22 |
| | iL | 33 40 |
| TUC | eP | 09 39 18 |
| | eL | 53 57 |
| Aug. 12 SIT | e | 10 02 12 |
| TUC | e | 09 54 21 |
| | e | 57 39 |
| Aug. 12 TUC | eP | 15 46 47 |
| | i | 47 00 |
| Aug. 13 TUC | eP | 05 03 02 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Aug. 13 BUT | eL | 08 51 11 |
| CHI | e | 08 39 22 |
| | e | 43 48 |
| | e | 44 31 |
| COLU | eL | 08 37 07 |
| SIT | eL | 09 00 00 |
| TUC | eL | 08 56 23 |
| Aug. 13 TUC | eP | 10 16 13 |
| Aug. 13 TUC | eP | 14 34 22 |
| Aug. 13 TUC | e | 21 05 49 |
| Aug. 13 SH | iP | 21 37 09 |
| | e | 37 47 |
| Aug. 13 COL | eL | 23 18 47 |
| HONO | eL | 23 25 40 |
| SIT | eL | 23 15 22 |
| Aug. 13 TUC | eP | 23 19 22 |
| Aug. 14 BUT | eL | 01 19 06 |
| CHI | eS | 01 06 50 |
| | eL | 11 06 |
| COLU | eS | 01 03 33 |
| | eL | 04 30 |
| HUAN | eP | 01 02 29 |
| | eL | 09 37 |
| PHIL | eP | 01.00 48 |
| | ePP | 01 09 |
| | eS | 04 21 |
| | eL | 05 52 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | eP | 00 56 49 |
| | eS | 57 25 |
| | iS | 57 28 |
| | iL | 57 40 |
| SIT | e | 01 29 18 |
| TUC | eP | 01 03 33 |
| | ePP | 03 54 |
| Aug. 14 TUC | eP | 04 24 33 |
| Aug. 14 BC | iP | 09 52 26 |
| | i | 52 40 |
| BOZ | eS | 10 01 32 |
| COL | eS | 09 56 03 |
| | e | 56 28 |
| | eL | 10 03 05 |
| GC | iP | 09 51 24 |
| | i | 51 42 |
| | ePPP | 55 25 |
| OV | iP | 09 52 31 |
| | e | 52 38 |
| SH | eP | 09 51 41 |
| SIT | eS | 09 57 06 |
| TUC | eP | 09 52 53 |
| | i | 53 06 |
| | e(S) | 10 03 48 |
| | eL | 19 04 |
| Aug. 14 TUC | iP | 10 06 43 |
| Aug. 14 HUAN | e | 13 51 22 |
| Aug. 14 TUC | e | 16 21 54 |
| Aug. 14 TUC | e | 16 22 15 |
| Aug. 14 TUC | e | 19 54 25 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 15 TUC | e | 00 18 06 |
| Aug. 15 HUAN | eP | 01 01 43 |
| | iP | 01 46 |
| | e | 02 33 |
| | e | 04 07 |
| | e | 05 46 |
| OV | eP | 01 09 33 |
| | e | 09 45 |
| SH | iP | 01 10 22 |
| TUC | eP | 01 09 14 |
| | i | 09 29 |
| Aug. 15 BER | eP' | 15 43 22 |
| | ePP | 45 37 |
| | ePKS | 46 40 |
| | iPKS | 46 42 |
| | ePS | 56 03 |
| | e | 58 40 |
| | e | 16 05 29 |
| | eL | 29 32 |
| BC | eP | 15 37 10 |
| | i | 37 12 |
| BOZ | eP | 15 37 42 |
| | ePP | 41 41 |
| | ePPP | 43 42 |
| | eSKS | 48 22 |
| | eS | 49 08 |
| | ePS | 50 36 |
| | eSS | 56 17 |
| | eL | 16 03 09 |
| BUT | ePP | 15 42 10 |
| | ePS | 50 30 |
| | eL | 16 09 22 |
| CHI | ePP | 15 43 32 |
| | eS | 50 48 |
| | ePS | 53 08 |
| | eSSS | 16 03 06 |
| | e | 06 11 |
| COL | ePP | 15 41 01 |
| | ePS | 49 39 |
| | eSS | 54 40 |
| | eL | 16 01 43 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COLU | eL | 16 21 00 |
| HONO | eP | 15 33 15 |
| | e | 37 06 |
| | e(S) | 41 07 |
| | eL | 46 21 |
| HUAN | e(S) | 15 50 35 |
| | e(PPS) | 53 54 |
| | eL | 16 08 54 |
| LOG | eP | 15 37 32 |
| | eSKS | 48 10 |
| | eS | 48 58 |
| | eL | 16 07 40 |
| OV | eP | 15 37 18 |
| | iP | 37 22 |
| PHIL | eP' | 15 43 40 |
| | ePP | 46 46 |
| | eSKS | 50 01 |
| | e | 52 43 |
| | ePPS | 55 26 |
| | eSS | 16 01 27 |
| | e | 08 11 |
| | eL | 14 20 |
| SJ | ePP | 15 45 00 |
| | ePKS | 46 05 |
| | ePS | 54 40 |
| | e | 16 02 05 |
| | e | 04 00 |
| | e | 05 00 |
| | eL | 13 20 |
| SH | eP | 15 36 58 |
| SIT | ePPP | 15 42 51 |
| | eS | 47 42 |
| | e | 48 16 |
| | ePS | 49 31 |
| | eSS | 55 02 |
| | eL | 16 05 56 |
| TUC | eP | 15 37 19 |
| | e | 39 38 |
| | eSKS | 48 30 |
| | ePS | 49 25 |
| | ePPS | 50 20 |
| | eSS | 54 54 |
| | eSSS | 58 16 |
| | eL | 16 02 17 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| UK | eP | 15 36 53 |
| | ePP | 39 35 |
| | eS | 47 22 |
| | eL | 16 00 31 |
| Aug. 15 TUC | eP | 18 06 36 |
| Aug. 15 TUC | eP | 19 02 25 |
| | e | 02 39 |
| | i | 02 44 |
| | eS | 03 14 |
| | i | 03 25 |
| | iL | 03 43 |
| Aug. 15 PHIL | eL | 20 19 35 |
| TUC | eP' | 19 45 17 |
| | ePP | 45 46 |
| | e | 47 22 |
| | eL | 20 30 52 |
| Aug. 15 TUC | e | 20 25 06 |
| Aug. 16 TUC | e | 02 29 32 |
| Aug. 16 TUC | eP | 03 10 22 |
| | e | 10 41 |
| Aug. 16 TUC | e | 04 02 34 |
| Aug. 16 TUC | eP | 15 31 49 |
| Aug. 16 CHI | ePcP | 17 22 24 |
| | eS | 24 36 |
| | eL | 26 26 |
| HUAN | eP | 17 20 59 |
| | ePP | 21 40 |
| | eS | 25 33 |
| | eL | 27 30 |
| PHIL | ePcP | 17 21 29 |
| | eS | 22 30 |
| | eL | 26 18 |
| SJ | eS | 17 15 20 |
| | eL | 20 32 |
| SIT | eL | 17 54 38 |
| TUC | eP | 17 21 27 |
| | e | 21 42 |
| | e | 24 18 |
| | eS | 27 28 |
| | eL | 30 20 |
| Aug. 16 TUC | eP | 18 02 24 |
| Aug. 16 TUC | e | 18 07 42 |
| | e | 08 33 |
| Aug. 16 TUC | eP | 19 56 55 |
| | e | 58 14 |
| Aug. 16 TUC | eP | 23 59 55 |
| | e | 00 03 14 |
| Aug. 17 HUAN | eL | 00 50 00 |
| Aug. 17 BC | iP | 04 52 43 |
| CHI | eL | 05 00 13 |
| COLU | eL | 04 53 50 |
| PHIL | eP | 04 49 27 |
| | eS | 53 23 |
| | eL | 55 15 |
| OV | iP | 04 52 43 |
| SJ | eP | 04 45 28 |
| | iS | 45 57 |
| | iL | 46 16 |
| TUC | eP | 04 52 12 |
| | e | 52 39 |
| | ePP | 53 43 |
| | e | 54 44 |
| Aug. 17 TUC | eP | 09 57 53 |
| | e | 10 50 05 |
| Aug. 17 BH | eP | 11 23 11 |
| | eS | 25 51 |
| BC | iP | 11 27 56 |
| CHI | eS | 11 30 07 |
| OV | iP | 11 27 55 |
| PHIL | eP | 11 24 49 |
| | e | 25 35 |
| | eS | 28 33 |
| | eL | 29 41 |
| SJ | eP | 11 20 32 |
| | iS | 21 01 |
| | iL | 21 14 |
| SH | eP | 11 28 44 |
| TUC | eP | 11 27 24 |
| | e | 27 39 |
| | eL | 49 40 |
| Aug. 17 TUC | e | 12 52 47 |
| Aug. 17 TUC | eP | 14 32 33 |
| | e | 34 25 |
| Aug. 17 TUC | e | 19 14 40 |
| Aug. 17 SH | e | 19 31 35 |
| Aug. 17 TUC | e | 23 50 23 |
| Aug. 17 BC | eP' | 23 56 05 |
| PHIL | e | 00 00 32 |
| | eS | 01 06 |
| | eScS | 01 36 |
| | eSS | 07 03 |
| | eL | 20 25 |
| TUC | eP' | 23 56 38 |
| | eL | 00 34 36 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 18 TUC | e | 00 31 10 |
| Aug. 18 PHIL | eP | 02 20 21 |
| | eS | 24 16 |
| | eL | 26 04 |
| Aug. 18 BC | iP | 06 59 33 |
| GC | i | 06 58 22 |
| | iP | 58 41 |
| | i | 59 09 |
| OV | iP | 06 59 34 |
| SH | iP | 06 58 51.5 |
| | i | 59 19 |
| | iPP | 07 01 37 |
| TUC | eP | 06 59 58 |
| | iP | 59 59 |
| | e | 07 00 19 |
| | e | 00 41 |
| | ePP | 03 18 |
| Aug. 18 TUC | eP | 10 47 09 |
| Aug. 18 CHI | eL | 13 33 29 |
| Aug. 18 HUAN | eP | 17 15 47 |
| | ePP | 16 51 |
| SJ | eP | 17 10 11 |
| | eS | 10 40 |
| | iS | 10 46 |
| | iL | 10 52 |
| TUC | eP | 17 16 52 |
| | e | 17 06 |
| | e | 17 47 |
| Aug. 18 SH | eP | 21 31 38 |
| | e | 32 38 |
| Aug. 19 GC | iP | 00 32 42 |
| | i | 33 14 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 19 SH | i | 01 13 04 |
| Aug. 19 TUC | eP | 03 19 15 |
| | i | 20 54 |
| Aug. 19 BC | iP | 04 11 10 |
| HUAN | eP | 04 09 33 |
| OV | iP | 04 11 10 |
| SJ | eP | 04 04 00 |
| | iS | 04 32 |
| | iL | 04 41 |
| SH | iP | 04 11 57 |
| | i | 12 01 |
| SIT | eL | 04 36 27 |
| TUC | eP | 04 10 40 |
| Aug. 19 BH | eP | 05 44 09 |
| | eS | 46 42 |
| BC | eP | 05 48 50 |
| BOZ | eL | 06 03 16 |
| CHI | e(S) | 05 50 58 |
| | eL | 52 42 |
| COLU | eS | 05 48 13 |
| GC | iP | 05 49 15 |
| HUAN | eP | 05 47 17 |
| | iP | 47 21 |
| | i | 47 55 |
| | ePP | 48 21 |
| | eS | 52 30 |
| | eL | 57 17 |
| OV | iP | 05 48 50 |
| PHIL | eP | 05 45 39 |
| | ePP | 46 06 |
| | e | 46 39 |
| | eS | 49 24 |
| | eL | 51 06 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | eP | 05 41 42 |
| | iS | 42 13 |
| | iL | 42 26 |
| SH | iP | 05 49 39 |
| | i | 49 55 |
| SIT | eL | 06 12 08 |
| TUC | eP | 05 48 17 |
| | e | 48 30 |
| | ePP | 49 40 |
| | e | 50 03 |
| | eL | 06 03 25 |
| Aug. 19 HUAN | eP | 07 12 57 |
| | iP | 13 00 |
| | iS | 13 35 |
| | i | 13 50 |
| | iL | 14 00 |
| Aug. 19 TUC | e | 16 35 33 |
| Aug. 19 GC | eP | 20 10 39 |
| SH | iP | 20 10 49 |
| | e | 14 24 |
| Aug. 19 TUC | e | 20 16 01 |
| Aug. 19 TUC | e | 23 35 35 |
| Aug. 20 BER | eL | 03 34 05 |
| CHI | eL | 03 38 39 |
| COLU | e | 03 32 07 |
| | eL | 36 22 |
| HUAN | e | 03 36 06 |
| | eS | 37 16 |
| | eL | 39 15 |
| PHIL | e | 03 33 18 |
| | eL | 38 14 |
| SJ | eL | 03 31 54 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 03 33 30 |
| | eS | 40 12 |
| | eL | 43 08 |
| Aug. 20 | | |
| BC | iP | 09 55 24 |
| GC | iP | 09 54 29 |
| HUAN | eP' | 10 02 22 |
| OV | eP | 09 55 18 |
| SH | eP | 09 54 43.5 |
| TUC | eP | 09 55 47 |
| Aug. 20 | | |
| BC | iP | 12 57 25 |
| BOZ | eL | 13 16 28 |
| BUT | eS | 13 03 44 |
| | e | 04 09 |
| | eL | 11 30 |
| CHI | eS | 12 59 41 |
| | e | 13 00 39 |
| | eL | 02 04 |
| GC | iP | 12 58 05 |
| OV | iP | 12 57 25 |
| PHIL | eP | 12 54 19 |
| | e | 54 39 |
| | ePP | 54 56 |
| | eS | 58 08 |
| | eL | 59 29 |
| SJ | eP | 12 50 08 |
| | iP | 50 09 |
| | iS | 50 39 |
| | iL | 50 52 |
| SH | iP | 12 58 14 |
| SIT | eL | 13 20 42 |
| TUC | eP | 12 56 54 |
| | e | 57 54 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 20 | | |
| TUC | eP | 14 53 38 |
| Aug. 20 | | |
| TUC | eP | 18 52 17 |
| Aug. 20 | | |
| TUC | eP | 22 05 07 |
| Aug. 20 | | |
| BER | eL | 23 23 08 |
| CHI | eL | 23 13 40 |
| HONO | eS | 22 27 30 |
| | eSS | 31 44 |
| | eL | 33 38 |
| SIT | eS | 22 32 52 |
| | eL | 53 00 |
| TUC | eL | 22 57 13 |
| Aug. 21 | | |
| TUC | e | 02 30 51 |
| Aug. 21 | | |
| TUC | eP | 03 29 58 |
| | iP | 29 59 |
| | i | 30 07 |
| | e | 35 36 |
| Aug. 21 | | |
| TUC | eP | 03 47 44 |
| Aug. 21 | | |
| BER | eL | 04 45 10 |
| PHIL | eL | 04 48 33 |
| TUC | eP | 04 35 51 |
| | eL | 49 03 |
| Aug. 21 | | |
| TUC | eP | 06 00 04 |
| Aug. 21 | | |
| TUC | e | 11 03 55 |
| Aug. 21 | | |
| PHIL | e | 14 34 38 |
| | e | 35 52 |
| | eS | 38 35 |
| | eL | 40 08 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 14 37 16 |
| | e | 37 30 |
| Aug. 21 | | |
| SH | eP | 16 33 18 |
| TUC | e | 16 35 48 |
| Aug. 21 | | |
| TUC | e | 18 11 27 |
| Aug. 21 | | |
| BER | ePP | 18 20 30 |
| | e | 26 02 |
| | eS | 28 14 |
| | ePS | 30 18 |
| | eSS | 36 56 |
| | esSS | 37 36 |
| | e | 39 58 |
| | e | 40 04 |
| | eSSS | 41 06 |
| | eL | 50 03 |
| BC | iP | 18 12 42 |
| | ipP | 13 03 |
| | iS | 23 00 |
| BOZ | eP | 18 13 21 |
| | ePP | 17 00 |
| | iSKS | 23 48 |
| | iS | 24 21 |
| | esS | 25 00 |
| | e | 26 28 |
| | e | 29 00 |
| | eSS | 30 24 |
| | esSS | 30 51 |
| | e | 36 45 |
| | eL | 38 27 |
| BUT | eP | 18 13 14 |
| | ePP | 16 52 |
| | eSKS | 23 42 |
| | eS | 24 07 |
| | esS | 24 53 |
| | e | 27 41 |
| | esSS | 30 14 |
| | eL | 37 29 |
| COL | e | 18 13 01 |
| | e | 16 37 |
| | eS | 23 24 |
| | e | 23 57 |
| | e | 25 14 |
| | e | 25 57 |
| | eSS | 29 32 |
| | eL | 42 37 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COLU | eSKS | 18 25 07 |
| | e | 26 32 |
| | e | 28 20 |
| GC | iP | 18 13 04 |
| HONO | eP | 18(08 58) |
| | iP | (09 00) |
| | ePcP | (10 06) |
| | eS | (16 02) |
| | e | (17 56) |
| | eL | (20 37) |
| HUAN | e(P) | 18 13 40 |
| | eSKS | 24 10 |
| | iS | 24 56 |
| | e | 25 25 |
| | e | 29 58 |
| | eL | 41 04 |
| LIN | e | 18 16 15 |
| | eS | 22 59 |
| LOG | iP | 18 13 07 |
| | iPP | 16 40 |
| | iS | 23 33 |
| | i | 23 55 |
| | i | 24 35 |
| | eL | 37 15 |
| OV | iP | 18 12 46 |
| | eS | 23 04 |
| SJ | ePP | 18 20 02 |
| | eSKS | 25 39 |
| | eSKKS | 26 19 |
| | eS | 27 26 |
| SH | iP | 18 12 32 |
| | ipP | 12 56 |
| SIT | eP | 18 12 59 |
| | iP | 13 01 |
| | ePP | 16 28 |
| | iS | 23 26 |
| | i | 24 12 |
| | eL | 35 22 |
| TUC | iP | 18 12 44 |
| | ipP | 13 09 |
| | i | 13 41 |
| | e | 15 32 |
| | ePP | 16 03 |
| | eS | 23 04 |
| TUC | esS | 18 23 46 |
| | e | 34 32 |
| | eP'P' | 39 08 |
| UK | eP | 18 12 23 |
| | eS | 22 31 |
| | eL | 34 16 |
| Aug. 21 | | |
| TUC | eP | 19 03 17 |
| | e | 03 50 |
| Aug. 21 | | |
| HUAN | e | 19 05 48 |
| TUC | eP | 19 06 55 |
| | e | 08 32 |
| Aug. 21 | | |
| BH | eP | 19 21 08 |
| | eS | 23 40 |
| BC | iP | 19 25 45 |
| | e | 31 45 |
| | eScS | 35 42 |
| BER | eP | 19 20 58 |
| | iS | 23 11 |
| | iL | 24 00 |

$T_P$ = 4 sec. A = 1.9 mm.
$T_S$ = 18 sec. A = 12½ mm.
$T_{Lmax.}$ = 11 sec. A = 34½mm.

| | | |
|---|---|---|
| BOZ | eP | 19 25 47 |
| | ePP | 27 39 |
| | eS | 32 08 |
| | eL | 35 51 |
| BUT | eP | 19 25 56 |
| | ePP | 27 24 |
| | eS | 32 27 |
| | e | 35 38 |
| | eL | 36 48 |
| CHI | eP | 19 23 28 |
| | iS | 28 06 |
| | iL | 30 44 |
| COL | eP | 19 28 30 |
| | ePP | 31 09 |
| | eS | 37 22 |
| | e | 38 14 |
| COL | eSS | 19 41 31 |
| | eL | 45 05 |
| COLU | eP | 19 21 47 |
| | eS | 25 06 |
| | eL | 26 10 |
| GC | iP | 19 26 29 |
| | eS | 33 34 |
| HUAN | eP | 19 24 08 |
| | i | 24 30 |
| | iPP | 25 24 |
| | iS | 29 14 |
| | eL | 30 00 |
| LIN | eP | 19 24 08 |
| | e | 24 53 |
| | eS | 29 12 |
| | eL | 31 33 |
| LOG | iP | 19 25 38 |
| | iPP | 26 58 |
| | iS | 31 58 |
| | e | 34 59 |
| | eL | 38 41 |
| NK | eP | 19 22 51 |
| | iS | 27 01 |
| | eL | 28 08 |
| OV | iP | 19 25 43 |
| PHIL | eP | 19 22 30 |
| | iP | 22 32 |
| | i | 23 15 |
| | eS | 26 23 |
| | iS | 26 25 |
| | iL | 27 06 |
| SJ | iP | 19 18 34 |
| | i | 19 01 |
| | iL | 19 08 |
| SH | iP | 19 26 33 |
| | e | 29 25 |
| | e | 30 35 |
| SIT | e(P) | 19 28 06 |
| | ePPP | 31 38 |
| | iS | 36 14 |
| | i | 37 50 |
| | iSS | 40 22 |
| | iL | 43 00 |

| Date and Station | Phase (GCT) | h m s |
|---|---|---|
| TUC | eP | 19 25 12 |
| | iP | 25 14 |
| | i | 25 58 |
| | i | 26 12 |
| | i(PP) | 26 32 |
| | i | 27 22 |
| | iS | 31 18 |
| | e | 32 03 |
| | i | 34 07 |
| | eL | 35 52 |
| UK | eP | 19 26 43 |
| | eS | 33 55 |
| | eL | 37 44 |
| Aug. 21 | | |
| PHIL | eP | 21 57 15 |
| | e | 57 50 |
| | eS | 22 01 02 |
| | eL | 02 35 |
| SJ | eP | 21 53 11 |
| | e | 53 20 |
| | i(S) | 53 50 |
| | iL | 54 00 |
| TUC | eP | 21 59 54 |
| Aug. 21 | | |
| TUC | e | 23 08 10 |
| Aug. 22 | | |
| TUC | eP | 01 25 14 |
| | e | 26 10 |
| Aug. 22 | | |
| COLU | eL | 01 55 37 |
| HUAN | eP | 01 51 34 |
| OV | eP | 01 53 06 |
| PHIL | eP | 01 49 56 |
| | e | 50 32 |
| | eS | 53 50 |
| | eL | 55 15 |
| SJ | eP | 01 46 02 |
| | iS | 46 35 |
| | iL | 46 45 |

| Date and Station | Phase (GCT) | h m s |
|---|---|---|
| TUC | eP | 01 52 34 |
| | e | 52 55 |
| | e | 53 26 |
| | e(PP) | 54 20 |
| Aug. 22 | | |
| HUAN | e | 02 01 34 |
| Aug. 22 | | |
| TUC | e | 11 33 44 |
| Aug. 22 | | |
| HUAN | e | 16 50 03 |
| | e(L) | 17 00 13 |
| TUC | e | 16 44 03 |
| | eL | 17 11 04 |
| Aug. 22 | | |
| TUC | eL | 17 11 08 |
| UK | eL | 17 12 10 |
| Aug. 22 | | |
| TUC | e | 21 40 50 |
| Aug. 22 | | |
| OV | eP | 21 48 36 |
| Aug. 22 | | |
| HUAN | e | 21 57 24 |
| Aug. 23 | | |
| OV | eP | 04 22 14 |
| TUC | eP | 04 22 16 |
| Aug. 23 | | |
| SIT | eL | 05 33 48 |
| TUC | eP | 05 29 22 |
| Aug. 23 | | |
| SIT | eL | 07 31 12 |
| Aug. 23 | | |
| BC | eP | 08 34 00 |
| OV | eP | 08 34 00 |
| SH | eP | 08 32 54 |
| TUC | eP | 08 34 40 |

| Date and Station | Phase (GCT) | h m s |
|---|---|---|
| Aug. 23 | | |
| TUC | e | 15 21 17 |
| Aug. 23 | | |
| HUAN | eP | 15 57 11 |
| | iS | 57 52 |
| | iL | 58 16 |
| Aug. 23 | | |
| TUC | e | 16 52 57 |
| Aug. 24 | | |
| BH | e | 02 44 11 |
| BC | eP | 02 49 01 |
| BUT | e | 02 50 11 |
| | e | 52 11 |
| | eL | 03 08 11 |
| CHI | e | 02 48 16 |
| | e | 49 24 |
| | e | 54 58 |
| | eL | 56 03 |
| COLU | eP | 02 47 12 |
| | e | 51 30 |
| | eL | 54 16 |
| HUAN | e(P) | 02 47 45 |
| | e | 48 02 |
| | e | 52 15 |
| | eL | 56 07 |
| LOG | e | 02 49 20 |
| | e | 03 00 00 |
| | eL | 09 06 |
| OV | eP | 02 49 08 |
| PHIL | e | 02 48 20 |
| | e | 48 59 |
| | eS | 52 49 |
| | eL | 53 21 |
| SJ | e | 02 47 13 |
| | e | 48 02 |
| | e | 50 53 |
| | e(L) | 52 12 |
| SIT | eL | 03 16 57 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 02 48 18 |
| | i | 48 37 |
| | e | 49 41 |
| | e | 54 27 |
| Aug. 24 TUC | i(P) | 02 51 23 |
| Aug. 24 TUC | e | 07 46 12 |
| Aug. 24 BC | e | 09 25 38 |
| OV | e | 09 25 35 |
| | e | 25 38 |
| Aug. 24 TUC | e | 11 10 51 |
| Aug. 24 CHI | eL | 13 15 08 |
| OV | eP | 13 04 22 |
| PHIL | eP | 13 01 38 |
| | eL | 11 52 |
| TUC | eP | 13 04 26 |
| | e | 04 32 |
| Aug. 24 BC | iP | 14 26 19 |
| BOZ | eS | 14 32 26 |
| | eL | 26 10 |
| BUT | eP | 14 26 31 |
| | eS | 32 59 |
| | eL | 36 25 |
| CHI | e | 14 24 19 |
| | eS | 28 37 |
| | eL | 30 21 |
| COL | e(S) | 14 38 03 |
| | e | 45 59 |
| | eL | 52 31 |
| COLU | e | 14 22 27 |
| | eS | 25 43 |
| | eL | 27 26 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | eP | 14 24 44 |
| | i | 26 20 |
| | e(S) | 29 56 |
| | eL | 34 27 |
| LOG | e | 14 26 12 |
| | e | 28 27 |
| | iS | 32 31 |
| | eL | 37 45 |
| OV | eP | 14 26 17 |
| PHIL | eP | 14 23 02 |
| | iP | 23 04 |
| | e | 23 33 |
| | iS | 26 57 |
| | eL | 27 58 |
| SJ | eP | 14 19 10 |
| | iS | 19 44 |
| | iL | 20 02 |
| SH | iP | 14 27 09 |
| SIT | eS | 14 36 48 |
| | eScS | 38 20 |
| | eL | 43 47 |
| TUC | eP | 14 25 48 |
| | i | 26 25 |
| | iPP | 27 34 |
| | eS | 32 08 |
| | e | 34 42 |
| | eL | 40 38 |
| UK | eL | 14 46 28 |
| Aug. 24 BH | e | 14 36 33 |
| | e | 39 15 |
| Aug. 25 TUC | e | 00 13 56 |
| Aug. 25 HUAN | iP | 01 10 08 |
| | i | 11 04 |
| | i(S) | 11 30 |
| | eL | 12 03 |
| TUC | iP | 01 17 09 |
| | i | 17 14 |
| | i | 17 17 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 25 OV | eP | 15 44 39 |
| TUC | iP | 15 44 43 |
| Aug. 25 TUC | e | 15 52 31 |
| Aug. 25 BC | e | 21 37 19 |
| | e | 38 22 |
| Aug. 26 BC | e | 02 47 12 |
| OV | e | 02 47 13 |
| Aug. 26 PHIL | eL | 22 10 06 |
| TUC | e | 21 49 14 |
| Aug. 27 TUC | iP | 07 22 22 |
| | epP | 22 49 |
| Aug. 27 HUAN | iP | 08 37 35 |
| | iS | 38 19 |
| | iL | 38 40 |
| TUC | eP | 08 45 40 |
| | e | 45 51 |
| Aug. 27 TUC | eP | 14 56 29 |
| Aug. 27 TUC | e | 16 09 37 |
| Aug. 27 TUC | e | 23 57 14 |
| | e | 57 44 |
| Aug. 28 BC | iP | 01 52 15 |
| OV | eP | 01 52 15 |
| SH | eP | 01 53 06 |
| TUC | iP | 01 52 17 |
| | i | 52 29 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | e | 01 53 45 |
| | eL | 02 25 24 |
| Aug. 28 | | |
| TUC | e | 05 51 22 |
| Aug. 28 | | |
| TUC | eP | 09 40 16 |
| Aug. 28 | | |
| TUC | eP | 13 26 04 |
| Aug. 28 | | |
| BER | eL | 21 12 06 |
| BC | eP | 20 18 49 |
| CHI | eL | 20 49 11 |
| HUAN | e | 20 30 27 |
| | e | 38 30 |
| | e | 52 00 |
| OV | eP | 20 18 54 |
| PHIL | e | 20 33 35 |
| | e | 35 18 |
| | e(PP) | 35 47 |
| | e(SKS) | 41 21 |
| | ePS | 45 12 |
| | e | 57 10 |
| | eL | 21 03 42 |
| SH | eP | 20 18 40 |
| SIT | e | 20 19 17 |
| | e(S) | 29 49 |
| | e | 37 31 |
| | eL | 43 10 |
| TUC | e | 20 18 54 |
| | i | 18 58 |
| | i | 19 43 |
| | e(SS) | 34 46 |
| | e | 41 23 |
| | eL | 45 38 |
| Aug. 28 | | |
| PHIL | e | 22 31 10 |
| | eS | 34 57 |
| | eL | 36 26 |
| TUC | e | 22 33 47 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 28 | | |
| BH | eP | 22 34 35 |
| | e(S) | 40 11 |
| | eL | 44 01 |
| BER | eP | 22 37 28 |
| | ePP | 39 40 |
| | iS | 44 48 |
| | i | 45 18 |
| | i | 46 21 |
| | esS | 48 00 |
| | eSS | 48 50 |
| | eL | 52 08 |
| $T_S$ = 3 sec. A = 2.1 mm. | | |
| $T_L$ = 17 sec. A = 0.8 mm. | | |
| BC | iP | 22 39 27 |
| | eS | 44 56 |
| BOZ | iS | 22 49 28 |
| CHI | eP | 22 38 42 |
| | epP | 40 40 |
| | iS | 47 12 |
| | iScS | 47 52 |
| | e | 50 37 |
| COLU | e | 22 39 17 |
| | iS | 45 30 |
| | eScS | 46 32 |
| | esS | 48 45 |
| | eSS | 49 44 |
| | e | 52 07 |
| HUAN | iP | 22 32 00 |
| | i | 32 18 |
| | i | 32 30 |
| | i | 32 38 |
| | i | 33 35 |
| | iS | 34 50 |
| | i | 35 21 |
| | iL | 35 42 |
| LOG | iP | 22 39 41 |
| | i | 39 59 |
| | i | 41 58 |
| | i | 42 05 |
| | iS | 49 05 |
| | eSS | 54 28 |
| | eL | 23 06 03 |
| MONT | eP | 22 30 06 |
| | iS | 31 26 |
| | iL | 31 59 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| NK | eP | 22 38 16 |
| | i(S) | 46 45 |
| | e | 47 30 |
| OV | iP | 22 39 28 |
| | ipP | 41 30 |
| | iS | 48 42 |
| PHIL | iP | 22 38 18 |
| | i | 38 33 |
| | e | 40 28 |
| | e | 41 18 |
| | iS | 46 18 |
| | iScS | 47 19 |
| | esS | 49 17 |
| | e(SS) | 50 39 |
| | eSSS | 54 13 |
| SJ | eP | 22 35 41 |
| | iS | 41 30 |
| | i | 41 56 |
| | i | 42 34 |
| | isS | 44 38 |
| | i | 45 05 |
| | iL | 45 38 |
| SH | eP | 22 40 02 |
| | iP | 40 03 |
| | iS | 49 48 |
| | iPKKP | 57 57 |
| | i | 58 51 |
| | eP'P' | 23 05 54 |
| SIT | e | 22 47 24 |
| | iSKS | 51 00 |
| | iS | 52 12 |
| | eSS | 59 36 |
| TUC | eP | 22 39 00 |
| | iP | 39 01 |
| | ipP | 40 59 |
| | iPP | 41 58 |
| | iPPP | 43 38 |
| | iS | 47 46 |
| | iSP | 48 20 |
| | i | 48 46 |
| | eL | 59 05 |
| | eP'P' | 23 06 31 |
| | eSKPP' | 09 13 |
| Aug. 29 | | |
| TUC | e | 00 21 17 |
| | e | 21 30 |
| | e | 21 50 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 29 | | |
| BC | iP | 04 07 25 |
| COL | eP | 04 01(49) |
| | eS | 02(38) |
| | eL | 02(56) |
| GC | eP | 04 05 28 |
| OV | iP | 04 07 22 |
| PHIL | eL | 04 24 18 |
| SH | eP | 04 06 10 |
| | iP | 06 21 |
| SIT | e | 04 02 27 |
| | e | 03 59 |
| | e(L) | 05 14 |
| TUC | e | 04 08 06 |
| | e | 08 26 |
| | e | 08 39 |
| Aug. 29 | | |
| TUC | e | 06 35 51 |
| Aug. 29 | | |
| TUC | eP | 06 42 57 |
| | e | 43 33 |
| Aug. 29 | | |
| SH | eP | 23 08 18 |
| TUC | eP | 23 08 40 |
| Aug. 30 | | |
| BC | e | 05 40 09 |
| | e(S) | 42 23 |
| | i | 42 29 |
| BUT | eL | 05 48 21 |
| CHI | eL | 05 50 32 |
| SH | eP | 05 41 44 |
| TUC | eP | 05 39 01 |
| | i | 39 16 |
| | eS | 39 59 |
| | i | 40 06 |
| | iL | 40 13 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 30 | | |
| BC | eP | 06 26 01 |
| OV | eP | 06 26 10 |
| | e | 26 15 |
| TUC | eP | 06 22 43 |
| | i | 22 59 |
| | i(S) | 23 44 |
| | i | 23 56 |
| | iL | 24 06 |
| Aug. 30 | | |
| SH | iP | 10 22 50 |
| | i | 22 56 |
| | eS | 23 20 |
| Aug. 30 | | |
| BC | eP | 11 12 14 |
| | e | 12 49 |
| OV | iP | 11 12 25 |
| | i | 12 35 |
| | eS | 13 16 |
| Aug. 30 | | |
| BC | e | 11 17 33 |
| | i | 17 40 |
| | eS | 18 22 |
| BUT | eL | 11 24 30 |
| OV | i(P) | 11 17 41 |
| | i | 17 51 |
| | i | 17 52 |
| | eL | 18 37 |
| TUC | eP | 11 17 50 |
| | i | 18 09 |
| | i(S) | 18 55 |
| | i | 19 03 |
| | iL | 19 12 |
| Aug. 30 | | |
| SH | iP | 16 16 17 |
| TUC | e | 16 17 40 |
| Aug. 30 | | |
| TUC | e | 18 46 30 |
| Aug. 30 | | |
| TUC | e | 20 18 02 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Aug. 30 | | |
| BC | iP | 20 29 16 |
| OV | eP | 20 29 18 |
| SH | eP | 20 28 08 |
| TUC | eP | 20 29 17 |
| | e | 29 29 |
| | e | 29 40 |
| Aug. 30 | | |
| TUC | eP | 23 44 10 |
| Aug. 30 | | |
| SH | iP | 23 46 09 |
| | eS | 48 23 |
| TUC | iP | 23 46 28 |
| | e | 46 44 |
| Aug. 31 | | |
| BC | e | 15 05 51 |
| OV | e | 15 06 15 |
| Aug. 31 | | |
| TUC | e | 20 58 42 |
| Sept. 2 | | |
| HUAN | eL | 00 58 36 |
| Sept. 2 | | |
| BC | iP | 13 07 21 |
| OV | iP | 13 07 23 |
| TUC | eP | 13 06 52 |
| | e | 07 28 |
| Sept. 2 | | |
| BC | iP | 21 57 17.5 |
| | ipP | 57 45 |
| | e | 22 06 22 |
| CHI | e | 21 57 31 |
| | eS | 22 01 15 |
| | esS | 02 07 |
| | eL | 23 02 13 |
| SJ | e | 21 57 44 |
| | eL | 22 02 28 |

| Date and Station | Phase | h m s |
|---|---|---|
| SH | eP | 21 58 20 |
| TUC | iP | 21 56 31 |
| | ipP | 56 57 |
| | isP | 57 06 |
| | i | 58 09 |
| | i | 58 10 |
| | eS | 22 00 30 |
| | eL | 01 03 |
| Sept. 3 | | |
| SH | iP | 04 29 15 |
| TUC | eP | 04 29 57 |
| Sept. 4 | | |
| BC | eP | 00 22 11 |
| SH | iP | 00 21 55 |
| TUC | eP | 00 22 11 |
| Sept. 4 | | |
| BC | iP | 08 11 51 |
| OV | iP | 08 11 39 |
| | i | 13 49 |
| TUC | iP | 08 12 21 |
| | e | 12 31 |
| | iPP | 14 06 |
| Sept. 4 | | |
| TUC | eP | 16 08 03 |
| Sept. 4 | | |
| BC | eP | 16 57 21 |
| Sept. 4 | | |
| BC | eP | 18 11 34 |
| Sept. 4 | | |
| SH | iP | 19 15 42 |
| | i | 15 45 |
| | i | 15 50 |
| Sept. 4 | | |
| GC | eP | 20 57 30 |
| Sept. 4 | | |
| SH | iP | 21 36 54.9 |

| Date and Station | Phase | h m s |
|---|---|---|
| Sept. 4 | | |
| SH | i(P) | 23 05 50.8 |
| | i | 05 52.8 |
| Sept. 4 | | |
| GC | iP | 23 59 06 |
| Sept. 5 | | |
| SH | eP | 01 47 18 |
| | e | 47 52 |
| TUC | iP | 01 48 40 |
| | i | 49 15 |
| Sept. 5 | | |
| TUC | eP | 03 03 22 |
| Sept. 5 | | |
| SH | e | 12 26 57 |
| | eS | 27 44 |
| Sept. 5 | | |
| SH | iP | 12 51 40 |
| Sept. 5 | | |
| SJ | e | 15 35 18 |
| | iL | 35 52 |
| TUC | e | 15 44 48 |
| Sept. 5 | | |
| BC | iP | 17 39 24 |
| SH | e(P) | 21 31 14 |
| | e | 32 07 |
| Sept. 6 | | |
| BC | eP | 04 33 54 |
| TUC | iP | 04 33 50 |
| | ipP | 33 56 |
| Sept. 6 | | |
| SH | eP' | 07 59 52 |
| TUC | eP' | 08 01 30 |
| | e | 06 40 |
| Sept. 6 | | |
| HUAN | iP | 09 55 17 |
| | e | 56 27 |
| | iL | 57 00 |

| Date and Station | Phase | h m s |
|---|---|---|
| Sept. 6 | | |
| SH | eP | 11 05 41 |
| Sept. 6 | | |
| BER | eS | 22 04 08 |
| | iL | 05 12 |
| BC | eP | 22 07 16 |
| CHI | eS | 22 09 20 |
| | eL | 11 49 |
| HUAN | eL | 22 11 02 |
| PHIL | eP | 22 04 07 |
| | ePP | 04 36 |
| | eS | 07 47 |
| | eL | 07 58 |
| SJ | eP | 22 00 12 |
| | i | 00 23 |
| | iS | 00 53 |
| SH | iP | 22 08 06 |
| SIT | eL | 22 31 27 |
| TUC | eP | 22 06 46 |
| | e | 07 26 |
| | e | 07 44 |
| Sept. 6 | | |
| TUC | e | 22 08 10 |
| Sept. 7 | | |
| TUC | iP | 05 14 54 |
| Sept. 7 | | |
| BC | iP | 08 11 01.5 |
| COL | eL | 08 20 40 |
| OV | iP | 08 11 00 |
| SH | iP | 08 10 10 |
| TUC | iP | 08 11 33 |
| Sept. 7 | | |
| BH | e | 10 54 33 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Sept. 7 | | |
| TUC | eP | 12 24 16 |
| | eL | 13 03 08 |
| Sept. 7 | | |
| BC | e | 12 34 14 |
| SH | eP | 12 33 57 |
| TUC | eP | 12 34 24 |
| Sept. 7 | | |
| SJ | e | 20 34 17 |
| | i | 34 28 |
| | e(L) | 35 02 |
| Sept. 8 | | |
| TUC | iP | 07 25 15 |
| Sept. 8 | | |
| TUC | eP | 11 45 32 |
| Sept. 8 | | |
| OV | i | 18 48 15 |
| | i | 48 27 |
| | iS | 48 28 |
| Sept. 9 | | |
| BC | eP | 10 54 45 |
| CHI | eL | 11 36 18 |
| COL | e(P) | 10 47 45 |
| | eS | 56 46 |
| | e(SS) | 11 01 00 |
| | eL | 07 39 |
| GC | iP | 10 49 37 |
| HONO | eP | 10 48 22 |
| | i | 48 54 |
| | eS | 57 26 |
| | eL | 11 11 32 |
| HUAN | eP' | 10 56 25 |
| | e | 11 07 51 |
| | e | 09 55 |
| | eSS | 20 58 |
| | eL | 52 01 |
| OV | eP | 10 50 29 |
| PHIL | eL | 11 33 14 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| SIT | eP | 10 48 25 |
| | iP | 48 28 |
| | iS | 58 17 |
| | eL | 11 18 35 |
| TUC | eP | 10 50 54 |
| | eP' | 54 56 |
| | ePP | 55 16 |
| | ePS | 11 04 05 |
| | eL | 25 25 |
| Sept. 9 | | |
| TUC | eP | 17 39 21 |
| Sept. 10 | | |
| BC | eP | 00 31 00 |
| HUAN | eP | 00 26 14 |
| | iS | 31 30 |
| | eL | 33 27 |
| OV | iP | 00 31 02 |
| PHIL | e | 00 41 37 |
| | e | 44 57 |
| | e | 50 03 |
| | eL | 52 46 |
| SH | iP | 00 31 33 |
| TUC | eP | 00 30 28 |
| | ePP | 31 11 |
| | e | 33 06 |
| Sept. 10 | | |
| BOZ | eL | 02 20 02 |
| Sept. 10 | | |
| BC | iP | 06 10 32 |
| Sept. 10 | | |
| TUC | eP | 19 53 27 |
| Sept. 10 | | |
| SH | iP | 21 36 57 |
| | e | 37 24 |
| Sept. 11 | | |
| BUT | eS | 02 18 13 |
| | eL | 19 27 |
| GC | eP | 02 17 39 |
| SLC | eL | 02 21 47 |

| Date and Station | Phase | (GCT) h m s |
|---|---|---|
| Sept. 11 | | |
| BOZ | eL | 02 32 27 |
| BUT | eL | 02 32 31 |
| COL | e | 02 05 48 |
| | e | 06 04 |
| | eS | 06 41 |
| | eL | 07 00 |
| PHIL | eL | 02 27 58 |
| SIT | e | 02 10 12 |
| | i | 10 55 |
| TUC | eP | 02 12 13 |
| | ePP | 14 08 |
| | eS | 19 46 |
| | eL | 29 35 |
| Sept. 11 | | |
| TUC | eP | 02 24 41 |
| Sept. 11 | | |
| SH | e | 06 42 10 |
| Sept. 11 | | |
| SH | iP | 09 31 43 |
| Sept. 11 | | |
| BER | eL | 10 39 20 |
| BC | eP' | 10 14 46 |
| HUAN | eL | 10 52 00 |
| OV | eP' | 10 14 40 |
| | e | 14 51 |
| PHIL | eL | 10 45 17 |
| TUC | eP' | 10 14 44 |
| | ePP | 17 09 |
| | eL | 11 07 47 |
| Sept. 11 | | |
| BC | eP | 12 36 28 |
| OV | iP | 12 36 29 |
| SH | iP | 12 36 02 |
| TUC | eP | 12 36 45 |
| | eL | 13 15 41 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 11 | | |
| BC | eP | 13 14 08 |
| OV | iP | 13 14 10 |
| SLC | eL | 14 19 36 |
| SH | iP | 13 13 42 |
| TUC | eP | 13 14 22 |
| Sept. 11 | | |
| BC | iP | 23 00 52.5 |
| | i | 01 06.5 |
| Sept. 12 | | |
| BER | ePP | 14 17 40 |
| | ePKS | 18 37 |
| | eSKSP | 28 01 |
| | e | 31 13 |
| | eSS | 35 40 |
| | eL | 50 45 |
| BC | eP | 14 09 09 |
| | ePP | 12 59 |
| BOZ | eSKS | 14 20 01 |
| | e | 26 46 |
| | eSSS | 31 37 |
| | eL | 37 30 |
| COL | eS | 14 18 19 |
| | eSS | 24 23 |
| | eSSS | 27 47 |
| | eL | 30 08 |
| HONO | eL | 14 19 56 |
| OV | iP | 14 09 12 |
| PF | eP | 14 09 11 |
| | iP | 09 14.5 |
| | iPP | 13 05 |
| SLC | eL | 14 42 31 |
| SJ | eL | 15 02 39 |
| SH | iP | 14 08 45 |
| TUC | eP | 14 09 25 |
| | ePP | 13 23 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 12 | | |
| BC | iP | 14 19 09.5 |
| OV | iP | 14 19 08 |
| PF | iP | 14 19 13 |
| SH | iP | 14 18 04 |
| Sept. 12 | | |
| PF | eP | 05 11 53 |
| | e | 14 25 |
| BC | e | 05 14 40 |
| Sept. 12 | | |
| BER | ePP | 15 37 40 |
| | eSKS | 42 38 |
| | eSKKS | 44 32 |
| | ePS | 47 28 |
| | e | 48 58 |
| | iSS | 54 00 |
| | eL | 16 05 40 |
| BC | eP' | 15 35 26 |
| | ePP | 36 30 |
| | e | 39 40 |
| | ePKKP | 46 47 |
| BOZ | ePP | 15 36 03 |
| | eSKS | 42 11 |
| | iSKS | 42 15 |
| | eL | 16 07 09 |
| BUT | ePP | 15 35 58 |
| | ePPP | 37 50 |
| | eSKS | 42 10 |
| | eSS | 49 48 |
| | eL | 59 00 |
| CHI | eP' | 15 35 19 |
| | ePP | 37 02 |
| | eS | 43 57 |
| | ePPS | 47 33 |
| | eSS | 50 56 |
| | eSSS | 55 46 |
| | eL | 16 01 05 |
| COL | eP | 15 29 23 |
| | ePP | 31 57 |
| | eS | 39 21 |
| | i | 41 14 |
| | eSS | 44 27 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COL | eSSS | 15 48 15 |
| | eL | 51 27 |
| GC | eP' | 15 39 03 |
| HONO | eP | 15 31 35 |
| | ePP | 34 20 |
| | ePPP | 36 45 |
| | eSKS | 41 18 |
| | iSKS | 41 26 |
| | iPS | 43 26 |
| | iSS | 48 56 |
| | eSSS | 53 31 |
| | eL | 58 21 |

$T_{PS}$ = 20 sec. A = $3\frac{1}{2}$ mm.
$T_{SS}$ = 20 sec. A = 4 mm.

| | | |
|---|---|---|
| HUAN | eP' | 15 37 28 |
| | i | 38 01 |
| | i | 38 24 |
| | iPP | 41 05 |
| | i | 41 48 |
| | iSKKS | 47 52 |
| | iSKSP | 51 50 |
| | i | 53 09 |
| | iSSS | 16 06 59 |
| | eL | 21 43 |
| LIN | eS | 15 44 34 |
| | eL | 16 03 23 |
| LOG | ePP | 15 36 33 |
| | eSKS | 42 05 |
| | eSS | 50 27 |
| | e | 57 04 |
| | eL | 16 07 52 |
| OV | e | 15 32 12 |
| | eP' | 35 27 |
| PHIL | ePP | 15 37 07 |
| | eSKS | 42 38 |
| | eSS | 52 56 |
| | eL | 16 07 30 |
| PF | eP | 15 32 20 |
| | ePP | 36 37 |
| | i | 49 40 |
| SJ | iPKS | 15 40 07 |
| | eSKS | 43 14 |
| | ePS | 49 25 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SJ | eSS | 15 55 59 |
| | e | 57 08 |
| | iSS | 16 00 10 |
| | eL | 11 28 |
| SEA | eSKS | 15 44 40 |
| | eS | 45 32 |
| | ePS | 47 09 |
| | eL | 16 01 50 |
| SH | eP' | 15 34 24 |
| | ePP | 36 07 |
| SIT | iP | 15 30 16 |
| | eP | 30 18 |
| | iPP | 33 48 |
| | iS | 40 44 |
| | eSS | 46 40 |
| | eL | 53 08 |
| TUC | eP' | 15 36 02 |
| | e | 36 30 |
| | ePP | 37 20 |
| | iPP | 37 33 |
| | eSKS | 43 06 |
| | eSKKS | 44 24 |
| | ePS | 47 08 |
| | iPS | 47 10 |
| | iPPS | 49 16 |
| | eSS | 54 40 |
| | iSSS | 57 00 |
| | iL | 16 04 08 |
| Sept. 12 | | |
| BH | eP' | 15 37 11 |
| BER | ePP | 15 40 28 |
| | eSKS | 45 33 |
| | ePS | 50 28 |
| | e | 51 50 |
| | eSS | 57 26 |
| | eL | 16 09 00 |
| BOZ | ePP | 15 39 13 |
| | iSKS | 45 17 |
| | eS | 46 22 |
| | iPS | 47 30 |
| | eSS | 54 58 |
| BUT | ePP | 15 38 58 |
| | eSKS | 42 09 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| CHI | ePP | 15 39 14 |
| | eS | 46 50 |
| | ePPS | 50 24 |
| COL | eP | 15 32 29 |
| | ePP | 35 06 |
| COLU | eL | 16 09 30 |
| HONO | ePP | 15 37 34 |
| | iPPP | 40 06 |
| | iPS | 46 16 |
| | iSSS | 56 20 |
| | eL | 16 01 15 |
| $T_L$ = 21 sec. $A_{max.}$ = 11½mm. | | |
| HUAN | iP' | 15 40 18 |
| | ePP | 44 12 |
| | i | 52 20 |
| | i | 56 47 |
| | i | 57 36 |
| | iSSS | 16 10 07 |
| | eL | 25 30 |
| OV | ePP | 15 39 37 |
| PHIL | ePP | 15 39 37 |
| | eSKS | 44 56 |
| | iS | 46 56 |
| | ePS | 49 50 |
| | eSS | 56 04 |
| | eSSS | 16 01 18 |
| PF | eP | 15 34 25 |
| | ePP | 39 38 |
| | i(PS) | 49 40 |
| SJ | eP' | 15 39 07 |
| | ePP | 41 40 |
| | ePKS | 42 56 |
| | e | 47 17 |
| | ePS | 52 26 |
| | iSS | 58 37 |
| | eSSS | 16 04 26 |
| | eL | 14 26 |
| SEA | ePPP | 15 40 10 |
| | eSS | 48 36 |
| | eSSS | 53 11 |
| | eL | 57 24 |
| SH | iPP | 15 38 55 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | eP | 15 33 02 |
| | ePP | 36 05 |
| | iS | 43 24 |
| | eSS | 49 47 |
| | eL | 53 24 |
| TUC | iP' | 15 39 03 |
| | iPP | 40 08 |
| | eSKS | 46 08 |
| | ePS | 50 14 |
| | iPPS | 52 03 |
| | i | 16 02 40 |
| | e | 02 58 |
| | eL | 12 05 |
| Sept. 12 | | |
| GC | eP | 16 13 23 |
| | i | 20 33 |
| Sept. 12 | | |
| BH | eP | 17 43 00 |
| | eS | 45 31 |
| BER | eP | 17 42 45 |
| | iS | 45 18 |
| | iL | 45 20 |
| $T_{Lmax.}$ = 10½ sec. A = 25mm. | | |
| BC | iP | 17 47 30.5 |
| CHI | eP | 17 45 24 |
| | e | 45 45 |
| | eS | 49 56 |
| | eL | 52 10 |
| COLU | eP | 17 43 36 |
| | eS | 46 43 |
| | eL | 47 23 |
| GC | iP | 17 48 16 |
| HUAN | iP | 17 46 04 |
| | i | 46 55 |
| | eS | 51 28 |
| | eL | 53 50 |
| LIN | eL | 17 51 44 |
| OV | iP | 17 47 29 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PHIL | iP | 17 44 15 |
| | iPP | 44 57 |
| | e | 45 00 |
| | iS | 48 04 |
| | iL | 50 02 |
| PF | iP | 17 47 25 |
| | ePP | 49 05 |
| SH | eP | 17 48 19 |
| TUC | iP | 17 46 48 |
| | iPcP | 49 12 |
| Sept. 12 | | |
| BC | iP | 18 53 09.5 |
| | iS | 56 56.5 |
| OV | iP | 18 53 09 |
| PF | iP | 18 53 11 |
| SH | iP | 18 52 41 |
| TUC | eP | 18 53 23 |
| Sept. 12 | | |
| OV | eP | 19 14 22 |
| PF | iP | 19 14 17 |
| TUC | eP | 19 13 25 |
| Sept. 13 | | |
| BER | iP | 04 58 22 |
| | iS | 05 01 40 |
| | iL | 01 50 |
| BC | eP | 05 04 07 |
| CHI | eL | 05 09 24 |
| OV | eP | 05 04 05 |
| PHIL | eL | 05 05 44 |
| PF | iP | 05 04 03.5 |
| SJ | eP | 04 59 18 |
| | eL | 05 03 42 |
| SH | eP | 05 04 33 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | eP | 05 03 54 |
| Sept. 13 | | |
| HUAN | iP | 08 10 22 |
| | i | 10 48 |
| PF | iP | 08 19 03.5 |
| TUC | iP | 08 18 31 |
| Sept. 13 | | |
| BER | ePP | 16 09 55 |
| | ePKS | 20 35 |
| | eL | 55 00 |
| BC | eP | 16 00 28 |
| | ePPP | 05 43 |
| | e | 09 52 |
| HUAN | eL | 16 48 00 |
| OV | eP | 16 00 35 |
| | iPPP | 05 57 |
| | e | 10 00 |
| PF | eP | 16 00 32 |
| | i | 00 52 |
| | e | 05 39 |
| | e | 09 24 |
| | i | 09 39 |
| | eS | 11 19 |
| SH | eP | 16 00 14 |
| | i | 00 35 |
| TUC | eP | 16 00 38 |
| Sept. 13 | | |
| BOZ | eS | 16 11 37 |
| | eL | 14 37 |
| CHI | eS | 16 12 35 |
| | eL | 14 58 |
| COLU | eL | 16 17 29 |
| LIN | eL | 16 13 00 |
| PHIL | eL | 16 19 10 |
| SLC | eP | 16 06 31 |
| | eL | 11 48 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | eL | 16 23 29 |
| TUC | eP | 16 04 36 |
| | eS | 06 41 |
| | eL | 07 11 |
| Sept. 13 | | |
| BER | iP | 19 11 58 |
| | ePP | 15 20 |
| | eS | 22 26 |
| | iS | 22 55 |
| | eL | 34 13 |
| BC | iP | 19 09 19 |
| | e | 16 34 |
| | eP'P' | 38 33 |
| BOZ | eP | 19 08 41 |
| | eS | 16 29 |
| | e | 17 03 |
| | eSS | 20 20 |
| | eL | 24 00 |
| BUT | eP | 19 08 40 |
| | eS | 16 18 |
| | e | 16 42 |
| | eL | 31 19 |
| CHI | eP | 19 10 19 |
| | ePPP | 14 46 |
| | eS | 19 33 |
| | eSS | 33 34 |
| | eL | 39 12 |
| COL | eP | 19 05 15 |
| | ePP | 06 18 |
| | eS | 10 06 |
| | eL | 12 33 |
| GC | iP | 19 08 05 |
| | i | 08 12 |
| HONO | eP | 19 06 59 |
| | iPP | 09 27 |
| | iS | 13 07 |
| | eL | 19 10 |
| OV | iP | 19 09 18 |
| | eS | 17 33 |
| | ePKKP | 38 32 |
| | e | 38 44 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PHIL | eP | 19 10 59 |
| | ePP | 13 34 |
| | ePPP | 15 42 |
| | eS | 20 46 |
| | eL | 29 56 |
| PF | iP | 19 09 22 |
| | iS | 17 39 |
| | eP'P' | 38 43 |
| SH | iP | 19 08 25 |
| | i | 08 42 |
| | eS | 15 54 |
| SIT | iP | 19 06 19 |
| | iPP | 07 47 |
| | iS | 12 04 |
| | eL | 14 37 |
| TUC | iP | 19 09 51 |
| | ipP | 10 06 |
| | iS | 18 32 |
| Sept. 13 | | |
| BC | iP | 19 46 31 |
| | eS | 50 33 |
| BOZ | eL | 19 56 03 |
| BUT | eL | 19 56 09 |
| CHI | eL | 19 56 41 |
| OV | iP | 19 46 36 |
| | eS | 50 58 |
| PHIL | eL | 19 59 51 |
| PF | iP | 19 46 28 |
| | eS | 50 16 |
| SH | iP | 19 47 57 |
| TUC | iP | 19 45 26 |
| | eS | 47 24 |
| | eL | 47 39 |
| Sept. 13 | | |
| BC | eP | 20 09 17 |
| | eS | 13 35 |
| BOZ | eS | 20 15 07 |
| | eL | 18 11 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BUT | eL | 20 19 06 |
| CHI | eL | 20 18 18 |
| LIN | eS | 20 14 20 |
| | eL | 16 28 |
| OV | eP | 20 09 21 |
| | eS | 13 40 |
| | i | 22 58 |
| PHIL | eL | 20 22 45 |
| PF | eP | 20 09 13 |
| | i | 12 34 |
| | eS | 13 02 |
| | i | 22 50 |
| SH | eP | 20 10 43 |
| TUC | eP | 20 08 11 |
| | eS | 10 11 |
| | eL | 10 24 |
| Sept. 13 | | |
| TUC | eP | 20 21 47 |
| Sept. 13 | | |
| SH | e | 22 05 49 |
| Sept. 13 | | |
| BER | eL | 23 10 48 |
| Sept. 14 | | |
| TUC | eP | 00 32 34 |
| Sept. 14 | | |
| BER | eL | 01 06 18 |
| Sept. 14 | | |
| SH | eP | 01 54 54 |
| TUC | eP | 01 56 03 |
| Sept. 14 | | |
| BC | iP | 02 57 06 |
| OV | iP | 02 57 08 |
| | eS | 03 07 26 |
| PF | iP | 02 57 09 |
| SH | iP | 02 56 57 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | iP | 02 57 09 |
| | i | 57 58 |
| Sept. 14 | | |
| BC | iP | 05 19 36.5 |
| OV | iP | 05 19 36 |
| PF | iP | 05 19 39 |
| SH | iP | 05 18 43 |
| TUC | iP | 05 20 09 |
| Sept. 14 | | |
| BER | eL | 06 25 00 |
| BC | e | 06 19 05 |
| | eS | 23 12 |
| BOZ | eS | 06 24 57 |
| | eL | 27 22 |
| BUT | e | 06 25 06 |
| | eL | 29 46 |
| CHI | eS | 06 25 57 |
| | eL | 28 22 |
| COLU | e | 06 26 08 |
| | eL | 30 15 |
| HONO | eL | 06 25 29 |
| LOG | eP | 06 20 10 |
| | i | 21 01 |
| | e | 25 43 |
| | eL | 26 22 |
| OV | eP | 06 19 10 |
| | iP | 19 31 |
| | eS | 23 08 |
| PHIL | eL | 06 32 31 |
| PF | eP | 06 19 02 |
| | eS | 22 46 |
| SLC | eP | 06 19 56 |
| | eS | 23 25 |
| | eL | 24 51 |
| SH | eP | 06 20 33 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | eL | 06 46 19 |
| TUC | eP | 06 17 59 |
| | eS | 19 47 |
| | eL | 20 04 |
| Sept. 14 | | |
| BC | iP | 09 04 08 |
| | i | 04 16 |
| | e | 04 53.5 |
| OV | eP | 09 04 19 |
| | iP | 04 25 |
| | eS | 05 04 |
| PF | iP | 09 04 24.5 |
| | e | 04 28 |
| | i | 04 29.5 |
| | iS | 05 06 |
| SH | eP | 09 06 27 |
| Sept. 14 | | |
| TUC | eP | 19 42 08 |
| Sept. 14 | | |
| BC | ePP | 20 08 35 |
| HUAN | eSS | 20 23 12 |
| | i | 24 31 |
| | eL | 43 20 |
| PF | eP' | 20 07 29 |
| | ePP | 08 38 |
| | iPKKP | 18 03 |
| SEA | eSS | 20 23 58 |
| | eL | 36 59 |
| TUC | eP | 20 08 40 |
| | eL | 34 30 |
| Sept. 14 | | |
| BC | eP | 22 11 02 |
| PF | iP | 22 11 04 |
| SH | eP | 22 10 47 |
| TUC | eP | 22 11 08 |
| Sept. 15 | | |
| OV | iP | 02 41 14 |
| PF | iP | 02 41 17.5 |
| Sept. 15 | | |
| OV | iP | 03 35 21 |
| PF | iP | 03 35 34 |
| SH | iP | 03 34 21.5 |
| TUC | eP | 03 35 59 |
| | e | 36 15 |
| Sept. 15 | | |
| BH | eP | 05 22 28 |
| | iS | 23 13 |
| BC | eP | 05 29 47 |
| HUAN | eP | 05 25 27 |
| | iS | 28 48 |
| | iL | 30 31 |
| OV | iP | 05 29 47 |
| PF | iP | 05 29 42 |
| SJ | iP | 05 25 31 |
| | e | 28 44 |
| SEA | eL | 06 33 30 |
| TUC | iP | 05 29 08 |
| | eS | 35 29 |
| | eL | 38 28 |
| Sept. 15 | | |
| HUAN | iP | 07 49 15 |
| Sept. 15 | | |
| PF | iP | 08 02 05.5 |
| SH | eP | 08 01 10 |
| TUC | eP | 08 02 33 |
| Sept. 15 | | |
| TUC | eP | 09 59 33 |
| Sept. 15 | | |
| BER | iL | 16 16 25 |
| OV | i(P) | 16 08 52 |
| PF | i(P) | 16 08 54 |
| | e | 10 57 |
| TUC | iP | 16 09 05 |
| | i | 12 27 |
| | i | 13 10 |
| Sept. 15 | | |
| BC | iP | 16 18 16 |
| HUAN | eS | 16 21 17 |
| | iL | 22 49 |
| OV | iP | 16 18 15 |
| | i | 18 44 |
| PHIL | eP | 16 15 06 |
| | ePP | 15 44 |
| | eS | 18 58 |
| | eL | 19 47 |
| PF | iP | 16 18 11 |
| | iPP | 19 57 |
| | eL | 27 55 |
| SJ | iP | 16 11 02 |
| | iS | 11 34 |
| | iL | 11 43 |
| TUC | iP | 16 17 44 |
| | ePP | 19 14 |
| Sept. 15 | | |
| LOG | iP | 19 54 44 |
| | i | 54 49 |
| | i(L) | 55 28 |
| Sept. 15 | | |
| LOG | iP | 22 01 54 |
| | iL | 02 02 |
| Sept. 16 | | |
| SH | e | 01 45 36 |
| Sept. 16 | | |
| SJ | iP | 07 33 02 |
| | iS | 33 28 |
| | iL | 33 36 |
| Sept. 16 | | |
| BC | eP | 10 03 52 |
| BOZ | eL | 11 13 28 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| CHI | eL | 10 19 34 |
| COL | eP | 10 00 05 |
| | e | 02 27 |
| | eL | 03 38 |
| HONO | eL | 10 10 41 |
| PHIL | eL | 10 22 48 |
| PF | eP | 10 03 48 |
| SH | eP | 10 02 39 |
| SIT | eP | 10 00 27 |
| | i | 03 26 |
| | e | 04 15 |
| TUC | eP | 10 04 25 |
| | ePP | 05 51 |
| | eL | 19 18 |
| Sept. 16 | | |
| BC | eP | 12 29 42 |
| | eS | 34 03 |
| CHI | eL | 12 44 54 |
| COLU | eL | 12 41 07 |
| PHIL | eL | 12 43 56 |
| PF | eP | 12 29 37 |
| | eS | 33 38 |
| SLC | eL | 12 44 14 |
| TUC | iP | 12 28 37 |
| | eS | 30 28 |
| | eL | 30 45 |
| Sept. 17 | | |
| GC | eP | 19 46 29 |
| | i | 47 39 |
| PF | iP | 19 48 37 |
| SH | eP | 19 46 27 |
| | i | 46 56 |
| TUC | iP | 19 49 31 |
| Sept. 18 | | |
| BER | eL | 02 23 10 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BC | iP | 02 14 20 |
| | iPP | 14 41.5 |
| | eL | 21 33 |
| BOZ | eS | 02 20 31 |
| | eL | 25 16 |
| BUT | eL | 02 26 16 |
| CHI | eP | 02 15 01 |
| | eS | 19 47 |
| | eL | 24 17 |
| GC | eP | 02 16 03 |
| LOG | eP | 02 15 13 |
| | eL | 23 43 |
| OV | iP | 02 14 23 |
| | iPP | 14 50 |
| | eL | 21 25 |
| PF | iP | 02 14 18 |
| | iPP | 14 45 |
| | eL | 19 27 |
| SLC | e | 02 14 51 |
| | eL | 22 19 |
| TUC | iP | 02 13 24 |
| | i | 14 05 |
| | iS | 16 52 |
| | eL | 18 16 |
| Sept. 18 | | |
| SJ | eP | 05 04 36 |
| | iS | 05 17 |
| | iL | 05 27 |
| Sept. 18 | | |
| BER | eL | 05 40 46 |
| Sept. 18 | | |
| BER | eL | 08 39 22 |
| SJ | iP | 08 34 27 |
| | iS | 35 08 |
| | iL | 35 16 |
| Sept. 18 | | |
| TUC | eP | 09 03 52 |
| Sept. 18 | | |
| OV | iP | 18 50 33 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PF | iP | 18 50 33 |
| | ipP | 51 31 |
| Sept. 19 | | |
| BER | eL | 02 07 30 |
| PF | iP | 02 09 48 |
| SJ | iP | 02 02 42 |
| | eS | 03 17 |
| | eL | 03 25 |
| SH | eP | 02 10 43 |
| TUC | eP | 02 09 26 |
| Sept. 19 | | |
| BER | eP | 07 00 30 |
| | iL | 02 40 |
| BC | eP | 07 04 58 |
| BOZ | eL | 07 19 10 |
| BUT | eL | 07 19 14 |
| CHI | eS | 07 07 20 |
| | eL | 09 53 |
| COLU | eL | 07 04 28 |
| HUAN | e | 07 03 38 |
| | eL | 09 15 |
| OV | iP | 07 04 57 |
| PHIL | eP | 07 01 42 |
| | iP | 01 46 |
| | iPP | 02 05 |
| | eS | 05 30 |
| | eL | 06 34 |
| PF | iP | 07 04 53 |
| SJ | eP | 06 58 05 |
| | iS | 58 51 |
| | eL | 59 02 |
| SH | iP | 07 05 48 |
| TUC | iP | 07 04 27 |
| | i | 04 52 |
| | ePP | 05 55 |
| | eL | 19 47 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 19 HUAN | iP | 07 18 33 |
| Sept. 19 OV | iP | 07 57 12.3 |
| | i | 57 20.8 |
| PF | iP | 07 57 11.8 |
| | i | 57 19.4 |
| | iS | 57 20.4 |
| Sept. 19 SH | eP | 08 34 24 |
| Sept. 20 HUAN | iP | 01 37 52 |
| Sept. 20 HUAN | iP | 01 47 05 |
| Sept. 20 PF | iP | 02 20 43 |
| Sept. 20 BER | eL | 02 36 58 |
| BC | eP | 02 39 05 |
| HUAN | iP | 02 41 52 |
| OV | eP | 02 39 04 |
| PHIL | e | 02 35 59 |
| | eL | 41 13 |
| PF | eP | 02 39 00 |
| SJ | eP | 02 32 09 |
| | i | 33 34 |
| | iL | 33 53 |
| TUC | eP | 02 38 32 |
| | e | 40 24 |
| Sept. 20 HUAN | iP | 04 25 37 |
| Sept. 20 BC | eP | 05 29 02 |
| OV | eP | 05 29 24 |
| PF | eP | 05 29 28 |
| TUC | eP | 05 30 05 |
| Sept. 20 BC | iP | 05 58 23.5 |
| OV | eP | 05 58 22 |
| PF | iP | 05 58 27.6 |
| SH | eP | 05 57 17 |
| TUC | iP | 05 59 04 |
| Sept. 20 OV | e | 06 09 23 |
| PF | eP | 06 09 27 |
| TUC | eP | 06 10 04 |
| Sept. 20 OV | eP | 06 58 01 |
| TUC | eP | 06 58 04 |
| Sept. 20 BER | eL | 12 29 47 |
| BC | eP | 12 03 56 |
| OV | eP | 12 03 56 |
| PHIL | eL | 12 32 07 |
| PF | iP | 12 03 09.6 |
| | i | 03 12.5 |
| SH | iP | 12 02 51 |
| TUC | iP | 12 04 37 |
| | e | 04 49 |
| Sept. 20 TUC | eP | 12 32 05 |
| Sept. 20 CHI | eS | 17 46 14 |
| PHIL | iP | 17 40 47 |
| | iPP | 41 10 |
| | eS | 44 42 |
| | eL | 45 45 |
| PF | eP | 17 44 01 |
| SJ | iP | 17 36 48 |
| | iS | 37 26 |
| | iL | 37 36 |
| TUC | iP | 17 43 31 |
| | iPP | 44 55 |
| | eL | 53 01 |
| Sept. 20 BER | eL | 18 39 10 |
| OV | eP | 18 39 03 |
| TUC | eP | 18 39 20 |
| Sept. 20 TUC | iP | 19 51 54 |
| Sept. 20 TUC | iP | 19 55 46 |
| Sept. 20 PF | e | 20 52 01 |
| | e | 55 38 |
| Sept. 20 BC | e | 21 31 29 |
| PF | e | 21 31 26 |
| | e | 31 37 |
| TUC | eP | 21 31 50 |
| Sept. 20 BC | iP | 23 08 44 |
| Sept. 20 SH | e | 23 54 42 |
| Sept. 21 HUAN | iP | 20 34 32 |
| | i | 34 54 |
| Sept. 21 BC | eP | 21 40 38.5 |
| SH | eP | 21 40 26 |
| TUC | iP | 21 40 46 |
| | e | 42 39 |
| | eL | 56 15 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 21 | | |
| SH | e | 22 50 29 |
| Sept. 21 | | |
| PF | e | 23 05 38 |
| Sept. 22 | | |
| BC | eP | 03 02 18 |
| | epP | 02 43 |
| | e | 02 55 |
| OV | eP | 03 02 15 |
| | epP | 02 40 |
| | i | 03 02 |
| | i | 03 12 |
| PF | eP | 03 02 15 |
| | epP | 03 46 |
| | e | 03 54 |
| TUC | iP | 03 01 48 |
| | epP | 02 14 |
| Sept. 22 | | |
| MONT | eP | 03 51 05 |
| | iS | 51 16 |
| | eL | 51 23 |
| Sept. 22 | | |
| TUC | eP | 03 52 04 |
| Sept. 22 | | |
| BC | eP | 06 15 05 |
| HUAN | iP | 06 06 27 |
| | e | 06 57 |
| | e | 07 52 |
| | e | 09 49 |
| MONT | eP | 06 04 19 |
| | eS | 05 04 |
| | eL | 06 17 |
| PF | eP | 06 15 06 |
| SH | eP | 06 15 48 |
| TUC | eP | 06 14 37 |
| Sept. 22 | | |
| BC | i | 07 23 06 |
| HUAN | iP | 07 15 23 |
| | i | 16 36 |
| PF | eP | 07 23 02 |
| TUC | iP | 07 22 32 |
| Sept. 22 | | |
| TUC | eP | 07 37 46 |
| Sept. 22 | | |
| BC | eP | 08 03 26 |
| | e | 03 31 |
| | ipP | 03 38 |
| OV | eP | 08 03 14 |
| | e | 03 21 |
| | epP | 03 34 |
| SH | eP | 08 02 22 |
| | ipP | 02 33 |
| TUC | eP | 08 04 03 |
| | ipP | 04 16 |
| Sept. 22 | | |
| BC | eP | 11 42 24 |
| PF | iP | 11 42 27 |
| | i | 42 45.2 |
| TUC | iP | 11 42 28 |
| | e | 42 48 |
| Sept. 22 | | |
| BC | eP | 12 08 32 |
| PF | iP | 12 08 40 |
| TUC | iP | 12 09 13 |
| Sept. 22 | | |
| TUC | eP | 12 48 23 |
| | eS | 51 54 |
| | eL | 53 48 |
| Sept. 22 | | |
| PF | i | 20 51 04 |
| | i | 51 24 |
| Sept. 22 | | |
| BC | eP | 21 01 03 |
| TUC | eP | 21 02 19 |
| Sept. 23 | | |
| HUAN | iP | 13 59 46 |
| Sept. 23 | | |
| PF | i | 18 21 30.3 |
| TUC | e | 18 25 07 |
| Sept. 23 | | |
| BER | ePKS | 22 16 00 |
| | eSS | 32 35 |
| | eL | 57 10 |
| BC | eP | 22 06 30 |
| BOZ | ePS | 22 19 30 |
| | eSS | 24 49 |
| | eL | 33 25 |
| BUT | eL | 22 39 39 |
| COL | eS | 22 16 22 |
| | eSS | 21 11 |
| | eL | 28 46 |
| HONO | eP | 22 02 07 |
| | ePcP | 03 33 |
| | ePP | 04 30 |
| | eS | 09 18 |
| | eL | 14 07 |
| HUAN | eL | 22 23 30 |
| LOG | ePP | 22 05 31 |
| | eS | 17 26 |
| | eL | 30 14 |
| OV | eP | 22 06 33 |
| | e | 06 54 |
| PHIL | ePS | 22 23 37 |
| | e | 26 10 |
| | eSS | 30 31 |
| | eSSS | 35 16 |
| | eL | 39 44 |
| PF | eP | 22 06 35 |
| SLC | e | 22 10 56 |
| | e | 19 20 |
| | eL | 31 47 |
| SH | eP | 22 06 14 |
| TUC | iP | 22 06 39 |
| | e | 07 28 |
| | eS | 17 35 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | ePS | 22 18 55 |
| | eSS | 23 28 |
| | eSSS | 27 20 |
| | eL | 28 33 |
| UK | e | 22 17 34 |
| | eL | 27 48 |
| Sept. 23 | | |
| BER | iP' | 23 49 17 |
| | iPP | 52 12 |
| | ipPP | 53 00 |
| | iSKS | 56 38 |
| | iSKKS | 59 03 |
| | iSKSP | 00 02 20 |
| | iSPP | 04 42 |
| | iSS | 11 12 |
| | i | 12 32 |
| | eL | 28 09 |
| $T_{Lmax.}$ = 26 sec. A = 0.5 mm. | | |
| BC | eP | 23 43 40 |
| | eSKS | 54 07 |
| | eS | 55 13 |
| BOZ | eP | 23 43 50 |
| | eP' | 47 52 |
| | ePP | 48 10 |
| | iSKS | 54 22 |
| | eS | 55 25 |
| | e | 58 45 |
| | esSS | 00 03 43 |
| | eL | 12 49 |
| BUT | e | 23 44 35 |
| | ePP | 47 40 |
| | e | 49 18 |
| | eSKS | 54 14 |
| | eS | 55 18 |
| | e | 00 01 28 |
| COL | eP | 23 42 15 |
| | epP | 42 58 |
| | e | 44 22 |
| | eSKS | 52 23 |
| | eS | 52 28 |
| | esS | 53 28 |
| | eSS | 58 04 |
| | eL | 00 04 56 |
| COLU | epPP | 23 52 06 |
| | epPS | 00 01 49 |
| | e | 03 21 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| COLU | e | 00 04 07 |
| | eSS | 08 05 |
| | eL | 21 47 |
| GC | iP | 23 44 25 |
| | eP' | 48 27 |
| | eSKS | 54 49 |
| HONO | iP | 23 39 46 |
| | ipP | 40 35 |
| | i | 41 16 |
| | iS | 48 01 |
| | esS | 48 58 |
| | eScS | 49 10 |
| | eSS | 51 56 |
| | iL | 55 08 |
| $T_S$ = 13 sec. A = 7.0 mm. | | |
| $T_L$ = 26 sec. $A_{max.}$ = $4\frac{1}{2}$ mm. | | |
| HUAN | eP' | 23 49 12 |
| | ipP' | 49 45 |
| | isP' | 50 06 |
| | i | 51 49 |
| | iPP | 52 06 |
| | ipPP | 52 25 |
| | ePPP | 55 16 |
| | e | 00 01 22 |
| | i | 06 00 |
| | eSS | 09 39 |
| | eL | 21 30 |
| LOG | ePP | 23 48 11 |
| | eSKS | 54 18 |
| | eS | 55 23 |
| | eSP | 57 07 |
| | iSPP | 58 00 |
| | eSS | 00 03 23 |
| | eL | 12 21 |
| OV | eP | 23 43 52 |
| | eSKS | 54 14 |
| PHIL | eP' | 23 49 01 |
| | ePP | 51 10 |
| | esPP | 52 01 |
| | iPKS | 52 22 |
| | i | 53 12 |
| | epPPP | 54 44 |
| | e | 59 44 |
| | eSP | 00 01 02 |
| | ePPS | 03 11 |
| | eSS | 07 58 |
| | eL | 22 35 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PF | eP | 23 43 43 |
| | ePP | 47 46 |
| | e | 49 44 |
| | eS | 54 43 |
| | eSP | 56 48 |
| SJ | iP' | 23 49 28 |
| | ipP' | 49 52 |
| | isP' | 50 00 |
| | epPP | 53 39 |
| | e | 58 42 |
| | eSKKS | 59 05 |
| | e | 00 01 33 |
| | epPS | 04 23 |
| | eSS | 12 07 |
| | esS | 12 38 |
| | iSSS | 17 00 |
| | eL | 29 04 |
| SLC | e | 23 46 57 |
| | eSKS | 54 17 |
| | eS | 55 21 |
| | esPS | 57 51 |
| | eSS | 00 01 55 |
| | eSSS | 08 00 |
| | eL | 12 27 |
| SH | iP | 23 43 14 |
| | iPP | 47 07 |
| | eSKS | 53 41 |
| SIT | eP | 23 42 21 |
| | iSKS | 53 00 |
| | esS | 54 05 |
| | iPS | 54 24 |
| | isPS | 55 16 |
| | iSS | 59 20 |
| | iSSS | 00 03 05 |
| | eL | 07 10 |
| TUC | eP | 23 43 58 |
| | esP | 44 38 |
| | eP' | 47 55 |
| | i | 48 10 |
| | iPP | 48 16 |
| | ipPP | 48 39 |
| | ePPP | 50 24 |
| | eSKS | 54 22 |
| | eSKKS | 55 05 |
| | epS | 56 04 |
| | esS | 56 16 |
| | e | 56 44 |
| | eSP | 57 10 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| TUC | isPS | 23 58 04 |
| | iSPP | 58 13 |
| | iSS | 00 03 05 |
| | eSSS | 07 03 |
| | eL | 13 24 |
| UK | eP | 23 43 17 |
| | ePP | 47 04 |
| | ipPP | 47 40 |
| | i | 47 48 |
| | iSKS | 53 32 |
| | iS | 54 36 |
| | i | 56 25 |
| | eSS | 00 00 24 |
| | eL | 07 40 |
| Sept. 24 | | |
| OV | eP | 05 37 15 |
| Sept. 24 | | |
| GC | eP | 05 48 52 |
| Sept. 24 | | |
| BC | iP | 15 06 02.6 |
| Sept. 24 | | |
| PF | i | 15 29 26.8 |
| TUC | eP | 15 28 35 |
| | epP | 28 52 |
| | eS | 33 38 |
| | i | 34 13 |
| Sept. 24 | | |
| BER | eL | 18 18 20 |
| BOZ | eL | 18 34 50 |
| PHIL | eP | 18 17 35 |
| | ePP | 18 04 |
| | eS | 21 31 |
| | eL | 23 03 |
| SJ | iP | 18 13 17 |
| | iS | 13 58 |
| | eL | 14 10 |
| TUC | eP | 18 20 31 |
| | ePP | 21 56 |
| Sept. 24 | | |
| HUAN | iP | 21 15 41 |
| | eL | 16 07 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| PF | eP | 21 25 12 |
| TUC | iP | 21 24 40 |
| Sept. 24 | | |
| PF | e | 23 19 56 |
| Sept. 25 | | |
| BH | e | 08 28 32 |
| Sept. 25 | | |
| BH | eP | 10 09 14 |
| | eS | 11 42 |
| BER | eP | 10 08 52 |
| | i | 09 40 |
| | iS | 11 20 |
| | iL | 11 50 |
| BC | iP | 10 13 37.5 |
| | ePP | 15 23 |
| BOZ | eP | 10 13 37 |
| | ePP | 15 26 |
| | eS | 19 36 |
| | eL | 23 40 |
| BUT | eP | 10 13 44 |
| | e(S) | 20 13 |
| | eL | 23 44 |
| CHI | eP | 10 11 20 |
| | ePP | 11 54 |
| | eS | 15 54 |
| | eL | 17 02 |
| COL | eP | 10 16 36 |
| | eS | 25 27 |
| | eL | 33 12 |
| COLU | eP | 10 09 46 |
| | eS | 12 56 |
| | eL | 13 25 |
| GC | iP | 10 14 23 |
| HUAN | eP | 10 11 45 |
| | e | 12 12 |
| | ePP | 13 01 |
| | iPP | 13 06 |
| | i | 13 25 |
| | iS | 16 24 |
| | iL | 17 28 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| LOG | eP | 10 13 31 |
| | iPP | 15 23 |
| | eS | 20 16 |
| | eL | 22 17 |
| OV | eP | 10 13 36 |
| | i | 13 42 |
| | i | 14 46.3 |
| PHIL | eP | 10 10 21 |
| | iPP | 10 51 |
| | i | 11 07 |
| | iS | 14 12 |
| | iL | 15 16 |
| PF | iP | 10 13 32.8 |
| | i | 14 25.6 |
| SLC | eP | 10 13 28 |
| | eS | 19 40 |
| | eL | 22 33 |
| SJ | iP | 10 06 42 |
| | iS | 07 26 |
| | iL | 07 40 |
| SH | eP | 10 14 25 |
| SIT | eL | 10 44 40 |
| TUC | iP | 10 13 05 |
| | ePP | 14 28 |
| | eS | 19 03 |
| | eL | 21 37 |
| UK | eL | 10 22 28 |
| Sept. 25 | | |
| BH | e | 15 01 34 |
| | eL | 04 03 |
| BER | eP | 15 01 15 |
| | iL | 03 50 |
| BOZ | eS | 15 12 27 |
| | eL | 18 03 |
| BUT | eS | 15 12 36 |
| | eL | 20 14 |
| CHI | eS | 15 08 23 |
| | eL | 11 03 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| GC | eP | 15 06 48 |
| HUAN | e | 15 05 00 |
| | iPP | 05 24 |
| | i | 05 42 |
| | eS | 09 35 |
| | eL | 11 20 |
| PHIL | eP | 15 02 41 |
| | iP | 02 46 |
| | e | 03 08 |
| | eS | 06 41 |
| | eL | 08 16 |
| PF | iP | 15 05 55.6 |
| SLC | eS | 15 12 11 |
| | eL | 15 38 |
| SJ | iP | 14 58 38 |
| | eS | 59 17 |
| | iS | 59 20 |
| | iL | 59 34 |
| SH | iP | 15 06 52 |
| SIT | eL | 15 30 50 |
| TUC | eP | 15 05 29 |
| | i | 05 54 |
| | iPP | 07 03 |
| | i | 07 17 |
| | eS | 21 10 |
| Sept. 26 | | |
| BER | e(PP) | 11 13 10 |
| | e | 14 31 |
| | e | 17 33 |
| | eSS | 26 00 |
| BC | iP | 11 05 03.5 |
| | i | 07 12.5 |
| | iSKS | 14 41.5 |
| | eS | 15 05 |
| BOZ | eSKS | 11 15 22 |
| | eS | 16 10 |
| | esS | 20 00 |
| | e | 24 07 |
| | esSS | 26 00 |
| | eL | 38 11 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| BUT | eSKS | 11 15 13 |
| | eS | 16 08 |
| | esS | 19 18 |
| COL | eSKS | 11 15 08 |
| | eS | 15 47 |
| | ePS | 18 33 |
| | esS | 19 36 |
| | eL | 29 33 |
| GC | iP | 11 05 23 |
| | epP | 07 31 |
| HONO | iP | 11 01 34 |
| | ePcP | 02 22 |
| | iScP | 05 44 |
| | eS | 08 16 |
| | iScS | 10 27 |
| | eL | 14 00 |
| OV | iP | 11 05 08.8 |
| | i | 05 10.8 |
| | iSKS | 14 46.8 |
| PHIL | e | 11 12 03 |
| | iPP | 12 22 |
| | eSKS | 16 55 |
| | eSKKS | 18 20 |
| | eS | 19 29 |
| | eSP | 21 03 |
| | eSKKP | 24 06 |
| | esPS | 24 46 |
| | eSS | 27 59 |
| | eL | 44 57 |
| PF | iP | 11 05 06 |
| | ipP | 07 20 |
| | iSKS | 14 44 |
| SJ | ePP | 11 12 36 |
| | iSKS | 17 03 |
| | eS | 18 26 |
| | iS | 18 31 |
| | iSP | 21 10 |
| | ePS | 22 29 |
| SH | iP | 11 04 54 |
| | ipP | 07 00 |
| | eS | 14 25 |
| SIT | eP | 11 05 08 |
| | epP | 07 25 |
| | ePP | 09 00 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SIT | eSKS | 11 14 52 |
| | iS | 15 29 |
| | isS | 19 06 |
| | e | 19 46 |
| | isPS | 20 12 |
| TUC | iP | 11 05 08 |
| | ipP | 07 14 |
| | isP | 08 10 |
| | iPP | 08 46 |
| | ipPP | 10 40 |
| | iSKS | 14 43 |
| | iS | 15 13 |
| | esS | 18 45 |
| Sept. 26 | | |
| SH | e | 11 37 50 |
| Sept. 26 | | |
| BOZ | eL | 12 45 49 |
| BUT | eL | 12 45 08 |
| CHI | eL | 12 54 16 |
| GC | eP | 12 41 57 |
| | i | 42 26 |
| OV | eP | 12 42 36 |
| PF | eP | 12 42 36 |
| SIT | e | 12 41 07 |
| TUC | eP | 12 43 35 |
| Sept. 26 | | |
| BER | eL | 16 05 30 |
| TUC | eP | 15 58 55 |
| Sept. 26 | | |
| PF | e | 18 20 05 |
| | e | 20 36 |
| Sept. 27 | | |
| PF | e | 04 19 42 |
| Sept. 27 | | |
| OV | eP | 05 31 11 |
| PF | eP | 05 31 45 |
| | e | 32 23 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 28 | | |
| BER | eP | 03 17 05 |
| BC | eP | 03 18 54 |
| PF | eP | 03 18 48 |
| TUC | eP | 03 18 20 |
| Sept. 28 | | |
| SJ | eL | 06 10 10 |
| Sept. 28 | | |
| PF | eP | 07 13 04 |
| | e | 13 05.5 |
| Sept. 28 | | |
| BC | iP | 07 19 51.5 |
| | i | 19 56 |
| | eS | 20 30 |
| BOZ | eL | 07 25 45 |
| OV | iP | 07 20 01.2 |
| | i | 20 10.8 |
| PF | iP | 07 19 58.9 |
| | i | 20 02 |
| SLC | eL | 07 22 58 |
| SH | eP | 07 21 12 |
| | i | 23 17 |
| TUC | iP | 07 20 27 |
| | i | 20 47 |
| | eS | 20 56 |
| | iL | 21 55 |
| Sept. 28 | | |
| BC | iP | 12 04 31 |
| HUAN | iP | 11 54 44 |
| | iL | 57 08 |
| OV | iP | 12 04 33.2 |
| PF | iP | 12 04 28 |
| TUC | eP | 12 03 58 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 28 | | |
| BC | iP | 13 28 45 |
| HUAN | iP | 13 19 52 |
| | i | 20 16 |
| | i | 20 28 |
| | iS | 22 29 |
| | iL | 23 09 |
| OV | eP | 13 28 18 |
| PF | eP | 13 28 23 |
| SH | iP | 13 29 24.5 |
| TUC | iP | 13 28 15 |
| | ePP | 30 10 |
| | e | 34 53 |
| | eL | 53 30 |
| Sept. 28 | | |
| BC | eP | 14 07 10 |
| HUAN | eP | 13 58 44 |
| | i | 14 01 49 |
| OV | eP | 14 07 12.3 |
| PF | eP | 14 07 07 |
| TUC | iP | 14 06 39 |
| Sept. 28 | | |
| BC | iP' | 19 48 33.5 |
| OV | iP' | 19 48 25.5 |
| PF | iP' | 19 48 24.2 |
| SH | eP | 19 44 02 |
| | iP' | 48 08 |
| TUC | iP' | 19 48 31 |
| | iPP | 49 50 |
| | iPKKP | 58 43 |
| Sept. 29 | | |
| BC | iP | 00 28 43 |
| | e | 33 07 |
| | e | 33 48 |
| PF | iP | 00 28 11 |
| | i | 33 04.5 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| SH | iP | 00 27 50.5 |
| TUC | iP | 00 29 15 |
| | e | 32 37 |
| | e | 33 04 |
| | i | 33 17 |
| Sept. 29 | | |
| BC | eP | 01 44 02 |
| PF | eP | 01 43 59 |
| TUC | eP | 01 43 11 |
| | eS | 48 40 |
| | eL | 49 26 |
| Sept. 29 | | |
| BH | e | 03 21 46 |
| | ePP | 23 41 |
| BER | iP' | 03 21 42 |
| | iPP | 24 04 |
| | iPKS | 24 56 |
| | iSKSP | 34 08 |
| | ePS | 35 10 |
| | iSS | 41 55 |
| | iSSS | 46 26 |
| | eL | 57 05 |
| $T_L$ = 19 sec. A = 23½mm. | | |
| BC | eP | 03 15 16 |
| | e | 26 15 |
| | iS | 26 24 |
| BOZ | eP | 03 15 33 |
| | ePP | 19 35 |
| | ePPP | 21 49 |
| | eSKS | 26 10 |
| | eS | 26 47 |
| | i | 27 12 |
| | e | 32 29 |
| | iSS | 33 46 |
| | eSSS | 37 21 |
| | iL | 40 45 |
| BUT | e | 03 15 50 |
| | iS | 26 29 |
| | e | 27 04 |
| | e | 30 55 |
| | eSS | 33 44 |
| | iL | 42 17 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| CHI | e | 03 17 49 |
| | ePP | 21 46 |
| | e | 24 01 |
| | iSKS | 27 48 |
| | eS | 29 25 |
| | iPS | 31 27 |
| | eSS | 37 09 |
| | iSS | 37 40 |
| | eSSS | 41 58 |
| | iL | 45 10 |
| COL | eP | 03 14 16 |
| | e | 14 47 |
| | e | 16 29 |
| | ePP | 17 46 |
| | eS | 24 23 |
| | ePPS | 25 39 |
| | iSS | 29 57 |
| | eSSS | 33 36 |
| | eL | 35 55 |
| COLU | ePP | 03 22 38 |
| | e | 25 10 |
| | eSKS | 27 55 |
| | ePS | 32 26 |
| | eSS | 38 43 |
| | eSSS | 43 14 |
| | eL | 50 46 |
| GC | eP | 03 15 04 |
| | e | 16 33 |
| | eS | 25 45 |
| HONO | iP | 03 11 30 |
| | iPP | 13 23 |
| | iPPP | 14 36 |
| | i | 16 22 |
| | eS | 19 00 |
| | eL | 23 45 |

$T_P$ = 9 sec. A = 3 mm.
$T_S$ = 18 sec. A = 26 mm.
$T_L$ = 14 sec. $A_{max}$ = 72 mm.
$T_L$ = 20 sec. A = 46 mm.

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | eP' | 03 21 08 |
| | i | 22 01 |
| | i | 22 25 |
| | iPP | 23 32 |
| | iPKS | 24 17 |
| | eSKS | 28 38 |
| | e | 29 25 |
| | iS | 31 05 |
| HUAN | iPS | 03 33 35 |
| | i | 34 22 |
| | iSS | 40 37 |
| | iSSS | 45 20 |
| | iL | 55 36 |
| LOG | e | 03 15 44 |
| | i | 16 07 |
| | iPP | 19 09 |
| | iS | 26 24 |
| | i | 29 11 |
| | iL | 42 31 |
| OV | eP | 03 15 02 |
| | i | 15 14.8 |
| | iS | 26 19.5 |
| PHIL | eP' | 03 21 24 |
| | ePP | 22 35 |
| | iSKS | 28 09 |
| | iS | 30 56 |
| | ePS | 32 44 |
| | i | 36 06 |
| | eSS | 38 56 |
| | iSS | 39 39 |
| | eSSS | 43 46 |
| | iL | 51 06 |
| PF | eP | 03 15 53 |
| | iPP | 19 55 |
| | iS | 27 01 |
| SLC | eP | 03 15 46 |
| | e | 16 25 |
| | ePP | 19 47 |
| | eSKS | 26 10 |
| | iS | 27 11 |
| | iPS | 28 38 |
| | e | 30 13 |
| | eSS | 33 28 |
| | iSSS | 35 54 |
| | iL | 38 52 |
| SJ | eP' | 03 21 26 |
| | iP' | 21 44 |
| | ePP | 24 31 |
| | iPKS | 25 15 |
| | i | 32 05 |
| | i | 39 18 |
| | eSS | 42 03 |
| | i | 44 21 |
| | iSSS | 47 36 |
| | iL | 55 12 |
| SEA | e | 03 19 50 |
| | e | 19 57 |
| | e | 23 47 |
| | e | 24 50 |
| | iSS | 30 18 |
| | iSSS | 36 11 |
| | e | 36 30 |
| | eL | 39 55 |
| SH | eP | 03 14 51 |
| | eS | 25 39 |
| SIT | iP | 03 14 24 |
| | i | 15 33 |
| | i | 16 57 |
| | ePP | 19 41 |
| | eS | 24 40 |
| | i | 25 03 |
| | iSS | 30 20 |
| | iSSS | 34 00 |
| | iL | 36 20 |
| TUC | eP | 03 15 32 |
| | ePP | 19 35 |
| | e | 23 12 |
| | eSKS | 26 29 |
| | iS | 27 03 |
| | ePS | 28 36 |
| | iPPS | 29 14 |
| | ePKKP | 32 12 |
| | eSS | 32 56 |
| | iPsPs | 33 48 |
| | eSSS | 37 17 |
| | i | 39 00 |
| | eL | 40 28 |
| | eP'P' | 40 30 |
| UK | eP | 03 14 38 |
| | e | 16 45 |
| | ePP | 17 45 |
| | eS | 25 24 |
| | iS | 25 30 |
| | iSS | 31 39 |
| | iL | 38 10 |
| Sept. 29 BH | e | 03 55 14 |
| | e | 04 01 14 |
| Sept. 29 BC | eP | 05 35 09 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 29 | | |
| BC | iP | 05 37 40.5 |
| OV | eP | 05 37 12 |
| | e | 37 23 |
| TUC | eP | 05 35 25 |
| Sept. 29 | | |
| BC | iP | 08 20 04 |
| OV | eP | 08 20 08 |
| PF | iP | 08 19 59.3 |
| TUC | eP | 08 19 20 |
| | i | 19 37 |
| | e | 26 50 |
| Sept. 29 | | |
| BC | eP | 09 01 51 |
| SH | eP | 09 01 16 |
| TUC | eP | 09 02 20 |
| Sept. 29 | | |
| BC | eP | 09 21 48 |
| PHIL | eL | 09 48 03 |
| PF | eP | 09 22 52 |
| SH | eP | 09 22 27 |
| TUC | ePP | 09 27 11 |
| | ePS | 36 23 |
| Sept. 29 | | |
| SH | i | 12 03 23 |
| Sept. 29 | | |
| BH | e | 14 15 23 |
| | e | 16 06 |
| Sept. 29 | | |
| BC | eP | 15 55 40 |
| PF | eP | 15 55 41 |
| TUC | iP | 15 56 21 |
| | ipP | 56 34 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| Sept. 29 | | |
| BC | e | 19 38 50 |
| PF | e | 19 38 32 |
| SH | e | 19 37 57 |
| Sept. 29 | | |
| PF | eP' | 20 42 19 |
| TUC | eP' | 20 41 24 |
| Sept. 29 | | |
| BC | iP | 20 57 51 |
| OV | iP | 20 57 56.2 |
| PF | iP | 20 58 54 |
| TUC | eP | 20 57 56 |
| Sept. 30 | | |
| BH | eP | 01 04 38 |
| | eS | 08 46 |
| BER | eP | 01 08 02 |
| | iPP | 09 22 |
| | iS | 14 50 |
| | iScP | 17 30 |
| | iL | 18 33 |

$T_S$ = 6 sec. A = 1.0 mm.
$T_{Lmax}$ = 13 sec. A = 1.0 mm.
$T_L$ = 22 sec. A = 0.6 mm.

| | | |
|---|---|---|
| BC | iP | 01 09 50 |
| | eS | 18 10 |
| BOZ | eS | 01 19 15 |
| | eSS | 24 05 |
| | eL | 32 08 |
| CHI | eS | 01 16 47 |
| | esS | 17 18 |
| | eScP | 18 48 |
| | eL | 22 46 |
| COLU | eP | 01 08 07 |
| | eS | 14 56 |
| | eScP | 17 51 |
| | eL | 18 40 |
| GC | iP | 01 10 58 |

| Date and Station | | Phase (GCT) h m s |
|---|---|---|
| HUAN | iP | 01 00 06 |
| | iL | 01 20 |
| OV | iP | 01 09 53.5 |
| | eS | 18 15 |
| PHIL | eP | 01 08 50 |
| | epP | 09 20 |
| | ePcP | 10 03 |
| | ePP | 11 34 |
| | iS | 16 18 |
| | iScP | 18 32 |
| | eSS | 20 01 |
| | eL | 21 30 |
| PF | iP | 01 09 43.8 |
| | ipP | 09 17.8 |
| | iS | 17 47.3 |
| | i | 17 57.3 |
| SLC | eP | 01 10 03 |
| | esP | 10 40 |
| | ePP | 12 22 |
| | eS | 18 31 |
| | eSS | 19 08 |
| | eL | 26 43 |
| SJ | iP | 01 06 10 |
| | ipP | 06 28 |
| | iPP | 07 16 |
| | esPP | 08 04 |
| | i | 09 08 |
| | iS | 11 22 |
| | i | 12 07 |
| | iL | 12 41 |
| SH | iP | 01 10 37 |
| | eS | 19 38 |
| TUC | iP | 01 09 15 |
| | ipP | 09 45 |
| | iPP | 11 24 |
| | eS | 16 45 |
| | esS | 17 39 |
| | eScP | 18 14 |
| | eSS | 20 39 |
| | esSS | 21 32 |
| | eL | 22 04 |
| | eSSS | 23 06 |
| | iP'P' | 39 20 |

| Date and Station | | Phase (GCT) | | |
|---|---|---|---|---|
| | | h | m | s |
| Sept. 30 | | | | |
| SJ | eP | 11 | 06 | 15 |
| | eS | | 06 | 51 |
| | iS | | 06 | 52 |
| | iL | | 06 | 54 |
| Sept. 30 | | | | |
| BER | eP | 11 | 41 | 22 |
| | eS | | 52 | 05 |
| | eL | 12 | 03 | 30 |
| BC | ePP | 11 | 49 | 13 |
| BOZ | eL | 12 | 27 | 23 |
| COL | eL | 12 | 41 | 25 |
| HUAN | eP | 11 | 39 | 13 |
| | iP | | 39 | 15 |
| | e | | 41 | 22 |
| | e | | 43 | 30 |
| | eS | | 47 | 15 |
| | iS | | 47 | 22 |
| | e | | 50 | 52 |
| | eL | | 54 | 24 |
| OV | ePP | 11 | 49 | 15 |
| PHIL | eS | 11 | 53 | 55 |
| | ePS | | 55 | 07 |
| | eSS | | 59 | 18 |
| | eL | 12 | 12 | 59 |
| TUC | ePP | 11 | 48 | 31 |
| | eL | 12 | 22 | 13 |
| Sept. 30 | | | | |
| TUC | iP | 13 | 32 | 06 |
| Sept. 30 | | | | |
| TUC | eP | 15 | 18 | 05 |
| Sept. 30 | | | | |
| SH | eP | 17 | 08 | 47 |
| TUC | iP | 17 | 10 | 25 |
| | i | | 10 | 29 |
| | i | | 10 | 44 |

Local and Minor Earthquakes

| day | hour | day | hour | day | hour | day | hour | day | hour | day | hour |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BER | | HUAN | | HUAN | | HUAN | | TUC | | TUC | |
| Aug.* | | 13 | 12.7 | 7 | 19.9 | 20 | 04.4 | 12 | 18.2 | Aug. | |
| | | 16 | 01.7 | 8 | 01.6 | 21 | 20.6 | | 18.5 | 1 | 12.7 |
| COL | | | 03.7 | | 07.0 | 23 | 14.0 | | 18.9 | 4 | 11.7 |
| July | | | 09.6 | | 20.6 | 27 | 03.1 | | 19.0 | | 19.8 |
| 3 | 23.1 | | 22.3 | | 20.6 | | 06.1 | | 23.4 | 8 | 01.8 |
| 16 | 18.0 | 17 | 02.6 | | 21.0 | | | 13 | 01.3 | | 08.6 |
| 19 | 07.3 | | 03.6 | 9 | 03.4 | MONT | | | 11.2 | | 10.1 |
| 28 | 16.4 | | 04.4 | 11 | 02.2 | July | | | 12.1 | | 13.2 |
| 29 | 15.4 | 18 | 08.7 | | 14.8 | 10 | 13.7 | | 13.8 | 9 | 10.7 |
| | | 19 | 08.3 | 12 | 15.6 | 18 | 11.8 | 14 | 02.4 | 12 | 23.2 |
| Aug. | | | 14.4 | 13 | 01.1 | 27 | 13.8 | | 21.8 | 14 | 10.0 |
| 3 | 13.1 | 20 | 16.7 | 14 | 04.4 | | | 15 | 00.6 | 15 | 04.9 |
| 13 | 00.5 | | 23.4 | | 13.3 | Aug. | | | 02.2 | | 19.7 |
| | 22.5 | 22 | 22.2 | | 19.1 | 27 | 07.2 | | 17.0 | 17 | 10.7 |
| 22 | 05.4 | 24 | 10.3 | 15 | 22.7 | | | | 19.1 | | 23.0 |
| 23 | 08.6 | 25 | 01.8 | 16 | 13.3 | PHIL | | | 20.6 | 18 | 20.8 |
| | 10.4 | | 11.7 | | 20.1 | Aug. | | | 22.3 | 20 | 10.0 |
| 28 | 20.5 | 26 | 02.3 | 17 | 17.5 | 7 | 19.9 | | 22.8 | | 13.5 |
| 29 | 20.5 | | 12.3 | 18 | 05.0 | | | 16 | 16.3 | 22 | 12.3 |
| | | 27 | 13.7 | 19 | 08.3 | SJ | | | 18.2 | | 12.9 |
| HONO | | 28 | 01.3 | | 14.5 | Aug.** | | 18 | 02.0 | | 20.5 |
| Aug. | | | 10.6 | 21 | 02.9 | 2 | 02.9 | | 02.2 | | 21.5 |
| 20 | 20.7 | | 21.9 | | 03.2 | | | | 02.2 | | 21.8 |
| | | 29 | 14.8 | 22 | 17.7 | SIT | | | 11.0 | | 22.4 |
| HUAN | | 30 | 11.2 | 23 | 00.3 | July | | | 11.2 | 23 | 07.0 |
| July | | 31 | 07.0 | | 03.3 | 28 | 16.4 | | 22.0 | 25 | 06.7 |
| 3 | 05.3 | | 10.5 | | 15.9 | | | 19 | 00.0 | | 19.6 |
| | 23.3 | | | 24 | 12.1 | TUC | | | 07.9 | 26 | 02.7 |
| 4 | 01.9 | Aug. | | 25 | 15.7 | July | | | 05.1 | 27 | 01.7 |
| | 04.2 | 1 | 06.2 | 26 | 12.9 | 2 | 06.6 | | 12.2 | | 02.6 |
| | 07.2 | | 12.8 | | 21.3 | | 08.4 | | 13.6 | 30 | 11.2 |
| | 16.9 | | 21.3 | | 22.9 | | 20.8 | 20 | 13.3 | | 21.8 |
| | 18.5 | 2 | 00.2 | 28 | 03.9 | 3 | 00.3 | 21 | 08.9 | 31 | 09.2 |
| | 20.5 | | 05.3 | 29 | 09.6 | 4 | 22.5 | | 11.6 | | 15.1 |
| 5 | 03.5 | | 05.4 | 30 | 08.8 | 5 | 03.4 | | 20.4 | | |
| | 05.2 | 3 | 08.3 | 31 | 00.7 | | 11.5 | | 23.0 | Sept. | |
| | 05.6 | | 23.5 | | 07.2 | | 13.5 | 23 | 11.5 | 5 | 17.7 |
| | 06.3 | 4 | 10.6 | | 09.5 | | 17.4 | 26 | 02.3 | 8 | 08.6 |
| | 14.7 | 5 | 01.0 | | | | 18.4 | | 02.5 | 10 | 06.2 |
| | 17.2 | | 02.0 | Sept. | | 6 | 01.8 | | 06.6 | | 19.9 |
| | 18.8 | | 02.8 | 7 | 18.9 | | 08.3 | | 17.2 | 12 | 05.2 |
| 6 | 04.6 | | 02.9 | 8 | 06.4 | | 17.5 | 27 | 11.3 | | 05.3 |
| 7 | 23.4 | | 03.7 | | 20.9 | | 18.3 | | 17.2 | | 05.4 |
| 8 | 01.6 | | 10.0 | 9 | 17.0 | | 18.0 | | 18.2 | | 05.5 |
| 9 | 00.6 | | 12.0 | 12 | 01.6 | 8 | 02.1 | 28 | 17.5 | 13 | 00.1 |
| | 05.7 | | 12.2 | | 09.3 | 9 | 03.3 | | 21.8 | | 05.7 |
| | 16.6 | | 19.8 | | 20.2 | | 17.6 | 29 | 02.4 | 14 | 01.9 |
| 11 | 02.8 | 6 | 12.0 | | 20.2 | | 20.1 | 30 | 02.9 | | 09.1 |
| | 10.2 | | 13.2 | 13 | 09.2 | 10 | 02.1 | 31 | 06.8 | | 11.0 |
| | 16.7 | | 20.3 | 15 | 07.6 | 11 | 13.4 | | 07.1 | | 11.3 |
| | 18.6 | | 21.2 | 20 | 01.6 | 12 | 04.1 | | | 17 | 03.0 |
| 12 | 02.0 | 7 | 05.7 | | 01.8 | | 13.1 | Aug. | | 18 | 13.2 |
| | 19.2 | | 08.1 | | 02.7 | | 15.2 | 1 | 01.3 | | 15.1 |

Local and Minor Earthquakes, cont.

| day | hour |
|---|---|
| TUC | |
| Sept. | |
| 18 | 22.0 |
| 24 | 00.9 |
| | 03.3 |
| 25 | 05.3 |

*82 local shocks recorded following Dominican Republic earthquake of August 4.

**621 local shocks recorded following Dominican Republic earthquake of August 4.