

SEISMOLOGICAL BULLETIN OF SYOWA STATION, ANTARCTICA, 2006

Katsushi CHIDA¹ and Masaki KANAO^{2, 3*}

¹ GNSS Technologies Inc., 4F Matsuki Bldg. 6-12-5 Shinjuku, Shinjuku-ku Tokyo
160-0022

² National Institute of Polar Research, Research Organization of Information and
Systems, 10-3, Midori-cho, Tachikawa-city, Tokyo 190-8515

³ Department of Polar Science, School of Multidisciplinary Sciences, The Graduate
University for Advanced Studies(S●KENDAI), 10-3, Midori-cho,
Tachikawacity, Tokyo 190-8515

*Corresponding author. E-mail: kanoa@nipr.ac.jp

1. Introduction

Seismic observations at Syowa Station (69.0°S, 39.6°E), East Antarctica were started using a short-period seismometer with 1.0 s natural period in 1959 (Eto, 1962). A long-period seismograph was installed and phase readings of teleseismic events (i.e., detection of arrival times and amplitudes for significant seismic phases) have been reported in near real-time to the United States Geological Survey (USGS) and to the International Seismological Centre (ISC) since 1967 (Kaminuma *et al.*, 1968). A three-component broadband seismometer (STS-1; Wielandt and Steim, 1986) was installed in 1989, in order to contribute to the Federation of Digital broadband

Seismograph Networks (FDSN; <http://www.fdsn.org>), together with the other key stations of the PACIFIC21 Japanese regional network. A distribution map of the FDSN stations in Antarctica is shown in Fig. 1.

All of the observation systems at Syowa Station were maintained in 2006 by one of the authors (K. Chida) throughout the wintering season of the 47th Japanese Antarctic Research Expedition (JARE-47). In this report, we introduce the seismic observations in 2006, scaled read-out travel-time data and detected teleseismic earthquake list, followed by the procedures for public use via internet service.

2. Observations

The original seismic observation systems at Syowa Station were replaced with the current operating ones by one of the authors (M. Kanao) in 1997 (Kanao, 1999). The block diagram of the current recording system is illustrated in Fig. 2.

2.1. Seismographic hut and seismographs

Seismic observations at Syowa Station have been carried out mainly by two types of seismometers. One is called a short-period seismometer (HES) with 1.0 Hz eigenfrequency of the pendulum which has been operated since 1967 (Kaminuma *et al.*, 1968). The overall frequency responses and the magnifications of the HES seismographs are shown in Fig. 3. Another is a three-component broadband seismometer (Streckeisen STS-1) with digital recording system which has been operating since 1990 (Nagasaka *et al.*, 1992). The amplitude and phase responses for the velocity output (Broadband; BRB) are shown in Fig. 4 (after Streckeisen and Messegeraete, 1987).

The seismographic hut was re-constructed in 1996 and all of the sensors were moved inside it in 1997. The new hut is located about 200 m north from the old vault, with

geodetic coordinates of 69°00'24.0"S, 39°35'06.0"E and elevation 20 m above mean sea level. Since the long-period output signals from the broadband seismographs can be affected by variations in temperature and atmospheric conditions, the seismometers were installed in the thermally insulated small room of the hut. In addition, the whole surface of the hut was covered by titanium in order to maintain constant temperature.

Seismic signals of the HES and STS-1 are transmitted to the Earth Science Laboratory (ESL) via analog cables 600 m in length through the main buildings of Syowa Station.

2.2. Acquisition system at Earth Science Laboratory

Three-component analogue outputs by HES have been digitized at 200 Hz sampling frequency by a 24-bit analog-to-digital (A/D) converter, generating triggered signals of 80 and 1 Hz re-sampling data and 20 Hz continuous output. Signals of a three-component broadband STS-1 have also been digitized to create triggered output of 80 Hz re-sampling data and continuous outputs of 20, 1, 0.1 and 0.01 Hz data, respectively. All the waveform data were created as a Mini_SEED volume, which is a standard format for data exchange in global seismology. The digitized data are automatically transmitted from the A/D converter to a workstation via TCP/IP protocol. All data are stored in the 40 GB hard-disk of the workstation, then copied into DAT or 8 mm tape at three month intervals. The recording status of the A/D converter has been continuously monitored by a personal computer via an RS-232C serial port.

Remote-centering operation of the mass position for the STS-1 sensors can be carried out by keyboard commands from the computer using 'Kermit'. The reference clock for the new system has been calibrated to Coordinated Universal Time (UTC) by detecting time codes by GPS. Thermal pen-recorders for the HES and BRB output of the STS-1 have been operated for monitoring at ESL. Boom-POSITION output (POS) of

the STS-1 seismograph has been monitored by RD2212 type analogue-recorder, together with the temperature in the sensor room.

2.3. Data transmission via INTELSAT

Digital waveforms of both broadband and short-period seismographs have been transmitted via INMARSAT telecommunication link from Syowa Station to the National Institute of Polar Research (NIPR) since 1993. Waveform data transmission was greatly improved by using an INTELSAT communication link established in February 2004. During the 2006 winter season, continuous data of both HES and STS-1 with 20 Hz sampling were automatically transmitted to NIPR once a day from the acquisition workstation. The UUCP protocol has been used for the data transfer.

In addition to remote monitoring operation of the data acquisition system from NIPR, Internet access to Syowa facilities has significantly advanced since 2005 via the INTELSAT system. Moreover, a web-camera using the Station LAN was installed inside ESL, followed by the improvement of monitoring of the analogue recorders when nobody can access the ESL during bad weather.

3. Data

By using the waveform data transmitted via INTELSAT, the arrival-time information on the major seismic phases (here we say 'read-out data') is regularly reported from NIPR to USGS/NEIC via email, for contributions to the Preliminary Determination for Epicenters (PDE) weekly & monthly bulletins. The Quick Earthquake

Determination (QED) services offered from NEIC have been used to identify the seismograms of teleseismic events. The arrival-time data and corresponding hypocentral data of the teleseismic events are listed in this report.

The phase arrival-times of teleseismic events were detected on the short-period digital monitoring seismograms. Most phases were scaled on the vertical component; only clear phases of shear waves were scaled on the horizontal components. These phases were identified by comparing the observed travel-time with the calculated time within a time difference of 3 s. The phases identified as *P*- and *S*-waves are listed in Table 1. The phase *K* denotes the *PKP* phase, which can be identified within 3 s of the time difference by comparing the observed travel-time with the calculated time. *X* denotes the clear phase whose wave type can be identified but the observed travel time was within 3-10 s of the calculated time. Symbols *E* and *I* in the phase column denote emergent and sharp onsets, respectively. The initial ground motion is denoted by + for upward and - for downward motion. Arrival time is given in UTC and the accuracy of the read-out data is 0.2 s. The teleseismic events identified in the PDE are labeled by the serial numbers (#-xxx) in the table. These serial numbers correspond to those in Table 2. The events without serial numbers are teleseisms whose locations have not been determined by NEIC.

The list of hypocentral parameters for individual teleseismic events is presented in Table 2, identified by the same serial numbers as given in the remarks in Table 1. Figure 5 shows the hypocenters of the teleseismic events whose initial phases were detected at Syowa Station.

4. Publication

The seismic waveform data are continuously transmitted to NIPR and stored in the data library server, and are accessible upon request by Internet service and/or UNIX formatted media (*i.e.*, CD-R, DAT, 8 mm-tape, *etc.*). The present authors hereby grant permission for use of these data in scientific papers. All kinds of archived seismic data (arrival times, hypocenter, waveform data by analog & digital, related document reports) of Syowa Station have been accumulated and are available from the data library server (POLARIS, URL; <http://polaris.nipr.ac.jp/~pseis/syowa>). These can be accessed by use of the 'ftp' command with password. If you are interested in using these data for scientific purposes, please contact kanao@nipr.ac.jp concerning availability.

Archived data that have passed two years since the JARE observation period are stored and freely available from both the NIPR ftp site and the PACIFIC21 center of the Japan Marine Science and Technology Agency. Any questions concerning data availability from PACIFIC21 shall be directed to y-ishihara@jamstec.go.jp.

5. Data Processing Staff

The seismic observation system at Syowa Station was designed by M. Kanao and K. Shibuya of NIPR. Ms. A. Ibaraki kindly assisted in preparing this data report. Readers can refer to the following URL site below for the data directory and access: <http://polaris.nipr.ac.jp/~pseis/syowa>.

References

- Eto, T. (1962): On the electromagnetic seismographs at Syowa Base, Antarctica. Nankyoku Sbiryô (Antarct. Rec.), 14, 48-50 (in Japanese with English abstract).
- Hagiwara, T. (1958): A Note on the Theory of the Electromagnetic Seismograph. Bull. Earthq. Res. Inst., 36, 139-164.
- Kaminuma, K., Eto, T. and Yoshida, M. (1968): Seismological observation at Syowa Station, Antarctica. Nankyoku Shiryô (Antarct. Rec.), 33, 65-70 (in Japanese with English abstract).
- Kanao, M. (1999): Seismological bulletin of Syowa Station, Antarctica, 1997. JARE Data Rep., 236 (Seismology 33), 65p.
- Nagasaka, K., Kaminuma, K. and Shibuya, K. (1992): Seismological observations by a three-component broadband digital seismograph at Syowa Station, Antarctica. Recent Progress in Antarctic Earth Science, ed. by Y. Yoshida *et al.* Tokyo, Terra Sci. Publ., 595-601. (<http://www.terrapub.co.jp/e-library/aes/pdf/RP0595.PDF>)
- Streckeisen, G. and Messergeraete, A. G. (1987): Very-broad-band Feedback Seismometers STS-1V/VBB and STS-1H/VBB Manual. 34-35.
- Wielandt, E. and Steim, J. M. (1986): A digital very-broad-band seismograph. Ann. Geophys., 4, Ser. B, 227-232.

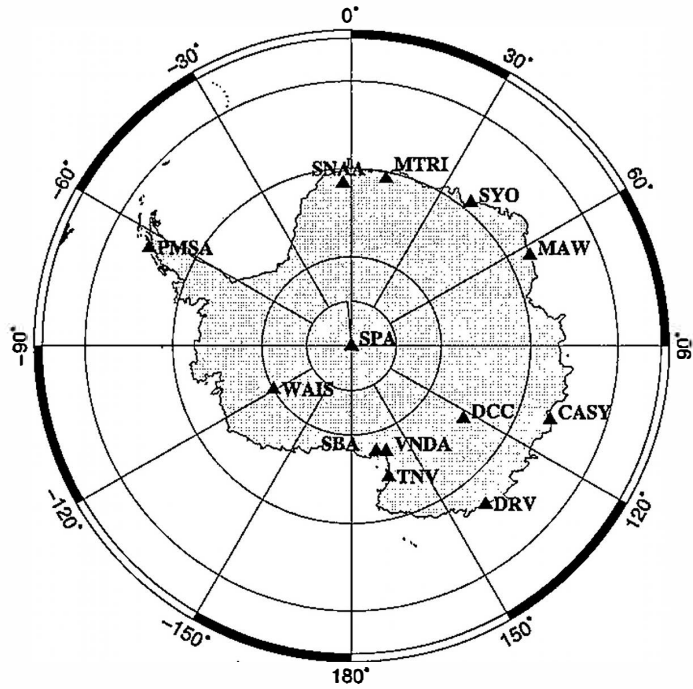


Fig. 1. Distribution of FDSN stations on the Antarctic continent in 2009. Syowa (SYO), Mawson (MAW), Casey (CASY), Dumont d'Urville (DRV), Terra Nova Bay (TNV), Vanda (Vnda), South Pole (SPA), Palmer (PMSA), Sanae (SNAA), Maitri (MTRI).

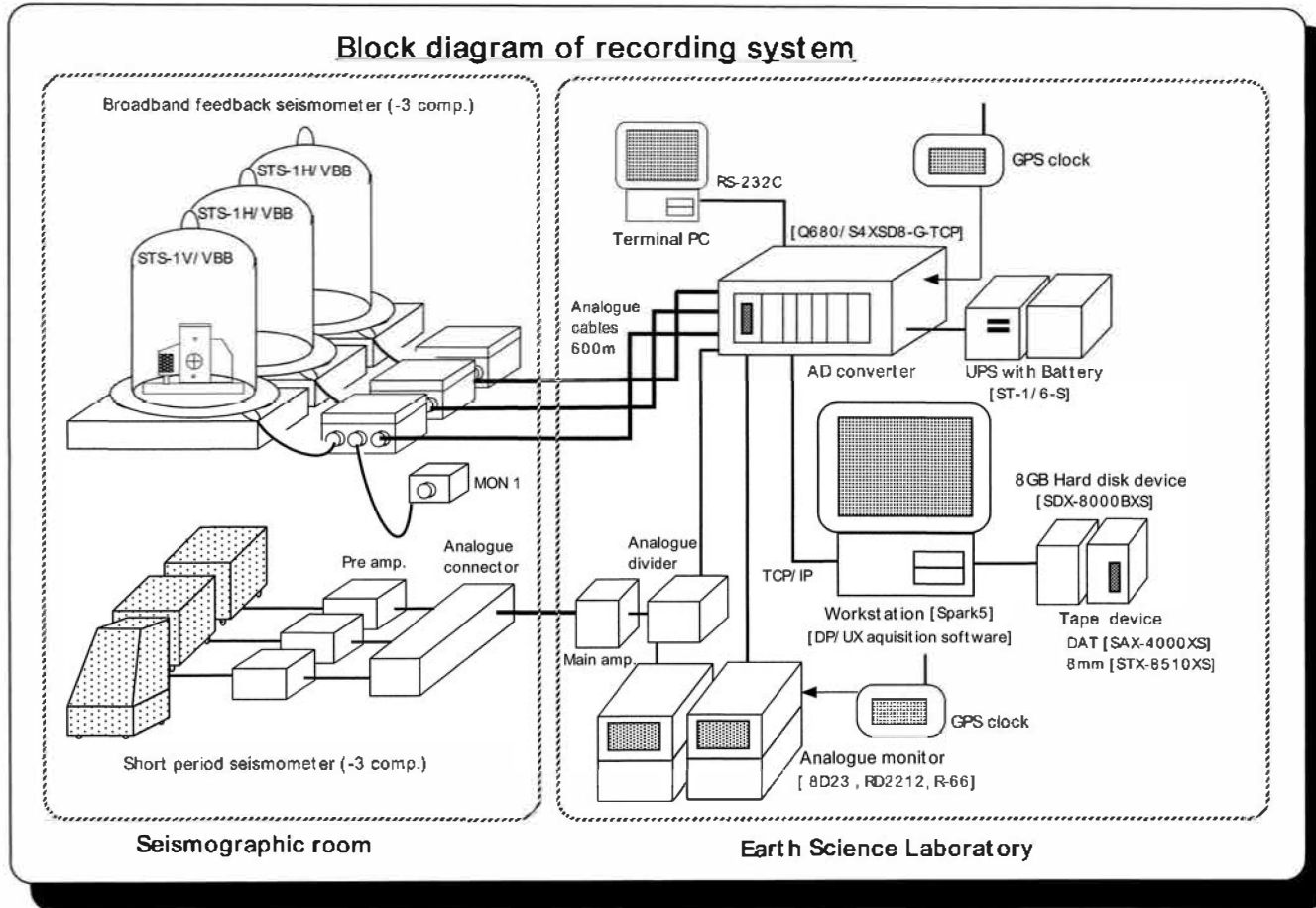


Fig. 2. Block diagram of new recording system for the STS and HES seismographs at Syowa Station. Left figure: Seismographic room; Right figure: Earth Science Laboratory.

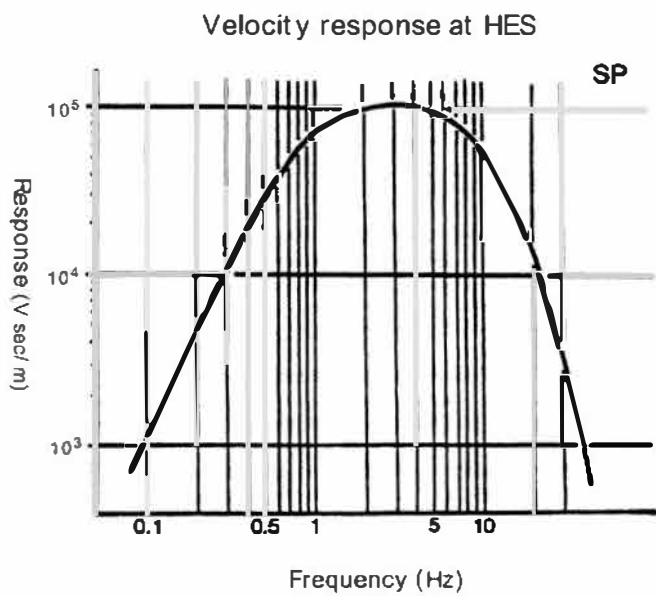


Fig. 3. Over-all frequency responses of the IFS seismographs. (Modified after Hagiwara, 1958).

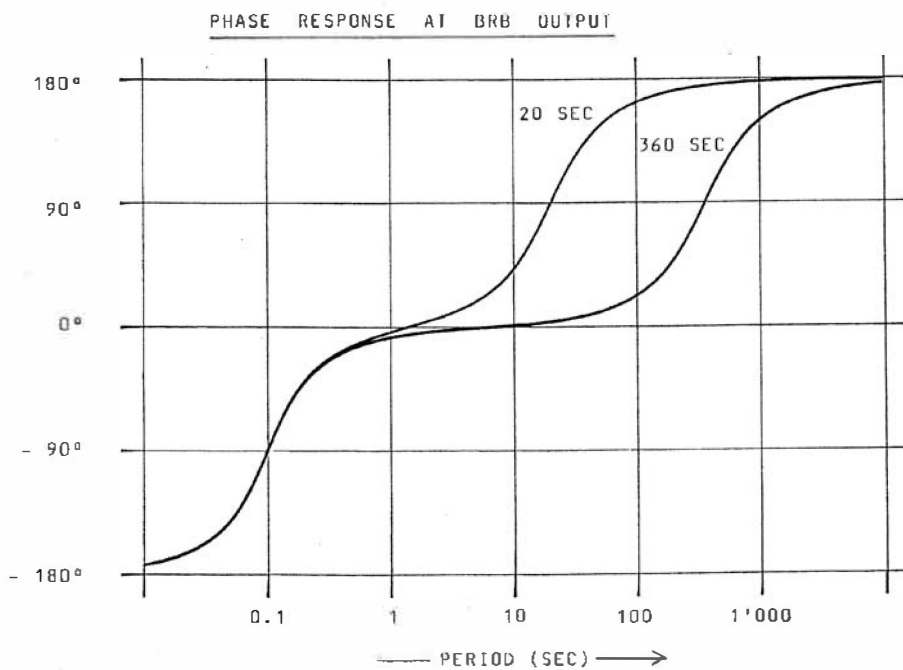
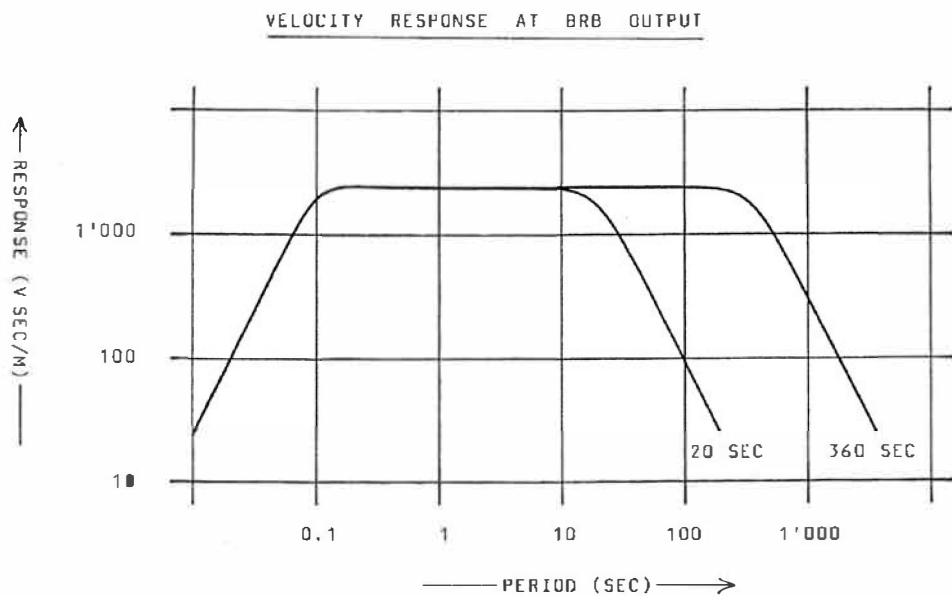


Fig. 4. Amplitude responses (upper figure) and phase responses (lower figure) for the velocity (BRB) output of the broadband seismograph (STS) in the two distinct signal modes of 20 s and 360 s (after Streckeisen and Messergeraete, 1987).

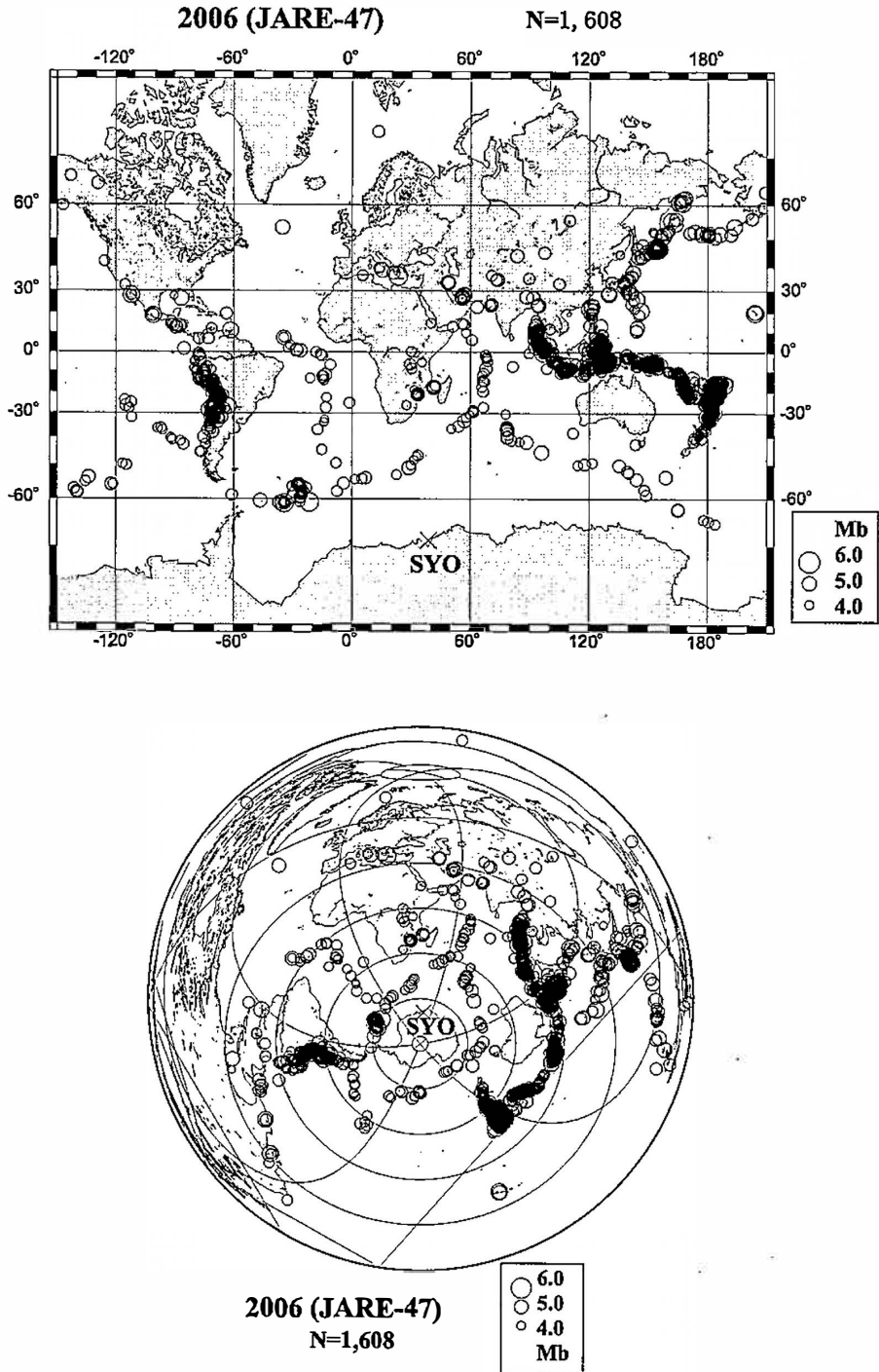


Fig. 5. Epicenters of the 1608 earthquakes recorded at Syowa Station. The sizes of earthquake circles are proportional to the body-wave magnitude (Mb) determined by the National Earthquake Information Center (NEIC) (upper: Mercator Projection, lower: Azimuthal Equidistant Projection).

Table 1. List of phase arrival-time data in 2006.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|-----------|---------------|---------|------|-----------|---------------|---------|
| Jan. 1 | -EPZ | 0211 3.1 | | 3 | -EPZ | 1257 37.4 | |
| 1 | -EpPdiffZ | 0727 30.5 | #-1 | 3 | +EPZ | 1811 29.5 | #-15 |
| 1 | +EPZ | 0859 32.4 | #-2 | 3 | +EPPZ | 1815 14.4 | #-15 |
| 1 | -EpPZ | 0859 44.6 | #-2 | 4 | +EPdiffZ | 0121 28.0 | #-16 |
| 1 | +EPdiffZ | 0957 24.2 | #-3 | 4 | -EPZ | 0136 34.3 | |
| 1 | +EPZ | 1047 14.7 | #-4 | 4 | +EPZ | 0138 0.5 | |
| 1 | +EpPZ | 1047 30.1 | #-4 | 4 | +EPZ | 0241 4.4 | |
| 1 | +EPKiKPZ | 1053 43.2 | #-4 | 4 | -EPZ | 0322 50.9 | #-17 |
| 1 | +EPZ | 1944 48.4 | #-5 | 4 | +EpPZ | 0323 50.0 | #-17 |
| 1 | +EPcPZ | 1944 54.1 | #-5 | 4 | +EPPZ | 0326 14.5 | #-17 |
| 1 | -EPZ | 2207 36.6 | #-6 | 4 | -EPKiKPZ | 0851 57.4 | #-18 |
| 1 | +EPcPZ | 2207 57.8 | #-6 | 4 | +EPPZ | 0854 28.9 | #-18 |
| 2 | +EPZ | 0115 11.9 | | 4 | ESH | 0855 31.8 | #-18 |
| 2 | +EPPZ | 0120 0.1 | #-7 | 4 | -EPZ | 1312 44.7 | #-19 |
| 2 | -EPZ | 0417 43.1 | #-8 | 4 | -IPcPZ | 1312 51.7 | #-19 |
| 2 | -EPcPZ | 0417 44.9 | #-8 | 4 | ESH | 1321 59.1 | #-19 |
| 2 | -EpPZ | 0419 55.4 | #-8 | 4 | +EPZ | 2138 51.8 | |
| 2 | +EPPZ | 0421 15.8 | #-8 | 4 | +EPZ | 2236 55.3 | |
| 2 | ESH | 0427 25.6 | #-8 | 5 | none | | |
| 2 | -IPZ | 0616 20.3 | #-9 | 6 | none | | |
| 2 | +IPZ | 0616 23.5 | #-9 | 7 | +EPKPdfZ | 0243 27.5 | #-20 |
| 2 | -IPZ | 1214 53.6 | #-10 | 7 | -IPKPbcZ | 0243 35.4 | #-20 |
| 2 | +IPZ | 2225 24.3 | #-11 | 7 | +IpPKPbcZ | 0243 45.3 | #-20 |
| 2 | +IPcPZ | 2225 26.3 | #-11 | 7 | -EPKiKPZ | 1348 31.2 | #-21 |
| 2 | +IpPZ | 2227 30.6 | #-11 | 7 | -EpPKiKPZ | 1348 46.0 | #-21 |
| 2 | +IsPZ | 2228 25.1 | #-11 | 7 | +EPZ | 1518 55.4 | |
| 2 | ESH | 2235 15.5 | #-11 | 7 | -EXZ | 1915 30.6 | #-22 |
| 2 | +EPZ | 2251 19.7 | | 7 | -EPZ | 2003 9.5 | #-23 |
| 3 | +EPZ | 0052 33.1 | #-12 | 7 | +EPcPZ | 2003 17.4 | #-23 |
| 3 | -IPZ | 0052 34.0 | #-12 | 7 | +EpPZ | 2004 7.1 | #-23 |
| 3 | -EXZ | 0054 35.3 | #-12 | 8 | +EPZ | 0402 13.1 | |
| 3 | ESH | 0102 21.8 | #-12 | 8 | -EPcPZ | 0402 35.0 | #-24 |
| 3 | -EPZ | 0437 11.0 | #-13 | 8 | -EPZ | 0402 55.4 | |
| 3 | +EPcPZ | 0437 12.0 | #-13 | 8 | -EPdiffZ | 1148 56.7 | #-25 |
| 3 | +EPKPdfZ | 1112 57.9 | #-14 | 8 | -EPKiKPZ | 1153 14.8 | #-25 |

Table 1. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|----------|-------------|------|---------|------|---------|-------------|------|---------|
| 8 | ESKSacZ | 1159 | 31.6 | #-25 | 13 | -IpPZ | 1259 | 28.1 | #-39 |
| 8 | +IPZ | 2321 | 0.1 | #-26 | 13 | -EPPZ | 1302 | 53.7 | #-39 |
| 8 | -EPcPZ | 2321 | 5.3 | #-26 | 13 | +EPZ | 1459 | 47.2 | #-40 |
| 8 | +EpPZ | 2322 | 40.0 | #-26 | 13 | -EPZ | 1729 | 0.9 | #-41 |
| 9 | -EPZ | 2110 | 3.9 | #-27 | 13 | -EpPZ | 1729 | 2.5 | #-41 |
| 9 | -IpPZ | 2110 | 6.9 | #-27 | 13 | +EPZ | 2002 | 55.3 | |
| 9 | -EPPZ | 2112 | 21.9 | #-27 | 13 | -EPZ | 2003 | 10.0 | |
| 10 | -EPdiffZ | 0328 | 26.7 | #-28 | 13 | -EPZ | 2042 | 53.2 | |
| 10 | -EPZ | 1801 | 12.8 | | 13 | -EPZ | 2201 | 42.1 | |
| 10 | +EPZ | 2143 | 41.0 | | 13 | +EPZ | 2259 | 34.1 | #-42 |
| 11 | +EPZ | 0153 | 45.9 | | 13 | -EPcPZ | 2259 | 39.7 | #-42 |
| 11 | +EPZ | 0356 | 50.9 | #-29 | 13 | +EPPZ | 2302 | 34.4 | #-42 |
| 11 | -EPcPZ | 0747 | 10.7 | #-30 | 13 | -EPZ | 2335 | 39.2 | |
| 11 | +EPZ | 1022 | 34.4 | | 13 | +EPZ | 2339 | 8.7 | |
| 11 | -EPZ | 1935 | 15.3 | #-31 | 14 | -EpPZ | 0006 | 9.0 | #-43 |
| 11 | +EPcPZ | 1935 | 17.4 | #-31 | 14 | +EPZ | 0146 | 5.5 | #-44 |
| 11 | -EPZ | 2042 | 1.0 | | 14 | -EpPZ | 0450 | 25.1 | #-45 |
| 11 | +EPZ | 2042 | 35.9 | | 14 | +EPZ | 0903 | 11.1 | #-46 |
| 11 | -EPZ | 2202 | 44.0 | | 14 | -EPnPnZ | 0903 | 27.3 | #-46 |
| 11 | -EPdiffZ | 2202 | 50.3 | #-32 | 14 | -EPZ | 1704 | 55.4 | #-47 |
| 11 | -EPZ | 2209 | 39.9 | | 14 | -EPZ | 1856 | 19.2 | |
| 11 | -EPZ | 2344 | 50.1 | | 15 | -EPZ | 0316 | 15.5 | #-48 |
| 12 | -EPZ | 0347 | 43.3 | | 15 | -EPcPZ | 0316 | 18.9 | #-48 |
| 12 | -EPZ | 0947 | 8.1 | #-33 | 15 | -IPZ | 0654 | 26.6 | #-49 |
| 12 | +EsPZ | 0947 | 13.7 | #-33 | 15 | -IPZ | 0654 | 28.2 | #-49 |
| 12 | +EPcPZ | 1348 | 26.1 | #-34 | 15 | +IpPZ | 0654 | 32.8 | #-49 |
| 12 | -EPZ | 1652 | 53.7 | | 15 | +EPZ | 0829 | 28.1 | |
| 13 | -EPZ | 0346 | 0.9 | #-35 | 15 | -IPZ | 1210 | 10.6 | #-50 |
| 13 | -EPZ | 0754 | 44.0 | #-36 | 15 | +IPcPZ | 1210 | 16.9 | #-50 |
| 13 | -EpPZ | 0756 | 11.0 | #-36 | 15 | +IPZ | 1211 | 16.5 | |
| 13 | +EPZ | 0930 | 57.1 | #-37 | 15 | ESH | 1219 | 51.9 | #-50 |
| 13 | -EpPZ | 0931 | 1.9 | #-37 | 15 | +EPZ | 1828 | 39.5 | |
| 13 | -EPZ | 1102 | 0.2 | #-38 | 16 | +EPZ | 0055 | 47.6 | #-51 |
| 13 | -EPcPZ | 1102 | 7.8 | #-38 | 16 | +EPPZ | 0058 | 29.5 | #-51 |
| 13 | -EPZ | 1259 | 13.5 | #-39 | 16 | -EPZ | 1108 | 4.8 | #-52 |

Table 1. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|-----------|-------------|------|---------|------|----------|-------------|------|---------|
| 16 | +EpPZ | 1108 | 10.2 | #-52 | 21 | -IPcPZ | 0420 | 0.6 | #-68 |
| 16 | -EPZ | 1510 | 54.5 | #-53 | 21 | -IpPZ | 0420 | 14.3 | #-68 |
| 16 | +EPZ | 1518 | 24.6 | | 21 | ESH | 0430 | 48.5 | #-68 |
| 16 | -EPZ | 1634 | 18.4 | #-54 | 21 | -IPZ | 0518 | 34.9 | #-69 |
| 16 | -EsPz | 1634 | 34.1 | #-54 | 21 | +EPZ | 0519 | 6.0 | |
| 17 | +EsPZ | 1449 | 54.1 | #-55 | 21 | -EpPZ | 0700 | 25.9 | #-70 |
| 17 | -EPZ | 2235 | 33.0 | #-56 | 21 | -IPZ | 0858 | 24.8 | #-71 |
| 17 | -EPcPZ | 2235 | 38.9 | #-56 | 21 | +IpPZ | 0858 | 35.4 | #-71 |
| 18 | +EPZ | 1414 | 38.2 | #-57 | 21 | -EPZ | 0946 | 55.0 | #-72 |
| 18 | -EPcPZ | 1414 | 45.3 | #-57 | 21 | -EsPZ | 0947 | 13.5 | #-72 |
| 18 | -EpPdiffZ | 1441 | 29.3 | #-58 | 21 | -EpPZ | 1446 | 26.1 | #-73 |
| 18 | -EPKPdfZ | 1444 | 31.3 | #-58 | 21 | +EPZ | 1552 | 22.4 | #-74 |
| 18 | +EPZ | 1914 | 16.9 | | 21 | -EPcPZ | 1552 | 24.1 | #-74 |
| 18 | -EPZ | 1918 | 21.3 | | 21 | -EsPZ | 1552 | 47.2 | #-74 |
| 19 | +EPcPZ | 0138 | 46.7 | #-59 | 21 | +EPKiKPZ | 2253 | 38.9 | #-75 |
| 19 | -EPZ | 0519 | 48.9 | #-60 | 21 | -EPZ | 2328 | 43.8 | |
| 19 | -EPZ | 0550 | 33.4 | #-61 | 21 | +EPZ | 2340 | 53.8 | |
| 19 | -EPcPZ | 0550 | 35.3 | #-61 | 22 | -EPZ | 1128 | 2.8 | #-76 |
| 19 | +EPZ | 2031 | 6.7 | | 22 | -EPZ | 1149 | 26.9 | #-77 |
| 19 | -EpPZ | 2304 | 48.7 | #-62 | 22 | +IPcPZ | 1149 | 27.4 | #-77 |
| 20 | +EPZ | 0713 | 37.7 | #-63 | 22 | +EPZ | 1440 | 52.8 | |
| 20 | -EPZ | 0908 | 40.1 | | 22 | -EPZ | 1442 | 38.0 | |
| 20 | +EPZ | 1111 | 49.8 | #-64 | 22 | -EPZ | 1554 | 58.3 | |
| 20 | +EPZ | 1545 | 34.6 | #-65 | 22 | -EPZ | 1555 | 12.0 | |
| 20 | +EpPZ | 1545 | 35.0 | #-65 | 22 | +EPZ | 1618 | 54.5 | |
| 20 | -IPZ | 1545 | 38.1 | #-65 | 22 | -EpPZ | 2235 | 6.2 | #-78 |
| 20 | -IpPZ | 1545 | 40.8 | #-65 | 23 | +EPdiffZ | 0433 | 20.8 | #-79 |
| 20 | ESH | 1554 | 41.2 | | 23 | -IPZ | 0615 | 36.4 | #-80 |
| 20 | -EPZ | 1804 | 16.0 | #-66 | 23 | -IPcPZ | 0615 | 41.0 | #-80 |
| 20 | -EPcPZ | 1804 | 22.0 | #-66 | 23 | +IsPZ | 0615 | 53.0 | #-80 |
| 20 | +IPZ | 2037 | 52.5 | #-67 | 23 | ESH | 0626 | 17.1 | #-80 |
| 20 | +IPcPZ | 2037 | 59.7 | #-67 | 23 | +EPZ | 1038 | 41.4 | |
| 20 | -EpPZ | 2039 | 58.7 | #-67 | 23 | -IPZ | 1327 | 49.2 | #-81 |
| 20 | -EsPZ | 2040 | 56.9 | #-67 | 23 | -IPcPZ | 1327 | 50.5 | #-81 |
| 21 | -IPZ | 0419 | 59.2 | #-68 | 23 | +EPPZ | 1331 | 5.3 | #-81 |

Table I. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|----------|-------------|------|---------|------|--------|-------------|------|---------|
| 23 | ESH | 1337 | 9.2 | #-81 | 26 | -EPcPZ | 0644 | 12.9 | #-97 |
| 23 | -EPZ | 1358 | 43.1 | #-82 | 26 | +EPZ | 0644 | 31.8 | |
| 23 | -EPZ | 1433 | 14.4 | #-83 | 26 | +EPPZ | 0646 | 54.1 | #-97 |
| 23 | +EPcPZ | 1433 | 18.7 | #-83 | 26 | -EPZ | 0654 | 7.8 | |
| 23 | -EpPZ | 1433 | 34.1 | #-83 | 26 | -EPcPZ | 1440 | 7.9 | #-98 |
| 24 | -EPZ | 0051 | 20.0 | | 26 | +IPZ | 2227 | 48.5 | #-99 |
| 24 | -EPPZ | 0056 | 51.9 | #-84 | 26 | -EPZ | 2346 | 14.8 | |
| 24 | -EPcPZ | 0255 | 44.5 | #-85 | 27 | -EPZ | 0009 | 43.7 | #-100 |
| 24 | -EPZ | 0256 | 55.6 | | 27 | -EPZ | 0228 | 11.1 | |
| 24 | +EPZ | 0324 | 17.4 | | 27 | +EPZ | 0228 | 18.4 | |
| 24 | -EpPZ | 0436 | 51.5 | #-86 | 27 | +EPZ | 0229 | 24.2 | |
| 24 | -EPZ | 0803 | 5.6 | | 27 | +EPZ | 0244 | 25.0 | #-101 |
| 24 | +EPZ | 0803 | 30.8 | #-87 | 27 | +EPZ | 0343 | 25.5 | |
| 24 | +EPZ | 0803 | 56.7 | | 27 | -EPZ | 0352 | 5.4 | |
| 24 | -EPKiKPZ | 0807 | 44.9 | #-87 | 27 | +EPZ | 0520 | 30.7 | #-102 |
| 24 | +EPZ | 1042 | 2.7 | #-88 | 27 | +EPZ | 0546 | 10.0 | #-103 |
| 24 | -EpPZ | 1043 | 34.6 | #-88 | 27 | +EpPZ | 0548 | 28.8 | #-103 |
| 24 | -IPZ | 1329 | 47.8 | #-89 | 27 | +EPZ | 0655 | 51.6 | #-104 |
| 24 | -IPcPZ | 1329 | 53.8 | #-89 | 27 | -EpPZ | 0656 | 9.8 | #-104 |
| 25 | +EPZ | 0123 | 24.9 | #-90 | 27 | -EPZ | 0749 | 35.6 | #-105 |
| 25 | +EPZ | 0123 | 36.0 | | 27 | +EPcPZ | 0749 | 39.5 | #-105 |
| 25 | -EPZ | 0228 | 57.3 | | 27 | -EPZ | 0823 | 16.1 | #-106 |
| 25 | +EpPZ | 0239 | 27.6 | #-91 | 27 | -EPPZ | 0826 | 25.0 | #-106 |
| 25 | -EPZ | 1147 | 27.1 | #-92 | 27 | +EPZ | 1015 | 7.1 | #-107 |
| 25 | -EpPZ | 1409 | 25.4 | #-93 | 27 | -EPcPZ | 1015 | 19.6 | #-107 |
| 25 | -EXZ | 1548 | 52.1 | #-94 | 27 | -EsPZ | 1015 | 45.3 | #-107 |
| 26 | -EPZ | 0128 | 8.3 | #-95 | 27 | -EPPZ | 1017 | 58.8 | #-107 |
| 26 | +IpPZ | 0128 | 10.0 | #-95 | 27 | -EPPZ | 1023 | 22.4 | #-108 |
| 26 | +IPcPZ | 0128 | 21.0 | #-95 | 27 | -EPZ | 1303 | 32.2 | |
| 26 | -EPPZ | 0130 | 57.0 | #-95 | 27 | -EPZ | 1423 | 12.3 | |
| 26 | ESH | 0137 | 54.1 | #-95 | 27 | -EPZ | 1612 | 46.6 | #-109 |
| 26 | +EPZ | 0349 | 46.6 | #-96 | 27 | +EpPZ | 1612 | 55.5 | #-109 |
| 26 | +EPZ | 0350 | 8.0 | | 27 | +IPZ | 1710 | 42.4 | #-110 |
| 26 | -EPPZ | 0350 | 57.0 | #-96 | 27 | -IPcPZ | 1710 | 45.9 | #-110 |
| 26 | -EPZ | 0644 | 4.5 | #-97 | 27 | ESH | 1720 | 27.7 | #-110 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|--------|----------|---------------|---------|
| 28 | -EPZ | 0038 3.6 | | 31 | -EPZ | 0904 39.3 | |
| 28 | -EPZ | 0038 32.0 | | 31 | +EPZ | 1653 36.5 | #-123 |
| 28 | -EPZ | 0201 55.4 | | 31 | -EpPZ | 1653 47.0 | #-123 |
| 28 | +EPZ | 0204 54.4 | #-111 | 31 | +EPZ | 1723 54.9 | #-124 |
| 28 | +EPZ | 0316 2.7 | #-112 | 31 | -EPcPZ | 1724 0.5 | #-124 |
| 28 | -EPcPZ | 0316 18.3 | #-112 | 31 | +EpPZ | 1724 39.6 | #-124 |
| 28 | +EpPZ | 0316 27.8 | #-112 | 31 | -EPZ | 1816 24.6 | |
| 28 | -EPZ | 1427 2.6 | #-113 | 31 | -EPZ | 1928 4.8 | #-125 |
| 28 | +EpPZ | 1427 40.0 | #-113 | 31 | -EpPZ | 1928 14.6 | #-125 |
| 28 | -EPPZ | 1429 34.8 | #-113 | 31 | ESH | 1938 18.0 | #-125 |
| 28 | +EPZ | 1758 45.5 | | 31 | -EPZ | 2236 9.9 | |
| 28 | -EPZ | 1835 19.7 | | Feb. 1 | -EPZ | 0001 35.6 | #-126 |
| 28 | -EPZ | 2333 48.8 | #-114 | 1 | +EPZ | 1230 33.4 | #-127 |
| 29 | +EpPZ | 0016 41.4 | #-115 | 1 | +IPZ | 1840 19.8 | #-128 |
| 29 | -EPZ | 0250 37.8 | | 1 | +IPcPZ | 1840 20.9 | #-128 |
| 29 | -IPZ | 0838 48.4 | #-116 | 1 | -EpPZ | 1842 28.9 | #-128 |
| 29 | +EpPZ | 0839 38.7 | #-116 | 1 | ESH | 1849 55.9 | #-128 |
| 29 | +EPZ | 1156 8.3 | | 2 | +EPZ | 0032 50.4 | |
| 29 | +IXZ | 1156 38.0 | #-117 | 2 | +EPZ | 0152 19.0 | #-129 |
| 29 | -IPcPZ | 1156 40.0 | #-117 | 2 | +EPPZ | 0155 39.6 | #-129 |
| 29 | -EpPZ | 1156 49.3 | #-117 | 2 | -EPZ | 0718 28.5 | |
| 29 | +EPZ | 1427 33.7 | #-118 | 2 | +EPZ | 0725 31.3 | #-130 |
| 29 | -EPcPZ | 1427 35.7 | #-118 | 2 | -EPcPZ | 0725 34.7 | #-130 |
| 29 | +EpPZ | 1429 45.0 | #-118 | 2 | +EPZ | 1214 23.4 | #-131 |
| 29 | -EPKiKPZ | 1807 36.5 | #-119 | 2 | +IPZ | 1300 36.2 | #-132 |
| 30 | -EPZ | 0222 16.1 | #-120 | 2 | -IPcPZ | 1300 38.1 | #-132 |
| 30 | -IpPZ | 0222 17.6 | #-120 | 2 | -IpPZ | 1302 48.1 | #-132 |
| 30 | -EPZ | 0447 27.7 | #-121 | 2 | ESKSachI | 1310 8.9 | #-132 |
| 30 | +EPZ | 1516 18.9 | | 2 | ESH | 1310 34.5 | #-132 |
| 30 | -EPZ | 1517 28.2 | | 2 | +EPZ | 1347 21.5 | #-133 |
| 30 | -EpPZ | 2132 7.0 | #-122 | 2 | +EsPZ | 1347 39.1 | #-133 |
| 30 | -EPZ | 2134 6.5 | | 2 | -EPZ | 1427 51.8 | |
| 30 | +EPZ | 2255 11.3 | | 2 | -EPZ | 1706 54.0 | |
| 31 | +EPZ | 0132 27.8 | | 2 | +EPZ | 2203 10.5 | |
| 31 | +EPZ | 0751 1.9 | | 2 | +EPKiKPZ | 2207 27.0 | #-134 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|--------|---------------|---------|
| 2 | +EPZ | 2300 39.2 | | 7 | -EpPZ | 0923 41.6 | #-149 |
| 3 | -EPKfKPZ | 0456 41.7 | #-135 | 7 | -EPZ | 1026 59.0 | #-150 |
| 3 | -EPZ | 0625 35.2 | | 7 | +EPZ | 1207 24.4 | |
| 3 | +EPdifZ | 0625 50.6 | #-136 | 7 | -EPPZ | 1629 37.6 | #-151 |
| 3 | +EPKPdfZ | 0629 6.2 | #-136 | 7 | -EPZ | 1627 23.5 | |
| 3 | +EPPZ | 0631 7.3 | #-136 | 7 | +EPZ | 1627 54.0 | |
| 3 | -EPZ | 0703 41.8 | | 7 | +EPcPZ | 1808 51.9 | #-152 |
| 3 | +EPZ | 0732 21.2 | | 7 | +EPZ | 2115 27.5 | #-153 |
| 3 | +EPZ | 1048 41.2 | | 7 | -EpPZ | 2115 44.7 | #-153 |
| 3 | -EPZ | 1432 44.0 | #-137 | 8 | +IPZ | 0513 9.0 | #-154 |
| 3 | +EpPZ | 1434 46.4 | #-137 | 8 | -EpPZ | 0513 11.4 | #-154 |
| 3 | -EPZ | 1505 44.3 | | 8 | -IPZ | 0756 48.5 | #-155 |
| 3 | -EPZ | 1613 10.3 | #-138 | 8 | +IPcPZ | 0756 50.3 | #-155 |
| 3 | -EPZ | 2047 2.6 | #-139 | 8 | -EpPZ | 0757 46.2 | #-155 |
| 3 | -EpPZ | 2047 13.4 | #-139 | 8 | +IPZ | 1408 43.3 | #-156 |
| 3 | -EsPZ | 2047 17.4 | #-139 | 8 | -EPZ | 1707 29.5 | |
| 4 | -EPZ | 0753 30.1 | #-140 | 9 | -EPZ | 0016 37.5 | #-157 |
| 5 | -EPZ | 0121 30.3 | #-141 | 9 | -EPcPZ | 0016 43.9 | #-157 |
| 5 | +EpPZ | 0123 34.2 | #-141 | 9 | -EPZ | 0019 40.8 | |
| 5 | +EPKPdfZ | 0837 12.7 | #-142 | 9 | ESH | 0026 9.1 | #-157 |
| 5 | -IPZ | 1240 55.2 | #-143 | 9 | -EPZ | 0047 24.1 | |
| 5 | +IPcPZ | 1241 1.3 | #-143 | 9 | -EPZ | 0553 52.7 | #-158 |
| 5 | +EPPZ | 1244 12.9 | #-143 | 9 | +EPcPZ | 0553 55.5 | #-158 |
| 5 | ESH | 1250 7.0 | #-143 | 9 | +EpPZ | 0557 16.1 | #-159 |
| 5 | -EPZ | 1353 20.0 | #-144 | 9 | +EPZ | 0602 31.3 | |
| 5 | +EpPZ | 1353 53.7 | #-144 | 9 | -EPZ | 1138 36.7 | #-160 |
| 5 | -EpPKPdfZ | 1635 29.9 | #-145 | 9 | +EpPZ | 1138 40.5 | #-160 |
| 5 | -EPPZ | 1642 3.5 | #-145 | 9 | -EPZ | 1516 5.1 | |
| 5 | +IPZ | 1814 46.1 | #-146 | 9 | -EPZ | 2124 40.8 | |
| 5 | -IPcPZ | 1814 57.7 | #-146 | 9 | +EPZ | 2250 24.2 | |
| 5 | -EPZ | 1820 45.9 | | 10 | +EPZ | 0101 3.1 | |
| 6 | none | | | 10 | +EPZ | 0103 50.3 | |
| 7 | -EPZ | 0328 58.8 | | 10 | +EPZ | 0238 14.1 | |
| 7 | -EPcPZ | 0716 26.8 | #-147 | 10 | -EPZ | 0238 16.0 | |
| 7 | -EPZ | 0901 51.6 | #-148 | 10 | -EPZ | 0238 26.9 | |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|-----------|---------------|---------|
| 10 | +EPdifZ | 0430 10.2 | #-161 | 13 | +EPcPZ | 0944 26.9 | #-169 |
| 10 | +EPZ | 0430 26.0 | | 13 | +EsPZ | 0944 34.9 | #-169 |
| 10 | +EPZ | 0709 44.5 | | 13 | +EPPZ | 0947 27.7 | #-169 |
| 10 | +EPZ | 1622 14.0 | #-162 | 13 | -EpPZ | 1057 55.1 | #-170 |
| 10 | -EPcPZ | 1622 16.8 | #-162 | 13 | -EPcPZ | 1057 58.1 | #-170 |
| 10 | -EpPZ | 1622 55.0 | #-162 | 13 | -EPZ | 1100 21.9 | |
| 10 | +EPPZ | 1625 49.5 | #-162 | 13 | +EPZ | 1217 54.4 | #-171 |
| 10 | -EPZ | 1802 43.0 | #-163 | 13 | +EPcPZ | 1218 4.3 | #-171 |
| 10 | -EpPZ | 1802 53.0 | #-163 | 13 | +EPdifZ | 1306 2.6 | #-172 |
| 10 | -EsPZ | 1802 57.2 | #-163 | 13 | -EPZ | 1309 16.3 | |
| 10 | +EPZ | 1811 6.7 | | 13 | -EPZ | 2026 52.0 | |
| 10 | +EPZ | 1913 9.4 | | 14 | +EPZ | 0029 34.4 | #-173 |
| 10 | -EPZ | 1937 23.7 | | 14 | -EpPKiKPZ | 0113 48.4 | #-174 |
| 10 | +EPZ | 1938 15.1 | | 14 | +EPZ | 0128 51.3 | #-175 |
| 11 | -EPcPZ | 0451 30.2 | #-164 | 14 | +EpPZ | 0129 3.2 | #-175 |
| 11 | +EPZ | 0510 58.1 | #-165 | 14 | -EsPZ | 0129 6.6 | #-175 |
| 11 | +EpPZ | 0511 15.4 | #-165 | 14 | -EPcPZ | 0129 7.7 | #-175 |
| 11 | -EPZ | 1200 20.7 | #-166 | 14 | +EPZ | 0139 4.9 | |
| 11 | -EpPZ | 1200 30.4 | #-166 | 14 | +EPZ | 0424 56.7 | |
| 11 | -EsPZ | 1200 33.6 | #-166 | 14 | -EPKPdfZ | 1545 59.8 | #-176 |
| 11 | -EpPKiKPZ | 1207 4.5 | #-166 | 14 | +EPPZ | 1547 0.2 | #-176 |
| 11 | +EPZ | 1817 52.2 | #-167 | 14 | +EPZ | 1944 21.9 | #-177 |
| 11 | -EPPZ | 1820 35.1 | #-167 | 14 | +EPcPZ | 1944 26.8 | #-177 |
| 11 | -EPZ | 2139 29.7 | | 14 | -EpPZ | 1944 48.8 | #-177 |
| 11 | -EPZ | 2143 3.7 | | 15 | +EPZ | 0100 36.9 | #-178 |
| 11 | +EPZ | 2158 4.9 | #-168 | 15 | -EPcPZ | 0100 52.7 | #-178 |
| 11 | +EpPZ | 2158 16.0 | #-168 | 15 | -EPZ | 0130 15.9 | #-179 |
| 11 | -EPcPZ | 2158 25.9 | #-168 | 15 | -EXZ | 0158 4.5 | #-180 |
| 11 | +EPPZ | 2200 4.5 | #-168 | 15 | -EXZ | 0506 12.4 | #-181 |
| 12 | +EPZ | 0937 49.3 | | 15 | -EsPZ | 0506 59.1 | #-181 |
| 12 | -EPZ | 1157 12.4 | | 15 | +EPPZ | 0509 33.9 | #-181 |
| 12 | +EPZ | 1334 46.3 | | 15 | -EPKiKPZ | 0511 31.7 | #-181 |
| 12 | -EPZ | 1506 19.0 | | 15 | -EPcPZ | 0518 14.8 | #-182 |
| 12 | -EPZ | 1722 39.6 | | 15 | +EsPZ | 0518 34.0 | #-182 |
| 12 | -EPZ | 2157 56.0 | | 15 | +EPZ | 0528 48.2 | #-183 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|----------|---------------|---------|
| 15 | +EpPZ | 0529 12.8 | #-183 | 17 | -EPcPZ | 1336 3.0 | #-196 |
| 15 | +EPZ | 0530 4.5 | | 17 | -EPPZ | 1338 39.4 | #-196 |
| 15 | -EPZ | 1226 18.8 | #-184 | 17 | +EPKiKPZ | 1341 33.2 | #-196 |
| 15 | -EsPZ | 1227 22.8 | #-184 | 17 | +EPZ | 1544 41.3 | #-197 |
| 15 | -EPPZ | 1228 48.9 | #-184 | 17 | -EPcPZ | 1544 48.8 | #-197 |
| 15 | -EPZ | 1914 31.1 | #-185 | 17 | -EpPZ | 1545 31.9 | #-197 |
| 15 | -EPcPZ | 1914 34.1 | #-185 | 17 | +EsPZ | 1545 54.7 | #-197 |
| 15 | -EpPZ | 1914 53.2 | #-185 | 17 | +EPZ | 1602 5.2 | |
| 15 | -EPZ | 1949 35.5 | #-186 | 17 | -EPZ | 1602 40.4 | |
| 15 | -EPZ | 2109 11.2 | | 17 | -EPZ | 1603 26.7 | |
| 16 | -EPZ | 0309 17.0 | #-187 | 17 | -EPZ | 1605 43.2 | |
| 16 | -EPcPZ | 0309 20.4 | #-187 | 17 | +EPZ | 2008 39.3 | |
| 16 | +EPZ | 0427 11.9 | #-188 | 18 | +EPZ | 0122 39.2 | #-198 |
| 16 | -EPZ | 0427 31.6 | | 18 | -EpPZ | 0122 54.1 | #-198 |
| 16 | -EPZ | 1122 4.9 | | 18 | -EXZ | 0300 55.0 | #-199 |
| 16 | -EPZ | 1124 43.9 | | 18 | -EPZ | 1052 51.9 | #-200 |
| 16 | +EPPZ | 1126 18.8 | #-189 | 18 | -EpPZ | 1053 15.4 | #-200 |
| 16 | +EPZ | 1507 47.2 | #-190 | 18 | -EPZ | 1242 3.4 | |
| 16 | -EPcPZ | 1507 49.6 | #-190 | 18 | -EPZ | 1328 11.5 | |
| 16 | +EPZ | 1754 21.6 | | 18 | -EpPZ | 1510 22.2 | #-201 |
| 16 | +EPZ | 2305 4.1 | #-191 | 18 | +EsPZ | 1510 27.4 | #-201 |
| 16 | -EPPZ | 2308 39.4 | #-191 | 18 | ESH | 1519 35.1 | #-201 |
| 16 | +EPZ | 2325 14.3 | | 18 | -EXZ | 1606 12.8 | #-202 |
| 16 | -EPZ | 2327 22.8 | | 18 | -EPcPZ | 1606 15.6 | #-202 |
| 17 | -EpPdiffZ | 0228 49.8 | #-192 | 18 | +EpPZ | 1606 26.2 | #-202 |
| 17 | -EPKPdfZ | 0231 53.4 | #-192 | 18 | -EPPZ | 1609 37.7 | #-202 |
| 17 | -EXZ | 0253 54.3 | #-193 | 18 | -EPZ | 1612 29.0 | #-203 |
| 17 | -EPZ | 0718 50.9 | | 18 | -IPcPZ | 1612 30.6 | #-203 |
| 17 | -EPZ | 0801 53.4 | #-194 | 18 | +lpPZ | 1612 46.0 | #-203 |
| 17 | -EPcPZ | 0802 8.4 | #-194 | 18 | -EsPZ | 1612 51.1 | #-203 |
| 17 | +EPPZ | 0804 38.5 | #-194 | 18 | -EPZ | 1618 23.3 | #-204 |
| 17 | -EPZ | 1224 34.4 | #-195 | 18 | -EpPZ | 1618 42.6 | #-204 |
| 17 | +EpPZ | 1225 2.5 | #-195 | 18 | +EPZ | 1633 19.1 | |
| 17 | +EPPZ | 1225 48.1 | #-195 | 18 | -EPZ | 1633 40.8 | |
| 17 | -EpPZ | 1335 56.2 | #-196 | 18 | -EPZ | 1728 24.3 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|-----------|---------------|---------|
| 18 | +EPZ | 1728 31.3 | | 20 | -EpPZ | 1903 15.4 | #-213 |
| 18 | +EPZ | 1808 21.5 | | 20 | -EPcPZ | 1903 36.4 | #-213 |
| 18 | -EPZ | 1848 51.2 | | 20 | +EPPZ | 1905 41.8 | #-213 |
| 18 | +EPZ | 1944 43.2 | | 20 | -EPZ | 1906 13.8 | |
| 18 | +EsPZ | 2121 19.0 | #-205 | 20 | -EPcPZ | 1906 47.5 | #-214 |
| 19 | +IPZ | 0102 21.3 | #-206 | 20 | -EPZ | 2314 49.3 | #-215 |
| 19 | +EPZ | 0102 24.7 | #-206 | 20 | -EpPZ | 2345 4.7 | #-216 |
| 19 | -EPZ | 0103 7.1 | | 20 | -EsPZ | 2345 8.6 | #-216 |
| 19 | -EPZ | 0620 34.8 | #-207 | 20 | +EPZ | 2346 0.9 | |
| 19 | +EPZ | 1449 55.6 | | 21 | -EPZ | 0048 58.9 | |
| 19 | -EPZ | 1500 31.6 | | 21 | -EPZ | 0049 19.8 | |
| 19 | +EPZ | 1512 39.4 | | 21 | -EPZ | 0052 19.2 | #-217 |
| 19 | -EPZ | 1559 44.8 | | 21 | +EPZ | 0215 35.1 | |
| 19 | -EPZ | 1853 3.8 | | 21 | -EPZ | 0403 7.3 | |
| 19 | +EPZ | 1926 22.5 | | 21 | -EPZ | 0403 33.1 | #-218 |
| 19 | -EPZ | 1926 55.7 | | 21 | +EpPZ | 0403 44.4 | #-218 |
| 19 | +EPZ | 1934 20.3 | | 21 | -EsPZ | 0403 46.9 | #-218 |
| 19 | -EPZ | 2019 28.6 | | 21 | -EPZ | 0458 10.4 | #-219 |
| 19 | -EPZ | 2116 11.3 | #-208 | 21 | -EPdiffZ | 0459 55.1 | #-219 |
| 19 | -EPZ | 2123 48.9 | | 21 | +EpPdiffZ | 0500 5.1 | #-219 |
| 19 | +EPZ | 2153 53.0 | | 21 | -EPZ | 1152 30.6 | |
| 20 | -EPZ | 0051 21.7 | | 21 | +EPPZ | 1157 55.0 | #-220 |
| 20 | +EpPdiffZ | 0711 7.5 | #-209 | 21 | +EPZ | 1249 10.1 | |
| 20 | -EPPZ | 0715 50.3 | #-209 | 21 | +EPZ | 1249 20.5 | |
| 20 | -EPZ | 0806 56.6 | | 21 | -EPZ | 1306 59.4 | |
| 20 | -EXZ | 0807 0.4 | #-210 | 21 | -EPZ | 1307 48.2 | |
| 20 | -EXZ | 0807 11.5 | #-210 | 21 | +EPZ | 1624 13.3 | |
| 20 | -EPZ | 0856 31.3 | #-211 | 21 | -EPZ | 1625 37.8 | |
| 20 | -EpPZ | 0858 41.2 | #-211 | 21 | -EPZ | 1951 51.7 | |
| 20 | -EPZ | 1111 4.7 | | 21 | +EPZ | 2113 18.6 | #-221 |
| 20 | +EPZ | 1111 41.1 | | 21 | +EPPZ | 2116 45.5 | #-221 |
| 20 | +EPZ | 1805 31.7 | #-212 | 21 | -EPcPZ | 2155 35.3 | #-222 |
| 20 | +EpPZ | 1805 41.1 | #-212 | 22 | -EPZ | 0539 55.2 | #-223 |
| 20 | +EsPZ | 1805 49.9 | #-212 | 22 | +EPZ | 0608 26.5 | |
| 20 | -EPZ | 1903 12.0 | #-213 | 22 | +EPZ | 0951 11.2 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 22 | +EPZ | 2227 46.8 | #-224 | 24 | -EPZ | 1419 27.2 | |
| 22 | +IpPZ | 2227 48.3 | #-224 | 24 | +EPZ | 1427 33.3 | |
| 22 | +IPcPZ | 2229 12.7 | #-224 | 24 | +IPZ | 1427 45.9 | |
| 23 | +EPZ | 0132 19.3 | #-225 | 24 | +EPZ | 1429 52.3 | |
| 23 | +EPZ | 0132 23.8 | #-225 | 24 | ESH | 1437 27.6 | |
| 23 | +EPZ | 0230 46.1 | #-226 | 24 | -EPZ | 1803 13.0 | |
| 23 | +EsPZ | 0230 52.2 | #-226 | 24 | -EPZ | 2026 59.2 | |
| 23 | +EPcPZ | 0232 15.1 | #-226 | 24 | +EPZ | 2218 25.4 | |
| 23 | +EPZ | 0251 27.5 | | 24 | -EPZ | 2320 39.8 | |
| 23 | +EPZ | 0252 14.7 | | 25 | +EPZ | 0123 47.6 | |
| 23 | -EPZ | 0401 32.2 | #-227 | 25 | +EPZ | 1155 17.1 | |
| 23 | +EPPZ | 0401 56.1 | #-227 | 25 | -EPZ | 1357 31.9 | |
| 23 | +EPZ | 0408 2.1 | | 25 | +EPZ | 1357 47.6 | |
| 23 | -EPZ | 0409 2.8 | | 25 | -EPZ | 1503 59.4 | |
| 23 | +EPZ | 0409 19.6 | | 25 | +EPZ | 1504 56.1 | |
| 23 | -EPZ | 0409 34.5 | | 25 | -EPZ | 1850 1.2 | |
| 23 | +EPZ | 0413 6.5 | | 25 | -EPZ | 2152 11.0 | |
| 23 | -EPZ | 0553 47.8 | #-228 | 25 | +EPZ | 2152 29.8 | #-234 |
| 23 | +EPZ | 1058 31.7 | | 25 | -EPZ | 2159 23.7 | |
| 23 | +EPZ | 1058 35.1 | | 25 | +EPZ | 2205 59.6 | |
| 23 | +EPZ | 1058 50.9 | | 25 | +EPZ | 2312 57.7 | #-235 |
| 23 | -EPZ | 1059 40.5 | | 25 | -EpPZ | 2313 2.3 | #-235 |
| 23 | +EPZ | 1311 19.6 | #-229 | 25 | +IsPZ | 2313 6.6 | #-235 |
| 23 | -EPZ | 1604 50.0 | #-230 | 26 | +EPZ | 0104 21.5 | #-236 |
| 23 | -EPdiffZ | 2018 52.8 | #-231 | 26 | -EpPZ | 0104 34.2 | #-236 |
| 23 | -EPPZ | 2023 7.9 | #-231 | 26 | +EPZ | 0115 45.5 | |
| 23 | -EPZ | 2140 43.4 | #-232 | 26 | +EPZ | 0228 8.2 | |
| 23 | +EPZ | 2140 53.8 | | 26 | -EPZ | 0250 7.4 | |
| 23 | -EPZ | 2248 59.3 | #-233 | 26 | -IPZ | 0319 58.1 | #-237 |
| 23 | +EPcPZ | 2249 4.1 | #-233 | 26 | +IPcPZ | 0319 59.5 | #-237 |
| 23 | +EpPZ | 2250 47.6 | #-233 | 26 | -IPZ | 0320 11.0 | #-238 |
| 23 | -EsPZ | 2251 38.4 | #-233 | 26 | -EpPZ | 0321 54.4 | #-237 |
| 23 | -EPZ | 2300 16.8 | | 26 | +IPZ | 0320 23.0 | #-238 |
| 23 | -EPZ | 2301 39.5 | | 26 | -EsPZ | 0320 30.1 | #-238 |
| 24 | -EPZ | 0400 15.7 | | 26 | -EPKiKPZ | 0325 8.7 | #-237 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|--------|-----------|---------------|---------|
| 26 | ESH | 0329 31.8 | #-237 | 28 | -EPZ | 0101 32.3 | |
| 26 | +EPZ | 0430 36.5 | | 28 | +EPcPZ | 0115 52.6 | #-250 |
| 26 | -EPZ | 0431 47.5 | #-239 | 28 | -EpPZ | 0115 56.1 | #-250 |
| 26 | +EpPZ | 0431 55.7 | #-239 | 28 | -EPZ | 0252 4.6 | #-251 |
| 26 | -EPPZ | 0509 24.4 | #-240 | 28 | -EsPZ | 0252 20.8 | #-251 |
| 26 | -EXZ | 1042 21.8 | #-241 | 28 | +EPPZ | 0253 26.2 | #-251 |
| 26 | -EsPZ | 1042 56.5 | #-241 | 28 | -EPZ | 0311 4.2 | |
| 26 | +EPZ | 1056 29.4 | | 28 | -EPZ | 0744 41.9 | #-252 |
| 26 | -EPZ | 1057 21.3 | | 28 | +EpPZ | 0744 46.3 | #-252 |
| 26 | -EpPZ | 1351 36.1 | #-242 | 28 | -EPZ | 0803 32.3 | |
| 26 | -EsPZ | 1351 41.8 | #-242 | 28 | +EPZ | 0817 41.3 | |
| 26 | -EpPZ | 1400 47.6 | #-243 | 28 | -EXZ | 1231 42.2 | #-253 |
| 26 | +EpPZ | 1454 37.3 | #-244 | 28 | +EPZ | 1246 25.3 | |
| 26 | -EPcPZ | 1454 51.0 | #-244 | 28 | -EPZ | 1432 52.7 | |
| 26 | +EPZ | 1938 50.8 | #-245 | 28 | +EPZ | 1523 14.4 | |
| 26 | +IPcPZ | 1938 51.6 | #-245 | Mar. 1 | -EPZ | 0057 42.5 | |
| 26 | +EpPZ | 1940 49.5 | #-245 | 1 | -EpPZ | 0324 51.0 | #-254 |
| 26 | +EPPZ | 1942 9.1 | #-245 | 1 | +EPPZ | 0326 33.3 | #-254 |
| 26 | +EPZ | 2014 46.7 | | 1 | +EPZ | 0708 23.5 | |
| 26 | +EPZ | 2015 53.6 | | 1 | +EXZ | 0951 19.1 | #-255 |
| 26 | -EPZ | 2016 33.3 | | 1 | +EpPdiffZ | 1118 4.0 | #-256 |
| 26 | +EPZ | 2025 26.7 | | 1 | -EPZ | 1118 34.1 | |
| 26 | +EPZ | 2145 14.1 | #-246 | 1 | +EPZ | 1118 52.5 | |
| 26 | +EPcPZ | 2145 17.3 | #-246 | 1 | +EPZ | 1209 54.5 | |
| 26 | +EPZ | 2244 1.2 | | 1 | -EPZ | 1210 1.2 | |
| 26 | -EPZ | 2357 36.0 | | 1 | +EPZ | 1239 51.3 | |
| 27 | -EPZ | 0146 20.9 | | 1 | -EPZ | 1344 23.0 | |
| 27 | +EPZ | 0156 42.8 | | 1 | +EPZ | 1446 32.0 | |
| 27 | -EPZ | 0413 8.7 | | 1 | -EPZ | 1447 33.8 | |
| 27 | +EPZ | 0743 2.0 | | 1 | -EPZ | 1448 16.9 | #-257 |
| 27 | -EpPZ | 0815 50.1 | #-247 | 1 | -EXZ | 1451 13.2 | #-257 |
| 27 | +EPZ | 1717 22.6 | #-248 | 1 | +EPZ | 1738 22.0 | |
| 27 | +EpPZ | 1717 29.8 | #-248 | 1 | -EPZ | 1919 54.1 | #-258 |
| 28 | -EPZ | 0045 12.2 | #-249 | 1 | -EPZ | 2033 36.9 | #-259 |
| 28 | -EPPZ | 0048 27.5 | #-249 | 1 | +EpPZ | 2034 5.3 | #-259 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 1 | -EPZ | 2318 26.8 | | 5 | -EPcPZ | 0456 23.1 | #-275 |
| 2 | -EPZ | 0239 13.9 | #-260 | 5 | +EXZ | 0517 36.3 | #-276 |
| 2 | -EPZ | 0240 27.0 | | 5 | -EXZ | 0517 52.5 | #-276 |
| 2 | -EsPZ | 0609 31.2 | #-261 | 5 | -EPZ | 0541 44.9 | #-277 |
| 2 | -EPZ | 0702 2.8 | | 5 | +EPZ | 0641 25.1 | |
| 2 | +EpPZ | 1133 13.7 | #-262 | 5 | +EPZ | 0820 19.9 | #-278 |
| 2 | +EPZ | 1536 47.4 | #-263 | 5 | +IPcPZ | 0820 22.4 | #-278 |
| 2 | -EPcPZ | 1536 49.5 | #-263 | 5 | +EpPZ | 0821 8.1 | #-278 |
| 2 | -EPcPZ | 1632 6.8 | #-264 | 5 | -EPKPdfZ | 1102 28.5 | #-279 |
| 2 | +EPZ | 1632 32.0 | | 5 | -EPKPabZ | 1103 54.6 | #-279 |
| 2 | +EPZ | 2249 35.3 | | 5 | +EPZ | 1234 27.1 | |
| 2 | +EPZ | 2249 55.7 | | 5 | +EPZ | 1726 0.3 | #-280 |
| 2 | -EPPZ | 2355 7.9 | #-265 | 5 | +EXZ | 1729 45.1 | #-280 |
| 3 | -EPZ | 0220 47.9 | | 5 | +EPZ | 1753 5.4 | #-281 |
| 3 | -EPZ | 0247 16.9 | | 5 | -EpPZ | 1753 49.8 | #-281 |
| 3 | +EPZ | 0247 56.2 | #-266 | 5 | +EPPZ | 1756 32.4 | #-281 |
| 3 | +EPdiffZ | 1555 6.2 | #-267 | 5 | -EPPZ | 1847 18.7 | #-282 |
| 3 | -EXZ | 1558 2.9 | #-267 | 5 | -EPZ | 2058 43.8 | #-283 |
| 3 | -EPZ | 1819 24.0 | | 5 | +EXZ | 2058 59.2 | #-283 |
| 3 | -EPZ | 1920 4.1 | | 5 | +EPZ | 2127 42.7 | |
| 3 | +EPZ | 2225 57.9 | | 5 | +EPZ | 2127 55.0 | #-284 |
| 3 | -EPZ | 2341 37.6 | #-268 | 5 | -EPPZ | 2130 45.9 | #-284 |
| 3 | +EpPZ | 2341 42.1 | #-268 | 5 | ESH | 2137 36.1 | #-284 |
| 4 | +EPZ | 0058 41.8 | | 5 | +EPZ | 2200 17.7 | |
| 4 | -EPZ | 0420 9.0 | #-269 | 5 | -EPZ | 2200 29.7 | |
| 4 | -EpPdfZ | 0826 31.2 | #-270 | 6 | +EXZ | 0138 21.5 | #-285 |
| 4 | -EPZ | 1056 11.1 | | 6 | -EXZ | 0138 34.9 | #-285 |
| 4 | +EPcPZ | 1056 29.6 | #-271 | 6 | -EPZ | 0138 45.9 | |
| 4 | -EpPZ | 1057 14.4 | #-271 | 6 | +EPZ | 0149 5.3 | |
| 4 | ESH | 1105 47.0 | #-271 | 6 | +EPZ | 0149 10.9 | |
| 4 | +EPZ | 1112 16.1 | | 6 | +EPZ | 1000 24.3 | #-286 |
| 4 | +EpPZ | 1832 49.1 | #-272 | 6 | +EPPZ | 1002 46.9 | #-286 |
| 4 | -EPdiffZ | 1853 8.7 | #-273 | 6 | -EPZ | 1356 22.6 | |
| 5 | +EPZ | 0217 11.2 | #-274 | 6 | +EPZ | 1545 11.9 | |
| 5 | +EPZ | 0456 8.8 | #-275 | 6 | -EPcPZ | 1631 33.3 | #-287 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 6 | +EPZ | 1820 3.5 | #-288 | 8 | -EpPZ | 1811 44.5 | #-301 |
| 6 | +EXZ | 1821 35.0 | #-288 | 8 | +EPZ | 1829 1.7 | |
| 6 | -EPZ | 2123 22.1 | | 8 | +EPZ | 1935 41.0 | |
| 7 | -EPZ | 0031 57.6 | #-289 | 8 | -EPZ | 2356 32.9 | |
| 7 | +EPZ | 0033 41.2 | | 9 | -EPZ | 0308 50.0 | #-302 |
| 7 | +EPZ | 0038 52.1 | | 9 | -EPZ | 0747 24.6 | #-303 |
| 7 | -EPZ | 0043 30.2 | | 9 | +EPZ | 1005 59.3 | #-304 |
| 7 | -EPZ | 0159 28.6 | #-290 | 9 | +EPPZ | 1007 3.4 | #-304 |
| 7 | -EPZ | 0405 53.0 | | 9 | +EPZ | 1500 9.1 | #-305 |
| 7 | +EPZ | 0454 14.7 | | 9 | -EPPZ | 1502 37.5 | #-305 |
| 7 | +EPZ | 0506 28.2 | #-291 | 9 | +EPZ | 1513 21.0 | #-306 |
| 7 | +EPPZ | 0510 11.8 | #-291 | 9 | +EpPZ | 1513 30.3 | #-306 |
| 7 | -EPKiKPZ | 0511 20.2 | #-291 | 9 | +EPcPZ | 1516 14.2 | #-307 |
| 7 | -EPZ | 0517 12.0 | | 9 | +EPZ | 1524 51.1 | #-308 |
| 7 | -EPZ | 0641 27.6 | | 9 | -EpPZ | 1525 0.6 | #-308 |
| 7 | -IPZ | 0641 31.8 | #-292 | 9 | +EPZ | 1532 10.0 | #-309 |
| 7 | +EsPZ | 0642 23.0 | #-292 | 9 | -EpPZ | 1559 50.2 | #-310 |
| 7 | -EPZ | 0717 47.2 | #-293 | 9 | -EPZ | 1623 22.6 | #-311 |
| 7 | -EPPZ | 0719 9.8 | #-293 | 9 | +EpPZ | 1641 44.3 | #-312 |
| 7 | +EPZ | 1834 10.3 | #-294 | 9 | -EPZ | 1721 40.3 | #-313 |
| 7 | -EXZ | 1837 58.2 | #-294 | 9 | -EPcPZ | 1721 43.8 | #-313 |
| 7 | -EPZ | 2033 39.8 | | 9 | +EPZ | 1733 34.4 | #-314 |
| 7 | +EPcPZ | 2359 3.3 | #-295 | 9 | -EpPZ | 1733 40.0 | #-314 |
| 8 | +EPZ | 0645 56.3 | #-296 | 9 | -EsPZ | 1733 47.3 | #-314 |
| 8 | -EPcPZ | 0646 3.6 | #-296 | 9 | -EPPZ | 1737 6.0 | #-314 |
| 8 | -EPZ | 0652 7.9 | | 9 | +EPZ | 1754 21.3 | #-315 |
| 8 | -EPZ | 1111 43.5 | | 9 | +EPcPZ | 1754 27.1 | #-315 |
| 8 | +EPZ | 1111 57.9 | #-297 | 9 | +EPZ | 1808 12.8 | #-316 |
| 8 | -EPZ | 1229 21.1 | #-298 | 9 | -EPZ | 1834 45.5 | #-317 |
| 8 | -EXZ | 1230 10.7 | #-298 | 9 | -EPZ | 1928 34.7 | #-318 |
| 8 | +EPZ | 1526 34.1 | #-299 | 9 | -EpPZ | 2038 46.3 | #-319 |
| 8 | +EsPZ | 1526 41.1 | #-299 | 9 | -EPcPZ | 2149 54.9 | #-320 |
| 8 | +EPZ | 1608 10.3 | | 9 | -EPZ | 2243 43.9 | #-321 |
| 8 | -EPZ | 1608 23.0 | #-300 | 9 | -EpPZ | 2313 21.8 | #-322 |
| 8 | -EPcPZ | 1608 29.2 | #-300 | 10 | -EPZ | 0027 28.6 | #-323 |

Table I. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|----------|-------------|------|---------|------|----------|-------------|------|---------|
| 10 | -EpPZ | 0126 | 42.5 | #-324 | 12 | -EPZ | 2108 | 22.7 | |
| 10 | -EPZ | 0418 | 33.0 | #-325 | 12 | -EPZ | 2109 | 44.9 | |
| 10 | +EPZ | 0518 | 55.9 | #-326 | 12 | +EPZ | 2124 | 55.3 | |
| 10 | +EPZ | 0937 | 37.4 | #-327 | 12 | +EPcPZ | 2312 | 26.2 | #-342 |
| 10 | +EPZ | 1019 | 3.1 | #-328 | 12 | -EpPZ | 2312 | 33.4 | #-342 |
| 10 | +EpPZ | 1019 | 10.7 | #-328 | 13 | -EPZ | 1109 | 17.8 | |
| 10 | -EPcPZ | 1021 | 43.0 | #-328 | 13 | +EPZ | 1223 | 17.4 | |
| 10 | +EPZ | 1216 | 45.6 | #-329 | 13 | -EPZ | 1428 | 15.4 | #-343 |
| 10 | -EPcPZ | 1216 | 51.5 | #-329 | 13 | -EPZ | 1524 | 10.1 | #-344 |
| 10 | +EPZ | 1542 | 15.4 | #-330 | 13 | -EPcPZ | 1524 | 26.5 | #-344 |
| 10 | -EPZ | 1643 | 40.7 | #-331 | 13 | -EpPZ | 1524 | 46.6 | #-344 |
| 10 | -EPZ | 2226 | 22.8 | | 13 | -EPPZ | 1526 | 58.5 | #-344 |
| 10 | +EPZ | 2226 | 41.7 | #-332 | 13 | +EPZ | 1554 | 58.2 | #-345 |
| 11 | +EPZ | 0316 | 57.6 | #-333 | 13 | -EPcPZ | 1555 | 2.1 | #-345 |
| 11 | -EpPZ | 0317 | 1.4 | #-333 | 13 | +EpPZ | 1556 | 41.6 | #-345 |
| 11 | -EPcPZ | 1201 | 47.4 | #-334 | 14 | +EPZ | 0008 | 20.2 | |
| 11 | +EPZ | 2155 | 49.8 | | 14 | -EPZ | 0019 | 6.8 | #-346 |
| 11 | +EPPZ | 2158 | 55.4 | #-335 | 14 | -EPZ | 0054 | 29.8 | |
| 11 | -EPZ | 2222 | 7.4 | | 14 | +EPZ | 0204 | 9.8 | |
| 11 | -EPZ | 2241 | 17.9 | | 14 | +EPZ | 0414 | 14.4 | #-347 |
| 11 | +EPZ | 2326 | 15.4 | | 14 | +EPZ | 0450 | 10.7 | #-348 |
| 12 | -EPZ | 0226 | 34.1 | | 14 | -EPcPZ | 0450 | 12.9 | #-348 |
| 12 | +EpPZ | 0725 | 44.0 | #-336 | 14 | -EPZ | 0710 | 10.7 | #-349 |
| 12 | -EPKiKPZ | 0730 | 17.1 | #-336 | 14 | -EPcPZ | 0710 | 11.6 | #-349 |
| 12 | +EpPZ | 0828 | 18.7 | #-337 | 14 | -EpPZ | 0745 | 54.6 | #-350 |
| 12 | -EPZ | 1255 | 44.9 | | 14 | -EPZ | 0808 | 8.0 | #-351 |
| 12 | +EPZ | 1411 | 55.5 | | 14 | -EPcPZ | 0808 | 9.7 | #-351 |
| 12 | +EPZ | 1705 | 32.1 | #-338 | 14 | +EPcPZ | 0919 | 55.2 | #-352 |
| 12 | -EPcPZ | 1705 | 35.2 | #-338 | 14 | -EPdiffZ | 1420 | 7.0 | #-353 |
| 12 | +EPZ | 1718 | 29.6 | #-339 | 14 | -EPZ | 1614 | 1.8 | #-354 |
| 12 | -EpPZ | 1718 | 33.5 | #-339 | 14 | -EPcPZ | 1615 | 37.9 | #-354 |
| 12 | +EPZ | 1820 | 33.0 | #-340 | 14 | -EXZ | 1615 | 57.3 | #-354 |
| 12 | +EXZ | 1820 | 42.2 | #-340 | 14 | +EPZ | 1616 | 46.0 | |
| 12 | -EsPZ | 1957 | 17.9 | #-341 | 15 | -EPZ | 0214 | 12.7 | #-355 |
| 12 | -EPZ | 2108 | 4.3 | | 15 | -EPcPZ | 0214 | 14.7 | #-355 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|---------|---------------|---------|
| 15 | -EPZ | 0540 32.5 | #-356 | 17 | +EPZ | 2352 31.9 | |
| 15 | +EPZ | 0621 2.0 | | 18 | -EpPZ | 0352 38.2 | #-368 |
| 15 | +EPZ | 0628 18.8 | | 18 | -EsPZ | 0524 16.3 | #-369 |
| 15 | -EPZ | 0630 6.8 | | 18 | -EPZ | 1419 53.6 | #-370 |
| 15 | +EPZ | 0817 47.6 | #-357 | 18 | -EpPZ | 1420 10.5 | #-370 |
| 15 | -EPcPZ | 0818 13.7 | #-357 | 18 | -EPZ | 1420 18.1 | |
| 15 | +EPZ | 1201 34.2 | #-358 | 18 | -EPZ | 1555 27.7 | #-371 |
| 15 | +EPZ | 1428 28.9 | #-359 | 18 | -EpPZ | 1555 46.9 | #-371 |
| 15 | -EpPZ | 1428 30.8 | #-359 | 18 | +EPZ | 2318 11.1 | #-372 |
| 15 | +EPZ | 1817 42.6 | #-360 | 18 | +EpPZ | 2318 26.7 | #-372 |
| 15 | -EPZ | 1847 39.2 | | 18 | -EPnPnZ | 2319 12.7 | #-372 |
| 15 | +EPZ | 1903 28.6 | | 19 | -EPZ | 0436 48.6 | #-373 |
| 16 | -EPZ | 0554 47.9 | #-361 | 19 | +EPZ | 0437 50.9 | #-374 |
| 16 | +EpPZ | 0554 56.1 | #-361 | 19 | -IPZ | 0449 58.1 | #-375 |
| 16 | -EPcPZ | 0555 4.9 | #-361 | 19 | +EPZ | 1108 58.2 | #-376 |
| 16 | +EPZ | 0933 56.4 | | 19 | -EPcPZ | 1109 4.6 | #-376 |
| 16 | +EPZ | 1023 13.4 | | 19 | +EPZ | 1212 41.0 | #-377 |
| 16 | +EPZ | 1306 21.6 | | 19 | -EPcPZ | 1212 44.8 | #-377 |
| 16 | +EPZ | 1406 58.8 | | 19 | -IPZ | 1345 15.5 | #-378 |
| 16 | -EPcPZ | 1524 41.5 | #-362 | 19 | -EPZ | 1923 56.2 | #-379 |
| 16 | -EpPZ | 1524 51.8 | #-362 | 19 | +EPZ | 2014 34.5 | #-380 |
| 16 | -EXZ | 2201 58.5 | #-363 | 19 | -EPZ | 2210 5.4 | #-381 |
| 17 | +EPZ | 0427 22.4 | | 19 | -EPcPZ | 2210 7.2 | #-381 |
| 17 | +EPZ | 0649 1.9 | | 20 | +EPZ | 0003 18.3 | |
| 17 | -EPZ | 0650 15.7 | | 20 | +EPZ | 0410 52.3 | |
| 17 | -EPZ | 0740 52.7 | | 20 | -EPZ | 0954 50.5 | |
| 17 | -EPZ | 1318 55.1 | #-364 | 20 | -EPZ | 1431 4.4 | #-382 |
| 17 | -EPcPZ | 1319 1.4 | #-364 | 20 | -IPcPZ | 1431 5.7 | #-382 |
| 17 | +EpPZ | 1320 22.1 | #-364 | 20 | -EpPZ | 1431 11.0 | #-382 |
| 17 | -EPZ | 1348 12.8 | #-365 | 20 | -EPcPZ | 1442 31.4 | #-383 |
| 17 | -EXZ | 1401 20.5 | #-366 | 20 | +EPZ | 1446 8.4 | #-384 |
| 17 | -EpPZ | 1401 45.6 | #-366 | 20 | -EPcPZ | 1446 12.8 | #-384 |
| 17 | +EPZ | 1434 42.4 | | 20 | -EPZ | 1448 8.2 | #-385 |
| 17 | -EPZ | 1959 17.1 | #-367 | 20 | -EPPZ | 1451 51.4 | #-385 |
| 17 | -EPPZ | 2003 2.2 | #-367 | 20 | -EPZ | 1749 37.3 | #-386 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|-----------|---------------|---------|
| 20 | +IPcPZ | 1749 38.2 | #-386 | 23 | -EPZ | 1913 9.3 | |
| 20 | -EpPdiffZ | 1755 4.4 | #-387 | 23 | +EPZ | 1913 38.7 | |
| 20 | -IPKiKPZ | 1759 10.7 | #-387 | 23 | +EPZ | 2055 33.8 | #-400 |
| 20 | -EPPZ | 1759 23.3 | #-387 | 24 | -EPZ | 0125 9.4 | |
| 20 | +EpPZ | 1942 9.9 | #-388 | 24 | -EPZ | 0801 29.0 | |
| 20 | +EPPZ | 1945 37.9 | #-388 | 25 | -EPZ | 0742 27.2 | #-401 |
| 20 | -EPdiffZ | 1958 46.0 | #-389 | 25 | +EPZ | 0742 36.7 | #-401 |
| 20 | -EPPZ | 2003 20.5 | #-389 | 25 | -EPZ | 1022 29.8 | |
| 20 | -EPZ | 2031 23.3 | | 25 | -EXZ | 1026 15.2 | #-402 |
| 20 | +EPZ | 2101 34.5 | | 25 | +EPKiKPZ | 1027 42.3 | #-402 |
| 20 | +EPZ | 2256 29.5 | | 25 | -EXZ | 1027 47.5 | #-403 |
| 20 | +EPZ | 2342 18.7 | | 25 | -EPZ | 1054 54.1 | #-404 |
| 21 | None | | | 25 | +EsPZ | 1055 22.0 | #-404 |
| 22 | -EPZ | 0401 14.0 | | 25 | +EPZ | 1155 7.5 | |
| 22 | -EPZ | 1143 50.9 | #-390 | 25 | +EpPZ | 1531 23.1 | #-405 |
| 22 | +EPZ | 1202 37.2 | #-391 | 25 | -EPcPZ | 1531 49.9 | #-405 |
| 22 | +EPcPZ | 1202 46.1 | #-391 | 25 | +EPZ | 1535 9.3 | #-406 |
| 22 | -EPZ | 1314 58.8 | #-392 | 25 | -EPdiffZ | 2027 8.1 | #-407 |
| 22 | -EPZ | 1518 27.9 | #-393 | 25 | -EpPdiffZ | 2027 20.6 | #-407 |
| 22 | -EPZ | 1627 14.6 | | 25 | +EPPZ | 2031 14.3 | #-407 |
| 23 | -EPZ | 0031 14.5 | #-394 | 25 | -EPKiKPZ | 2034 3.8 | #-408 |
| 23 | +EPcPZ | 0031 22.5 | #-394 | 26 | +EPZ | 0934 7.8 | #-409 |
| 23 | -EPPZ | 0034 21.2 | #-394 | 26 | +EPZ | 0955 57.9 | #-410 |
| 23 | -EsPZ | 0322 12.7 | #-395 | 26 | -EPcPZ | 2309 38.4 | #-411 |
| 23 | -EPZ | 0337 15.3 | #-396 | 27 | -EPZ | 0040 20.9 | #-412 |
| 23 | +EpPZ | 0337 30.2 | #-396 | 27 | +EPZ | 0535 45.7 | #-413 |
| 23 | +EPPZ | 0340 7.5 | #-396 | 27 | +EsPZ | 0536 10.9 | #-413 |
| 23 | +EPcPZ | 0414 38.6 | #-397 | 27 | +EPcPZ | 0642 54.0 | #-414 |
| 23 | +EpPZ | 0416 8.3 | #-397 | 27 | +EpPZ | 1316 27.1 | #-415 |
| 23 | -EPZ | 0623 19.3 | #-398 | 27 | -EPnPnZ | 1317 7.1 | #-415 |
| 23 | +EpPZ | 0623 24.1 | #-398 | 27 | -EPZ | 1741 4.3 | |
| 23 | -EPcPZ | 0624 46.0 | #-398 | 27 | -EPZ | 2020 24.9 | #-416 |
| 23 | +EPZ | 1405 39.5 | #-399 | 27 | +EpPZ | 2022 22.2 | #-416 |
| 23 | +EpPZ | 1405 41.6 | #-399 | 27 | +EPZ | 2122 2.6 | |
| 23 | -EsPZ | 1405 44.2 | #-399 | 27 | -EPPZ | 2125 26.3 | #-417 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|-----------|---------------|---------|
| 27 | +EPZ | 2357 47.2 | | 29 | -EPZ | 0650 42.1 | |
| 28 | -EpPZ | 0416 19.7 | #-418 | 29 | +EPZ | 0650 54.5 | #-428 |
| 28 | +EPPZ | 0417 11.9 | #-418 | 29 | +EPcPZ | 0650 56.1 | #-428 |
| 28 | +EPZ | 0604 2.4 | | 29 | -EPZ | 1036 40.9 | #-429 |
| 28 | -EPZ | 0605 58.9 | | 29 | -EpPZ | 1036 50.3 | #-429 |
| 28 | -EPcPZ | 0705 32.0 | #-419 | 29 | -EPZ | 1051 53.3 | #-430 |
| 28 | +EPZ | 0708 42.1 | | 29 | -EXZ | 1053 23.3 | #-430 |
| 28 | +EXZ | 0708 52.2 | #-419 | 29 | -EPPZ | 1053 41.8 | #-430 |
| 28 | +EPZ | 1027 38.4 | #-420 | 29 | -EPZ | 1111 27.8 | |
| 28 | +EpPZ | 1027 43.6 | #-420 | 29 | -EPZ | 1111 41.8 | |
| 28 | -EPZ | 1347 3.9 | | 29 | -EPZ | 1610 54.9 | #-431 |
| 28 | -EXZ | 1350 50.5 | #-421 | 29 | +EPcPZ | 1610 57.9 | #-431 |
| 28 | +EPZ | 1351 3.5 | | 29 | -EpPZ | 1611 1.5 | #-431 |
| 28 | -EPcPZ | 1824 20.5 | #-422 | 29 | -EPZ | 1625 11.6 | |
| 28 | -EPZ | 2148 14.4 | #-423 | 29 | -EPZ | 1625 30.3 | #-432 |
| 28 | +EpPZ | 2148 31.2 | #-423 | 29 | +EPZ | 1633 19.9 | #-433 |
| 28 | +EPPZ | 2151 17.7 | #-423 | 29 | +EPcPZ | 1701 15.5 | #-434 |
| 28 | -EXZ | 2239 40.3 | #-424 | 29 | +EPcPZ | 1731 50.2 | #-435 |
| 28 | -EpPZ | 2239 53.3 | #-424 | 29 | +EPPZ | 1734 52.9 | #-435 |
| 28 | -EPPZ | 2243 18.3 | #-424 | 29 | -EPZ | 1737 52.9 | |
| 28 | -EXZ | 2244 45.3 | #-424 | 29 | +EPZ | 1739 0.0 | |
| 28 | +EPZ | 2245 24.2 | | 29 | -EXZ | 1800 33.7 | #-436 |
| 28 | +EPcPZ | 2355 37.3 | #-425 | 29 | +EPcPZ | 1800 38.2 | #-436 |
| 28 | -EpPZ | 2356 8.6 | #-425 | 29 | -EpPZ | 1802 32.8 | #-436 |
| 28 | -EPPZ | 2358 3.4 | #-425 | 29 | +EPZ | 2253 53.0 | #-437 |
| 29 | +EPZ | 0142 48.9 | | 29 | -EsPZ | 2254 5.0 | #-437 |
| 29 | +EPZ | 0143 2.0 | | 29 | -EPPZ | 2257 28.2 | #-437 |
| 29 | +EPcPZ | 0220 8.5 | #-426 | 29 | -EpPKiKPZ | 2258 47.0 | #-437 |
| 29 | -EPKiKPZ | 0225 20.1 | #-426 | 30 | +EPZ | 0303 17.7 | |
| 29 | -EPZ | 0345 55.2 | | 30 | +EPZ | 0326 32.2 | #-438 |
| 29 | -EPZ | 0346 20.7 | | 30 | +EPPZ | 0329 25.9 | #-438 |
| 29 | -EPZ | 0401 12.8 | | 30 | -EPdifZ | 1950 18.0 | #-439 |
| 29 | -EPZ | 0554 20.9 | | 30 | -EPZ | 2048 8.1 | #-440 |
| 29 | +EPcPZ | 0554 58.4 | #-427 | 30 | +EPZ | 2103 31.7 | |
| 29 | -EPPZ | 0558 12.9 | #-427 | 30 | +EPZ | 2313 2.3 | |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|----------|---------------|---------|------|-----------|---------------|---------|
| 31 | +EPZ | 0130 30.0 | | 1 | -EpPdiffZ | 0600 1.8 | #-457 |
| 31 | +EPPZ | 0135 13.3 | #-441 | 1 | -EPcPZ | 0601 27.7 | #-458 |
| 31 | -EPZ | 0149 4.0 | | 1 | +EPPZ | 0604 9.0 | #-458 |
| 31 | -EPZ | 0152 41.9 | | 1 | +EpPZ | 0621 54.7 | #-459 |
| 31 | +EPZ | 0353 22.8 | #-442 | 1 | -EPZ | 0637 19.0 | |
| 31 | +EPcPZ | 0353 32.8 | #-442 | 1 | -EXZ | 0637 34.3 | #-460 |
| 31 | +EpPZ | 0353 50.8 | #-442 | 1 | -EPZ | 0900 2.7 | |
| 31 | +EPZ | 0737 9.8 | #-443 | 1 | +EPdiffZ | 1016 43.0 | #-461 |
| 31 | -EPZ | 0918 32.5 | #-444 | 1 | +EPZ | 1046 58.4 | #-462 |
| 31 | -EPZ | 1332 29.4 | | 1 | +EPcPZ | 1139 23.4 | #-463 |
| 31 | +EPZ | 1332 59.0 | #-445 | 1 | -EPZ | 1141 54.9 | #-464 |
| 31 | +EpPZ | 1333 1.7 | #-445 | 1 | +EPcPZ | 1142 3.3 | #-464 |
| 31 | +EXZ | 1351 28.6 | #-446 | 1 | -EPPZ | 1144 46.6 | #-464 |
| 31 | +EPPZ | 1354 54.1 | #-446 | 1 | -EPZ | 1147 27.4 | |
| 31 | +EPZ | 1417 41.0 | #-447 | 1 | +EPZ | 1219 29.0 | |
| 31 | -EPPZ | 1556 18.8 | #-448 | 1 | +EXZ | 1353 19.3 | #-465 |
| 31 | +EPKiKPZ | 1557 21.7 | #-448 | 1 | +EpPZ | 1355 32.5 | #-466 |
| 31 | -EPZ | 1623 53.8 | #-449 | 1 | -EPcPZ | 1355 39.4 | #-466 |
| 31 | -EPZ | 2030 42.2 | #-450 | 1 | -EPZ | 1717 14.5 | |
| 31 | -EPcPZ | 2030 53.9 | #-450 | 1 | -EPZ | 1807 55.3 | #-467 |
| 31 | -EpPZ | 2030 57.0 | #-450 | 1 | -IPcPZ | 1808 1.1 | #-467 |
| 31 | -EPZ | 2035 46.1 | #-451 | 1 | -EXZ | 2110 11.9 | #-468 |
| 31 | -IPZ | 2050 28.2 | #-452 | 1 | -EPZ | 2127 53.2 | #-469 |
| 31 | +EpPZ | 2050 33.9 | #-452 | 1 | +IXZ | 2127 55.3 | #-469 |
| 31 | -EsPZ | 2050 37.5 | #-452 | 1 | -EXZ | 2203 30.2 | #-470 |
| 31 | -IPZ | 2127 51.8 | #-453 | 2 | -EPZ | 0016 12.6 | |
| 31 | -IPcPZ | 2127 53.0 | #-453 | 2 | -EPZ | 0017 7.3 | |
| 31 | +EpPZ | 2128 7.9 | #-453 | 2 | -EPZ | 0503 31.5 | #-471 |
| Apr. 1 | -EPZ | 0352 46.0 | #-454 | 2 | +EPZ | 0536 35.1 | #-472 |
| 1 | -EPcPZ | 0352 55.6 | #-454 | 2 | -EPcPZ | 0842 47.5 | #-473 |
| 1 | -EXZ | 0355 40.0 | #-454 | 2 | +EpPZ | 0842 51.6 | #-473 |
| 1 | -EPZ | 0435 31.6 | #-455 | 2 | +EPZ | 2311 34.3 | #-474 |
| 1 | +IPZ | 0527 29.4 | #-456 | 2 | -EPcPZ | 2311 46.4 | #-474 |
| 1 | -EPcPZ | 0527 36.4 | #-456 | 3 | -EpPZ | 0135 10.6 | #-475 |
| 1 | -EPdiffZ | 0558 3.3 | #-457 | 3 | +EPPZ | 0138 19.5 | #-475 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|----------|---------------|---------|
| 3 | +EPZ | 0139 55.2 | #-476 | 5 | -EpPZ | 0134 0.5 | #-488 |
| 3 | -IPZ | 0153 21.9 | #-477 | 5 | +EPPZ | 0135 40.5 | #-488 |
| 3 | +IPcPZ | 0153 29.0 | #-477 | 5 | +EPKiKPZ | 0136 56.7 | #-488 |
| 3 | -EPPZ | 0156 15.8 | #-477 | 5 | +EPZ | 0145 1.5 | #-489 |
| 3 | +EPZ | 0207 50.5 | #-478 | 5 | +EpPZ | 0145 22.6 | #-489 |
| 3 | -EXZ | 0345 30.4 | #-479 | 5 | -EPZ | 0153 49.3 | |
| 3 | +EPZ | 0347 13.4 | | 5 | +EPZ | 0331 22.2 | #-490 |
| 3 | -EPZ | 1650 20.4 | | 5 | +EpPZ | 0331 36.5 | #-490 |
| 3 | +EPZ | 1925 43.2 | | 5 | -EpPZ | 1339 25.5 | #-491 |
| 3 | -EPZ | 1925 47.2 | #-480 | 5 | -EPPZ | 1342 49.6 | #-491 |
| 3 | -EXZ | 1926 0.5 | #-480 | 5 | +EXZ | 1552 25.0 | #-492 |
| 3 | -EPPZ | 1929 28.5 | #-480 | 5 | -EPcPZ | 1552 34.5 | #-492 |
| 3 | -EPZ | 2140 28.3 | | 5 | -EPZ | 1552 50.7 | |
| 3 | +EPZ | 2307 11.5 | | 5 | -EPZ | 1750 24.3 | |
| 4 | -EPZ | 0149 40.3 | #-481 | 5 | +EpPZ | 1750 38.2 | #-493 |
| 4 | +EpPZ | 0150 3.2 | #-481 | 5 | +EPPZ | 1752 17.9 | #-493 |
| 4 | +EsPZ | 0150 20.3 | #-481 | 5 | -EPZ | 1847 33.2 | #-494 |
| 4 | +EPZ | 0558 28.7 | | 5 | +EpPZ | 1847 40.3 | #-494 |
| 4 | -EPZ | 0558 41.3 | #-482 | 5 | +EPPZ | 1850 38.5 | #-494 |
| 4 | +EPcPZ | 0558 55.8 | #-482 | 5 | +EPKiKPZ | 1852 54.1 | #-494 |
| 4 | +EPPZ | 0601 31.1 | #-482 | 5 | -IPZ | 2213 0.2 | #-495 |
| 4 | -IPZ | 1049 1.5 | #-483 | 5 | -EPcPZ | 2213 6.2 | #-495 |
| 4 | -EPcPZ | 1049 10.6 | #-483 | 5 | -EpPZ | 2213 15.5 | #-495 |
| 4 | -EPPZ | 1052 1.7 | #-483 | 5 | -EXZ | 2213 20.2 | #-496 |
| 4 | +EPZ | 1059 20.1 | #-484 | 5 | +EPZ | 2301 9.0 | #-496 |
| 4 | -EPZ | 1217 46.5 | #-485 | 5 | +EPZ | 2304 15.9 | |
| 4 | +EPZ | 1252 15.6 | | 5 | -EPZ | 2304 52.7 | |
| 4 | +EPZ | 2027 50.8 | #-486 | 5 | -EXZ | 2336 40.5 | #-497 |
| 4 | +EpPZ | 2027 55.6 | #-486 | 5 | -EPcPZ | 2336 43.5 | #-497 |
| 4 | -EXZ | 2030 42.1 | #-486 | 6 | +EPcPZ | 0447 53.4 | #-498 |
| 4 | -EPZ | 2157 11.3 | | 6 | -EPZ | 1116 14.6 | #-499 |
| 4 | -EPZ | 2313 30.3 | | 6 | +EpPZ | 1116 30.7 | #-499 |
| 5 | -EPZ | 0020 8.5 | | 6 | +EPZ | 1216 17.1 | #-500 |
| 5 | -EPZ | 0023 17.3 | | 6 | +EPZ | 1219 41.0 | |
| 5 | +EPZ | 0039 45.7 | #-487 | 6 | +EPZ | 1227 17.2 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|--------|---------------|---------|
| 6 | +EPZ | 1333 20.7 | | 8 | -EXZ | 1552 25.8 | #-518 |
| 6 | +EXZ | 1812 33.5 | #-501 | 8 | -EXZ | 1552 53.2 | #-518 |
| 6 | -EXZ | 1816 22.7 | #-501 | 8 | +EPZ | 2215 7.5 | #-519 |
| 6 | +EPZ | 1818 57.0 | | 8 | +EPcPZ | 2215 15.9 | #-519 |
| 6 | -EPZ | 2224 41.2 | | 9 | +EPZ | 1116 35.3 | |
| 7 | +EpPZ | 0241 27.4 | #-502 | 9 | -EPZ | 1116 42.7 | #-520 |
| 7 | -EPZ | 0251 41.3 | | 9 | -EPZ | 1235 15.9 | #-521 |
| 7 | +EPZ | 0258 7.5 | | 9 | +EpPZ | 1235 21.2 | #-521 |
| 7 | +EPZ | 0330 50.2 | #-503 | 9 | +EPZ | 1238 48.7 | |
| 7 | +EPZ | 0509 41.7 | #-504 | 9 | +EPZ | 1510 14.9 | #-522 |
| 7 | -EPZ | 0509 52.6 | | 9 | +EsPZ | 1511 58.8 | #-522 |
| 7 | -EPZ | 0524 38.7 | #-505 | 9 | +EPZ | 1642 15.6 | |
| 7 | -EXZ | 0527 42.6 | #-505 | 9 | -EXZ | 1647 28.9 | #-523 |
| 7 | -EXZ | 0605 3.9 | #-506 | 10 | -EPZ | 0001 2.6 | #-524 |
| 7 | -EPZ | 0843 37.1 | #-507 | 10 | +EPcPZ | 0001 4.1 | #-524 |
| 7 | +EpPZ | 0843 45.5 | #-507 | 10 | +EXZ | 0001 41.9 | #-524 |
| 7 | +EsPZ | 0843 49.7 | #-507 | 10 | -EPZ | 0248 39.0 | #-525 |
| 7 | +EPZ | 1442 37.9 | #-508 | 10 | -EPZ | 0548 34.1 | |
| 7 | +EpPZ | 1444 38.4 | #-508 | 10 | -EPZ | 0639 10.5 | |
| 7 | +EPcPZ | 1531 38.6 | #-509 | 10 | +EXZ | 1142 31.3 | #-526 |
| 7 | +EXZ | 1534 19.0 | #-509 | 10 | -EPZ | 1146 8.8 | |
| 7 | -EpPZ | 2011 23.3 | #-510 | 10 | +EpPZ | 1349 20.1 | #-527 |
| 7 | -EXZ | 2353 55.1 | #-511 | 10 | -EPPZ | 1352 25.6 | #-527 |
| 7 | -EsPZ | 2354 6.2 | #-511 | 10 | -EpPZ | 1429 19.5 | #-528 |
| 7 | +EXZ | 2357 8.2 | #-511 | 10 | -EPZ | 1515 16.8 | |
| 8 | -EpPZ | 0302 54.8 | #-512 | 10 | -EPZ | 1515 57.8 | |
| 8 | -EpPZ | 0321 24.1 | #-513 | 10 | +EPPZ | 1520 35.3 | #-529 |
| 8 | +EPZ | 0623 25.5 | | 10 | +EsPZ | 2219 22.2 | #-530 |
| 8 | -EPZ | 0759 14.8 | | 10 | -EpPZ | 2315 6.6 | #-531 |
| 8 | +EPcPZ | 0759 46.6 | #-514 | 10 | +EXZ | 2315 18.0 | #-531 |
| 8 | +EPZ | 0815 10.5 | | 10 | -EPZ | 2314 52.5 | #-532 |
| 8 | -EpPZ | 0817 29.8 | #-515 | 11 | +EPcPZ | 0249 23.9 | #-533 |
| 8 | -EPZ | 1008 33.7 | #-516 | 11 | +EPZ | 0249 35.2 | |
| 8 | -EPZ | 1339 2.4 | #-517 | 11 | -EpPZ | 0249 46.8 | #-533 |
| 8 | +EXZ | 1340 52.2 | #-517 | 11 | -EPZ | 0723 0.2 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|--------|---------------|---------|
| 11 | +EPPZ | 0724 3.7 | #-534 | 15 | +EpPZ | 0800 56.6 | #-546 |
| 11 | +EPcPZ | 1046 10.0 | #-535 | 15 | +EPZ | 0808 45.8 | |
| 11 | +EpPZ | 1046 40.2 | #-535 | 15 | +EPZ | 1244 51.9 | |
| 11 | +EPPZ | 1049 41.6 | #-535 | 15 | +EPZ | 2006 54.1 | |
| 11 | +EPZ | 1645 19.7 | | 16 | -EPZ | 0146 8.2 | |
| 11 | -EXZ | 1645 48.0 | #-536 | 16 | +EpPZ | 1654 2.4 | #-547 |
| 11 | -EPZ | 1744 20.7 | | 16 | +IPZ | 1759 7.4 | #-548 |
| 11 | +EPZ | 1748 42.1 | | 16 | -EPZ | 1759 8.0 | #-548 |
| 12 | +EPZ | 0550 50.3 | | 17 | -EPPZ | 2048 1.6 | #-549 |
| 12 | -EPdiffZ | 0550 55.8 | #-537 | 18 | +EPZ | 0002 58.1 | |
| 12 | -EPZ | 0720 50.0 | #-538 | 18 | +EPPZ | 1356 23.3 | #-550 |
| 12 | -EPZ | 0910 18.7 | | 18 | +EpPZ | 1754 44.4 | #-551 |
| 12 | -EPZ | 0910 36.4 | | 18 | +EPPZ | 1758 6.1 | #-551 |
| 12 | -EPcPZ | 0910 44.0 | #-539 | 18 | +EPZ | 2016 10.1 | #-552 |
| 12 | +EPZ | 1430 58.0 | | 18 | -EXZ | 2016 36.9 | #-552 |
| 12 | +EPdiffZ | 1706 17.7 | #-540 | 19 | +IPZ | 1225 25.7 | #-553 |
| 12 | +EXZ | 1710 21.0 | #-540 | 19 | +IPcPZ | 1225 26.6 | #-553 |
| 12 | +EPZ | 1842 43.7 | | 19 | -IpPZ | 1316 10.0 | #-554 |
| 13 | -EPZ | 0443 18.5 | | 19 | -IPPZ | 1318 52.5 | #-554 |
| 13 | -EPZ | 0443 23.1 | | 19 | -EPZ | 1530 24.0 | |
| 13 | -EPZ | 0454 24.5 | | 19 | +EPZ | 1542 48.4 | #-555 |
| 13 | +EPZ | 0618 30.4 | #-541 | 19 | -EsPZ | 1542 57.3 | #-555 |
| 13 | +EPZ | 0618 33.2 | #-541 | 19 | -EPZ | 1800 27.8 | #-556 |
| 13 | -EPPZ | 0621 28.5 | #-541 | 19 | +IpPZ | 1800 31.7 | #-556 |
| 13 | +EPKpbcZ | 0855 43.8 | #-542 | 19 | -EPZ | 1804 16.0 | #-557 |
| 13 | -EpPKiKPZ | 0855 53.5 | #-542 | 19 | +EsPZ | 1804 21.9 | #-557 |
| 13 | -EPZ | 0858 52.0 | | 19 | +EPZ | 1805 37.6 | |
| 13 | +EPZ | 1405 34.9 | #-543 | 19 | -EPPZ | 1806 55.0 | #-557 |
| 14 | +EPZ | 0342 19.8 | #-544 | 19 | -EPZ | 1813 24.1 | |
| 14 | -EPZ | 1850 14.7 | #-545 | 19 | -EPZ | 1814 46.7 | |
| 14 | -EpPZ | 1850 22.2 | #-545 | 19 | -EPZ | 1912 6.1 | |
| 14 | -EPcPZ | 1851 40.9 | #-545 | 19 | +EPZ | 2003 11.3 | #-558 |
| 14 | +EPZ | 1851 3.3 | | 19 | -EPZ | 2003 43.0 | |
| 14 | -EPZ | 1906 20.7 | | 19 | -EPZ | 2045 45.9 | |
| 14 | +EPZ | 2033 22.0 | | 19 | -EPZ | 2045 57.0 | #-559 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|----------|---------------|---------|
| 19 | +EPZ | 2048 55.7 | #-560 | 24 | +EPZ | 1344 22.1 | #-574 |
| 19 | +IXZ | 2049 0.3 | #-560 | 24 | -EpPZ | 1345 5.1 | #-574 |
| 19 | -IpPZ | 2049 6.2 | #-560 | 24 | +EpPZ | 1408 41.5 | #-575 |
| 19 | -EsPZ | 2049 9.5 | #-560 | 24 | +EsPZ | 1408 47.0 | #-575 |
| 19 | ESH | 2059 4.2 | | 24 | +EPZ | 1536 52.5 | |
| 19 | -EPZ | 2119 42.1 | | 24 | -EPZ | 1640 50.0 | #-576 |
| 20 | -EPZ | 0333 19.3 | #-561 | 24 | -EPZ | 1720 48.3 | |
| 20 | +EPZ | 0823 45.3 | #-562 | 24 | +EPZ | 1721 3.6 | |
| 20 | -EPcPZ | 0823 47.0 | #-562 | 24 | -EPZ | 2017 3.0 | #-577 |
| 20 | -EsPZ | 0823 52.4 | #-562 | 24 | +EpPZ | 2017 10.0 | #-577 |
| 20 | +EPZ | 0948 57.2 | | 24 | +EPcPZ | 2017 15.7 | #-577 |
| 20 | -EPZ | 1045 23.8 | | 25 | -EPZ | 1613 44.5 | |
| 20 | +EPZ | 1052 10.7 | #-563 | 25 | +EPZ | 1838 28.0 | #-578 |
| 20 | +EPcPZ | 1052 13.2 | #-563 | 26 | -EPZ | 0439 39.5 | |
| 20 | +EPZ | 1212 32.1 | | 26 | +EpPZ | 0439 50.1 | #-579 |
| 20 | -EPZ | 1518 26.5 | #-564 | 27 | (NIL) | | |
| 20 | +EpPZ | 1656 23.6 | #-565 | 28 | (NIL) | | |
| 20 | -EPPZ | 1811 34.0 | #-566 | 29 | -IPKPdfZ | 1718 2.3 | #-580 |
| 20 | -IPZ | 2344 52.0 | | 30 | +EPZ | 0357 21.0 | #-581 |
| 21 | -EPZ | 0025 49.4 | | 30 | +EPcPZ | 0400 32.6 | #-581 |
| 21 | -EPZ | 0031 2.8 | | 30 | -EPZ | 0830 11.0 | #-582 |
| 21 | +EPKPdfZ | 0204 3.0 | #-567 | 30 | +IPcPZ | 0830 12.8 | #-582 |
| 21 | -EPKPabZ | 0204 30.4 | #-567 | 30 | ESH | 0839 27.5 | #-582 |
| 21 | -EpPLPdfZ | 0253 45.6 | #-568 | 30 | +EPZ | 1125 21.4 | #-583 |
| 21 | -EPKPdfZ | 0452 35.0 | #-569 | 30 | +EpPZ | 1125 28.0 | #-583 |
| 21 | +EPKPdfZ | 1134 7.2 | #-570 | 30 | -EPZ | 1412 0.5 | #-584 |
| 21 | +EPZ | 1435 41.5 | #-571 | 30 | -EPZ | 1928 37.7 | #-585 |
| 21 | -EPZ | 1547 43.0 | | 30 | -IpPZ | 1928 41.6 | #-585 |
| 21 | -EPZ | 1915 3.0 | #-572 | 30 | -EPZ | 1937 36.7 | #-586 |
| 21 | +EpPZ | 1916 56.1 | #-572 | 30 | +EPZ | 1946 29.0 | #-587 |
| 21 | -EPKPabZ | 2110 31.3 | #-573 | 30 | +EpPZ | 1946 34.6 | #-587 |
| 21 | -EPPZ | 2114 13.5 | #-573 | 30 | -EPZ | 2020 49.6 | #-588 |
| 22 | NONE | | | 30 | +EPPZ | 2023 29.0 | #-588 |
| 23 | NONE | | | 30 | -EPZ | 2023 41.6 | #-589 |
| 24 | +EPZ | 0238 44.0 | | 30 | +EPZ | 2037 19.0 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|--------|---------------|---------|------|--------|---------------|---------|
| 30 | +EPZ | 2100 10.7 | #-590 | 4 | +EPZ | 0612 32.5 | |
| 30 | -EPZ | 2152 19.5 | | 4 | +EPZ | 0612 39.6 | |
| 30 | -EPZ | 2136 43.0 | | 4 | +EPZ | 1131 27.0 | #-603 |
| 30 | +EPZ | 2144 18.2 | | 4 | -EPcPZ | 1131 30.0 | #-603 |
| 30 | +EPZ | 2211 11.0 | #-591 | 4 | -EPZ | 1138 11.0 | #-604 |
| 30 | -EsPZ | 2211 22.5 | #-591 | 4 | -IsPZ | 1138 18.2 | #-604 |
| 30 | +EPZ | 2307 16.7 | #-592 | 4 | -EPZ | 1211 2.1 | #-605 |
| 30 | +EsPZ | 2307 26.0 | #-592 | 4 | -EpPZ | 1211 8.9 | #-605 |
| May .1 | -EPZ | 0147 10.5 | #-593 | 4 | -EPZ | 1311 39.8 | |
| 1 | +EpPZ | 0147 18.5 | #-593 | 4 | +EPZ | 1315 13.1 | |
| 1 | +EPZ | 0301 6.4 | #-594 | 4 | -EPZ | 1319 3.0 | |
| 1 | +EsPZ | 0301 11.1 | #-594 | 4 | -IPZ | 1434 25.2 | #-606 |
| 1 | +EPZ | 1916 52.2 | | 4 | -EPZ | 1631 0.0 | #-607 |
| 1 | +EPZ | 1916 55.5 | | 4 | -EPZ | 1735 40.5 | #-608 |
| 1 | -EPZ | 2033 46.0 | | 4 | -EPZ | 2313 15.3 | #-609 |
| 1 | +EPZ | 2036 22.4 | | 4 | +EpPZ | 2313 21.8 | #-609 |
| 1 | -EPZ | 2121 12.0 | | 5 | -EPPZ | 0305 26.0 | #-610 |
| 1 | +EPZ | 2152 51.0 | #-595 | 5 | +IPZ | 0432 29.0 | #-611 |
| 2 | -EPZ | 0653 8.6 | | 5 | -EPcPZ | 0432 34.3 | #-611 |
| 2 | +EPZ | 2117 28.5 | #-596 | 5 | +IPZ | 0629 6.0 | #-612 |
| 2 | -EpPZ | 2117 35.6 | #-596 | 5 | +EPZ | 0815 40.0 | #-613 |
| 3 | -IPZ | 1539 22.5 | | 5 | +EPZ | 0902 3.2 | |
| 3 | -EPZ | 1713 32.1 | | 5 | -EPZ | 1636 40.5 | #-614 |
| 3 | -EPZ | 1809 10.5 | #-597 | 5 | +EPZ | 1823 37.5 | |
| 3 | -EpPZ | 1809 16.6 | #-597 | 5 | -EPZ | 2040 39.8 | |
| 4 | -EPZ | 0008 41.8 | #-598 | 5 | +EPZ | 2106 4.6 | |
| 4 | -IPcPZ | 0008 43.0 | #-598 | 5 | -EPZ | 2337 11.5 | |
| 4 | +EPZ | 0150 35.0 | | 6 | +IPZ | 0240 56.0 | #-615 |
| 4 | -EPZ | 0439 22.0 | #-599 | 6 | -EPZ | 0419 9.5 | |
| 4 | +EPZ | 0508 23.1 | #-600 | 6 | +EPZ | 1833 47.4 | |
| 4 | -EsPZ | 0508 42.0 | #-600 | 6 | +EPZ | 1834 1.5 | #-616 |
| 4 | +EPcPZ | 0514 27.3 | #-601 | 6 | -EPZ | 2232 12.0 | |
| 4 | -EpPZ | 0514 35.0 | #-601 | 7 | -EPZ | 0246 31.4 | #-617 |
| 4 | -EPZ | 0606 22.0 | #-602 | 7 | +EPcPZ | 0246 32.5 | #-617 |
| 4 | -EPcPZ | 0606 24.5 | #-602 | 7 | -EPZ | 1209 9.0 | #-618 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 7 | -EPcPZ | 1209 11.5 | #-618 | 13 | -EPZ | 0636 58.4 | |
| 7 | +EPZ | 1243 19.5 | #-619 | 13 | +EPZ | 0642 4.6 | |
| 7 | -EPZ | 1424 59.6 | #-620 | 13 | +EPZ | 0828 47.0 | #-630 |
| 7 | +EsPZ | 1425 3.6 | #-620 | 13 | -EPZ | 1200 13.0 | |
| 7 | -EPZ | 1652 30.5 | #-621 | 13 | -EPZ | 1536 31.6 | |
| 7 | -EpPZ | 1652 34.0 | #-621 | 13 | -EPZ | 1600 4.0 | #-631 |
| 8 | +EPZ | 0156 4.5 | #-622 | 13 | +EpPZ | 1600 26.8 | #-631 |
| 8 | +EPcPZ | 0156 6.0 | #-622 | 13 | -EPZ | 2008 7.8 | #-632 |
| 8 | +EPZ | 0316 1.0 | | 13 | -EPcPZ | 2008 9.2 | #-632 |
| 9 | NIL | | | 13 | +EpPZ | 2008 30.0 | #-632 |
| 10 | -IPZ | 0059 57.0 | | 13 | -EPZ | 2359 44.6 | #-633 |
| 10 | -EPZ | 0129 32.6 | | 14 | -EScPZ | 0006 5.8 | #-633 |
| 10 | +IsPZ | 0229 24.5 | #-623 | 14 | +EPZ | 0425 21.8 | #-634 |
| 10 | +EPZ | 0334 33.5 | | 14 | -EPcPZ | 0507 0.2 | #-635 |
| 10 | -IPZ | 0334 35.1 | | 14 | +EPZ | 0755 41.6 | #-636 |
| 10 | -IPZ | 1854 25.0 | #-624 | 14 | -EpPZ | 0755 52.5 | #-636 |
| 10 | +EPcPZ | 1854 29.0 | #-624 | 14 | +IPZ | 1518 5.6 | #-637 |
| 11 | -EPdiffZ | 1736 35.5 | #-625 | 14 | +EPZ | 1716 40.4 | #-638 |
| 12 | +EPZ | 0621 18.9 | | 14 | -EpPZ | 1717 7.0 | #-638 |
| 12 | -EPZ | 0828 43.0 | #-626 | 14 | +EPZ | 1743 12.8 | |
| 12 | -lpPZ | 0828 49.0 | #-626 | 15 | +EPZ | 0902 14.2 | #-639 |
| 12 | -EPZ | 1513 46.8 | #-627 | 15 | +EpPZ | 0902 27.6 | #-639 |
| 12 | +EPZ | 1810 8.0 | | 15 | +EPZ | 1315 18.2 | |
| 12 | +EPZ | 1820 30.4 | | 15 | -EPZ | 1404 51.0 | #-640 |
| 12 | +EPZ | 2028 23.9 | #-628 | 15 | +EPZ | 1716 28.0 | #-641 |
| 13 | -IPZ | 0324 5.2 | #-629 | 15 | +EPcPZ | 1716 29.4 | #-641 |
| 13 | -IPcPZ | 0324 9.8 | #-629 | 15 | +IPZ | 1730 24.4 | |
| 13 | +EPZ | 0342 23.6 | | 15 | +lpPZ | 1750 24.8 | #-642 |
| 13 | +EPZ | 0342 35.8 | | 15 | -EXZ | 2143 48.0 | #-643 |
| 13 | +EPZ | 0409 8.4 | | 15 | +EPZ | 2348 29.6 | #-644 |
| 13 | +EPZ | 0415 42.2 | | 16 | +EPZ | 0032 43.0 | #-645 |
| 13 | -EPZ | 0425 53.0 | | 16 | -EPZ | 0106 29.8 | #-646 |
| 13 | -EPZ | 0514 13.4 | | 16 | -EPcPZ | 0106 31.4 | #-646 |
| 13 | +EPZ | 0514 35.8 | | 16 | +EPZ | 0323 7.4 | |
| 13 | -EPZ | 0619 53.0 | | 16 | +EPZ | 0807 40.8 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|----------|---------------|---------|
| 16 | -IPZ | 1050 49.8 | #-647 | 18 | +EpPZ | 0255 19.0 | #-661 |
| 16 | -EPZ | 1429 10.0 | #-648 | 18 | -EXZ | 0417 19.8 | #-662 |
| 16 | +EPcPZ | 1429 11.8 | #-648 | 18 | -EPZ | 0554 1.2 | |
| 16 | +IPZ | 1540 29.6 | #-649 | 18 | -EPZ | 0554 7.4 | |
| 16 | -IpPZ | 1540 34.0 | #-649 | 18 | +EPZ | 0708 27.0 | #-663 |
| 16 | +EPZ | 1559 33.0 | | 18 | +EXZ | 0845 15.0 | #-664 |
| 16 | +EPZ | 1607 27.0 | | 18 | +EPcPZ | 0845 33.4 | #-664 |
| 16 | +EPZ | 1622 38.4 | #-650 | 18 | +EPZ | 1039 9.8 | |
| 16 | -EsPZ | 1622 40.2 | #-650 | 18 | +EPZ | 1508 32.0 | |
| 16 | +EPZ | 1631 46.6 | #-651 | 18 | -EPZ | 1837 13.9 | #-665 |
| 16 | +EpPZ | 1631 52.2 | #-651 | 18 | +EpPZ | 1837 16.3 | #-665 |
| 16 | +EPZ | 1712 22.8 | | 18 | -EPZ | 2010 26.0 | |
| 16 | +EPZ | 2108 32.0 | #-652 | 18 | -EPZ | 2010 29.8 | |
| 16 | -EpPZ | 2108 37.8 | #-652 | 18 | +EPKPdfZ | 2324 27.0 | #-666 |
| 16 | +EPZ | 2124 24.6 | #-653 | 18 | +IPKPbcZ | 2324 33.0 | #-666 |
| 16 | +EpPZ | 2124 34.0 | #-653 | 19 | -EPZ | 0126 24.0 | #-667 |
| 16 | +EPZ | 2129 3.8 | | 19 | -EPcPZ | 0126 28.8 | #-667 |
| 16 | +EPZ | 2217 13.2 | | 19 | -EPcPZ | 0153 52.2 | #-668 |
| 16 | +EPZ | 2217 26.8 | | 19 | -EPZ | 0617 8.0 | |
| 17 | +EPZ | 0319 1.4 | #-654 | 19 | -EPZ | 1457 11.4 | #-669 |
| 17 | +EPcPZ | 0319 4.6 | #-654 | 19 | -IPcPZ | 1457 12.6 | #-669 |
| 17 | +EPZ | 0421 31.8 | | 19 | ESH | 1507 36.6 | |
| 17 | -EPcPZ | 0536 7.0 | #-655 | 19 | -EPZ | 1807 16.6 | #-670 |
| 17 | +EpPZ | 0822 54.2 | #-656 | 19 | -EPZ | 2230 56.6 | #-671 |
| 17 | -EPZ | 0933 40.4 | | 19 | +EsPZ | 2231 6.8 | #-671 |
| 17 | +EPZ | 0933 48.2 | | 19 | +EPZ | 2248 46.0 | |
| 17 | +EPZ | 1641 41.8 | #-657 | 19 | +EPZ | 2309 39.0 | |
| 17 | -EPZ | 2210 34.4 | #-658 | 20 | +EPZ | 0746 26.2 | #-672 |
| 17 | -EPcPZ | 2210 36.0 | #-658 | 20 | +EPcPZ | 0746 29.8 | #-672 |
| 17 | -EPZ | 2351 37.6 | #-659 | 20 | +EpPZ | 0746 38.9 | #-672 |
| 17 | +EsPZ | 2351 47.8 | #-659 | 20 | -EPPZ | 0749 53.9 | #-672 |
| 18 | +EPZ | 0113 46.6 | #-660 | 20 | +EsPZ | 1403 23.2 | #-673 |
| 18 | -EPcPZ | 0113 55.0 | #-660 | 20 | +IPZ | 1704 7.1 | #-674 |
| 18 | -EPZ | 0253 28.6 | #-661 | 20 | +EPcPZ | 1704 16.0 | #-674 |
| 18 | +EPcPZ | 0253 30.2 | #-661 | 20 | +EPZ | 1854 22.0 | #-675 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|--------|---------------|---------|
| 20 | -EPZ | 1935 11.0 | #-676 | 24 | +EPcPZ | 1024 11.8 | #-688 |
| 20 | -EPZ | 1935 44.4 | | 24 | -EpPZ | 1024 20.0 | #-688 |
| 20 | +EPZ | 2334 13.2 | | 24 | -IPPZ | 1027 48.0 | #-688 |
| 21 | -EPZ | 0219 50.6 | | 24 | +EPZ | 1105 42.4 | |
| 21 | +EPZ | 0225 23.2 | | 24 | +EPZ | 1105 47.0 | |
| 21 | -EPZ | 0225 48.9 | #-677 | 24 | -EsPZ | 1231 49.6 | #-689 |
| 21 | -EPZ | 0402 7.6 | | 24 | +EPZ | 1319 18.0 | |
| 21 | -EPZ | 0522 0.5 | #-678 | 24 | +EPZ | 1319 48.0 | |
| 21 | -EsPZ | 0522 12.9 | #-678 | 24 | +EPZ | 1604 20.0 | |
| 21 | +EPcPZ | 0522 37.8 | #-678 | 24 | +EPZ | 1700 10.0 | #-690 |
| 21 | +IPZ | 0641 30.4 | #-679 | 24 | -EpPZ | 1700 18.0 | #-690 |
| 21 | +iPcPZ | 0641 37.8 | #-679 | 24 | +EPcPZ | 2057 8.0 | #-691 |
| 21 | +EPPZ | 0644 13.0 | #-679 | 24 | -EPZ | 2145 16.0 | #-692 |
| 21 | +EXZ | 2203 51.1 | #-680 | 24 | +IPZ | 2356 18.5 | #-693 |
| 22 | +EPZ | 2106 34.6 | #-681 | 24 | -EPcPZ | 2356 24.0 | #-693 |
| 22 | -EPcPZ | 2106 37.0 | #-681 | 25 | -EPZ | 0202 35.8 | #-694 |
| 23 | NIL | | | 25 | +EpPZ | 0202 40.2 | #-694 |
| 24 | -EPZ | 0044 48.6 | | 25 | +EPZ | 0702 4.6 | |
| 24 | +EPZ | 0045 3.6 | | 25 | +EPZ | 1447 28.6 | #-695 |
| 24 | +EPZ | 0104 34.0 | | 25 | +EPcPZ | 1447 30.0 | #-695 |
| 24 | +EPZ | 0406 32.0 | #-682 | 25 | -EPZ | 1451 11.0 | #-696 |
| 24 | +EPZ | 0437 55.2 | | 25 | +EPZ | 1651 0.8 | #-697 |
| 24 | +EPPZ | 0442 57.2 | #-683 | 25 | -EPcPZ | 1651 2.8 | #-697 |
| 24 | +EPcPZ | 0635 31.0 | #-684 | 25 | +EpPZ | 1651 16.8 | #-697 |
| 24 | -EPZ | 0700 22.0 | #-685 | 25 | +EPPZ | 1654 40.0 | #-697 |
| 24 | -EPcPZ | 0700 33.2 | #-685 | 25 | +EPZ | 1751 37.0 | #-698 |
| 24 | +EPZ | 0809 18.4 | | 25 | -EPZ | 1800 43.6 | |
| 24 | -EPZ | 0810 6.4 | | 25 | +EPZ | 1916 15.0 | |
| 24 | +EPZ | 0922 51.0 | #-686 | 25 | +EPZ | 1916 43.4 | |
| 24 | -EPcPZ | 0922 55.0 | #-686 | 25 | -IPZ | 2100 12.4 | #-699 |
| 24 | -EsPZ | 0923 5.8 | #-686 | 25 | -IpPZ | 2100 21.0 | #-699 |
| 24 | +EPZ | 0957 57.8 | #-687 | 25 | +EPPZ | 2103 15.0 | #-699 |
| 24 | -EPcPZ | 0958 0.0 | #-687 | 26 | -EPZ | 0447 3.6 | #-700 |
| 24 | +EpPZ | 0958 10.6 | #-687 | 26 | +EsPZ | 0448 47.6 | #-700 |
| 24 | +EPZ | 1024 9.0 | #-688 | 26 | -EPPZ | 0450 35.4 | #-700 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|-----------|---------------|---------|
| 26 | +EPZ | 0714 2.2 | #-701 | 28 | +EPcPZ | 0802 50.8 | #-711 |
| 26 | +EpPZ | 0715 14.0 | #-701 | 28 | +EpPdiffZ | 0914 26.2 | #-712 |
| 26 | +EsPZ | 0715 43.6 | #-701 | 28 | -EPPZ | 0918 37.5 | #-712 |
| 26 | -EPZ | 1142 54.8 | | 28 | +EXZ | 1343 0.0 | #-713 |
| 26 | +EPZ | 2247 46.0 | #-702 | 28 | +EXZ | 1346 12.0 | #-713 |
| 26 | -EPcPZ | 2247 50.4 | #-702 | 28 | +EPZ | 1516 18.0 | #-714 |
| 27 | +IPZ | 0212 58.6 | | 28 | +EpPZ | 1516 26.4 | #-714 |
| 27 | +EPZ | 0321 49.0 | #-703 | 28 | -EPZ | 2242 28.0 | #-715 |
| 27 | +EPcPZ | 0322 2.0 | #-703 | 28 | -EPcPZ | 2242 35.0 | #-715 |
| 27 | -EPZ | 0509 26.0 | | 28 | -IPZ | 2259 33.8 | |
| 27 | -EPZ | 0509 32.6 | | 28 | -IPcPZ | 2259 38.6 | #-716 |
| 27 | -IPZ | 0610 24.0 | #-704 | 29 | -EPZ | 0512 4.0 | #-717 |
| 27 | -EPZ | 0610 28.4 | #-704 | 29 | -IPZ | 0512 10.0 | |
| 27 | -EPZ | 0645 45.0 | | 29 | -EsPZ | 0512 22.0 | #-717 |
| 27 | +EPZ | 0646 7.0 | | 29 | -EPZ | 0526 29.6 | |
| 27 | -EPZ | 0718 16.0 | #-705 | 29 | +EPZ | 1209 35.0 | #-718 |
| 27 | +EpPZ | 0719 11.0 | #-705 | 29 | -EPZ | 1225 15.8 | #-719 |
| 27 | +EPZ | 0747 25.6 | #-706 | 29 | +EpPZ | 1225 25.0 | #-719 |
| 27 | +EPcPZ | 0747 29.5 | #-706 | 29 | +EsPZ | 1225 27.6 | #-719 |
| 27 | +EPZ | 1005 24.8 | | 29 | +EPZ | 1417 58.0 | #-720 |
| 27 | +EPZ | 1053 7.4 | | 29 | -EpPZ | 1418 0.6 | #-720 |
| 27 | +EPZ | 1114 24.1 | | 29 | +EsPZ | 1418 6.8 | #-720 |
| 27 | +EPZ | 1408 18.2 | | 29 | +EPZ | 1541 38.2 | #-721 |
| 27 | +EPZ | 2150 11.8 | #-707 | 29 | -EPZ | 2350 2.4 | |
| 27 | +EpPZ | 2150 20.2 | #-707 | 30 | -EPZ | 0215 11.6 | #-722 |
| 28 | +EPZ | 0009 29.5 | | 30 | -IPZ | 1035 7.6 | #-723 |
| 28 | -EPZ | 0325 14.2 | #-708 | 30 | +EPcPZ | 1035 14.2 | #-723 |
| 28 | -EPcPZ | 0325 16.8 | #-708 | 30 | -IPZ | 1431 25.0 | #-724 |
| 28 | +EPZ | 0349 1.4 | #-709 | 30 | +EPcPZ | 1431 29.6 | #-724 |
| 28 | +EPcPZ | 0349 3.3 | #-709 | 30 | +EPZ | 1434 33.5 | |
| 28 | -EsPZ | 0349 20.2 | #-709 | 30 | +EPZ | 1834 15.2 | |
| 28 | -EPZ | 0524 15.6 | | 31 | +EPcPZ | 1152 38.4 | #-725 |
| 28 | +EPZ | 0619 12.4 | #-710 | 31 | -EPZ | 1311 16.7 | #-726 |
| 28 | +EPZ | 0736 40.4 | | 31 | +EPcPZ | 1311 29.4 | #-726 |
| 28 | -EPZ | 0802 46.4 | #-711 | 31 | +EpPZ | 1312 14.0 | #-726 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|--------|---------------|---------|------|----------|---------------|---------|
| Jun. 1 | -EPZ | 0424 21.0 | #-727 | 3 | -EPZ | 2023 20.6 | |
| 1 | +EXZ | 0559 38.4 | #-728 | 4 | -EPZ | 0249 26.6 | #-745 |
| 1 | +EPZ | 0603 9.4 | #-728 | 4 | -EPZ | 0249 49.5 | #-745 |
| 1 | +EPZ | 1143 14.8 | | 4 | +EPZ | 0251 15.0 | |
| 1 | -EPZ | 1143 43.2 | | 4 | -EPZ | 0405 33.6 | |
| 1 | -EPZ | 1329 33.4 | #-729 | 4 | -EPZ | 0851 30.0 | #-746 |
| 1 | +EPcPZ | 1329 38.4 | #-729 | 4 | +EPcPZ | 0851 37.5 | #-746 |
| 1 | +EPcPZ | 1416 18.6 | #-730 | 4 | +EPZ | 0905 25.3 | |
| 1 | +EPZ | 1416 29.5 | #-730 | 4 | +EPZ | 1253 54.5 | #-747 |
| 1 | -EPZ | 1624 32.8 | | 4 | -EPZ | 1337 23.0 | |
| 1 | +EPZ | 1624 38.0 | | 5 | +EPdiffZ | 0053 25.6 | #-748 |
| 1 | -EXZ | 1907 24.0 | #-731 | 5 | +EPZ | 0639 40.5 | #-749 |
| 1 | +EPZ | 2244 13.0 | #-732 | 5 | -EPZ | 0646 14.6 | |
| 1 | +EPZ | 2244 25.8 | #-732 | 5 | +EPZ | 0647 2.8 | #-750 |
| 2 | -EPZ | 0141 14.0 | #-733 | 5 | -EPZ | 2323 10.5 | |
| 2 | -EPZ | 0339 20.6 | #-734 | 6 | -EPZ | 0304 47.2 | |
| 2 | -EPcPZ | 0339 22.0 | #-734 | 6 | -EXZ | 0449 55.8 | #-751 |
| 2 | +EPcPZ | 0712 28.4 | #-735 | 6 | -EPZ | 1011 38.5 | |
| 2 | +EPZ | 0743 15.0 | #-736 | 6 | -EPZ | 1738 34.6 | |
| 2 | +IPcPZ | 0743 16.8 | #-736 | 6 | +EPZ | 2125 51.2 | #-752 |
| 2 | +EPZ | 1125 39.3 | #-737 | 6 | -EPcPZ | 2127 55.0 | #-752 |
| 3 | -EPZ | 0729 7.0 | #-738 | 7 | +EPZ | 0238 45.6 | #-753 |
| 3 | -EPZ | 0838 16.0 | #-739 | 7 | +EPZ | 0940 51.0 | #-754 |
| 3 | -EPcPZ | 0838 18.8 | #-739 | 7 | -EPZ | 1059 15.6 | #-755 |
| 3 | -EPZ | 1208 55.0 | | 7 | +EPcPZ | 1059 20.0 | #-755 |
| 3 | +EPZ | 1209 5.0 | | 7 | +EPZ | 1141 23.2 | #-756 |
| 3 | +EPZ | 1314 10.0 | #-740 | 7 | +EPZ | 1835 48.0 | #-757 |
| 3 | +EPcPZ | 1339 37.2 | #-741 | 7 | -EPZ | 1837 51.2 | #-757 |
| 3 | +EPZ | 1540 35.8 | #-742 | 7 | -EPZ | 2221 48.0 | #-758 |
| 3 | +EPZ | 1540 45.3 | #-742 | 7 | +EPcPZ | 2221 52.0 | #-758 |
| 3 | -EPZ | 1922 34.0 | #-743 | 8 | -EPZ | 0626 4.8 | #-759 |
| 3 | -EPcPZ | 1922 36.4 | #-743 | 8 | +EPZ | 0741 44.8 | |
| 3 | -EPZ | 1927 28.6 | #-744 | 8 | -EPZ | 0741 50.0 | |
| 3 | +EPZ | 1927 50.4 | #-744 | 8 | -EPZ | 1302 50.0 | |
| 3 | -EPcPZ | 1930 38.8 | #-744 | 8 | -EPZ | 1303 4.0 | |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|----------|---------------|---------|
| 8 | +EPZ | 1511 20.0 | #-760 | 14 | -EpPLPdZ | 0438 36.0 | #-773 |
| 8 | -EPcPZ | 1511 21.7 | #-760 | 14 | -EPZ | 0506 28.8 | |
| 8 | +EPZ | 1611 5.0 | #-761 | 14 | +EPZ | 0726 27.5 | |
| 8 | +EPZ | 1620 18.3 | | 14 | -EPZ | 0736 16.6 | #-774 |
| 8 | +EPZ | 2321 52.0 | | 14 | +EPcPZ | 0736 24.6 | #-774 |
| 9 | +IPZ | 0610 23.8 | | 14 | -EPZ | 1140 1.2 | |
| 9 | -IPZ | 0610 25.8 | | 14 | +EPZ | 1420 44.0 | #-775 |
| 9 | -EPZ | 0942 28.8 | #-762 | 14 | +EPZ | 2044 54.8 | |
| 9 | +EPcPZ | 0942 32.1 | #-762 | 14 | -EPZ | 2045 4.9 | |
| 9 | +EPZ | 1052 34.5 | #-763 | 15 | -EPZ | 0441 0.9 | #-776 |
| 9 | +EPZ | 1614 49.3 | #-764 | 15 | -EpPZ | 0441 4.3 | #-776 |
| 10 | +EXZ | 0209 7.0 | #-765 | 15 | +EPZ | 0705 40.2 | |
| 10 | -EPZ | 0408 33.5 | | 15 | +EPZ | 0708 26.5 | |
| 10 | +EPZ | 1144 16.0 | | 15 | -EPZ | 0805 21.0 | |
| 10 | +EPZ | 1144 18.0 | | 15 | +EPZ | 1142 21.0 | |
| 10 | -EPZ | 1328 54.6 | #-766 | 15 | -EPZ | 1315 27.0 | |
| 10 | -EPZ | 1329 2.3 | | 15 | -EPZ | 1823 30.8 | #-777 |
| 10 | +EPZ | 1350 7.0 | #-767 | 15 | +EsPZ | 1938 10.2 | #-778 |
| 10 | +EXZ | 1350 9.0 | #-767 | 15 | +EXZ | 2323 38.6 | #-779 |
| 10 | -EPZ | 1641 53.2 | #-768 | 16 | -EPZ | 0309 5.8 | #-780 |
| 10 | +EPZ | 1644 46.2 | | 16 | -lpPZ | 0309 16.0 | #-780 |
| 10 | +EPZ | 1648 49.8 | | 16 | -EsPZ | 0334 15.8 | #-781 |
| 10 | +EPZ | 1950 50.0 | #-769 | 16 | -EPZ | 0541 34.0 | #-782 |
| 10 | +EPcPZ | 1950 55.0 | #-769 | 16 | +EpPZ | 0541 55.8 | #-782 |
| 10 | +EPZ | 2010 30.2 | #-770 | 16 | +EPZ | 0548 41.8 | #-783 |
| 11 | -EPZ | 0557 33.3 | #-771 | 16 | +EPZ | 1246 40.2 | #-784 |
| 11 | -EPcPZ | 0557 37.0 | #-771 | 16 | +EXZ | 1246 44.0 | #-784 |
| 11 | ESH | 0607 12.8 | | 16 | -EPKPdZ | 1848 10.8 | #-785 |
| 11 | +EPZ | 2020 1.2 | | 16 | +EPPZ | 1851 7.2 | #-785 |
| 11 | -EPZ | 2020 3.0 | | 16 | -EPZ | 2001 28.8 | |
| 12 | -EPZ | 1904 58.5 | | 16 | ESH | 2006 24.2 | |
| 13 | -EPZ | 0346 6.6 | | 17 | -EPZ | 0358 38.0 | #-786 |
| 13 | -EPZ | 1505 52.1 | | 17 | +EPZ | 0439 20.7 | |
| 14 | +EPZ | 0026 54.6 | #-772 | 18 | -EPZ | 0355 32.8 | #-787 |
| 14 | +EpPZ | 0027 9.8 | #-772 | 18 | +EPZ | 1134 11.5 | #-788 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|-----------|---------------|---------|
| 18 | -EpPZ | 1136 20.8 | #-788 | 24 | -IPZ | 2127 56.6 | |
| 18 | +EPcPZ | 1723 7.0 | #-789 | 24 | ESH | 2138 22.1 | |
| 18 | +EPcPZ | 1730 11.5 | #-790 | 24 | +EPZ | 2305 41.5 | |
| 18 | +EPZ | 1844 27.9 | #-791 | 25 | -EPZ | 0426 32.0 | #-806 |
| 18 | -EPcPZ | 1844 48.8 | #-791 | 25 | +EPZ | 0501 2.0 | #-807 |
| 18 | +EPZ | 1857 13.7 | | 25 | +EPZ | 1320 16.3 | |
| 19 | NIL | | | 25 | +EPZ | 1335 42.0 | |
| 20 | +EPZ | 0224 52.0 | #-792 | 25 | +EpPZ | 1521 54.0 | #-808 |
| 20 | +EPdiffZ | 1707 37.8 | #-793 | 25 | -EPZ | 1924 16.5 | |
| 21 | -EPZ | 0251 34.9 | #-794 | 25 | +EPZ | 2251 52.5 | #-809 |
| 21 | +EPZ | 0255 17.0 | | 25 | +EPcPZ | 2251 55.8 | #-809 |
| 21 | +EPcPZ | 0905 51.4 | #-795 | 25 | +EPZ | 2312 8.5 | |
| 21 | +EPZ | 1247 22.0 | #-796 | 26 | -EPZ | 0039 21.0 | |
| 21 | -EpPZ | 1247 28.8 | #-796 | 26 | -EPZ | 0120 48.5 | |
| 21 | +EPZ | 1254 13.0 | #-797 | 26 | -EpPKPdfZ | 0219 12.4 | #-810 |
| 21 | +EPZ | 1506 24.5 | #-798 | 26 | +EPZ | 0710 38.3 | |
| 21 | +EPcPZ | 1506 29.0 | #-798 | 26 | +EPZ | 0952 1.2 | #-811 |
| 22 | +EPZ | 0401 0.2 | #-799 | 26 | +EpPZ | 0952 14.0 | #-811 |
| 22 | -EsPZ | 0401 9.0 | #-799 | 26 | -EPZ | 1013 50.2 | |
| 22 | +EPZ | 0606 17.0 | | 26 | +EPZ | 1733 44.8 | |
| 22 | +EPcPZ | 0606 24.5 | #-800 | 26 | -EPZ | 1813 8.0 | #-812 |
| 22 | +EPZ | 1112 13.0 | | 26 | +EPcPZ | 1813 10.5 | #-812 |
| 22 | -EXZ | 1115 23.5 | #-801 | 26 | -EPZ | 1845 37.8 | |
| 22 | +EPZ | 2349 46.8 | | 26 | -EPZ | 1845 44.4 | |
| 23 | -EPZ | 0547 13.2 | | 27 | -EPZ | 0219 5.8 | |
| 23 | +EpPZ | 0901 50.0 | #-802 | 27 | +EPZ | 0219 18.4 | |
| 23 | +EPZ | 1207 37.0 | | 27 | +EPZ | 0229 30.0 | |
| 23 | -EPKPdfZ | 1238 45.8 | #-803 | 27 | -IPZ | 0312 0.8 | |
| 23 | -EpPKPdfZ | 1238 48.6 | #-803 | 27 | ESH | 0320 30.2 | |
| 23 | -IPZ | 2107 36.3 | | 27 | +IPZ | 1136 13.1 | #-813 |
| 23 | -IPZ | 2107 37.8 | | 27 | -IsPZ | 1136 57.0 | #-813 |
| 23 | -EPZ | 2203 15.8 | #-804 | 27 | ESH | 1145 50.0 | #-813 |
| 23 | +EXZ | 2255 7.9 | #-805 | 27 | +EXZ | 1416 40.6 | #-814 |
| 24 | +EPZ | 0015 23.8 | | 27 | +EPZ | 1514 57.0 | #-815 |
| 24 | -EPZ | 2127 45.2 | | 27 | -EPcPZ | 1515 1.6 | #-815 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|-----------|---------------|---------|------|----------|---------------|---------|
| 27 | +EPZ | 1605 18.6 | #-816 | 2 | +EPZ | 1119 16.2 | |
| 27 | +IPcPZ | 1605 20.5 | #-816 | 2 | -EScPZ | 1227 29.4 | #-834 |
| 27 | +EPZ | 1701 25.8 | | 2 | +EPKPbcZ | 1717 54.6 | #-835 |
| 27 | -EPZ | 1819 54.7 | #-817 | 2 | +EPKPbcZ | 1740 18.4 | #-836 |
| 27 | -EpPZ | 1820 58.1 | #-817 | 2 | +EPZ | 1806 18.2 | |
| 27 | -EPZ | 1924 24.0 | #-818 | 2 | -EPZ | 1806 26.0 | |
| 27 | -EXZ | 1924 30.2 | #-818 | 3 | +EPZ | 0018 8.8 | |
| 28 | -EPZ | 0249 38.2 | #-819 | 3 | +EPZ | 0435 17.2 | #-837 |
| 28 | +EPZ | 2115 38.4 | #-820 | 3 | +EPZ | 0752 45.6 | #-838 |
| 28 | -EpPZ | 2115 45.6 | #-820 | 3 | -EPZ | 1352 22.6 | #-839 |
| 29 | -EpPZ | 0313 14.0 | #-821 | 3 | +EPcPZ | 1352 24.8 | #-839 |
| 29 | +EPZ | 0821 53.6 | #-822 | 3 | +EpPZ | 1353 12.7 | #-839 |
| 29 | -EsPZ | 1655 27.7 | #-823 | 3 | ESH | 1402 42.0 | #-839 |
| 29 | +EPZ | 2113 48.0 | | 3 | +EPZ | 1520 14.2 | #-840 |
| 29 | -EPZ | 2113 53.6 | | 3 | +IPZ | 1618 6.2 | #-841 |
| 30 | +EPZ | 0116 6.0 | | 3 | -EPZ | 1645 58.5 | #-842 |
| 30 | -EPZ | 0116 8.8 | | 4 | -EPZ | 0913 16.0 | #-843 |
| 30 | +EPZ | 0116 14.2 | | 4 | -EPcPZ | 0913 17.3 | #-843 |
| 30 | -EPZ | 0244 55.0 | #-824 | 4 | +EPZ | 1404 1.0 | #-844 |
| 30 | -EPZ | 0301 43.5 | #-825 | 4 | -EpPZ | 1404 38.8 | #-844 |
| 30 | -EPcPZ | 0301 45.0 | #-825 | 4 | +EPZ | 1537 16.8 | |
| 30 | -EPZ | 0820 45.5 | #-826 | 4 | +EPZ | 2358 49.0 | |
| 30 | -EPcPZ | 0820 47.0 | #-826 | 5 | +EPcPZ | 0857 0.6 | #-845 |
| 30 | -EPZ | 2056 16.8 | | 5 | -EPZ | 1032 17.9 | #-846 |
| Jul. 1 | -EPZ | 0259 23.0 | #-827 | 5 | -EPZ | 1425 19.0 | #-847 |
| 1 | +EpPZ | 0259 31.0 | #-827 | 6 | +EPcPZ | 0117 15.4 | #-848 |
| 1 | +EPKPbcZ | 1954 33.3 | #-828 | 6 | +EPZ | 0127 31.8 | #-849 |
| 1 | -EPZ | 2018 16.0 | #-829 | 6 | -EPcPZ | 0127 36.6 | #-849 |
| 1 | -EPZ | 2328 2.7 | #-830 | 6 | +EPZ | 0729 53.0 | #-850 |
| 1 | +EpPZ | 2328 18.4 | #-830 | 6 | -EPcPZ | 0729 54.8 | #-850 |
| 2 | -EPcPZ | 0310 18.8 | #-831 | 6 | -EPZ | 1524 36.2 | #-851 |
| 2 | +EPZ | 0406 17.9 | #-832 | 6 | -EpPZ | 1524 55.8 | #-851 |
| 2 | -EpPKIKPZ | 0413 47.2 | #-832 | 7 | -EPZ | 0206 13.8 | |
| 2 | +EpPZ | 0729 21.8 | #-833 | 7 | -EPZ | 0739 18.0 | #-852 |
| 2 | -EPZ | 0739 40.0 | | 7 | +EPZ | 1019 16.6 | #-853 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|---------|---------------|---------|
| 7 | -EpPZ | 1019 25.6 | #-853 | 11 | -EPZ | 0110 30.6 | #-871 |
| 7 | +EPZ | 2016 55.5 | #-854 | 11 | +EXZ | 0424 14.4 | #-872 |
| 7 | -EPcPZ | 2017 5.4 | #-854 | 11 | +EPZ | 0516 52.8 | #-873 |
| 7 | -EPZ | 2125 40.1 | #-855 | 11 | -EPcPZ | 0516 55.0 | #-873 |
| 7 | -EPcPZ | 2125 45.0 | #-855 | 11 | +EPcPZ | 1607 15.0 | #-874 |
| 8 | +EPZ | 0138 55.6 | #-856 | 11 | +EpPZ | 1607 19.0 | #-874 |
| 8 | -EPZ | 0753 41.0 | #-857 | 11 | +EPZ | 2235 6.3 | #-875 |
| 8 | -EpPZ | 0754 5.0 | #-857 | 11 | -EPcPZ | 2235 7.8 | #-875 |
| 8 | +IPZ | 0923 53.5 | #-858 | 12 | +EPZ | 1455 13.0 | #-876 |
| 8 | -EPZ | 1138 9.3 | | 12 | -EPZ | 1921 10.6 | #-877 |
| 8 | +EPZ | 1308 43.2 | #-859 | 12 | -EPcPZ | 1921 12.1 | #-877 |
| 8 | -EPZ | 1954 12.0 | #-860 | 12 | ESH | 1932 35.5 | |
| 8 | -EPZ | 2150 38.5 | | 12 | +EPZ | 2204 27.8 | |
| 9 | +EPZ | 0436 39.4 | | 12 | +EPZ | 2315 43.2 | |
| 9 | +EPZ | 0436 44.0 | | 12 | +EPZ | 2315 50.0 | |
| 9 | +EPKiKPZ | 0606 46.3 | #-861 | 13 | +EPZ | 0524 40.2 | #-878 |
| 9 | +EPZ | 0607 11.0 | | 13 | +EPZ | 0546 47.8 | #-879 |
| 9 | +EPKPbcZ | 0638 7.7 | #-862 | 13 | -EPZ | 0604 21.6 | #-880 |
| 9 | -EPZ | 1229 15.0 | #-863 | 13 | -EPcPZ | 0604 23.2 | #-880 |
| 9 | -EPZ | 1649 8.6 | #-864 | 13 | -EPZ | 0915 4.0 | |
| 9 | -EpPZ | 1649 12.0 | #-864 | 13 | +EPZ | 1423 5.4 | #-881 |
| 9 | -EpPZ | 1716 47.8 | #-865 | 13 | -EpPZ | 1920 59.0 | #-882 |
| 9 | -EPZ | 1726 20.8 | | 13 | -EPnPnZ | 1920 55.0 | #-882 |
| 9 | +EPZ | 2334 11.0 | #-866 | 13 | -EPZ | 1923 3.8 | |
| 9 | -EPcPZ | 2334 16.4 | #-866 | 13 | -EPZ | 2015 57.0 | #-883 |
| 10 | +EpPZ | 0732 27.0 | #-867 | 13 | -EPcPZ | 2015 58.0 | #-883 |
| 10 | +EPZ | 1011 4.0 | #-868 | 13 | ESH | 2025 34.4 | |
| 10 | -EPZ | 1109 19.0 | | 14 | +EXZ | 0025 24.2 | #-884 |
| 10 | -EPZ | 1322 43.8 | #-869 | 14 | +EPZ | 0057 12.5 | |
| 10 | +EXZ | 1322 50.8 | #-869 | 14 | -EPZ | 0057 25.3 | |
| 10 | -EpPZ | 1608 46.6 | #-870 | 14 | +EPZ | 0104 51.0 | |
| 10 | +EsPZ | 1608 52.4 | #-870 | 14 | +EPZ | 0105 1.2 | |
| 10 | -EPPZ | 1609 40.0 | #-870 | 14 | +EPZ | 0351 40.0 | #-885 |
| 10 | -EPcPZ | 1611 48.8 | #-870 | 14 | -EPZ | 0439 25.5 | |
| 10 | +EPZ | 1648 6.5 | | 14 | +EPZ | 0704 57.4 | #-886 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|-------|---------------|---------|
| 14 | -EPZ | 1712 23.0 | #-887 | 17 | -IPZ | 0830 56.0 | #-903 |
| 14 | -EpPZ | 1712 26.8 | #-887 | 17 | -EPZ | 0849 44.8 | #-904 |
| 15 | +EpPZ | 0228 6.5 | #-888 | 17 | +EPZ | 0852 47.5 | #-905 |
| 15 | +EPZ | 0636 27.0 | #-889 | 17 | +EPZ | 0911 45.0 | #-906 |
| 15 | +IPZ | 0722 40.3 | #-890 | 17 | +EpPZ | 0911 49.0 | #-906 |
| 15 | -IPZ | 0722 42.2 | #-890 | 17 | +IPZ | 0916 46.6 | #-907 |
| 15 | ESH | 0732 31.6 | | 17 | -IPZ | 0924 39.2 | #-908 |
| 15 | +EPZ | 0909 1.2 | #-891 | 17 | +EPZ | 0955 40.0 | #-909 |
| 15 | +EPcPZ | 0909 11.2 | #-891 | 17 | -EPZ | 1007 2.9 | #-910 |
| 15 | +EPZ | 1206 41.6 | #-892 | 17 | +EpPZ | 1007 9.2 | #-910 |
| 15 | +EpPZ | 1206 52.5 | #-892 | 17 | -EPZ | 1020 40.2 | #-911 |
| 15 | +EPZ | 1505 34.6 | #-893 | 17 | -EpPZ | 1020 44.8 | #-911 |
| 15 | +EPZ | 2132 15.2 | #-894 | 17 | -EPZ | 1056 5.3 | #-912 |
| 15 | -EPcPZ | 2132 18.8 | #-894 | 17 | -IPZ | 1119 3.4 | #-913 |
| 15 | +EPZ | 2257 26.8 | #-895 | 17 | +IpPZ | 1119 6.3 | #-913 |
| 15 | +EPZ | 2342 19.0 | #-896 | 17 | +EPZ | 1127 4.9 | |
| 15 | +EPcPZ | 2342 52.8 | #-896 | 17 | -EPZ | 1136 18.4 | |
| 16 | +EPZ | 1153 56.3 | #-897 | 17 | -EPZ | 1303 43.6 | #-914 |
| 16 | +IpPZ | 1154 2.5 | #-897 | 17 | +EPZ | 1350 53.0 | #-915 |
| 16 | -IPcPZ | 1154 21.4 | #-897 | 17 | -EPZ | 1405 19.8 | #-916 |
| 16 | -EPZ | 1221 50.5 | | 17 | -EPZ | 1424 6.8 | |
| 16 | +EpPZ | 1305 37.6 | #-898 | 17 | -EpPZ | 1502 31.4 | #-917 |
| 16 | +EPZ | 1324 22.0 | #-899 | 17 | -EXZ | 1526 42.0 | #-918 |
| 16 | -EPZ | 1341 40.4 | #-900 | 17 | +EpPZ | 1526 47.6 | #-918 |
| 16 | -EPcPZ | 1341 42.6 | #-900 | 17 | +EPZ | 1532 27.4 | #-919 |
| 16 | -IPZ | 1435 42.9 | #-901 | 17 | +EPZ | 1537 52.7 | |
| 16 | -EPcPZ | 1435 44.4 | #-901 | 17 | -EPZ | 1540 16.8 | #-920 |
| 16 | +EPZ | 1632 14.5 | | 17 | +EPZ | 1540 35.0 | #-921 |
| 16 | +EPZ | 2332 22.6 | #-902 | 17 | +EPZ | 1553 32.8 | #-922 |
| 16 | +EPcPZ | 2332 28.2 | #-902 | 17 | +EpPZ | 1553 36.7 | #-922 |
| 16 | -EpPZ | 2332 43.3 | #-902 | 17 | +EPZ | 1557 29.5 | #-923 |
| 17 | +EPZ | 0305 2.4 | | 17 | +EpPZ | 1557 35.0 | #-923 |
| 17 | +EPZ | 0424 21.5 | | 17 | +IPZ | 1621 26.2 | #-924 |
| 17 | +EPZ | 0606 56.0 | | 17 | +IpPZ | 1621 29.0 | #-924 |
| 17 | +EPZ | 0818 35.4 | | 17 | +EPZ | 1650 9.6 | #-925 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|--------|---------------|---------|
| 17 | +IpPZ | 1650 13.4 | #-925 | 18 | -EPZ | 1922 43.0 | #-943 |
| 17 | +EpPZ | 1905 28.8 | #-926 | 18 | +EPZ | 2001 1.0 | #-944 |
| 17 | +EPZ | 1921 4.6 | #-927 | 19 | -EPZ | 0210 31.5 | #-945 |
| 17 | +EPZ | 1955 45.2 | #-928 | 19 | +EPZ | 0210 39.5 | |
| 17 | -EPZ | 2001 8.0 | #-929 | 19 | +EPZ | 0247 7.8 | |
| 17 | +EPZ | 2001 6.0 | #-930 | 19 | -IPZ | 0349 2.5 | |
| 17 | +EPZ | 2054 46.5 | #-931 | 19 | +EPZ | 0405 12.5 | #-946 |
| 17 | -EPZ | 2200 35.6 | #-932 | 19 | +EPZ | 0543 22.8 | #-947 |
| 17 | +EPZ | 2244 45.6 | #-933 | 19 | +EPZ | 0611 22.6 | #-948 |
| 17 | +EPZ | 2336 0.8 | #-934 | 19 | ESH | 0621 20.0 | |
| 18 | +EPZ | 0027 20.8 | | 19 | -EPZ | 0727 45.8 | |
| 18 | -EPZ | 0043 23.2 | | 19 | -EPZ | 0727 55.6 | |
| 18 | -EpPZ | 0056 34.0 | #-935 | 19 | +EPZ | 0736 35.9 | #-949 |
| 18 | +EPZ | 0144 17.7 | | 19 | +IpPZ | 0736 40.6 | #-949 |
| 18 | +EPZ | 0149 43.5 | | 19 | +EPZ | 1010 11.0 | |
| 18 | +EPZ | 0216 16.5 | | 19 | -IPZ | 1109 15.0 | #-950 |
| 18 | -EXZ | 0313 18.9 | #-936 | 19 | +IPcPZ | 1109 28.3 | #-950 |
| 18 | +EpPZ | 0313 30.0 | #-936 | 19 | +IpPZ | 1109 29.5 | #-950 |
| 18 | -IPZ | 0340 39.4 | #-937 | 19 | ESH | 1119 15.0 | #-950 |
| 18 | -IPcPZ | 0340 41.5 | #-937 | 19 | +EPZ | 1202 5.0 | #-951 |
| 18 | +EPZ | 0346 11.0 | | 19 | -EPZ | 1218 10.0 | #-952 |
| 18 | +EPZ | 0429 56.0 | #-938 | 19 | -EPZ | 1822 7.0 | #-953 |
| 18 | -EPZ | 0528 3.9 | | 19 | +EpPZ | 1822 11.5 | #-953 |
| 18 | +EPZ | 0601 46.0 | | 19 | +EPZ | 1918 0.0 | #-954 |
| 18 | +EPZ | 0703 14.4 | #-939 | 19 | +EPZ | 2112 49.4 | #-955 |
| 18 | -EpPZ | 0703 17.7 | #-939 | 19 | +EPZ | 2220 57.2 | #-956 |
| 18 | -EPZ | 1303 47.0 | | 19 | -EPZ | 2222 19.4 | |
| 18 | +EPZ | 1506 29.8 | #-940 | 20 | +EPZ | 0129 1.2 | #-957 |
| 18 | +EpPZ | 1506 33.8 | #-940 | 20 | +EPZ | 0307 17.5 | |
| 18 | -IPZ | 1613 69.4 | #-941 | 20 | -EPZ | 0445 37.8 | #-958 |
| 18 | -EpPZ | 1616 12.0 | #-941 | 20 | -EpPZ | 0445 40.0 | #-958 |
| 18 | ESH | 1623 46.0 | #-941 | 20 | +EPZ | 1112 33.5 | #-959 |
| 18 | +EPZ | 1739 27.7 | #-942 | 20 | +EpPZ | 1112 37.6 | #-959 |
| 18 | +EpPZ | 1739 30.5 | #-942 | 20 | -EPZ | 1244 10.5 | |
| 18 | +EPZ | 1852 13.0 | | 20 | -EPZ | 1447 41.1 | #-960 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|--------|----------|---------------|---------|
| 20 | +EPZ | 1527 20.0 | #-961 | 27 | +EPcPZ | 0151 31.2 | #-978 |
| 20 | +EpPZ | 1527 22.3 | #-961 | 27 | +EPZ | 0359 33.0 | |
| 20 | +EPZ | 1550 0.5 | #-962 | 27 | +EPZ | 1128 50.6 | #-979 |
| 20 | -EpPZ | 1550 2.9 | #-962 | 27 | -EPcPZ | 1128 56.6 | #-979 |
| 20 | +EPZ | 2237 23.5 | #-963 | 27 | +IpPZ | 1129 0.8 | #-979 |
| 21 | +EPZ | 0000 39.4 | #-964 | 27 | ESH | 1138 57.0 | #-979 |
| 21 | -EPZ | 1420 13.0 | #-965 | 27 | +EPZ | 1339 20.5 | |
| 21 | -EpPZ | 1420 18.9 | #-965 | 27 | +IPZ | 2307 24.0 | #-980 |
| 22 | -EXZ | 0332 45.8 | #-966 | 27 | -IpPZ | 2307 34.8 | #-980 |
| 22 | -EXZ | 0333 0.0 | #-966 | 27 | +EPZ | 2330 39.4 | #-981 |
| 22 | -EPZ | 1010 25.0 | #-967 | 27 | -EpPZ | 2330 51.2 | #-981 |
| 22 | -EPcPZ | 1010 28.6 | #-967 | 28 | +EPZ | 0154 59.1 | #-982 |
| 22 | -EPPZ | 1444 48.5 | #-968 | 28 | +IPcPZ | 0155 0.0 | #-982 |
| 22 | +EPcPZ | 1505 53.2 | #-969 | 28 | +EsPZ | 0311 42.8 | #-983 |
| 22 | +EPZ | 1724 17.3 | | 28 | -EPZ | 0547 10.8 | #-984 |
| 23 | +EPZ | 0858 5.0 | #-970 | 28 | +EPZ | 0728 46.4 | #-985 |
| 23 | -IPZ | 1229 0.6 | #-971 | 28 | -EPZ | 0819 59.3 | #-986 |
| 23 | -EPZ | 1735 13.6 | #-972 | 28 | -EPZ | 1312 40.6 | |
| 23 | +EPcPZ | 1735 32.8 | #-972 | 28 | +EPZ | 1312 53.8 | |
| 23 | +EPZ | 1950 50.0 | #-973 | 28 | -EPZ | 1402 43.0 | |
| 23 | +EsPZ | 1954 44.0 | #-974 | 29 | +EPZ | 0215 2.0 | #-987 |
| 23 | +EPZ | 2022 0.8 | | 29 | ESH | 0224 38.0 | |
| 23 | -EPZ | 2022 9.4 | | 29 | +EPZ | 0645 26.0 | |
| 23 | +IPZ | 2102 43.5 | | 29 | +EPZ | 1122 9.0 | |
| 23 | ESH | 2112 40.2 | | 29 | -EPZ | 2102 16.0 | #-988 |
| 23 | +EPZ | 2208 17.0 | | 29 | -EPcPZ | 2102 22.0 | #-988 |
| 24 | +EPZ | 0109 36.0 | | 30 | +EPZ | 0746 26.1 | |
| 24 | -EPZ | 0109 47.8 | | 30 | +EPZ | 2346 39.3 | |
| 24 | +EPZ | 1539 1.5 | | 30 | -EPZ | 2346 41.8 | |
| 25 | +EPZ | 0119 48.2 | | 31 | +EPKPdFZ | 1855 53.5 | #-989 |
| 25 | +EPZ | 0803 13.2 | | 31 | +EPZ | 2056 15.4 | #-990 |
| 25 | +EPZ | 1009 51.3 | | Aug. 1 | +EPZ | 0817 2.4 | #-991 |
| 26 | +EPZ | 0207 42.1 | #-975 | 1 | -EPZ | 0909 31.4 | #-992 |
| 26 | +EPZ | 0229 14.2 | #-976 | 1 | -EPZ | 0909 32.4 | #-992 |
| 26 | +EPZ | 0255 55.0 | #-977 | 1 | +EPcPZ | 1011 10.0 | #-993 |

Table 1. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|-----------|-------------|------|---------|------|----------|-------------|------|---------|
| 1 | +EPZ | 1032 | 30.2 | #-994 | 7 | -EPZ | 0105 | 47.5 | |
| 1 | +EpPZ | 1032 | 41.0 | #-994 | 7 | +EPZ | 1429 | 55.8 | #-1017 |
| 1 | +EpPKPdfZ | 1634 | 14.0 | #-995 | 7 | +EPZ | 1610 | 1.8 | #-1018 |
| 1 | -EPZ | 1627 | 24.0 | #-996 | 7 | +EPcPZ | 1610 | 5.3 | #-1018 |
| 1 | -EPZ | 1739 | 7.2 | #-997 | 7 | +EPZ | 2018 | 57.7 | |
| 1 | +EPZ | 1848 | 16.5 | #-998 | 7 | +EPZ | 2019 | 9.2 | |
| 2 | +EPZ | 0057 | 59.4 | #-999 | 7 | +IPZ | 2231 | 26.2 | |
| 2 | +EsPZ | 0100 | 23.5 | #-999 | 7 | -IPZ | 2231 | 57.2 | |
| 2 | +EPZ | 1324 | 35.7 | #-1000 | 7 | ESH | 2241 | 55.3 | |
| 2 | -EpPZ | 1324 | 41.0 | #-1000 | 8 | +EPZ | 0758 | 11.8 | #-1019 |
| 2 | +IPZ | 1456 | 45.2 | #-1001 | 8 | -EPZ | 2024 | 19.8 | #-1020 |
| 2 | +IpPZ | 1456 | 47.4 | #-1001 | 8 | +EPcPZ | 2024 | 24.4 | #-1020 |
| 2 | +EsPZ | 1456 | 53.1 | #-1001 | 8 | -EPZ | 2129 | 31.8 | #-1021 |
| 2 | -EPZ | 1748 | 8.0 | #-1002 | 8 | +EPZ | 2138 | 11.4 | |
| 2 | +EPZ | 1935 | 52.6 | #-1003 | 8 | -EPZ | 2312 | 51.3 | #-1022 |
| 2 | +EPcPZ | 1936 | 3.8 | #-1003 | 8 | +EpPZ | 2313 | 0.2 | #-1022 |
| 3 | -EPZ | 0041 | 22.2 | #-1004 | 8 | +EPcPZ | 2313 | 5.7 | #-1022 |
| 3 | -EPZ | 0201 | 56.4 | #-1005 | 9 | +EPZ | 0004 | 54.3 | #-1023 |
| 3 | +EPZ | 1218 | 6.0 | #-1006 | 9 | +EPZ | 0028 | 48.2 | #-1024 |
| 3 | +EPZ | 1734 | 6.5 | #-1007 | 9 | -EPcPZ | 0028 | 49.8 | #-1024 |
| 4 | +EPZ | 0326 | 45.6 | #-1008 | 9 | +EPZ | 0403 | 14.8 | |
| 4 | +IpPKPdfZ | 0805 | 39.6 | #-1009 | 9 | +EPZ | 0809 | 23.3 | #-1025 |
| 4 | -EPKiKPZ | 0805 | 43.0 | #-1009 | 9 | +EPcPZ | 0809 | 25.0 | #-1025 |
| 4 | +EPZ | 1236 | 42.8 | #-1010 | 9 | -EPZ | 0814 | 29.3 | #-1026 |
| 4 | +EPZ | 1616 | 45.8 | #-1011 | 9 | +EPZ | 1733 | 8.0 | #-1027 |
| 5 | -IPZ | 1414 | 25.2 | #-1012 | 9 | ESH | 1742 | 47.6 | #-1027 |
| 5 | -IpPZ | 1414 | 33.6 | #-1012 | 9 | +IPZ | 2248 | 30.6 | |
| 6 | +EPZ | 0008 | 12.9 | #-1013 | 10 | -EPZ | 0103 | 33.0 | #-1028 |
| 6 | +EPZ | 0425 | 32.5 | #-1014 | 10 | -EPZ | 0628 | 13.0 | #-1029 |
| 6 | +EPKPdfZ | 1835 | 26.0 | | 10 | +EPPZ | 0722 | 44.5 | #-1030 |
| 6 | -EPPZ | 1836 | 50.0 | #-1015 | 10 | -EPZ | 1545 | 22.7 | #-1031 |
| 6 | +EPZ | 1907 | 7.6 | | 11 | -EPZ | 0329 | 52.8 | #-1032 |
| 6 | -EPZ | 2326 | 48.6 | #-1016 | 11 | -EPZ | 1251 | 51.0 | |
| 6 | -EPcPZ | 2326 | 52.0 | | 11 | -EPZ | 1251 | 54.4 | |
| 7 | -EPZ | 0105 | 45.7 | | 11 | +EPKPdfZ | 1449 | 30.6 | #-1033 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|---------|---------------|---------|
| 11 | +EpPKPdZ | 1449 48.4 | #-1033 | 13 | -EPZ | 1426 29.2 | #-1051 |
| 11 | +EPPZ | 1451 14.5 | #-1033 | 13 | -IPZ | 2203 26.0 | #-1052 |
| 11 | +EpPKPdZ | 1457 45.0 | #-1034 | 13 | -EXZ | 2204 31.4 | #-1052 |
| 11 | +EPZ | 1729 17.6 | #-1035 | 14 | +EPZ | 0135 22.4 | |
| 11 | +EPZ | 2106 26.4 | | 14 | +EPZ | 0921 4.4 | #-1053 |
| 12 | -EPZ | 0011 8.3 | | 14 | +EPZ | 2315 16.4 | #-1054 |
| 12 | +EPZ | 0011 23.8 | | 14 | +EPcPZ | 2315 28.2 | |
| 12 | +EPZ | 0345 33.0 | #-1036 | 15 | -EPZ | 0317 43.3 | |
| 12 | -EpPZ | 0345 43.7 | #-1036 | 15 | +EPZ | 0556 13.2 | |
| 12 | +EPZ | 0706 52.4 | #-1037 | 15 | -EPZ | 0556 16.4 | |
| 12 | -EpPZ | 0706 56.0 | #-1037 | 15 | -EPZ | 1456 20.0 | #-1055 |
| 12 | +EPZ | 0958 31.0 | #-1038 | 15 | +EPZ | 1758 10.6 | #-1056 |
| 12 | +EPZ | 1319 22.6 | #-1039 | 16 | -EPZ | 0006 10.4 | |
| 12 | +EPZ | 1406 59.8 | #-1040 | 16 | -IPZ | 0006 23.0 | |
| 12 | +EPPZ | 1408 8.3 | #-1040 | 16 | +IPZ | 0006 52.6 | |
| 12 | -EPKPdZ | 1858 0.6 | #-1041 | 16 | ESH | 0016 31.3 | |
| 12 | +EPZ | 1953 30.5 | #-1042 | 16 | +EPZ | 0812 42.0 | #-1057 |
| 12 | -EpPZ | 1953 32.4 | #-1042 | 16 | +EsPZ | 0812 50.3 | #-1057 |
| 12 | -EPZ | 1957 26.4 | | 16 | +EPZ | 0927 7.6 | #-1058 |
| 12 | +EPZ | 2340 51.0 | #-1043 | 16 | +EpPZ | 0927 10.4 | #-1058 |
| 13 | -EPZ | 0028 42.0 | | 16 | -EPZ | 1701 45.0 | #-1059 |
| 13 | +EPZ | 0028 53.2 | | 16 | +EsPZ | 1701 49.6 | #-1059 |
| 13 | +EPZ | 0059 55.3 | #-1044 | 16 | +EPZ | 1846 52.4 | |
| 13 | +EPZ | 0215 16.0 | #-1045 | 16 | +IPZ | 1847 3.8 | |
| 13 | +EsPZ | 0215 30.3 | #-1045 | 16 | -EPZ | 2335 18.8 | |
| 13 | +IPZ | 0439 50.0 | #-1046 | 17 | +EPZ | 0142 21.6 | |
| 13 | -IXZ | 0440 14.0 | #-1046 | 17 | +EPZ | 0151 46.2 | |
| 13 | -EPZ | 0650 25.4 | #-1047 | 17 | -EPZ | 0837 6.1 | #-1060 |
| 13 | +EPZ | 0854 10.8 | #-1048 | 17 | -EpPZ | 0837 8.8 | #-1060 |
| 13 | +EPcPZ | 0854 14.0 | #-1048 | 17 | -EPZ | 0846 9.6 | |
| 13 | +EsPZ | 0854 24.6 | #-1048 | 17 | -EXZ | 0900 51.0 | #-1061 |
| 13 | -EPZ | 1005 1.0 | #-1049 | 17 | -EPKPdZ | 1131 13.0 | #-1062 |
| 13 | -EpPZ | 1005 15.0 | #-1049 | 17 | -IPKbcZ | 1131 20.6 | #-1062 |
| 13 | +EPZ | 1248 51.6 | #-1050 | 17 | -EPZ | 1318 30.0 | #-1063 |
| 13 | +EpPZ | 1249 2.0 | #-1050 | 17 | -EPZ | 1344 31.0 | #-1064 |

Table 1. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|----------|-------------|------|---------|------|----------|-------------|------|---------|
| 17 | +EPcPZ | 1344 | 42.2 | #-1064 | 20 | +EPcPZ | 1615 | 4.6 | #-1079 |
| 17 | -EpPZ | 1344 | 52.6 | #-1064 | 20 | +EPZ | 2109 | 43.6 | #-1080 |
| 17 | +EPZ | 1539 | 49.8 | | 20 | -EpPZ | 2109 | 52.5 | #-1080 |
| 17 | +EPZ | 2017 | 0.3 | | 21 | +EPZ | 0842 | 15.6 | #-1081 |
| 17 | +EPZ | 2017 | 5.6 | | 21 | +EPZ | 1301 | 54.2 | #-1082 |
| 17 | -EPZ | 2349 | 3.8 | | 21 | +EsPZ | 1302 | 2.1 | #-1082 |
| 18 | +EsPZ | 0326 | 46.0 | #-1065 | 22 | +EPZ | 0015 | 36.0 | #-1083 |
| 18 | +EPZ | 0926 | 30.4 | | 22 | -EsPZ | 0114 | 8.8 | #-1084 |
| 18 | -EPZ | 0926 | 35.4 | | 22 | +EPZ | 0743 | 15.0 | #-1085 |
| 18 | -EPZ | 2037 | 55.6 | | 22 | +EPZ | 0858 | 7.8 | |
| 18 | +EPZ | 2038 | 3.2 | | 22 | +EPZ | 1119 | 22.3 | |
| 19 | +EPZ | 0409 | 22.2 | #-1066 | 22 | +EPZ | 1146 | 29.5 | |
| 19 | -EPnZ | 0409 | 24.2 | #-1066 | 22 | -EPZ | 1317 | 49.2 | #-1086 |
| 19 | +EPZ | 0655 | 10.4 | #-1067 | 22 | +EPZ | 1823 | 55.8 | #-1087 |
| 19 | -EPZ | 1040 | 19.7 | #-1068 | 22 | +EPcPZ | 1823 | 57.0 | #-1087 |
| 19 | -EpPZ | 1040 | 23.2 | #-1068 | 22 | +EPZ | 2112 | 1.0 | |
| 19 | +EPZ | 1211 | 47.4 | #-1069 | 23 | +EPZ | 0102 | 10.8 | #-1088 |
| 19 | +EPZ | 1613 | 52.2 | #-1070 | 23 | -EPcPZ | 0103 | 39.6 | #-1088 |
| 19 | -EpPZ | 1613 | 55.4 | #-1070 | 23 | +EPZ | 0208 | 19.8 | #-1089 |
| 19 | -EsPZ | 1615 | 12.6 | #-1071 | 23 | +EsPZ | 0208 | 27.6 | #-1089 |
| 19 | -EPZ | 1618 | 43.0 | #-1072 | 23 | +EPZ | 0742 | 47.5 | |
| 19 | -EpPZ | 1618 | 48.0 | #-1072 | 23 | +EPZ | 1056 | 48.8 | |
| 19 | +EPZ | 1652 | 48.6 | #-1073 | 23 | +EpPZ | 1844 | 23.2 | #-1090 |
| 19 | +EpPZ | 1652 | 52.3 | #-1073 | 23 | +IPZ | 2328 | 35.0 | |
| 19 | +EPZ | 1711 | 44.3 | #-1074 | 23 | -EPZ | 2328 | 40.4 | |
| 19 | +EPZ | 2253 | 28.8 | | 24 | +EPZ | 0927 | 7.0 | #-1091 |
| 19 | -EPZ | 2355 | 28.0 | | 24 | +EPcPZ | 0927 | 20.3 | #-1091 |
| 20 | +IPZ | 0302 | 7.7 | #-1075 | 24 | -EPZ | 1619 | 23.2 | #-1092 |
| 20 | -EPcPZ | 0302 | 32.6 | #-1075 | 24 | -EPKPdfZ | 2210 | 8.0 | #-1093 |
| 20 | -EPKpbcZ | 0320 | 32.6 | #-1076 | 24 | -IPKpbcZ | 2210 | 9.8 | #-1093 |
| 20 | +IPKpabZ | 0320 | 35.8 | #-1076 | 24 | -IPZ | 2210 | 49.7 | |
| 20 | -EPZ | 0347 | 56.8 | #-1077 | 24 | +EPZ | 2249 | 13.0 | #-1094 |
| 20 | -lpPZ | 0347 | 59.5 | #-1077 | 24 | +EpPZ | 2249 | 16.2 | #-1094 |
| 20 | -EPZ | 1341 | 9.0 | #-1078 | 25 | +EPZ | 0001 | 33.8 | #-1095 |
| 20 | +EPZ | 1447 | 45.0 | | 25 | +EpPZ | 0001 | 43.0 | #-1095 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|--------|----------|---------------|---------|
| 25 | +IPZ | 0055 55.6 | | 29 | -EPZ | 0206 18.6 | #-1112 |
| 25 | ESH | 0105 17.4 | | 29 | +EPZ | 0744 52.8 | |
| 25 | +EPZ | 0305 11.3 | #-1096 | 29 | -EPZ | 1231 1.6 | #-1113 |
| 25 | +EPZ | 0421 16.0 | | 29 | +EPZ | 1350 39.2 | #-1114 |
| 25 | +EpPZ | 0816 10.3 | #-1097 | 29 | +EPZ | 2017 12.6 | #-1115 |
| 25 | +EPZ | 1640 44.2 | #-1098 | 29 | +EPZ | 2110 50.4 | #-1116 |
| 25 | -EsPZ | 1641 16.4 | #-1098 | 29 | +EPZ | 2357 30.4 | #-1117 |
| 25 | +EPZ | 2028 41.8 | | 30 | +EPZ | 0820 34.0 | |
| 25 | +EPZ | 2028 52.5 | | 30 | +EPZ | 0820 42.8 | |
| 25 | ESH | 2038 50.4 | | 30 | -EsPZ | 1623 7.8 | #-1118 |
| 26 | +EPcPZ | 1121 18.6 | #-1099 | 30 | +EPZ | 1751 9.0 | #-1119 |
| 27 | -EPKPdfZ | 0000 25.2 | #-1100 | 30 | -EPZ | 1755 29.2 | #-1120 |
| 27 | +EPKPbcZ | 0000 34.0 | #-1100 | 30 | -EpPZ | 1755 32.2 | #-1120 |
| 27 | +EpPKPdfZ | 0000 47.2 | #-1100 | 30 | -EPZ | 2134 36.8 | |
| 27 | +EPKPdfZ | 0004 29.8 | #-1101 | 31 | -EPZ | 0821 14.0 | #-1121 |
| 27 | -EPKPabZ | 0015 25.4 | #-1102 | 31 | +EPcPZ | 0821 16.1 | #-1121 |
| 27 | +EPZ | 0410 51.0 | #-1103 | 31 | -EpPZ | 0821 29.8 | #-1121 |
| 27 | +EPZ | 0719 41.0 | #-1104 | 31 | +EPPZ | 0824 39.8 | #-1121 |
| 27 | +EpPZ | 0720 37.0 | #-1104 | 31 | +EPZ | 0837 12.8 | |
| 27 | +EPZ | 1953 38.4 | #-1105 | 31 | +EPKPdfZ | 1001 0.0 | #-1122 |
| 28 | +EPZ | 0333 18.6 | | 31 | +EPZ | 1049 50.3 | #-1123 |
| 28 | +EXZ | 0534 19.8 | #-1106 | 31 | -EPZ | 1334 17.0 | #-1124 |
| 28 | -EPcPZ | 0534 37.3 | #-1106 | 31 | +EPZ | 1631 46.0 | #-1125 |
| 28 | +EPZ | 0608 23.6 | #-1107 | 31 | +EPZ | 1920 8.8 | |
| 28 | +EPZ | 0836 34.3 | #-1108 | Sep. 1 | -IPZ | 0448 48.4 | #-1126 |
| 28 | +EPcPZ | 0836 37.0 | #-1108 | 1 | +IPcPZ | 0449 3.2 | #-1126 |
| 28 | -EPZ | 1037 0.4 | | 1 | +EPZ | 0557 12.6 | |
| 28 | +EPZ | 1418 9.9 | | 1 | -EPZ | 0646 35.0 | #-1127 |
| 28 | -EPZ | 1437 13.8 | #-1109 | 1 | +EPZ | 0719 43.0 | |
| 28 | -EXZ | 1522 10.6 | #-1110 | 1 | -IPZ | 1031 58.6 | #-1128 |
| 28 | +EsPZ | 1522 17.4 | #-1110 | 1 | +IpPZ | 1032 11.2 | #-1128 |
| 28 | +EPZ | 1545 55.5 | #-1111 | 1 | +EPKPdfZ | 1224 9.8 | #-1129 |
| 28 | +EPZ | 1906 42.8 | | 1 | +EPZ | 1224 51.8 | |
| 28 | +EPZ | 1939 49.3 | | 1 | -EPZ | 1604 6.2 | #-1130 |
| 28 | +EPZ | 2146 7.6 | | 1 | -EXZ | 1604 16.0 | #-1130 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 1 | -EPcPZ | 1604 22.2 | #-1130 | 6 | -EpPZ | 1148 52.8 | #-1147 |
| 1 | -EPZ | 2227 3.0 | | 6 | +EPZ | 2242 5.8 | |
| 1 | +EPZ | 2227 21.5 | | 7 | -EPZ | 0418 41.5 | #-1148 |
| 2 | +EPZ | 0346 14.0 | | 7 | -EPcPZ | 0418 53.2 | #-1148 |
| 2 | +EPZ | 0346 22.0 | | 7 | +EPZ | 0647 22.2 | |
| 2 | -EPZ | 1426 29.0 | | 7 | -IPZ | 2134 36.8 | |
| 2 | -EPZ | 1637 46.6 | #-1131 | 7 | +EPZ | 2134 53.6 | |
| 2 | -EPZ | 1850 30.2 | #-1132 | 7 | +EPZ | 2135 9.2 | |
| 2 | +EPKpdrZ | 2218 41.0 | #-1133 | 7 | ESH | 2144 17.0 | |
| 2 | -EPKpbcZ | 2218 43.0 | #-1133 | 8 | -EPZ | 0125 33.0 | |
| 3 | -EPZ | 0439 4.8 | #-1134 | 8 | -EPZ | 1028 34.0 | |
| 4 | +EPZ | 0045 18.0 | #-1135 | 8 | -EPZ | 1424 15.0 | #-1149 |
| 4 | +EpPZ | 0045 58.3 | #-1135 | 8 | -EPZ | 1915 33.2 | |
| 4 | ESH | 0054 35.2 | #-1135 | 8 | +EPZ | 2001 38.3 | #-1150 |
| 4 | +EPZ | 0115 21.2 | #-1136 | 8 | +EPZ | 2127 6.6 | #-1151 |
| 4 | +EPZ | 0500 4.6 | #-1137 | 9 | +IPZ | 0020 16.8 | #-1152 |
| 4 | +EPPZ | 0503 38.4 | #-1137 | 9 | +EPcPZ | 0020 30.0 | #-1152 |
| 4 | +EPZ | 1350 52.3 | #-1138 | 9 | ESH | 0029 34.7 | #-1152 |
| 4 | +EPZ | 1753 55.0 | #-1139 | 9 | +EPZ | 0243 46.7 | |
| 4 | -EPcPZ | 1753 56.8 | #-1139 | 9 | -EPZ | 0424 21.1 | #-1153 |
| 4 | +EPZ | 2206 52.6 | | 9 | -IPcPZ | 0424 26.8 | #-1153 |
| 5 | -EPZ | 0300 10.0 | | 9 | ESH | 0433 39.4 | #-1153 |
| 5 | +EPZ | 0844 59.0 | #-1140 | 9 | -EPZ | 0518 0.0 | #-1154 |
| 5 | +EPcPZ | 0845 2.0 | #-1140 | 9 | -EpPZ | 0518 4.2 | #-1154 |
| 5 | +EpPZ | 0947 4.8 | #-1141 | 9 | +EPZ | 0759 35.5 | #-1155 |
| 5 | -EpPZ | 1425 38.0 | #-1142 | 9 | +EPZ | 0955 24.4 | #-1156 |
| 5 | -EPZ | 1629 14.6 | #-1143 | 9 | +EPZ | 1321 31.3 | |
| 5 | -IPZ | 1629 22.0 | | 9 | -EPZ | 1528 21.4 | #-1157 |
| 5 | +EPZ | 1853 14.7 | | 9 | -EPZ | 1741 50.0 | #-1158 |
| 5 | +EPcPZ | 2152 0.5 | #-1144 | 9 | +EPZ | 1800 18.0 | #-1159 |
| 5 | +EsPZ | 2152 15.8 | #-1144 | 9 | +EPcPZ | 1800 29.5 | |
| 5 | +EPZ | 2219 21.7 | | 9 | +EPZ | 2346 32.7 | |
| 6 | +EPZ | 0007 29.6 | #-1145 | 10 | -EPZ | 0310 22.6 | #-1160 |
| 6 | +EXZ | 0520 22.0 | #-1146 | 10 | +EPcPZ | 0310 33.0 | #-1160 |
| 6 | -EPZ | 1148 50.6 | #-1147 | 10 | -EPZ | 0641 49.8 | #-1161 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 10 | -EpPZ | 0642 5.6 | #-1161 | 13 | +EPZ | 0332 41.0 | #-1172 |
| 10 | -EPZ | 0943 18.6 | | 13 | +EXZ | 0602 27.5 | #-1173 |
| 10 | +EPZ | 1128 55.6 | #-1162 | 13 | +EPZ | 1937 14.3 | |
| 10 | +EPcPZ | 1129 7.8 | #-1162 | 14 | +EPZ | 0114 58.4 | #-1174 |
| 10 | ESH | 1138 11.8 | #-1162 | 14 | -EpPZ | 0115 1.6 | #-1174 |
| 10 | -EPZ | 1254 43.8 | #-1163 | 14 | +EPcPZ | 0256 19.0 | #-1175 |
| 10 | +EPZ | 1330 25.5 | #-1164 | 14 | +EPZ | 0502 13.0 | |
| 10 | -EXZ | 1515 7.7 | #-1165 | 14 | +EPZ | 0750 4.2 | #-1176 |
| 10 | +EPPZ | 1517 7.0 | #-1165 | 14 | -EPcPZ | 0750 6.0 | #-1176 |
| 10 | +EPZ | 2353 48.8 | #-1166 | 14 | -EPZ | 1240 39.4 | |
| 11 | -EPZ | 0138 55.0 | #-1167 | 14 | -EPZ | 1242 23.0 | |
| 11 | -EpPZ | 0139 4.4 | #-1167 | 14 | +EPZ | 1711 35.9 | |
| 11 | -EPZ | 0350 21.6 | | 14 | +EPZ | 1711 40.2 | |
| 11 | +EPZ | 0722 23.0 | | 14 | +EPZ | 2054 2.6 | |
| 11 | -EPZ | 0902 4.6 | | 15 | +EPZ | 0220 17.8 | |
| 11 | +EPZ | 0912 20.0 | | 15 | -EPZ | 0310 21.8 | #-1177 |
| 11 | +EPZ | 0912 37.5 | | 15 | -EPcPZ | 0310 23.0 | #-1177 |
| 11 | -EPKpbcZ | 0940 12.4 | | 15 | +EPZ | 0514 9.9 | #-1178 |
| 11 | -EPKpabZ | 0940 14.8 | | 15 | -EPcPZ | 0514 22.8 | #-1178 |
| 11 | +EPcPZ | 1541 10.8 | #-1168 | 15 | -EPZ | 1026 18.6 | |
| 11 | -EPZ | 2112 8.5 | #-1169 | 15 | +EPZ | 1026 26.0 | |
| 11 | -EPcPZ | 2112 11.2 | #-1169 | 15 | -EPZ | 1026 40.0 | |
| 12 | +EPZ | 0126 35.0 | #-1170 | 15 | ESH | 1036 46.0 | |
| 12 | -EpPZ | 0126 51.0 | #-1170 | 15 | +EPZ | 1153 54.0 | |
| 12 | +EPZ | 0840 52.6 | | 15 | -EPZ | 1518 4.8 | #-1179 |
| 12 | -EPZ | 0840 56.2 | | 15 | +EPZ | 1906 12.2 | |
| 12 | +IPZ | 1341 52.0 | | 15 | +EPZ | 1906 15.6 | |
| 12 | ESH | 1350 50.0 | | 15 | +EPZ | 2002 40.0 | #-1180 |
| 12 | +EPZ | 1409 53.6 | | 16 | +EPZ | 0244 1.4 | |
| 12 | -EPZ | 1609 57.2 | #-1171 | 16 | +EPZ | 0244 5.1 | |
| 12 | +EpPZ | 1610 7.6 | #-1171 | 16 | +EPZ | 0611 32.4 | #-1181 |
| 12 | -EsPZ | 1610 12.0 | #-1171 | 16 | +EPZ | 0630 7.0 | #-1182 |
| 12 | +EPZ | 1959 17.0 | | 16 | +EPcPZ | 0630 11.0 | #-1182 |
| 13 | +EPZ | 0155 0.4 | #-1172 | 16 | +EPZ | 0922 21.4 | |
| 13 | +EpPZ | 0155 12.3 | #-1172 | 16 | -EPZ | 0922 25.6 | |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|--------|---------------|---------|
| 16 | -EPZ | 0958 7.8 | #-1183 | 18 | +EPZ | 1050 10.0 | #-1199 |
| 16 | -IPcPZ | 0958 10.5 | #-1183 | 18 | +EpPZ | 1050 24.4 | #-1199 |
| 16 | -IpPZ | 0958 14.6 | #-1183 | 18 | -EPZ | 1213 11.0 | #-1200 |
| 16 | ESH | 1008 35.0 | #-1183 | 18 | -EpPZ | 1213 22.6 | #-1200 |
| 16 | +EPZ | 1141 26.6 | | 18 | +EPZ | 1232 11.0 | |
| 16 | -IPZ | 1249 36.6 | #-1184 | 18 | +EPZ | 1924 49.3 | |
| 16 | +EPcPZ | 1249 40.4 | #-1184 | 18 | +EPZ | 1952 8.6 | |
| 16 | +EpPZ | 1307 39.8 | #-1185 | 18 | +EPZ | 1952 15.6 | |
| 16 | -EPZ | 1420 36.8 | #-1186 | 18 | -EPZ | 2243 51.7 | |
| 16 | +EPZ | 1514 14.5 | | 18 | +EPZ | 2243 53.3 | |
| 16 | -EPZ | 1609 55.0 | #-1187 | 18 | -EPZ | 2358 0.2 | #-1201 |
| 16 | +EsPZ | 1610 1.3 | #-1187 | 18 | +EPcPZ | 2358 2.0 | #-1201 |
| 16 | -EPZ | 1910 22.1 | #-1188 | 19 | +EPZ | 0254 14.6 | |
| 16 | +EPZ | 2337 29.0 | #-1189 | 19 | -EPZ | 0949 49.0 | |
| 16 | +EPcPZ | 2337 30.7 | #-1189 | 19 | -IPZ | 1102 58.3 | #-1202 |
| 17 | -EPZ | 0322 55.4 | | 19 | ESH | 1112 13.2 | #-1202 |
| 17 | +EPZ | 0551 36.4 | #-1190 | 19 | +IPZ | 1342 11.4 | |
| 17 | -EPZ | 0703 37.8 | #-1191 | 19 | -IPZ | 1342 41.0 | |
| 17 | +EXZ | 0707 39.0 | #-1191 | 19 | ESH | 1352 34.0 | |
| 17 | +IPZ | 0739 15.2 | #-1192 | 19 | +IPZ | 1410 24.7 | |
| 17 | +EPZ | 0751 25.6 | #-1193 | 19 | +IPZ | 1410 38.2 | |
| 17 | -IPZ | 0944 46.2 | #-1194 | 19 | ESH | 1419 48.8 | |
| 17 | +IpPZ | 0945 20.1 | #-1194 | 19 | +EPZ | 2052 2.6 | #-1203 |
| 17 | ESH | 0953 23.0 | #-1194 | 19 | +EPZ | 2154 23.0 | |
| 17 | +EPZ | 1013 10.0 | | 20 | +EPZ | 0350 6.5 | |
| 17 | +EPZ | 1013 19.6 | | 20 | +EPZ | 0424 0.8 | |
| 17 | +EPZ | 1333 59.0 | | 20 | +EpPZ | 0424 26.8 | #-1204 |
| 17 | +EXZ | 1421 9.0 | #-1195 | 20 | +EPZ | 0424 48.6 | |
| 17 | -EpPZ | 1600 14.0 | #-1196 | 20 | +EPZ | 1920 42.5 | |
| 17 | +EPZ | 1604 44.8 | #-1196 | 20 | +EPZ | 1920 47.6 | |
| 18 | -EPZ | 0154 6.0 | #-1197 | 20 | -EPZ | 2208 3.9 | |
| 18 | -EpPZ | 0154 36.2 | #-1197 | 21 | -EPZ | 0526 50.8 | #-1205 |
| 18 | +EPZ | 0401 16.4 | | 21 | +EpPZ | 0527 3.0 | #-1205 |
| 18 | +EXZ | 0406 3.2 | #-1198 | 21 | -EPZ | 0728 55.6 | #-1206 |
| 18 | -EPZ | 1011 42.8 | | 21 | -EPZ | 0938 46.0 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|----------|---------------|---------|
| 21 | +EPZ | 1036 32.0 | #-1207 | 24 | +EPZ | 2305 25.6 | #-1219 |
| 21 | +EPZ | 1906 26.0 | | 25 | +EPZ | 0202 9.6 | |
| 21 | -EPZ | 2141 38.0 | | 25 | -EPZ | 0759 35.7 | #-1220 |
| 21 | -EPZ | 2141 45.6 | | 25 | -EXZ | 1044 27.6 | #-1221 |
| 22 | -EPZ | 0218 51.7 | #-1208 | 25 | +EpPZ | 1425 45.6 | #-1222 |
| 22 | -EPcPZ | 0218 55.0 | #-1208 | 25 | +EPKPdfZ | 2222 31.2 | #-1223 |
| 22 | +IPZ | 0242 35.4 | #-1209 | 25 | +EPZ | 2232 30.3 | |
| 22 | ESH | 0250 58.0 | #-1209 | 26 | +EPZ | 0004 56.0 | #-1224 |
| 22 | -EPZ | 0310 1.4 | | 26 | +EsPZ | 0005 4.2 | #-1224 |
| 22 | -EPZ | 1239 42.0 | | 26 | -EPZ | 0049 41.7 | |
| 22 | +EPZ | 1344 7.2 | | 26 | -EPZ | 0049 45.5 | |
| 22 | +EPZ | 1637 19.6 | #-1210 | 26 | +EPZ | 0111 30.8 | #-1225 |
| 23 | -EPZ | 0405 23.4 | #-1211 | 26 | +EPZ | 0112 3.5 | |
| 23 | -EPZ | 1235 42.0 | | 26 | +EPZ | 0135 1.0 | |
| 23 | -EPZ | 2045 36.0 | | 26 | +EPZ | 0135 6.8 | |
| 23 | +EPZ | 2141 10.8 | #-1212 | 26 | +EPZ | 0155 25.4 | |
| 23 | +EPZ | 2141 15.1 | | 26 | +EPZ | 1316 21.5 | |
| 23 | ESH | 2150 32.6 | #-1212 | 26 | -EPZ | 1806 27.0 | |
| 24 | +EPZ | 0125 5.6 | #-1213 | 27 | +EPZ | 0231 8.9 | |
| 24 | -IPcPZ | 0125 6.5 | | 27 | +EPZ | 0231 10.4 | |
| 24 | +EPZ | 0125 35.4 | #-1213 | 27 | -EPZ | 0947 21.0 | |
| 24 | +EXZ | 0150 35.0 | #-1214 | 27 | +EPZ | 1601 55.6 | #-1226 |
| 24 | +EPZ | 0725 34.0 | | 28 | +EPZ | 0156 8.0 | |
| 24 | +EPZ | 0915 21.4 | #-1215 | 28 | +EPZ | 0156 15.2 | |
| 24 | -EPZ | 1227 30.2 | #-1216 | 28 | +IPZ | 0635 13.0 | #-1227 |
| 24 | +EpPZ | 1227 35.8 | #-1216 | 28 | -IXZ | 0635 18.2 | #-1227 |
| 24 | +EPZ | 1355 30.5 | #-1217 | 28 | -EPZ | 0819 20.6 | #-1228 |
| 24 | -EPZ | 2119 15.0 | | 28 | +IPcPZ | 0819 29.9 | #-1228 |
| 24 | +IPZ | 2119 15.5 | | 28 | +EPZ | 1036 50.0 | #-1229 |
| 24 | -IPZ | 2119 48.3 | | 28 | +EPZ | 1335 42.6 | #-1230 |
| 24 | -EPZ | 2147 42.0 | | 28 | +EpPZ | 1335 49.2 | #-1230 |
| 24 | -EPZ | 2147 46.6 | | 28 | -EPZ | 1452 11.2 | #-1231 |
| 24 | -EPZ | 2147 49.3 | | 28 | +EpPZ | 1452 18.8 | #-1231 |
| 24 | ESH | 2127 53.4 | | 29 | +EPPZ | 0056 21.6 | #-1232 |
| 24 | +EPZ | 2207 31.2 | #-1218 | 29 | -EPZ | 0056 8.6 | #-1233 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|----------|---------------|---------|------|----------|---------------|---------|
| 29 | ESH | 0106 4.4 | | 1 | -EpPZ | 0833 3.6 | #-1249 |
| 29 | -EPZ | 0428 52.7 | #-1234 | 1 | -EPZ | 0925 22.6 | |
| 29 | -EpPZ | 0556 53.8 | #-1235 | 1 | +EPKPdfZ | 0925 30.0 | #-1250 |
| 29 | +EPZ | 0603 45.6 | #-1236 | 1 | +EPKiKPZ | 0925 33.1 | #-1250 |
| 29 | -EPZ | 1317 10.0 | | 1 | +EPZ | 0926 20.5 | |
| 29 | -EPZ | 1317 14.6 | | 1 | -EPZ | 1116 29.0 | |
| 29 | +EPZ | 1322 22.0 | #-1237 | 1 | -EPZ | 1530 33.0 | |
| 29 | +EPZ | 1326 19.6 | | 1 | -EPZ | 1611 19.8 | #-1251 |
| 29 | +EPPZ | 1326 38.8 | #-1237 | 2 | +EPZ | 0215 5.8 | #-1252 |
| 29 | +EPZ | 1338 29.6 | | 2 | +EpPZ | 0215 19.2 | #-1252 |
| 30 | -EPZ | 0444 10.0 | #-1238 | 2 | -EPZ | 0354 33.2 | #-1253 |
| 30 | -EPZ | 0601 44.8 | #-1239 | 2 | +EPcPZ | 0354 36.2 | #-1253 |
| 30 | +EsPZ | 0601 52.0 | #-1239 | 2 | +EPZ | 0444 29.2 | |
| 30 | +EPZ | 1300 27.8 | #-1240 | 2 | +EPZ | 0609 30.0 | |
| 30 | +EPZ | 1305 32.2 | | 2 | +EPZ | 0609 43.2 | |
| 30 | -EpPZ | 1357 26.4 | #-1241 | 2 | -EPZ | 0912 47.5 | |
| 30 | +EPcPZ | 1358 3.0 | #-1241 | 3 | -EPZ | 0045 32.4 | #-1254 |
| 30 | -EpPZ | 1421 5.0 | #-1242 | 3 | +EPZ | 0320 21.8 | |
| 30 | -EPZ | 1449 36.0 | | 3 | +EPZ | 0341 31.9 | |
| 30 | -EPZ | 1540 3.1 | #-1243 | 3 | +EPZ | 0341 45.2 | |
| 30 | +EXZ | 1541 16.2 | #-1243 | 3 | +EPZ | 0801 22.4 | #-1255 |
| 30 | +EPZ | 1639 10.4 | #-1244 | 3 | +EPcPZ | 0954 52.3 | #-1256 |
| 30 | -IPcPZ | 1639 12.0 | #-1244 | 3 | -EpPZ | 0955 10.0 | #-1256 |
| 30 | ESH | 1649 25.0 | #-1244 | 3 | +EPZ | 1815 30.8 | #-1257 |
| 30 | +EPZ | 1809 43.0 | | 3 | -EPcPZ | 1815 33.3 | #-1257 |
| 30 | +EPKPdfZ | 1809 52.2 | #-1245 | 3 | ESH | 1825 37.0 | #-1257 |
| 30 | +EPPZ | 1909 46.8 | #-1246 | 3 | +EPZ | 1850 32.3 | #-1258 |
| 30 | -EPZ | 1948 33.4 | | 3 | +EPZ | 2314 27.2 | |
| 30 | +EPZ | 2300 51.6 | | 4 | +EPZ | 0128 4.0 | #-1259 |
| Oct. 1 | +EXZ | 0243 36.8 | #-1247 | 4 | +EPZ | 0200 4.6 | #-1260 |
| 1 | -EPZ | 0338 39.8 | #-1248 | 4 | -EPcPZ | 0200 10.0 | #-1260 |
| 1 | +EPZ | 0338 47.4 | #-1248 | 4 | -EPZ | 0406 47.8 | #-1261 |
| 1 | -EPZ | 0351 32.2 | | 4 | -EpPZ | 0406 55.6 | #-1261 |
| 1 | +EPZ | 0445 2.5 | | 4 | -IPZ | 0735 30.2 | #-1262 |
| 1 | +EPZ | 0832 54.0 | #-1249 | 4 | +EpPZ | 0736 24.0 | #-1262 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|--------|---------------|---------|
| 4 | -EXZ | 0848 44.8 | #-1263 | 7 | +EPcPZ | 2125 35.0 | #-1280 |
| 4 | -EPZ | 1314 24.8 | | 8 | +EPZ | 1402 52.6 | #-1281 |
| 4 | +EPZ | 1345 43.0 | #-1264 | 8 | +lpPZ | 1402 58.1 | #-1281 |
| 4 | +EPcPZ | 1345 51.0 | #-1264 | 8 | +IPZ | 1422 48.0 | #-1282 |
| 5 | +EPZ | 0258 14.8 | #-1265 | 8 | +lpPZ | 1422 52.5 | #-1282 |
| 5 | +EPZ | 0614 50.2 | #-1266 | 8 | +EPZ | 1459 26.0 | #-1283 |
| 5 | -EPcPZ | 0614 54.2 | #-1266 | 8 | +EpPZ | 1459 30.0 | #-1283 |
| 5 | -EPZ | 0842 6.5 | #-1267 | 8 | +EPZ | 1907 25.0 | #-1284 |
| 5 | +EPZ | 1244 31.8 | #-1268 | 8 | -lpPZ | 1907 29.5 | #-1284 |
| 5 | +EPZ | 1448 18.4 | | 8 | -EPZ | 1923 34.2 | |
| 5 | +EPZ | 1448 22.6 | | 8 | +EPZ | 1923 39.5 | |
| 6 | -EPZ | 0435 46.6 | #-1269 | 8 | +EPZ | 1930 11.6 | |
| 6 | +EPPZ | 0452 14.2 | #-1270 | 8 | +EPZ | 2140 15.7 | |
| 6 | -EPZ | 0515 48.0 | #-1271 | 8 | +EPZ | 2341 0.6 | |
| 6 | -EPZ | 0730 51.4 | #-1272 | 9 | +EPZ | 0022 30.0 | #-1285 |
| 6 | +EPZ | 0731 12.0 | | 9 | +EsPZ | 0022 36.4 | #-1285 |
| 6 | +EPZ | 0937 28.0 | | 9 | +EpPZ | 0947 53.2 | #-1286 |
| 6 | -EPZ | 1501 11.9 | #-1273 | 9 | -IPZ | 1007 0.2 | #-1287 |
| 6 | -EPcPZ | 1501 17.6 | #-1273 | 9 | -EPZ | 1007 5.8 | |
| 6 | +EPZ | 1635 32.8 | #-1274 | 9 | +EPZ | 1007 23.4 | |
| 6 | -EPcPZ | 1636 14.2 | #-1274 | 9 | +EPZ | 1113 34.6 | #-1288 |
| 6 | -EPZ | 1749 57.0 | #-1275 | 9 | +EsPZ | 1114 0.7 | #-1288 |
| 6 | -EPZ | 2152 2.8 | | 9 | +EPZ | 1113 39.6 | |
| 6 | -EPZ | 2357 23.6 | | 9 | -EpPZ | 1357 29.0 | #-1289 |
| 7 | +EPZ | 0332 57.0 | #-1276 | 9 | +EPZ | 1410 21.0 | #-1290 |
| 7 | +EPZ | 0649 34.6 | | 9 | -EPZ | 1527 24.9 | #-1291 |
| 7 | +IPZ | 0832 21.0 | #-1277 | 9 | -EPcPZ | 1527 26.3 | #-1291 |
| 7 | -lpPZ | 0832 48.5 | #-1277 | 9 | -IPZ | 1823 52.8 | #-1292 |
| 7 | ESH | 0841 47.0 | #-1277 | 9 | +EPZ | 2106 53.0 | |
| 7 | -EPZ | 1030 36.4 | | 9 | +EPZ | 2350 38.3 | |
| 7 | -EPZ | 1555 51.0 | | 10 | -EPZ | 0052 2.6 | |
| 7 | +EPZ | 1641 54.7 | #-1278 | 10 | -EPZ | 0321 1.7 | |
| 7 | +EPZ | 1729 36.8 | #-1279 | 10 | -EPZ | 0321 21.8 | |
| 7 | -EpPZ | 1729 41.0 | #-1279 | 10 | -IPZ | 0812 19.0 | #-1293 |
| 7 | +EPZ | 2125 30.2 | #-1280 | 10 | -lpPZ | 0812 21.8 | #-1293 |

Table I. Continued.

| Date | Phase | Time h m | s | Remarks | Date | Phase | Time h m | s | Remarks |
|------|--------|-------------|------|---------|------|----------|-------------|------|---------|
| 10 | -EsPZ | 0812 | 23.6 | #-1293 | 13 | +EsPZ | 0016 | 53.2 | #-1305 |
| 10 | -EPZ | 1827 | 41.6 | #-1294 | 13 | -EPZ | 0020 | 46.8 | #-1306 |
| 10 | +EPcPZ | 1828 | 10.6 | #-1294 | 13 | -EPZ | 0056 | 9.0 | |
| 10 | +EpPZ | 1828 | 15.0 | #-1294 | 13 | -EPKPdfZ | 0534 | 13.0 | #-1307 |
| 10 | +EPZ | 2248 | 30.5 | | 13 | +EPKpbcZ | 0534 | 15.0 | #-1307 |
| 10 | +EPZ | 2248 | 32.6 | | 13 | -EPZ | 0849 | 43.8 | #-1308 |
| 10 | -EPZ | 2316 | 10.6 | | 13 | +EPZ | 1040 | 35.2 | #-1309 |
| 10 | +EPZ | 2316 | 22.5 | | 13 | -EXZ | 1040 | 40.0 | #-1309 |
| 11 | +EPZ | 0017 | 9.8 | | 13 | +EPZ | 1214 | 3.3 | |
| 11 | +EPZ | 1101 | 20.0 | #-1295 | 13 | +EPZ | 1403 | 24.4 | |
| 11 | -EPZ | 1433 | 21.4 | #-1296 | 13 | -EPZ | 1458 | 12.0 | #-1310 |
| 11 | +EPcPZ | 1433 | 33.0 | #-1296 | 13 | -EPZ | 1623 | 49.0 | #-1311 |
| 11 | +EPZ | 2131 | 6.5 | #-1297 | 13 | +EsPZ | 1624 | 1.4 | #-1311 |
| 11 | +EPcPZ | 2131 | 10.0 | #-1297 | 13 | +EPZ | 1743 | 0.3 | #-1312 |
| 12 | -EPZ | 0124 | 33.2 | | 13 | -EPcPZ | 1743 | 13.6 | #-1312 |
| 12 | +EPZ | 0238 | 52.4 | #-1298 | 13 | +EPZ | 1903 | 45.2 | |
| 12 | +EPZ | 0321 | 26.2 | #-1299 | 13 | -EPKPdfZ | 2156 | 55.7 | #-1313 |
| 12 | +EPZ | 0452 | 15.5 | | 14 | -EPZ | 0036 | 16.0 | |
| 12 | +EPZ | 0538 | 33.0 | #-1300 | 14 | -EPZ | 0920 | 26.8 | #-1314 |
| 12 | +EpPZ | 0538 | 44.0 | #-1300 | 14 | -EsPZ | 0920 | 40.7 | #-1314 |
| 12 | -EPZ | 0542 | 57.2 | #-1301 | 14 | +EPZ | 1118 | 53.8 | |
| 12 | +EsPZ | 0543 | 13.4 | #-1301 | 14 | +IPZ | 1530 | 6.5 | #-1315 |
| 12 | +EPZ | 0603 | 40.0 | #-1302 | 14 | -EPcPZ | 1530 | 18.2 | #-1315 |
| 12 | +EPcPZ | 0603 | 45.3 | #-1302 | 14 | -EpPZ | 1530 | 34.6 | #-1315 |
| 12 | +EpPZ | 0603 | 51.5 | #-1302 | 14 | +EPZ | 1700 | 47.0 | |
| 12 | -EPZ | 0724 | 46.0 | | 14 | +EPZ | 2112 | 53.0 | |
| 12 | -EPZ | 1209 | 29.5 | #-1303 | 14 | -EPZ | 2247 | 23.8 | |
| 12 | -EPcPZ | 1209 | 30.6 | #-1303 | 15 | +EPZ | 0112 | 48.0 | |
| 12 | +EPZ | 1646 | 41.4 | | 15 | +EPZ | 0426 | 39.4 | #-1316 |
| 12 | +EPZ | 1816 | 52.0 | #-1304 | 15 | +EXZ | 0427 | 13.6 | #-1316 |
| 12 | ESH | 1825 | 53.0 | #-1304 | 15 | -EPcPZ | 0501 | 17.0 | #-1317 |
| 12 | -EPZ | 1845 | 10.0 | | 15 | +EsPZ | 0501 | 35.0 | #-1317 |
| 12 | -EPZ | 1902 | 45.5 | | 15 | +EPZ | 0647 | 25.0 | |
| 12 | +EPZ | 1932 | 40.6 | | 15 | -EPZ | 0844 | 1.6 | |
| 13 | +EPZ | 0016 | 47.6 | #-1305 | 15 | -EPZ | 0903 | 47.7 | #-1318 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 15 | +EPZ | 1347 26.8 | #-1319 | 18 | +EPcPZ | 0213 41.2 | #-1333 |
| 15 | -EPKpdrZ | 1726 52.2 | #-1320 | 18 | +EPZ | 0322 38.0 | |
| 15 | +EPKiKPZ | 1726 57.6 | #-1320 | 18 | +IPZ | 0336 26.2 | #-1334 |
| 15 | +IPKpdrZ | 1733 20.0 | #-1321 | 18 | +IPcPZ | 0336 34.8 | #-1334 |
| 15 | +EXZ | 1735 30.0 | #-1321 | 18 | +EpPZ | 0337 12.0 | #-1334 |
| 15 | +EPZ | 1957 37.8 | #-1322 | 18 | +EPZ | 1058 9.0 | #-1335 |
| 16 | -EPZ | 0044 53.8 | | 18 | -IPcPZ | 1058 11.4 | #-1335 |
| 16 | -IXZ | 0144 36.3 | #-1323 | 18 | ESH | 1108 46.0 | #-1335 |
| 16 | +EpPZ | 0144 47.2 | #-1323 | 18 | +EPZ | 1222 50.2 | #-1336 |
| 16 | ESH | 0153 38.6 | #-1323 | 18 | +EPcPZ | 1222 52.0 | #-1336 |
| 16 | -EPZ | 1512 44.8 | | 18 | -EPZ | 2025 25.0 | |
| 16 | +EPZ | 1513 3.4 | | 19 | -EPZ | 0735 28.8 | |
| 16 | +EPZ | 2342 47.6 | | 19 | -EPZ | 0735 30.0 | |
| 17 | -IPZ | 0138 17.0 | | 19 | -EpPZ | 1745 49.8 | #-1337 |
| 17 | +IPZ | 0138 19.4 | | 19 | +EPZ | 2006 44.0 | |
| 17 | ESH | 0149 13.0 | | 20 | +EPZ | 0436 55.0 | #-1338 |
| 17 | -EPZ | 0211 50.8 | #-1324 | 20 | -EpPnZ | 0437 0.2 | #-1338 |
| 17 | -IPZ | 0211 52.0 | #-1324 | 20 | +EXZ | 0555 44.0 | #-1339 |
| 17 | -EPZ | 0327 54.8 | | 20 | -EPZ | 1101 35.6 | #-1340 |
| 17 | +EPZ | 0414 11.0 | #-1325 | 20 | -EPZ | 1425 29.4 | #-1341 |
| 17 | ESH | 0423 45.0 | #-1325 | 20 | -EPcPZ | 1425 32.8 | #-1341 |
| 17 | -EpPZ | 0433 31.4 | #-1326 | 20 | +EpPZ | 1426 4.2 | #-1341 |
| 17 | +EPKpdrZ | 0450 9.6 | #-1327 | 20 | +EPZ | 1537 13.0 | #-1342 |
| 17 | +EPKiKPZ | 0450 11.4 | #-1327 | 20 | +EsPZ | 1537 20.6 | #-1342 |
| 17 | -EPZ | 0623 51.0 | #-1328 | 20 | -EPZ | 1707 42.0 | |
| 17 | -EpPZ | 0624 2.0 | #-1328 | 20 | +EPZ | 1827 48.0 | |
| 17 | +EPZ | 0812 0.2 | #-1329 | 20 | +IPZ | 2033 23.0 | #-1343 |
| 17 | +EPcPZ | 0812 1.8 | #-1329 | 21 | -EPZ | 0521 19.0 | |
| 17 | -EPZ | 0911 30.4 | #-1330 | 21 | -EPZ | 0535 25.0 | #-1344 |
| 17 | -EPcPZ | 0911 32.4 | #-1330 | 21 | +EPZ | 1448 49.8 | |
| 17 | +EPZ | 1004 34.2 | #-1331 | 21 | -EPZ | 2133 4.0 | #-1345 |
| 17 | +EPZ | 1118 37.8 | | 21 | +EpPZ | 2133 32.2 | #-1345 |
| 17 | +EXZ | 1459 9.8 | #-1332 | 22 | +EPZ | 0846 56.3 | |
| 17 | +EPZ | 2113 8.4 | | 22 | +EPZ | 0902 18.3 | #-1346 |
| 17 | +EPZ | 2149 5.8 | | 22 | +IpPZ | 0902 20.0 | #-1346 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 22 | +EPZ | 1051 10.8 | | 26 | -EXZ | 1449 50.0 | #-1363 |
| 22 | +EPZ | 1306 22.6 | #-1347 | 26 | -EPZ | 1450 11.2 | |
| 22 | +EpPZ | 1306 45.0 | #-1347 | 26 | +EPPZ | 1451 5.6 | #-1363 |
| 22 | -EPZ | 2340 37.6 | #-1348 | 26 | +EPZ | 1520 16.6 | #-1364 |
| 23 | +EPZ | 0327 23.0 | | 26 | -EPZ | 2307 11.6 | |
| 23 | -EPZ | 0342 15.0 | | 27 | +EPZ | 0336 10.2 | |
| 23 | -EPZ | 0529 16.0 | | 27 | +EPZ | 0432 4.2 | #-1365 |
| 23 | +EPZ | 0740 45.2 | #-1349 | 27 | +EPZ | 0437 43.7 | |
| 23 | +EpPZ | 0740 49.8 | #-1349 | 28 | +EXZ | 0323 22.5 | #-1366 |
| 23 | +EPZ | 1318 7.2 | #-1350 | 28 | +EPZ | 0725 21.6 | #-1367 |
| 23 | -EPZ | 1332 0.2 | #-1351 | 28 | +EpPZ | 0727 17.0 | #-1367 |
| 23 | +EPZ | 1854 9.0 | | 28 | +EPZ | 1045 9.9 | #-1368 |
| 23 | +EPZ | 2111 52.2 | #-1352 | 28 | +EPZ | 1242 53.8 | |
| 23 | ESH | 2121 10.6 | #-1352 | 28 | +EpPZ | 1354 39.6 | #-1369 |
| 23 | +EPKPdfZ | 2136 10.4 | #-1353 | 28 | +EPZ | 1354 54.0 | |
| 23 | +EPPZ | 2137 41.2 | #-1353 | 28 | +EPZ | 1842 16.8 | #-1370 |
| 24 | -EPZ | 0035 47.4 | | 28 | +EPcPZ | 1842 25.1 | #-1370 |
| 24 | -EPZ | 0316 0.0 | | 28 | +EPZ | 2108 26.6 | |
| 24 | -EPZ | 0458 50.0 | #-1354 | 29 | +EPZ | 0005 42.8 | |
| 24 | +EPZ | 1218 17.6 | #-1355 | 29 | -EPZ | 0707 55.2 | #-1371 |
| 24 | +EpPZ | 1218 25.0 | #-1355 | 29 | +EPZ | 0743 15.6 | #-1372 |
| 24 | -EPZ | 2016 46.0 | #-1356 | 29 | +EPKPdfZ | 0850 35.4 | #-1373 |
| 24 | +EPcPZ | 2016 50.0 | #-1356 | 29 | -EPZ | 1017 27.0 | #-1374 |
| 25 | -EPZ | 0015 26.0 | | 29 | +EPPZ | 1017 32.0 | #-1374 |
| 25 | -EPcPZ | 0518 18.2 | #-1357 | 29 | +EPZ | 1106 22.8 | |
| 25 | -EPcPZ | 0531 57.4 | #-1358 | 29 | -IPZ | 1703 35.4 | |
| 25 | +EpPZ | 1401 24.6 | #-1359 | 30 | +IPZ | 0428 2.2 | #-1375 |
| 25 | +EPZ | 2233 39.8 | | 30 | -EsPZ | 0428 50.8 | #-1375 |
| 25 | -EPZ | 2233 48.4 | | 30 | +EPZ | 0442 25.0 | #-1376 |
| 25 | +EPZ | 2340 5.0 | #-1360 | 30 | -EXZ | 0442 34.8 | #-1376 |
| 26 | -EPZ | 0057 2.8 | | 30 | +EPZ | 0751 42.6 | #-1377 |
| 26 | -EPZ | 0947 39.0 | #-1361 | 30 | +EpPZ | 0752 2.4 | #-1377 |
| 26 | -EPcPZ | 0947 40.4 | #-1361 | 30 | -IPZ | 0840 43.0 | #-1378 |
| 26 | -EPZ | 1446 55.0 | | 30 | -EpPZ | 0841 1.0 | #-1378 |
| 26 | +EPPZ | 1447 10.4 | #-1362 | 30 | +EPPZ | 0844 20.8 | #-1378 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|--------|----------|---------------|---------|------|----------|---------------|---------|
| 30 | -EPZ | 1129 0.0 | #-1379 | 6 | +EPZ | 1601 15.0 | #-1395 |
| 31 | +EPdinfZ | 1008 44.2 | #-1380 | 6 | -EPZ | 2048 39.2 | |
| 31 | +EpPZ | 1009 26.2 | #-1380 | 6 | -EPZ | 2109 35.0 | |
| Nov. 1 | -EPZ | 0619 0.0 | #-1381 | 6 | +IPZ | 2109 43.2 | |
| 1 | -IPZ | 0909 42.2 | #-1382 | 6 | ESH | 2120 17.8 | |
| 1 | -EPcPZ | 0909 50.8 | #-1382 | 7 | -EPZ | 0619 32.0 | #-1396 |
| 1 | -EPZ | 1925 11.0 | | 7 | +IPZ | 0635 11.0 | #-1397 |
| 2 | -IPZ | 0530 12.0 | #-1383 | 7 | -IPcPZ | 0635 12.4 | #-1397 |
| 2 | +EpPZ | 0530 29.6 | #-1383 | 7 | ESH | 0644 45.2 | #-1397 |
| 2 | -EPZ | 0937 17.0 | #-1384 | 7 | +EPZ | 0741 31.4 | |
| 3 | NIL | | | 7 | -EPZ | 0843 4.4 | #-1398 |
| 4 | +EPZ | 0632 12.0 | #-1385 | 7 | -EsPZ | 0843 10.2 | #-1398 |
| 4 | -EPZ | 1341 46.0 | #-1386 | 7 | +EPZ | 0929 4.0 | #-1399 |
| 4 | -EPPZ | 1345 19.8 | #-1386 | 7 | +EpPZ | 0929 22.2 | #-1399 |
| 4 | +EPZ | 1557 45.8 | #-1387 | 7 | -IPZ | 1337 9.5 | #-1400 |
| 4 | +EPcPZ | 1557 49.4 | #-1387 | 7 | +IPcPZ | 1337 22.6 | #-1400 |
| 4 | +IPZ | 1906 22.6 | #-1388 | 7 | ESH | 1346 43.0 | #-1400 |
| 4 | -IPcPZ | 1906 28.0 | #-1388 | 7 | +EPZ | 1454 52.8 | #-1401 |
| 4 | +EpPZ | 1906 50.4 | #-1388 | 7 | -EPcPZ | 1454 54.6 | #-1401 |
| 4 | ESH | 1916 11.0 | #-1388 | 7 | +EPZ | 1622 24.0 | #-1402 |
| 4 | +EPZ | 2149 0.6 | | 7 | -EpPZ | 1622 34.4 | #-1402 |
| 5 | +EPZ | 0211 14.0 | | 7 | +EPZ | 1652 48.0 | #-1403 |
| 5 | -EPZ | 0211 31.0 | | 7 | +EPcPZ | 1652 50.6 | #-1403 |
| 5 | +EpPZ | 0536 34.2 | #-1389 | 7 | -EPZ | 1751 39.0 | #-1404 |
| 5 | -EPZ | 0645 14.6 | #-1390 | 7 | -IsPZ | 1751 48.4 | #-1404 |
| 5 | -EPZ | 1643 9.0 | #-1391 | 7 | +EPZ | 1830 35.8 | #-1405 |
| 5 | -EXZ | 1733 20.0 | #-1392 | 7 | +EpPZ | 1830 48.2 | #-1405 |
| 5 | -EPZ | 2128 28.0 | | 7 | +EPZ | 1847 14.6 | #-1406 |
| 6 | +EPZ | 0113 3.0 | | 8 | +EPZ | 0310 8.8 | #-1407 |
| 6 | -EPZ | 0113 15.2 | | 8 | +EPZ | 0649 18.6 | #-1408 |
| 6 | +EPZ | 1133 22.5 | | 8 | -EPcPZ | 0649 19.8 | #-1408 |
| 6 | -EPZ | 1310 21.4 | #-1393 | 8 | +EPZ | 0739 42.2 | #-1409 |
| 6 | +IPZ | 1502 56.2 | #-1394 | 8 | +EPKiKPZ | 0842 0.6 | #-1410 |
| 6 | +IPcPZ | 1503 14.2 | #-1394 | 8 | +EPZ | 1252 52.6 | |
| 6 | ESH | 1512 12.6 | #-1394 | 8 | -EPZ | 1252 56.0 | |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|--------|---------------|---------|
| 8 | +EPKdZ | 1516 22.6 | #-1411 | 11 | -EPZ | 1523 28.8 | #-1423 |
| 8 | +EPKIKPZ | 1516 26.0 | #-1411 | 11 | -EPcPZ | 1523 32.0 | #-1423 |
| 8 | +EPZ | 1603 31.0 | #-1412 | 11 | -IsPZ | 1523 50.7 | #-1423 |
| 8 | -EpPZ | 1603 35.0 | #-1412 | 11 | ESH | 1534 47.2 | #-1423 |
| 8 | +EPZ | 1630 46.0 | | 11 | +EPZ | 1624 39.0 | #-1424 |
| 8 | +EPZ | 2110 8.4 | | 11 | +EPcPZ | 1624 41.6 | #-1424 |
| 8 | +EPZ | 2110 15.2 | | 11 | +EPZ | 1728 44.8 | #-1425 |
| 8 | ESH | 2119 43.0 | | 11 | -EpPZ | 1728 46.2 | #-1425 |
| 8 | +EPZ | 2131 17.0 | | 11 | +EPZ | 1906 53.2 | #-1426 |
| 8 | -EPZ | 2131 20.3 | | 11 | +EPZ | 2220 54.6 | |
| 8 | +EPZ | 0259 39.2 | | 11 | -EPZ | 2240 20.6 | #-1427 |
| 9 | -EPZ | 0549 2.2 | | 11 | -EPcPZ | 2240 23.3 | #-1427 |
| 9 | -EPZ | 1108 8.0 | #-1413 | 12 | +EPZ | 0529 40.3 | #-1428 |
| 9 | +EPZ | 1341 21.2 | | 12 | +EPcPZ | 0529 43.2 | #-1428 |
| 9 | -EPZ | 1424 29.4 | | 12 | +EPZ | 1048 14.0 | #-1429 |
| 9 | +EPZ | 1557 0.8 | #-1414 | 12 | +EPZ | 1415 31.2 | #-1430 |
| 9 | +EpPZ | 1557 28.4 | #-1414 | 12 | +IPZ | 1834 31.8 | #-1431 |
| 9 | +EPZ | 1607 49.2 | | 12 | -IpPZ | 1834 38.6 | #-1431 |
| 9 | +EPZ | 1607 54.4 | #-1415 | 12 | ESH | 1845 34.0 | #-1431 |
| 9 | +EPZ | 1651 31.2 | | 12 | +EPZ | 2147 5.0 | |
| 9 | +EPZ | 2324 35.3 | | 12 | +EPZ | 2252 10.0 | |
| 10 | +EPZ | 0517 48.2 | #-1416 | 13 | -IPZ | 0136 51.9 | |
| 10 | -EPZ | 0547 39.8 | #-1417 | 13 | +EPZ | 0304 34.0 | |
| 10 | +EPcPZ | 0547 43.0 | #-1417 | 13 | -EPZ | 0419 51.5 | #-1432 |
| 10 | -EPZ | 0625 37.0 | | 13 | -EPZ | 0420 14.6 | |
| 10 | +EPZ | 1753 1.2 | #-1418 | 13 | +EPZ | 0635 35.2 | #-1433 |
| 11 | +IPZ | 0037 26.2 | #-1419 | 13 | +EPcPZ | 0635 39.0 | #-1433 |
| 11 | -IPcPZ | 0037 29.8 | #-1419 | 13 | +EPZ | 0816 7.2 | |
| 11 | ESH | 0047 19.2 | #-1419 | 13 | +EPZ | 0904 43.4 | #-1434 |
| 11 | +EPZ | 0241 6.2 | #-1420 | 13 | -EpPZ | 0904 46.2 | #-1434 |
| 11 | -EPZ | 0243 10.2 | | 13 | +EPZ | 0941 27.0 | |
| 11 | ESH | 0250 35.6 | | 13 | -EPZ | 1133 20.3 | |
| 11 | +EPZ | 0425 43.3 | #-1421 | 13 | +EPZ | 1208 31.4 | #-1435 |
| 11 | +EPZ | 0734 12.4 | #-1422 | 13 | -EpPZ | 1210 38.0 | #-1435 |
| 11 | -EPcPZ | 0734 26.0 | #-1422 | 13 | +EPZ | 1347 16.0 | #-1436 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 13 | +EPcPZ | 1347 18.2 | #-1436 | 15 | -EXZ | 1154 20.8 | #-1448 |
| 13 | +EPZ | 1429 29.6 | #-1437 | 15 | +IPZ | 1200 17.6 | |
| 13 | +EPZ | 1441 36.2 | #-1438 | 15 | +IPKiKPZ | 1200 28.0 | #-1449 |
| 13 | -EPPZ | 1443 43.4 | #-1438 | 15 | +EPZ | 1211 43.8 | |
| 13 | +IPZ | 1625 35.0 | #-1439 | 15 | +EPKPdfZ | 1212 29.4 | #-1450 |
| 13 | -IPcPZ | 1625 36.5 | #-1439 | 15 | -EXZ | 1228 42.0 | #-1451 |
| 13 | ESH | 1636 25.0 | #-1439 | 15 | +EPZ | 1235 28.6 | |
| 13 | +EPZ | 1650 6.2 | #-1440 | 15 | -EPKPdfZ | 1236 12.4 | #-1452 |
| 13 | -EPZ | 2158 10.6 | | 15 | +EPKPdfZ | 1245 44.8 | #-1453 |
| 13 | -EPZ | 2158 22.6 | | 15 | +EPdifZ | 1245 13.2 | #-1454 |
| 13 | +EPZ | 2209 25.3 | | 15 | -EPZ | 1349 15.6 | |
| 14 | +EPZ | 0127 43.6 | | 15 | +EPKPdfZ | 1357 52.5 | #-1455 |
| 14 | -EPZ | 0127 50.6 | | 15 | +EPZ | 1416 45.1 | |
| 14 | +EPZ | 0403 4.6 | | 15 | +EPKPdfZ | 1531 24.4 | #-1456 |
| 14 | +EPZ | 0650 23.3 | | 15 | +EPKPdfZ | 1539 0.3 | #-1457 |
| 14 | +EPZ | 0650 28.8 | | 15 | -EPKiKPZ | 1539 6.0 | #-1457 |
| 14 | -EPZ | 0653 28.0 | #-1441 | 15 | +EXZ | 1623 45.0 | #-1458 |
| 14 | +EPZ | 1101 37.3 | #-1442 | 15 | -EXZ | 1944 50.4 | #-1459 |
| 14 | -IpPZ | 1101 56.4 | #-1442 | 15 | +EPZ | 1958 24.2 | |
| 14 | -IPZ | 1432 50.0 | #-1443 | 15 | -EPZ | 2120 18.0 | |
| 14 | ESH | 1442 40.0 | #-1443 | 15 | -EPZ | 2141 46.5 | |
| 14 | +EPZ | 2009 16.8 | #-1444 | 15 | +EPKPdfZ | 2154 44.4 | #-1460 |
| 14 | -EpPZ | 2009 21.4 | #-1444 | 16 | +EPZ | 0042 24.4 | #-1461 |
| 14 | -EPZ | 2233 38.2 | | 16 | +EPZ | 0120 47.2 | |
| 14 | -IPZ | 2233 40.8 | | 16 | +EPZ | 0120 52.9 | |
| 14 | ESH | 2243 53.2 | | 16 | +EPKiKPZ | 0138 8.0 | #-1462 |
| 14 | +EPZ | 2315 27.0 | | 16 | +EPZ | 0639 42.8 | |
| 15 | +EPZ | 0102 43.3 | | 16 | -EPKPdfZ | 0639 49.6 | #-1463 |
| 15 | +EPZ | 0102 46.4 | | 16 | -EPKPdfZ | 0651 34.0 | #-1464 |
| 15 | +EPZ | 0405 36.0 | #-1445 | 16 | +EPZ | 0718 46.0 | |
| 15 | -EPZ | 1009 9.8 | | 16 | +EPKPdfZ | 0857 8.6 | #-1465 |
| 15 | -EPPZ | 1059 54.9 | #-1446 | 16 | -EPZ | 0949 41.0 | #-1466 |
| 15 | +EPZ | 1133 32.2 | | 16 | -EPZ | 1129 3.3 | #-1467 |
| 15 | -IPKPdfZ | 1133 42.0 | #-1447 | 16 | -EpPZ | 1129 6.2 | #-1467 |
| 15 | +EPZ | 1148 36.6 | | 16 | +EPZ | 1253 23.4 | #-1468 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 16 | -EPcPZ | 1253 25.4 | #-1468 | 18 | ESH | 1420 29.5 | #-1484 |
| 16 | -EXZ | 1542 33.0 | #-1469 | 18 | -EPZ | 2157 37.0 | #-1485 |
| 16 | +EPZ | 1617 46.0 | | 18 | +EPcPZ | 2157 42.0 | #-1485 |
| 16 | -EPZ | 1617 47.6 | | 18 | +EPZ | 2250 22.2 | |
| 16 | -EPZ | 1640 18.2 | | 19 | -EPZ | 0201 21.5 | |
| 16 | -EPZ | 1651 12.2 | | 19 | -IPZ | 0201 33.0 | |
| 16 | -EPZ | 1928 10.7 | | 19 | -EPZ | 0239 55.6 | #-1486 |
| 16 | -EPZ | 2038 15.5 | | 19 | +EPZ | 0242 2.0 | #-1487 |
| 16 | -EPZ | 2038 30.8 | | 19 | +EPZ | 0932 46.0 | #-1488 |
| 16 | +EPKPdfZ | 2335 35.8 | #-1470 | 19 | +EPcPZ | 0932 48.2 | #-1488 |
| 17 | +EPZ | 0020 33.4 | | 19 | +EPZ | 0947 22.0 | #-1489 |
| 17 | +EPZ | 0214 47.5 | #-1471 | 19 | +EpPZ | 0947 43.2 | #-1489 |
| 17 | -EXZ | 0429 20.3 | #-1472 | 19 | -EPZ | 1040 41.4 | #-1490 |
| 17 | +EXZ | 0432 30.0 | #-1472 | 19 | +EPKPdfZ | 1536 24.2 | #-1491 |
| 17 | +EXZ | 0653 15.3 | #-1473 | 19 | +EPZ | 1624 17.6 | |
| 17 | +EXZ | 0852 16.6 | #-1474 | 19 | +EPZ | 1712 11.0 | |
| 17 | +EXZ | 0855 31.0 | #-1474 | 19 | +EPZ | 1712 18.6 | |
| 17 | +EPZ | 0938 14.4 | #-1475 | 19 | -EPZ | 1748 23.0 | #-1492 |
| 17 | +EpPZ | 0938 18.4 | #-1475 | 19 | +EPZ | 1802 12.0 | |
| 17 | +EXZ | 1017 36.0 | #-1476 | 19 | +EPZ | 2017 55.6 | |
| 17 | -EPZ | 1044 44.8 | | 19 | -EPZ | 2018 27.2 | |
| 17 | -EPKPdfZ | 1249 49.8 | #-1477 | 20 | -EPZ | 0341 20.2 | |
| 17 | -EPZ | 1448 36.0 | #-1478 | 20 | +EPKPdfZ | 0547 0.5 | #-1493 |
| 17 | +EPZ | 1713 8.6 | | 20 | -EPZ | 1026 37.8 | #-1494 |
| 17 | -EPKPdfZ | 1821 53.2 | #-1479 | 20 | +EPZ | 1026 49.6 | |
| 17 | +EPZ | 2353 54.4 | | 20 | +EPZ | 1027 13.2 | |
| 18 | -EPZ | 0135 12.8 | #-1480 | 20 | -EPZ | 1450 34.6 | #-1495 |
| 18 | +EPcPZ | 0135 14.7 | #-1480 | 20 | ESH | 1500 40.5 | #-1495 |
| 18 | -EPZ | 0315 44.4 | #-1481 | 20 | +EPZ | 1944 6.5 | #-1496 |
| 18 | +EPKPdfZ | 0910 27.0 | #-1482 | 20 | +EpPZ | 1944 13.0 | #-1496 |
| 18 | -EPZ | 1039 13.8 | | 20 | +EPZ | 2024 45.2 | #-1497 |
| 18 | +EPZ | 1407 41.8 | #-1483 | 20 | +EpPZ | 2024 49.8 | #-1497 |
| 18 | -EpPZ | 1407 53.8 | #-1483 | 20 | -EPcPZ | 2026 13.7 | #-1497 |
| 18 | +EPZ | 1410 13.0 | #-1484 | 20 | +EPZ | 2040 10.8 | |
| 18 | +EPcPZ | 1410 19.8 | #-1484 | 20 | -EPKPdfZ | 2325 23.8 | #-1498 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|-----------|---------------|---------|
| 21 | -IPZ | 0845 34.5 | #-1499 | 25 | +EXZ | 1613 33.8 | #-1515 |
| 21 | +EPcPZ | 0845 36.7 | #-1499 | 25 | +EpPZ | 1613 51.6 | #-1515 |
| 21 | +EPKPdfZ | 0929 21.6 | #-1500 | 25 | +EPZ | 1643 51.3 | |
| 21 | +EPZ | 1510 38.2 | | 25 | +EPZ | 1720 33.5 | |
| 21 | +EXZ | 2349 32.2 | #-1501 | 25 | +EPZ | 1902 37.5 | #-1516 |
| 22 | +EPZ | 0334 31.8 | #-1502 | 26 | -EPZ | 0012 13.8 | |
| 22 | +EPZ | 0528 54.7 | #-1503 | 26 | -EPZ | 0435 30.0 | |
| 22 | +EpPZ | 0528 56.5 | #-1503 | 26 | -EPZ | 1255 29.1 | |
| 22 | +EPKPdfZ | 1134 20.0 | #-1504 | 26 | -EPZ | 1747 41.0 | #-1517 |
| 23 | +EPZ | 1015 57.3 | | 26 | -IpPZ | 1747 52.1 | #-1517 |
| 23 | +EPKPdfZ | 1123 26.6 | #-1505 | 26 | ESH | 1757 9.0 | #-1517 |
| 23 | -EpPKPdfZ | 1123 33.6 | #-1505 | 26 | +EPZ | 1925 42.5 | |
| 23 | -EPZ | 1357 49.2 | | 26 | +EPZ | 2336 45.0 | #-1518 |
| 23 | +EPZ | 1432 32.4 | | 26 | -EPcPZ | 2336 49.6 | #-1518 |
| 23 | +EXZ | 1529 20.6 | #-1506 | 26 | +EPZ | 2338 45.4 | |
| 23 | -EPZ | 1619 47.4 | | 27 | +EPZ | 0304 51.2 | |
| 24 | +EPZ | 0645 45.3 | #-1507 | 27 | +EPZ | 0752 16.6 | |
| 24 | +EpPZ | 0645 55.0 | #-1507 | 27 | -EPZ | 1001 13.8 | #-1519 |
| 24 | -EPZ | 1244 13.8 | | 27 | -EPZ | 1049 21.0 | #-1520 |
| 24 | -EPZ | 1244 20.8 | | 27 | -EpPZ | 1049 40.2 | #-1520 |
| 24 | -EPZ | 1516 43.4 | #-1508 | 27 | +EPZ | 1213 42.8 | #-1521 |
| 24 | -EXZ | 1517 16.6 | #-1508 | 27 | -EPcPZ | 1213 45.4 | #-1521 |
| 24 | -EXZ | 1553 33.0 | #-1509 | 27 | -EPZ | 1743 56.4 | #-1522 |
| 24 | +EPZ | 1723 50.0 | #-1510 | 27 | -IPcPZ | 1743 57.6 | #-1522 |
| 24 | -IPZ | 1725 28.2 | | 27 | ESH | 1754 4.3 | #-1522 |
| 24 | +EPZ | 1927 4.2 | #-1511 | 27 | -EPZ | 2211 4.7 | |
| 24 | +EPcPZ | 1927 14.3 | #-1511 | 28 | +EPZ | 0033 41.0 | |
| 24 | +EPZ | 2027 32.8 | | 28 | +EPZ | 0248 18.0 | |
| 24 | +EPKPdfZ | 2121 52.5 | #-1512 | 28 | +EPZ | 0421 21.0 | |
| 25 | +EPZ | 0007 43.0 | | 28 | -EPZ | 0437 37.3 | |
| 25 | +EPZ | 0703 49.4 | | 28 | +EPZ | 0716 9.5 | #-1523 |
| 25 | -EPZ | 0917 58.6 | #-1513 | 28 | -EPZ | 0716 18.8 | |
| 25 | -EPcPZ | 0918 1.4 | #-1513 | 28 | -EXZ | 0821 19.0 | #-1524 |
| 25 | +EPZ | 1220 6.8 | | 28 | -EpPKPdfZ | 0821 26.4 | #-1524 |
| 25 | +EPZ | 1527 46.6 | #-1514 | 28 | +EPPZ | 0824 26.8 | #-1524 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|--------|----------|---------------|---------|
| 28 | +EPZ | 1405 45.0 | | 30 | +IpPZ | 2129 59.0 | #-1533 |
| 28 | +EPZ | 1713 17.2 | | 30 | +EPZ | 2350 16.4 | |
| 28 | -EPZ | 1905 43.0 | #-1525 | Dec. 1 | +EPZ | 0304 36.6 | |
| 28 | +EPZ | 2228 40.4 | | 1 | +EPZ | 0410 22.8 | #-1534 |
| 29 | +EPZ | 0101 14.0 | #-1526 | 1 | -IPcPZ | 0410 26.5 | #-1534 |
| 29 | -EPcPZ | 0101 16.8 | #-1526 | 1 | -IpPZ | 0411 14.2 | #-1534 |
| 29 | +EPZ | 0119 54.8 | | 1 | ESH | 0420 20.6 | #-1534 |
| 29 | -EPZ | 0145 21.5 | | 1 | -EPZ | 0439 49.6 | |
| 29 | ESH | 0155 46.6 | | 1 | -EPZ | 0936 39.0 | #-1535 |
| 29 | -EPZ | 0202 24.0 | | 1 | +EpPZ | 0937 5.6 | #-1535 |
| 29 | +EPZ | 0854 0.4 | #-1527 | 1 | -EPKiKPZ | 1330 20.3 | #-1536 |
| 29 | +EPcPZ | 0854 2.4 | #-1527 | 1 | -IPZ | 1413 44.5 | #-1537 |
| 29 | -EPZ | 0903 15.5 | | 1 | -IPcPZ | 1413 50.0 | #-1537 |
| 29 | -EPZ | 0943 35.3 | | 1 | ESH | 1423 44.0 | #-1537 |
| 29 | +EPZ | 0943 41.6 | | 1 | +EPZ | 1706 50.8 | |
| 29 | +EPKPdfZ | 1558 0.7 | #-1528 | 2 | -EPZ | 0453 26.0 | #-1538 |
| 29 | +EpPKPdfZ | 1558 3.3 | #-1528 | 2 | +EPZ | 0609 1.4 | |
| 29 | +EPZ | 1619 17.8 | | 2 | +EpPZ | 0640 8.6 | #-1539 |
| 29 | -IPZ | 1821 33.5 | #-1529 | 2 | +EPZ | 0912 12.2 | |
| 29 | -IPcPZ | 1821 34.7 | #-1529 | 2 | -EPZ | 0944 22.8 | #-1540 |
| 29 | -IPZ | 2319 39.3 | #-1530 | 2 | -EPZ | 1004 56.6 | #-1541 |
| 29 | ESH | 2329 6.0 | #-1530 | 2 | +IpPZ | 1005 30.2 | |
| 29 | +EPZ | 2339 47.0 | | 2 | +EPcPZ | 1616 19.5 | #-1542 |
| 30 | -EPZ | 0104 49.6 | | 2 | +EpPZ | 1616 31.0 | #-1542 |
| 30 | -EXZ | 0159 11.6 | #-1531 | 2 | +EPZ | 1642 6.4 | |
| 30 | +EPZ | 0728 1.6 | | 3 | +EPZ | 0023 20.0 | |
| 30 | +EPZ | 0728 13.5 | | 3 | -EPZ | 0219 51.4 | #-1543 |
| 30 | -EPZ | 1145 57.0 | #-1532 | 3 | +EpPZ | 0220 4.0 | #-1543 |
| 30 | +IPcPZ | 1146 1.1 | #-1532 | 3 | -EPKPdfZ | 0512 12.6 | #-1544 |
| 30 | -IpPZ | 1146 4.1 | #-1532 | 3 | -EPZ | 0805 14.8 | #-1545 |
| 30 | +EpPKiKPZ | 1151 10.4 | #-1532 | 3 | +EPZ | 1103 6.4 | |
| 30 | +EPZ | 1418 16.0 | | 3 | +EPZ | 1256 18.5 | #-1546 |
| 30 | -EPZ | 1653 40.6 | | 3 | +EPZ | 1510 6.8 | |
| 30 | -EPZ | 1653 50.0 | | 3 | -EpPZ | 1934 15.7 | #-1547 |
| 30 | +EPZ | 2129 54.8 | #-1533 | 3 | +EsPZ | 1934 17.0 | #-1547 |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|----------|---------------|---------|------|----------|---------------|---------|
| 3 | +EPcPZ | 1936 38.0 | #-1547 | 9 | -EPZ | 1510 30.0 | |
| 3 | -EPZ | 2030 21.6 | | 9 | +EPZ | 1519 11.4 | |
| 4 | -EPZ | 0519 11.5 | | 9 | +EPKPdfZ | 1731 33.0 | #-1561 |
| 4 | -EPcPZ | 0633 50.0 | #-1548 | 9 | +EPKpbZ | 1731 35.8 | #-1561 |
| 4 | +EPKiKPZ | 0933 26.2 | #-1549 | 9 | +EPZ | 2204 47.4 | |
| 4 | +EPZ | 1009 37.4 | | 10 | +EXZ | 0054 51.5 | #-1562 |
| 4 | -EPZ | 1910 30.4 | | 10 | ESH | 0104 50.2 | #-1562 |
| 4 | +EPZ | 1910 38.8 | | 10 | -EPZ | 0534 54.0 | #-1563 |
| 5 | +EPZ | 0118 12.5 | | 10 | -EpPZ | 0535 3.6 | #-1563 |
| 5 | -EPZ | 0356 30.0 | | 10 | +EPZ | 2013 25.4 | |
| 5 | -EPZ | 0507 7.0 | | 10 | +EPZ | 2215 46.0 | |
| 5 | -EPZ | 0654 57.8 | #-1550 | 10 | +EPZ | 2355 24.9 | |
| 5 | -EPZ | 0721 31.0 | | 11 | +EPZ | 1002 28.4 | |
| 5 | -EPZ | 0750 16.0 | | 12 | +EPZ | 0950 47.0 | #-1564 |
| 5 | +EPZ | 0851 5.0 | #-1551 | 12 | +IPZ | 1600 46.2 | #-1565 |
| 5 | +EPcPZ | 0851 8.6 | #-1551 | 12 | +IPcPZ | 1600 47.9 | #-1565 |
| 5 | +EPZ | 1047 2.0 | | 12 | ESH | 1611 25.6 | #-1565 |
| 6 | +EPZ | 0353 38.0 | | 12 | -EPZ | 1653 39.6 | #-1566 |
| 6 | +EPZ | 0505 1.0 | #-1552 | 12 | +EPcPZ | 1653 48.3 | #-1566 |
| 6 | +EPZ | 0946 10.4 | #-1553 | 12 | +EPZ | 2319 3.2 | |
| 6 | +EPcPZ | 0946 13.6 | #-1553 | 12 | +EPZ | 2351 3.5 | |
| 6 | +EPZ | 1219 2.8 | #-1554 | 13 | +EPZ | 0533 55.0 | #-1567 |
| 6 | -EpPZ | 1219 12.6 | #-1554 | 13 | +EpPZ | 1125 2.8 | #-1568 |
| 6 | -EPZ | 2048 39.4 | #-1555 | 13 | +EXZ | 1200 23.3 | #-1569 |
| 6 | -EpPZ | 2048 41.6 | #-1555 | 13 | +EPZ | 1235 6.8 | |
| 7 | -EPZ | 1114 38.0 | #-1556 | 13 | +EPcPZ | 1459 25.3 | #-1570 |
| 7 | +EpPZ | 1115 2.6 | #-1556 | 13 | -EpPZ | 1459 31.2 | #-1570 |
| 7 | -IPZ | 2057 13.8 | | 13 | +EPZ | 1910 38.5 | |
| 8 | +EPZ | 0206 9.0 | | 14 | +EPZ | 0248 15.6 | |
| 8 | +EPZ | 1214 40.0 | | 14 | +EPZ | 0740 19.0 | |
| 8 | -EPZ | 1833 43.6 | | 14 | -EPKPdfZ | 0802 32.4 | #-1571 |
| 8 | +EPZ | 1937 43.6 | #-1557 | 14 | -EPKPdfZ | 1105 53.6 | #-1572 |
| 9 | +EPZ | 0728 24.6 | #-1558 | 14 | -EPZ | 1732 38.0 | #-1573 |
| 9 | +EPZ | 0937 8.6 | #-1559 | 14 | -EsPZ | 1732 49.0 | #-1573 |
| 9 | +EpPZ | 1001 41.6 | #-1560 | 14 | -EPcPZ | 1733 33.2 | #-1573 |

Table 1. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|--------|---------------|---------|------|----------|---------------|---------|
| 15 | +EPZ | 1718 29.6 | #-1574 | 22 | +EPZ | 1403 50.2 | #-1585 |
| 16 | -EPZ | 0008 38.6 | | 22 | -IPcPZ | 1403 52.0 | #-1585 |
| 16 | +EPZ | 0200 24.6 | | 22 | ESH | 1413 54.0 | #-1585 |
| 16 | +EPZ | 1302 24.0 | | 22 | -EPZ | 2003 30.4 | |
| 17 | +EXZ | 0307 19.0 | #-1575 | 22 | -IPZ | 2003 33.0 | |
| 17 | -EpPZ | 0917 31.4 | #-1576 | 22 | ESH | 2014 9.4 | |
| 17 | -EPZ | 1252 50.8 | #-1577 | 22 | -EPZ | 2359 25.2 | |
| 17 | +EPcPZ | 1252 52.4 | #-1577 | 23 | -EPZ | 0202 9.0 | |
| 17 | -EPZ | 1303 51.0 | #-1578 | 23 | -EPZ | 0203 32.0 | |
| 17 | +IPcPZ | 1303 52.0 | #-1578 | 23 | +EPZ | 0345 28.8 | #-1586 |
| 17 | -IpPZ | 1304 3.4 | #-1578 | 23 | +EPZ | 0936 19.5 | |
| 17 | ESH | 1314 41.4 | #-1578 | 23 | +EPZ | 0936 25.2 | |
| 17 | -EPZ | 1316 12.6 | | 23 | +EPcPZ | 1107 44.2 | #-1587 |
| 18 | +IPZ | 0353 42.6 | #-1579 | 23 | -EPZ | 1715 44.8 | #-1588 |
| 18 | +EPZ | 0632 57.4 | | 23 | -EXZ | 1719 18.8 | #-1588 |
| 18 | +EPZ | 1039 50.8 | #-1580 | 23 | +EPZ | 1849 25.4 | |
| 18 | -EPZ | 1039 53.8 | #-1580 | 23 | +EPZ | 2311 18.2 | |
| 18 | -EPZ | 1437 11.0 | | 23 | -EPZ | 2311 24.6 | |
| 18 | -EPZ | 2359 20.5 | | 24 | -IPZ | 0520 47.6 | #-1589 |
| 19 | +EPZ | 0226 5.0 | | 24 | -IpPZ | 0521 4.4 | #-1589 |
| 19 | -EPZ | 0648 8.0 | | 24 | -EPZ | 0740 17.6 | #-1590 |
| 19 | +EPZ | 0831 31.4 | | 24 | -EpPZ | 0740 28.8 | #-1590 |
| 19 | +EPZ | 1300 26.0 | #-1581 | 24 | +IPZ | 0812 14.6 | #-1591 |
| 19 | +EPZ | 2011 12.5 | #-1582 | 24 | +EXZ | 0815 21.0 | #-1591 |
| 19 | -EpPZ | 2011 13.8 | #-1582 | 24 | ESH | 0821 29.3 | #-1591 |
| 19 | +EPZ | 2305 47.0 | | 24 | +EPZ | 0959 20.6 | #-1592 |
| 20 | +EPZ | 2205 38.4 | | 24 | -EPcPZ | 0959 24.8 | #-1592 |
| 20 | +EPZ | 0009 42.4 | #-1583 | 24 | +EPZ | 1415 5.0 | |
| 21 | +EPZ | 0233 7.7 | | 24 | -EPKPbcZ | 1446 7.3 | #-1593 |
| 21 | -EPZ | 1209 50.0 | | 24 | -EPKPabZ | 1446 21.2 | #-1593 |
| 21 | -EPZ | 1647 6.3 | #-1584 | 24 | +EPZ | 1632 6.0 | |
| 22 | +EPZ | 0345 22.6 | | 24 | +EPZ | 1632 8.4 | |
| 22 | -EPZ | 1105 10.4 | | 24 | +EPZ | 1752 10.8 | #-1594 |
| 22 | -EPZ | 1118 52.8 | | 24 | +EPZ | 2009 34.4 | #-1595 |
| 22 | -EpPZ | 1119 37.0 | | 25 | +EPZ | 0033 7.2 | |

Table I. Continued.

| Date | Phase | Time h m s | Remarks | Date | Phase | Time h m s | Remarks |
|------|-----------|---------------|---------|------|----------|---------------|---------|
| 25 | +EPZ | 0702 39.8 | | 30 | +EPZ | 0824 49.3 | |
| 25 | +EPZ | 0702 42.4 | | 30 | +EPZ | 0824 52.2 | |
| 25 | +EPZ | 1037 22.8 | #-1596 | 30 | -EPZ | 0843 12.8 | |
| 25 | +EPZ | 1503 2.0 | | 30 | +EPZ | 0843 29.4 | |
| 26 | +EPZ | 0123 17.4 | | 30 | +EPKpPfZ | 2253 54.8 | #-1605 |
| 26 | +IPZ | 0123 20.0 | | 30 | -EPKiKPZ | 2253 56.2 | #-1605 |
| 26 | -EPZ | 0545 50.0 | | 31 | -EPZ | 1059 52.6 | |
| 26 | +EPZ | 0644 31.6 | #-1597 | 31 | +EPZ | 1110 24.3 | |
| 26 | +EPcPZ | 0644 42.2 | #-1597 | 31 | +EPZ | 1324 20.6 | #-1606 |
| 26 | -EPZ | 0737 42.6 | #-1598 | 31 | +EpPZ | 1342 33.0 | #-1607 |
| 26 | +EpPZ | 0737 46.1 | #-1598 | 31 | -EPZ | 1505 19.2 | #-1608 |
| 26 | -EPdiffZ | 1240 37.6 | #-1599 | 31 | -lpPZ | 1505 23.0 | #-1608 |
| 26 | +EpPdiffZ | 1240 41.2 | #-1599 | | | | |
| 26 | +EPZ | 1253 10.2 | | | | | |
| 26 | +EPdiffZ | 1254 38.8 | #-1600 | | | | |
| 26 | +EPZ | 1257 3.4 | | | | | |
| 26 | ESH | 1308 7.8 | | | | | |
| 26 | +EPZ | 1539 13.0 | | | | | |
| 26 | -EPKiKPZ | 1539 25.0 | #-1601 | | | | |
| 26 | -EPZ | 2137 43.0 | | | | | |
| 26 | +EPZ | 2246 19.8 | | | | | |
| 26 | +EPZ | 2309 29.0 | #-1602 | | | | |
| 27 | +EPZ | 0444 27.0 | | | | | |
| 27 | -EPZ | 0618 17.8 | | | | | |
| 27 | +EXZ | 0930 2.8 | #-1603 | | | | |
| 27 | -Espz | 0930 22.2 | #-1603 | | | | |
| 27 | +EPZ | 1412 53.2 | | | | | |
| 27 | +IPZ | 2028 12.3 | #-1604 | | | | |
| 27 | ESH | 2038 9.0 | #-1604 | | | | |
| 28 | +EPZ | 0149 22.0 | | | | | |
| 28 | +EPZ | 0149 23.8 | | | | | |
| 28 | -EPZ | 0511 49.0 | | | | | |
| 28 | +EPZ | 1116 5.8 | | | | | |
| 28 | -EPZ | 1429 28.2 | | | | | |
| 29 | +EPZ | 0638 23.8 | | | | | |

Table 2. List of hypocenters of teleseismic events detected at Syowa Station.
The total number of events is 1608.

| No. | Date | Origin time | | | Geographic Coordinates | | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|------|------|--------------|-------------------|--------------------|------------------------|----------|---------------|-----------|-----|---------------------------------|-------------------------------------|
| | | UTC h m s | Latitude (deg) | Longitude (deg) | Mb | Ms | | | | | |
| #-1 | 1/1 | 7 | 11 | 56.9 | 31.389 | 140.128 | 11 | 5.2 | 5.1 | 123.04 | IZU ISLANDS, JAPAN REGION |
| #-2 | 1/1 | 8 | 47 | 13.0 | 4.718 | 95.125 | 50 | 5.7 | 5.0 | 82.98 | NORTHERN SUMATRA, INDONESIA |
| #-3 | 1/1 | 9 | 43 | 14.6 | 11.820 | -71.206 | 68 | 5.0 | - | 108.20 | NEAR THE COAST OF VENEZUELA |
| #-4 | 1/1 | 10 | 36 | 29.0 | -32.467 | -71.549 | 62 | 4.5 | - | 66.73 | OFFSHORE VALPARAISO, CHILE |
| #-5 | 1/1 | 19 | 32 | 33.1 | -7.138 | 129.499 | 100 | 5.2 | - | 83.51 | KEPULAUAN BABAR, INDONESIA |
| #-6 | 1/1 | 21 | 56 | 36.8 | -36.908 | 177.894 | 100 | 5.1 | - | 69.83 | OFF E COAST OF N ISL, N.Z. |
| #-7 | 1/2 | 1 | 1 | 24.6 | 12.411 | 144.313 | 35 | 5.7 | 5.2 | 107.04 | GUAM REGION |
| #-8 | 1/2 | 4 | 6 | 7.4 | -20.576 | -178.952 | 624 | 5.1 | - | 86.35 | FIJI REGION |
| #-9 | 1/2 | 6 | 10 | 49.3 | -60.807 | -21.474 | 10 | 6.5 | 7.3 | 25.69 | EAST OF THE SOUTH SANDWICH ISL. |
| #-10 | 1/2 | 12 | 1 | 46.2 | -4.891 | 152.376 | 62 | 5.4 | - | 93.55 | NEW BRITAIN REG, P.N.G. |
| #-11 | 1/2 | 22 | 13 | 40.3 | -19.926 | -178.169 | 583 | 6.4 | - | 87.14 | FIJI REGION |
| #-12 | 1/3 | 0 | 40 | 48.4 | -19.808 | -178.039 | 577 | 5.2 | - | 87.28 | FIJI REGION |
| #-13 | 1/3 | 4 | 25 | 27.0 | -19.914 | -178.121 | 587 | 5.0 | - | 87.16 | FIJI REGION |
| #-14 | 1/3 | 10 | 53 | 4.7 | 51.520 | -168.167 | 11 | 5.3 | 4.6 | 158.31 | FOX ISL, ALEUTIAN ISL, ALASKA |
| #-15 | 1/3 | 17 | 58 | 36.2 | 4.585 | 125.577 | 163 | 5.0 | - | 93.05 | KEPULAUAN SANGIHE, INDONESIA |
| #-16 | 1/4 | 1 | 5 | 8.7 | 27.955 | -112.156 | 10 | 5.0 | 4.6 | 135.63 | GULF OF CALIFORNIA |
| #-17 | 1/4 | 3 | 10 | 40.2 | -18.589 | 168.963 | 227 | 4.8 | - | 85.44 | VANUATU |
| #-18 | 1/4 | 8 | 32 | 31.5 | 28.077 | -112.096 | 14 | 6.2 | 6.7 | 135.74 | GULF OF CALIFORNIA |
| #-19 | 1/4 | 13 | 1 | 33.1 | -22.836 | -66.106 | 244 | 4.8 | - | 73.96 | JUJUY, ARGENTINA |
| #-20 | 1/7 | 2 | 23 | 43.2 | 52.408 | 173.592 | 30 | 5.7 | 4.9 | 153.28 | NEAR ISL, ALEUTIAN ISL, ALASKA |
| #-21 | 1/7 | 13 | 31 | 13.0 | -38.130 | 177.480 | 50 | 4.0 | - | 68.56 | NORTH ISLAND OF NEW ZEALAND |
| #-22 | 1/7 | 18 | 55 | 38.6 | 56.352 | -157.447 | 60 | 5.3 | - | 165.37 | ALASKA PENINSULA |
| #-23 | 1/7 | 19 | 52 | 0.9 | -23.030 | -66.160 | 264 | 4.5 | - | 73.80 | JUJUY, ARGENTINA |
| #-24 | 1/8 | 3 | 51 | 47.1 | -11.916 | 65.956 | 10 | 4.7 | - | 59.65 | MID-INDIAN RIDGE |
| #-25 | 1/8 | 11 | 34 | 55.5 | 36.301 | 23.358 | 66 | 6.5 | - | 105.95 | SOUTHERN GREECE |
| #-26 | 1/8 | 23 | 9 | 27.9 | -24.417 | 179.983 | 441 | 4.5 | - | 82.38 | SOUTH OF THE FIJI ISLANDS |
| #-27 | 1/9 | 20 | 59 | 37.5 | -6.154 | 29.476 | 23 | 5.1 | - | 63.17 | LAKE TANGANYIKA REG, CONGO-TANZANIA |
| #-28 | 1/10 | 3 | 14 | 41.1 | 6.624 | -72.842 | 162 | 5.1 | - | 103.89 | NORTHERN COLOMBIA |
| #-29 | 1/11 | 3 | 44 | 0.8 | 2.620 | 125.810 | 136 | 4.3 | - | 91.30 | KEPULAUAN SANGIHE, INDONESIA |
| #-30 | 1/11 | 7 | 34 | 57.9 | 0.000 | 97.814 | 30 | 5.1 | - | 79.31 | NIAS REGION, INDONESIA |
| #-31 | 1/11 | 19 | 23 | 27.2 | -20.344 | -178.245 | 507 | 4.8 | - | 86.72 | FIJI REGION |
| #-32 | 1/11 | 21 | 48 | 19.4 | 30.355 | 138.196 | 441 | 4.3 | - | 121.41 | IZU ISLANDS, JAPAN REGION |
| #-33 | 1/12 | 9 | 34 | 59.3 | 9.808 | 57.736 | 10 | 4.5 | - | 79.91 | CARLSBERG RIDGE |
| #-34 | 1/12 | 13 | 36 | 12.1 | 1.110 | 97.260 | 30 | 4.7 | - | 80.19 | NIAS REGION, INDONESIA |
| #-35 | 1/13 | 3 | 34 | 20.8 | -20.557 | -178.627 | 587 | 4.4 | - | 86.43 | FIJI REGION |
| #-36 | 1/13 | 7 | 42 | 56.9 | -6.541 | 128.547 | 350 | 4.3 | - | 83.73 | BANDA SEA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-------------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-37 | 1/13 | 9 | 17 | 56.9 | -17.791 | -173.188 | 10 | 5.2 | - | 90.19 | TONGA |
| #-38 | 1/13 | 10 | 49 | 49.1 | 1.047 | 97.407 | 4 | 5.1 | 4.4 | 80.18 | NIAS REGION, INDONESIA |
| #-39 | 1/13 | 12 | 46 | 12.6 | -16.556 | -172.822 | 44 | 5.1 | - | 91.47 | SAMOA ISLANDS REGION |
| #-40 | 1/13 | 14 | 47 | 29.4 | 4.863 | 94.738 | 43 | 5.1 | - | 83.00 | OFF WEST COAST OF N SUMATRA |
| #-41 | 1/13 | 17 | 19 | 45.1 | -58.204 | -139.659 | 10 | 5.0 | - | 52.78 | PACIFIC-ANTARCTIC RIDGE |
| #-42 | 1/13 | 22 | 47 | 26.4 | 1.383 | 97.135 | 44 | 5.0 | - | 80.41 | NIAS REGION, INDONESIA |
| #-43 | 1/13 | 23 | 53 | 49.5 | 0.072 | 101.877 | 25 | 4.7 | - | 80.67 | NORTHERN SUMATRA, INDONESIA |
| #-44 | 1/14 | 1 | 34 | 54.0 | -24.095 | -66.838 | 200 | 4.1 | - | 73.03 | SALTA, ARGENTINA |
| #-45 | 1/14 | 4 | 39 | 47.3 | -41.093 | -91.334 | 10 | 4.6 | - | 63.97 | SOUTHEAST OF EASTER ISLAND |
| #-46 | 1/14 | 8 | 58 | 10.9 | -54.539 | 1.535 | 10 | 4.5 | - | 22.27 | BOLUVET ISLAND REGION |
| #-47 | 1/14 | 16 | 55 | 17.0 | -45.636 | -77.316 | 35 | 4.7 | - | 56.19 | OFF COAST OF AISEN, CHILE |
| #-48 | 1/15 | 3 | 4 | 37.9 | -23.734 | -179.655 | 447 | 4.9 | - | 83.12 | SOUTH OF THE FIJI ISLANDS |
| #-49 | 1/15 | 6 | 49 | 42.0 | -54.077 | 6.973 | 10 | 5.2 | - | 20.90 | BOLUVET ISLAND REGION |
| #-50 | 1/15 | 11 | 58 | 27.1 | -7.794 | 122.657 | 250 | 6.0 | - | 80.45 | FLORES SEA |
| #-51 | 1/16 | 0 | 42 | 36.5 | -15.477 | -173.448 | 10 | 5.2 | - | 92.42 | TONGA |
| #-52 | 1/16 | 10 | 55 | 5.3 | -16.120 | 178.410 | 19 | 4.9 | - | 90.12 | FUJI |
| #-53 | 1/16 | 14 | 58 | 16.3 | 7.741 | 94.272 | 30 | 4.4 | - | 85.61 | NICOBAR ISL, INDIA REGION |
| #-54 | 1/16 | 16 | 23 | 30.8 | -32.301 | -71.646 | 32 | 4.1 | - | 66.91 | OFFSHORE VALPARAISO, CHILE |
| #-55 | 1/17 | 14 | 35 | 34.2 | 4.312 | 124.806 | 306 | 4.7 | - | 92.52 | CELEBES SEA |
| #-56 | 1/17 | 22 | 23 | 15.3 | 5.357 | 94.282 | 53 | 4.9 | - | 83.34 | NORTHERN SUMATRA, INDONESIA |
| #-57 | 1/18 | 14 | 3 | 23.5 | -7.217 | 122.660 | 573 | 5.3 | - | 80.99 | FLORES SEA |
| #-58 | 1/18 | 14 | 25 | 27.5 | 37.759 | 142.142 | 25 | 5.8 | 5.0 | 129.50 | OFF THE EAST COAST OF HONSHU, JAPAN |
| #-59 | 1/19 | 1 | 25 | 52.1 | -18.633 | -173.715 | 35 | 5.0 | - | 89.27 | TONGA |
| #-60 | 1/19 | 5 | 7 | 9.2 | -5.700 | 148.530 | 213 | 4.7 | - | 91.51 | NEW BRITAIN REG, P.N.G. |
| #-61 | 1/19 | 5 | 37 | 35.6 | -16.050 | -173.902 | 87 | 5.1 | - | 91.77 | TONGA |
| #-62 | 1/19 | 22 | 52 | 39.5 | -2.076 | 100.708 | 62 | 4.7 | - | 78.26 | KEPULAUAN MENTAWAI REG, IND. |
| #-63 | 1/20 | 7 | 0 | 59.8 | 0.077 | 124.249 | 122 | 5.1 | - | 88.37 | MINAHASA, SULAWESI, IND. |
| #-64 | 1/20 | 11 | 1 | 18.2 | -32.083 | -69.417 | 153 | 4.6 | - | 66.42 | MENDOZA, ARGENTINA |
| #-65 | 1/20 | 15 | 41 | 6.6 | -50.168 | 29.934 | 10 | 4.6 | - | 19.34 | SOUTH OF AFRICA |
| #-66 | 1/20 | 17 | 51 | 55.3 | -22.463 | 173.871 | 32 | 5.4 | 5.5 | 82.92 | SOUTHEAST OF THE LOYALTY ISLANDS |
| #-67 | 1/20 | 20 | 26 | 51 | -6.100 | 113.091 | 579 | 4.9 | - | 78.64 | JAVA, INDONESIA |
| #-68 | 1/21 | 4 | 7 | 3.6 | 13.011 | 93.285 | 44 | 5.8 | 5.2 | 90.37 | ANDAMAN ISLAN |
| #-69 | 1/21 | 5 | 5 | 55.8 | -13.157 | 166.978 | 178 | 5.1 | - | 90.12 | VANUATU |
| #-70 | 1/21 | 6 | 47 | 20.1 | -9.928 | -74.490 | 103 | 4.4 | - | 88.84 | CENTRAL PERU |
| #-71 | 1/21 | 8 | 46 | 59.8 | -25.651 | -70.558 | 35 | 5.0 | - | 72.78 | ANTOFAGASTA, CHILE |
| #-72 | 1/21 | 9 | 34 | 51.3 | -8.179 | 122.468 | 29 | 4.9 | - | 80.03 | FLORES REGION, INDONESIA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-73 | 1/21 | 14 | 32 | 56.8 | -4.373 | 152.947 | 76 | 4.6 | - | 94.23 | NEW BRITAIN REG, P.N.G. |
| #-74 | 1/21 | 15 | 39 | 26.3 | -5.137 | 145.340 | 67 | 5.2 | - | 90.96 | EASTERN NEW GUINEA REG, P.N.G. |
| #-75 | 1/21 | 22 | 36 | 25.4 | -5.421 | 154.273 | 413 | 4.8 | - | 93.67 | BOUGAINVILLE REG, P.N.G. |
| #-76 | 1/22 | 11 | 15 | 44.7 | -22.270 | 173.699 | 62 | 5.3 | - | 83.07 | SOUTHEAST OF LOYALTY ISLANDS |
| #-77 | 1/22 | 11 | 37 | 24.0 | -22.910 | -177.940 | 241 | 5.0 | - | 84.28 | SOUTH OF THE FIJI ISLANDS |
| #-78 | 1/22 | 22 | 23 | 15.3 | -0.630 | 89.585 | 10 | 4.6 | - | 76.25 | SOUTH INDIAN OCEAN |
| #-79 | 1/23 | 4 | 18 | 59.5 | 23.937 | 122.145 | 45 | 5.0 | 4.5 | 109.86 | TAIWAN REGION |
| #-80 | 1/23 | 6 | 2 | 59.5 | -17.420 | 167.769 | 32 | 5.8 | 6.1 | 86.24 | VANUATU |
| #-81 | 1/23 | 13 | 16 | 34.6 | -25.336 | 178.289 | 595 | 5.3 | - | 81.13 | SOUTH OF THE FIJI ISLANDS |
| #-82 | 1/23 | 13 | 52 | 24.2 | -55.916 | -26.593 | 28 | 5.0 | 4.3 | 31.11 | SOUTH SANDWICH ISL REGION |
| #-83 | 1/23 | 14 | 20 | 0.3 | 6.632 | 126.553 | 67 | 5.1 | - | 95.31 | MINDANAO, PHILIPPINES |
| #-84 | 1/24 | 0 | 36 | 49.1 | 25.810 | 142.582 | 33 | 5.1 | - | 118.83 | VOLCANO ISL, JAPAN REGION |
| #-85 | 1/24 | 2 | 43 | 4.0 | -13.130 | -77.090 | 63 | 4.2 | - | 86.64 | OFF COAST OF CENTRAL PERU |
| #-86 | 1/24 | 4 | 27 | 9.9 | -55.220 | -135.580 | 10 | 4.8 | 4.7 | 55.71 | PACIFIC-ANTARCTIC RIDGE |
| #-87 | 1/24 | 7 | 49 | 24.4 | 10.942 | 143.914 | 33 | 5.3 | 4.2 | 105.53 | SOUTH OF THE MARIANA ISLANDS |
| #-88 | 1/24 | 10 | 30 | 14.7 | -23.224 | -179.632 | 400 | 4.5 | - | 83.63 | SOUTH OF THE FIJI ISLANDS |
| #-89 | 1/24 | 13 | 17 | 55.7 | -23.586 | -178.028 | 331 | 4.6 | - | 83.60 | SOUTH OF THE FIJI ISLANDS |
| #-90 | 1/25 | 1 | 10 | 53.5 | -17.186 | 167.484 | 87 | 5.0 | - | 86.39 | VANUATU |
| #-91 | 1/25 | 2 | 26 | 45.8 | 6.984 | 92.507 | 30 | 4.4 | - | 84.38 | NICOBAR ISL, INDIA REGION |
| #-92 | 1/25 | 11 | 35 | 42.5 | -20.770 | -178.410 | 546 | 4.4 | - | 86.27 | FIJI REGION |
| #-93 | 1/25 | 13 | 56 | 19.5 | -0.739 | 124.166 | 105 | 4.8 | - | 87.58 | MOLUCCA SEA |
| #-94 | 1/25 | 15 | 34 | 48.2 | 17.614 | 121.450 | 28 | 5.0 | 4.2 | 103.75 | LUZON, PHILIPPINES |
| #-95 | 1/26 | 1 | 16 | 16.0 | -30.710 | -177.820 | 10 | 5.3 | 5.0 | 76.69 | KERMADEC ISL, NEW ZEALAND |
| #-96 | 1/26 | 3 | 43 | 24.0 | -56.546 | -30.464 | 35 | 4.6 | - | 31.98 | SOUTH SANDWICH ISL REGION |
| #-97 | 1/26 | 6 | 32 | 16.8 | -30.344 | -177.775 | 43 | 5.0 | - | 77.05 | KERMADEC ISL, NEW ZEALAND |
| #-98 | 1/26 | 14 | 27 | 53.7 | 1.919 | 96.625 | 30 | 4.8 | - | 80.76 | NIAS REGION, INDONESIA |
| #-99 | 1/26 | 22 | 15 | 7.5 | -0.092 | 127.448 | 122 | 4.9 | - | 89.35 | HALMAHERA, INDONESIA |
| #-100 | 1/26 | 23 | 58 | 1.7 | -4.781 | 102.815 | 54 | 5.3 | - | 76.39 | SOUTHERN SUMATRA, INDONESIA |
| #-101 | 1/27 | 2 | 38 | 3.3 | -56.592 | -30.449 | 60 | 4.7 | - | 31.94 | SOUTH SANDWICH ISL REGION |
| #-102 | 1/27 | 5 | 8 | 9.4 | 0.688 | 123.902 | 276 | 4.3 | - | 88.82 | MINAHASA, SULAWESI, IND. |
| #-103 | 1/27 | 5 | 34 | 29.3 | -18.891 | -179.411 | 652 | 4.2 | - | 87.89 | FIJI REGION |
| #-104 | 1/27 | 6 | 43 | 1.9 | -10.567 | -78.483 | 57 | 5.1 | - | 89.50 | NEAR THE COAST OF CENTRAL PERU |
| #-105 | 1/27 | 7 | 37 | 33.7 | -23.731 | -177.487 | 230 | 4.7 | - | 83.56 | SOUTH OF THE FIJI ISLANDS |
| #-106 | 1/27 | 8 | 10 | 51.1 | -7.170 | 128.889 | 30 | 4.9 | - | 83.27 | KEPULAUAN BARAT DAYA, IND. |
| #-107 | 1/27 | 10 | 3 | 38.0 | -22.366 | -68.659 | 110 | 4.6 | - | 75.24 | ANTOFAGASTA, CHILE |
| #-108 | 1/27 | 9 | 58 | 4.0 | 59.814 | -146.916 | 1 | 5.1 | - | 170.47 | GULF OF ALASKA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|----------------|---------------------------------|--------------------------------------|
| | | UTC h m s | | | | | | Mb | M _s | | |
| #-109 | 1/27 | 15 | 59 | 46.2 | -9.770 | 160.280 | 26 | 4.6 | - | 91.42 | SOLOMON ISLANDS |
| #-110 | 1/27 | 16 | 58 | 53.4 | -5.482 | 128.093 | 397 | 7.0 | - | 84.55 | BANDA SEA |
| #-111 | 1/28 | 1 | 53 | 5.1 | -5.112 | 103.934 | 21 | 4.9 | - | 76.44 | SOUTHERN SUMATRA, INDONESIA |
| #-112 | 1/28 | 3 | 4 | 47.0 | -25.178 | -68.420 | 112 | 4.5 | - | 72.54 | CATAMARCA, ARGENTINA |
| #-113 | 1/28 | 14 | 16 | 10.7 | -27.902 | -66.325 | 166 | 4.6 | - | 69.32 | CATAMARCA, ARGENTINA |
| #-114 | 1/28 | 23 | 21 | 58.8 | -30.366 | -177.507 | 29 | 4.9 | - | 77.08 | KERMADECC ISL., NEW ZEALAND |
| #-115 | 1/29 | 0 | 3 | 8.7 | 6.184 | 126.109 | 93 | 4.7 | - | 94.74 | MINDANAO, PHILIPPINES |
| #-116 | 1/29 | 8 | 26 | 43.4 | -23.666 | -177.373 | 201 | 5.0 | - | 83.65 | SOUTH OF THE FIJI ISLANDS |
| #-117 | 1/29 | 11 | 43 | 43.0 | -16.572 | -177.094 | 32 | 5.2 | - | 90.64 | FIJI REGION |
| #-118 | 1/29 | 14 | 15 | 42.5 | -17.889 | -178.400 | 583 | 4.3 | - | 89.08 | FIJI REGION |
| #-119 | 1/29 | 17 | 49 | 14.0 | 6.757 | -77.643 | 17 | 5.1 | 4.3 | 105.63 | NEAR WEST COAST OF COLOMBIA |
| #-120 | 1/30 | 2 | 10 | 31.3 | -32.164 | -178.437 | 10 | 4.9 | 4.4 | 75.15 | SOUTH OF KERMADECC ISLANDS |
| #-121 | 1/30 | 4 | 35 | 19.9 | 1.093 | 97.237 | 24 | 4.8 | - | 80.17 | NIAS REGION, INDONESIA |
| #-122 | 1/30 | 21 | 24 | 20.6 | -49.805 | 117.706 | 25 | 5.2 | 5.0 | 40.67 | WESTERN INDIAN-ANTARCTIC RIDGE |
| #-123 | 1/31 | 16 | 40 | 54.3 | 1.653 | 117.980 | 35 | 5.4 | 4.6 | 87.62 | KALIMANTAN, INDONESIA |
| #-124 | 1/31 | 17 | 11 | 49.6 | -21.724 | 170.842 | 164 | 4.8 | - | 82.90 | SOUTHEAST OF LOYALTY ISLANDS |
| #-125 | 1/31 | 19 | 15 | 52.2 | 2.738 | 96.062 | 24 | 5.7 | 5.5 | 81.37 | SIMEULUE, INDONESIA |
| #-126 | 1/31 | 23 | 50 | 37.0 | -28.748 | -70.647 | 85 | 4.3 | - | 69.92 | ATACAMA, CHILE |
| #-127 | 2/1 | 12 | 18 | 14.4 | 4.982 | 93.000 | 30 | 4.9 | - | 82.60 | OFF WEST COAST OF N SUMATRA |
| #-128 | 2/1 | 18 | 28 | 49.0 | -22.157 | -179.668 | 600 | 5.2 | - | 84.66 | SOUTH OF THE FIJI ISLANDS |
| #-129 | 2/2 | 1 | 40 | 12.5 | -6.074 | 129.280 | 221 | 4.8 | - | 84.43 | BANDA SEA |
| #-130 | 2/2 | 7 | 13 | 11.7 | -21.235 | 169.621 | 48 | 5.4 | 5.1 | 83.06 | SOUTHEAST OF THE LOYALTY ISLANDS |
| #-131 | 2/2 | 12 | 2 | 13.9 | -16.889 | -70.493 | 41 | 4.9 | - | 80.98 | SOUTHERN PERU |
| #-132 | 2/2 | 12 | 48 | 43.6 | -17.767 | -178.362 | 598 | 6.0 | - | 89.21 | FIJI REGION |
| #-133 | 2/2 | 13 | 34 | 51.7 | -24.015 | -115.355 | 36 | 4.9 | - | 85.13 | SOUTHERN EAST PACIFIC RISE |
| #-134 | 2/2 | 21 | 49 | 1.6 | 34.778 | 73.159 | 10 | 5.1 | 4.0 | 106.80 | PAKISTAN |
| #-135 | 2/3 | 4 | 37 | 36.3 | 36.154 | 141.441 | 28 | 5.4 | 5.4 | 127.81 | NEAR THE EAST COAST OF HONSHU, JAPAN |
| #-136 | 2/3 | 6 | 10 | 6.2 | 36.200 | 141.500 | 37 | 5.2 | 4.8 | 127.87 | N E CST HONSHU, JAPAN |
| #-137 | 2/3 | 14 | 20 | 49.6 | -17.877 | -178.666 | 572 | 5.1 | - | 89.04 | FIJI REGION |
| #-138 | 2/3 | 16 | 0 | 12.5 | -16.249 | -173.790 | 82 | 5.5 | - | 91.60 | TONGA |
| #-139 | 2/3 | 20 | 34 | 13.3 | 11.980 | 92.406 | 30 | 5.6 | 6.0 | 89.13 | ANDAMAN ISLANDS, INDIA REGION |
| #-140 | 2/4 | 7 | 41 | 35.4 | -18.111 | -178.917 | 552 | 4.2 | - | 88.76 | FIJI REGION |
| #-141 | 2/5 | 1 | 9 | 36.1 | -17.844 | -178.623 | 579 | 4.1 | - | 89.08 | FIJI REGION |
| #-142 | 2/5 | 8 | 17 | 2.0 | 66.549 | -143.044 | 15 | 5.1 | 5.1 | 177.42 | NORTHERN ALASKA |
| #-143 | 2/5 | 12 | 29 | 49.5 | -26.141 | 178.143 | 642 | 4.8 | - | 80.32 | SOUTH OF THE FIJI ISLANDS |
| #-144 | 2/5 | 13 | 40 | 44.4 | 10.869 | 91.881 | 133 | 4.8 | - | 87.92 | ANDAMAN ISL., |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|-----------------|----|------|---------------------------|-----------------------------|------------|-----------|-----|---------------------------|-----------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-145 | 2/5 | 16 | 15 | 17.7 | 59.386 | -151.692 | 43 | 5.0 | 4.3 | 169.34 | KENAI PENINSULA, ALASKA |
| #-146 | 2/5 | 18 | 3 | 24.4 | -23.627 | -67.629 | 119 | 5.0 | - | 73.73 | ANTOFAGASTA, CHILE |
| #-147 | 2/7 | 7 | 3 | 30.3 | -6.760 | 153.270 | 146 | 4.3 | - | 92.08 | NEW BRITAIN REG, P.N.G. |
| #-148 | 2/7 | 8 | 56 | 1.2 | -58.902 | -25.639 | 89 | 5.0 | - | 28.52 | SOUTH SANDWICH ISL REGION |
| #-149 | 2/7 | 9 | 10 | 27.6 | -11.876 | 166.413 | 57 | 5.1 | - | 91.19 | SANTA CRUZ ISLANDS |
| #-150 | 2/7 | 10 | 14 | 25.4 | -18.189 | 168.125 | 40 | 5.3 | 5.3 | 85.60 | VANUATU |
| #-151 | 2/7 | 16 | 13 | 8.0 | -18.190 | -173.390 | 10 | 4.6 | - | 89.76 | TONGA |
| #-152 | 2/7 | 17 | 56 | 9.8 | -0.760 | 123.141 | 64 | 4.8 | - | 87.19 | SULAWESI, INDONESIA |
| #-153 | 2/7 | 21 | 2 | 30.4 | -16.763 | -173.616 | 48 | 5.2 | 5.1 | 91.12 | TONGA |
| #-154 | 2/8 | 5 | 4 | 53.6 | -54.500 | 144.073 | 10 | 5.3 | 5.6 | 45.09 | WEST OF MACQUARIE ISLAND |
| #-155 | 2/8 | 7 | 44 | 51.4 | -7.146 | 127.758 | 237 | 5.1 | - | 82.88 | KEPULAUAN BARAT DAYA, IND. |
| #-156 | 2/8 | 13 | 57 | 49.4 | -28.824 | -67.328 | 117 | 4.5 | - | 68.79 | LA RIOJA, ARGENTINA |
| #-157 | 2/9 | 0 | 5 | 8.7 | -7.688 | 121.600 | 369 | 5.4 | - | 80.17 | FLORES SEA |
| #-158 | 2/9 | 5 | 41 | 10.1 | -21.293 | -174.933 | 10 | 4.7 | - | 86.44 | TONGA |
| #-159 | 2/9 | 5 | 44 | 27.5 | -4.825 | 133.080 | 10 | 5.2 | 4.7 | 86.95 | NEAR S COAST PAPUA, IND. |
| #-160 | 2/9 | 11 | 29 | 13.7 | -57.241 | -141.272 | 10 | 5.1 | - | 53.75 | PACIFIC-ANTARCTIC RIDGE |
| #-161 | 2/10 | 4 | 14 | 17.6 | 27.586 | -90.183 | 5 | 4.2 | 5.2 | 129.27 | GULF OF MEXICO |
| #-162 | 2/10 | 16 | 9 | 39.7 | -14.647 | 167.407 | 142 | 4.8 | - | 88.81 | VANUATU |
| #-163 | 2/10 | 17 | 51 | 54.5 | -32.499 | -71.398 | 33 | 5.1 | - | 66.65 | VALPARAISO, CHILE |
| #-164 | 2/11 | 4 | 40 | 7.8 | -24.137 | -67.032 | 170 | 4.0 | - | 73.06 | SALTA, ARGENTINA |
| #-165 | 2/11 | 4 | 57 | 54.8 | 3.605 | 126.499 | 70 | 5.3 | - | 92.47 | KEPULAUAN TALAUD, INDONESIA |
| #-166 | 2/11 | 11 | 49 | 39.9 | -32.347 | -67.065 | 36 | 4.8 | - | 65.43 | SAN LUIS, ARGENTINA |
| #-167 | 2/11 | 18 | 4 | 17.1 | -5.740 | 147.750 | 218 | 4.6 | - | 91.21 | E NEW GUINEA REG, P.N.G. |
| #-168 | 2/11 | 21 | 49 | 17.1 | -25.294 | -1.209 | 22 | 4.9 | - | 49.74 | SOUTH ATLANTIC OCEAN |
| #-169 | 2/13 | 9 | 32 | 8.8 | 2.891 | 95.472 | 26 | 5.1 | 4.9 | 81.34 | SIMEULUE, INDONESIA |
| #-170 | 2/13 | 10 | 46 | 4.6 | -6.325 | 104.777 | 32 | 5.0 | - | 75.58 | SUNDA STRAIT, INDONESIA |
| #-171 | 2/13 | 12 | 5 | 44.0 | 2.538 | 96.386 | 26 | 5.0 | - | 81.28 | SIMEULUE, INDONESIA |
| #-172 | 2/13 | 12 | 50 | 44.4 | 29.148 | 142.354 | 42 | 5.0 | - | 121.80 | IZU ISLANDS, JAPAN REGION |
| #-173 | 2/14 | 0 | 21 | 42.3 | -49.346 | 121.506 | 10 | 4.8 | - | 42.37 | W INDIAN-ANTARCTIC RIDGE |
| #-174 | 2/14 | 0 | 55 | 25.2 | 27.350 | 88.356 | 30 | 5.6 | 4.8 | 102.81 | SIKKIM, INDIA |
| #-175 | 2/14 | 1 | 17 | 22.1 | -33.580 | -178.914 | 35 | 5.2 | - | 73.68 | SOUTH OF KERMADEC ISLANDS |
| #-176 | 2/14 | 15 | 27 | 24.4 | 20.840 | 146.178 | 48 | 6.2 | - | 115.53 | MARIANA ISLANDS REGION |
| #-177 | 2/14 | 19 | 32 | 7.3 | -23.817 | -177.692 | 105 | 5.1 | - | 83.44 | SOUTH OF THE FIJI ISLANDS |
| #-178 | 2/15 | 0 | 48 | 51.8 | -10.054 | 117.509 | 34 | 4.7 | - | 76.51 | SOUTH OF SUMBAWA, INDONESIA |
| #-179 | 2/15 | 1 | 17 | 54.8 | 5.322 | 94.443 | 51 | 4.9 | - | 83.35 | NORTHERN SUMATRA, INDONESIA |
| #-180 | 2/15 | 1 | 46 | 4.5 | -9.914 | 126.282 | 37 | 4.8 | - | 79.77 | EAST TIMOR REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic | | Coordinates | | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|-------------------|--------------------|------------|----------|-------------|-----|---------------|-----------|-------------------------------|---------------------------------|--------|
| | | UTC h m s | Latitude (deg) | Longitude (deg) | Mb | Ms | | | | | | | |
| #-181 | 2/15 | 4 | 53 | 56.0 | -22.750 | -176.310 | 100 | 4.8 | - | 84.75 | SOUTH OF THE FIJI ISLANDS | | |
| #-182 | 2/15 | 5 | 5 | 18.5 | -6.450 | 146.760 | 50 | 4.8 | - | 90.21 | E NEW GUINEA REG, P.N.G. | | |
| #-183 | 2/15 | 5 | 15 | 59.8 | -6.720 | 146.880 | 75 | 4.5 | - | 90.00 | E NEW GUINEA REG, P.N.G. | | |
| #-184 | 2/15 | 12 | 15 | 56.2 | -40.220 | 173.400 | 179 | 4.9 | - | 65.70 | COOK STRAIT, NEW ZEALAND | | |
| #-185 | 2/15 | 19 | 1 | 50.4 | -0.029 | 124.326 | 92 | 4.8 | - | 88.30 | MOLUCCA SEA | | |
| #-186 | 2/15 | 19 | 37 | 26.6 | -18.102 | 169.328 | 281 | 4.9 | - | 86.00 | VANUATU | | |
| #-187 | 2/16 | 2 | 57 | 6.4 | -7.100 | 129.900 | 144 | 4.0 | - | 83.69 | KEPULAUAN BABAR, INDONESIA | | |
| #-188 | 2/16 | 4 | 14 | 8.8 | -9.574 | 159.700 | 24 | 4.8 | - | 91.43 | SOLOMON ISLANDS | | |
| #-189 | 2/16 | 11 | 9 | 29.7 | -16.031 | -172.874 | 25 | 4.8 | - | 91.98 | SAMOA ISLANDS REGION | | |
| #-190 | 2/16 | 14 | 54 | 39.3 | -15.885 | -173.031 | 10 | 5.4 | 5.9 | 92.09 | TONGA | | |
| #-191 | 2/16 | 22 | 53 | 18.9 | -19.868 | -178.098 | 550 | 4.8 | - | 87.21 | FIJI REGION | | |
| #-192 | 2/17 | 2 | 13 | 29.8 | 23.999 | 141.475 | 161 | 5.2 | - | 116.77 | VOLCANO ISLANDS, JAPAN REGION | | |
| #-193 | 2/17 | 2 | 41 | 52.2 | -22.524 | 171.928 | 136 | 4.7 | - | 82.40 | SOUTHEAST OF LOYALTY ISLANDS | | |
| #-194 | 2/17 | 7 | 50 | 21.7 | -33.669 | -179.474 | 10 | 4.8 | - | 73.49 | SOUTH OF KERMADEC ISLANDS | | |
| #-195 | 2/17 | 12 | 18 | 26.8 | -56.039 | -27.632 | 130 | 4.9 | - | 31.38 | SOUTH SANDWICH ISL REGION | | |
| #-196 | 2/17 | 13 | 24 | 4.1 | -1.828 | -15.123 | 10 | 5.0 | - | 76.14 | NORTH OF ASCENSION ISLAND | | |
| #-197 | 2/17 | 15 | 32 | 39.9 | -21.670 | 170.666 | 210 | 4.6 | - | 82.91 | SOUTHEAST OF LOYALTY ISLANDS | | |
| #-198 | 2/18 | 1 | 9 | 50.1 | 0.686 | 126.198 | 55 | 4.8 | - | 89.63 | MOLUCCA SEA | | |
| #-199 | 2/18 | 2 | 47 | 17.4 | 9.091 | 126.798 | 35 | 5.0 | - | 97.69 | MINDANAO, PHILIPPINES | | |
| #-200 | 2/18 | 10 | 40 | 51.3 | -18.215 | -69.861 | 145 | 4.7 | - | 79.53 | TARAPACA, CHILE | | |
| #-201 | 2/18 | 14 | 59 | 4.6 | -6.482 | -11.079 | 10 | 4.9 | - | 70.50 | ASCENSION ISLAND REGION | | |
| #-202 | 2/18 | 15 | 53 | 37.4 | -16.829 | 167.190 | 43 | 5.4 | - | 86.65 | VANUATU | | |
| #-203 | 2/18 | 15 | 59 | 22.8 | -5.198 | 152.091 | 49 | 5.9 | 6.2 | 93.17 | NEW BRITAIN REGION, P.N.G. | | |
| #-204 | 2/18 | 16 | 5 | 17.7 | -5.295 | 152.335 | 65 | 5.0 | - | 93.16 | NEW BRITAIN REG, P.N.G. | | |
| #-205 | 2/18 | 21 | 7 | 27.8 | -4.283 | -79.381 | 95 | 4.5 | - | 95.75 | PERU-ECUADOR BORDER REGION | | |
| #-206 | 2/19 | 0 | 49 | 19.2 | 6.053 | 126.053 | 155 | 5.1 | - | 94.59 | MINDANAO, PHILIPPINES | | |
| #-207 | 2/19 | 6 | 7 | 38.6 | -2.865 | 138.752 | 58 | 4.6 | - | 90.80 | PAPUA, INDONESIA | | |
| #-208 | 2/19 | 21 | 5 | 14.9 | -5.081 | 108.139 | 600 | 4.6 | - | 77.89 | JAVA SEA | | |
| #-209 | 2/20 | 6 | 56 | 9.6 | 13.150 | -87.606 | 10 | 5.6 | 5.2 | 114.86 | NICARAGUA | | |
| #-210 | 2/20 | 7 | 55 | 36.3 | -31.626 | -178.810 | 152 | 4.9 | - | 75.60 | KERMADEC ISLANDS REGION | | |
| #-211 | 2/20 | 8 | 45 | 1.9 | -21.833 | 179.622 | 610 | 4.6 | - | 84.82 | SOUTH OF THE FIJI ISLANDS | | |
| #-212 | 2/20 | 17 | 54 | 6.8 | -9.751 | 107.107 | 35 | 5.0 | - | 73.15 | SOUTH OF JAVA, INDONESIA | | |
| #-213 | 2/20 | 18 | 52 | 5.3 | -2.689 | 68.145 | 10 | 4.8 | - | 69.12 | CARLSBERG RIDGE | | |
| #-214 | 2/20 | 18 | 55 | 16.9 | -2.772 | 68.122 | 10 | 4.5 | - | 69.04 | CARLSBERG RIDGE | | |
| #-215 | 2/20 | 23 | 2 | 43.2 | -16.914 | -70.362 | 61 | 4.6 | - | 80.91 | SOUTHERN PERU | | |
| #-216 | 2/20 | 23 | 31 | 53.9 | 1.911 | 126.548 | 26 | 5.1 | - | 90.90 | MOLUCCA SEA | | |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|------------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-217 | 2/21 | 0 | 40 | 3.3 | -7.459 | 128.358 | 81 | 4.9 | - | 82.81 | KEPULAUAN BARAT DAYA, IND. |
| #-218 | 2/21 | 3 | 52 | 42.9 | -7.418 | 81.311 | 27 | 5.0 | - | 67.46 | SOUTH INDIAN OCEAN |
| #-219 | 2/21 | 4 | 44 | 9.9 | 36.053 | 142.199 | 39 | 5.0 | - | 127.99 | OFF E COAST OF HONSHU, JAPAN |
| #-220 | 2/21 | 11 | 38 | 22.7 | 28.534 | 139.436 | 435 | 4.4 | - | 120.19 | BONIN ISLANDS, JAPAN REGION |
| #-221 | 2/21 | 21 | 0 | 22.5 | -10.238 | -75.456 | 14 | 5.4 | 3.4 | 88.86 | CENTRAL PERU |
| #-222 | 2/21 | 21 | 43 | 51.1 | -21.930 | 179.980 | 488 | 4.6 | - | 84.81 | SOUTH OF THE FIJI ISLANDS |
| #-223 | 2/22 | 5 | 28 | 4.9 | -9.160 | 124.810 | 160 | 4.4 | - | 79.95 | TIMOR REGION |
| #-224 | 2/22 | 22 | 19 | 7.7 | -21.259 | 33.48 | 11 | 6.5 | 7.5 | 47.87 | MOZAMBIQUE |
| #-225 | 2/23 | 1 | 23 | 42.2 | -21.313 | 33.385 | 10 | 5.3 | 5.4 | 47.82 | MOZAMBIQUE |
| #-226 | 2/23 | 2 | 22 | 7.7 | -21.378 | 33.346 | 10 | 5.3 | - | 47.76 | MOZAMBIQUE |
| #-227 | 2/23 | 3 | 51 | 28.1 | -21.560 | 32.960 | 10 | 4.2 | - | 47.59 | MOZAMBIQUE |
| #-228 | 2/23 | 5 | 45 | 11.9 | -21.338 | 32.737 | 10 | 4.4 | - | 47.83 | MOZAMBIQUE |
| #-229 | 2/23 | 13 | 6 | 21.5 | -46.844 | 33.564 | 10 | 4.9 | - | 22.33 | PRINCE EDWARD ISLANDS REGION |
| #-230 | 2/23 | 15 | 52 | 10.7 | -5.274 | 131.569 | 17 | 4.9 | - | 85.99 | BANDA SEA |
| #-231 | 2/23 | 20 | 4 | 53.3 | 26.886 | 91.647 | 10 | 5.5 | 5.3 | 103.20 | ASSAM, INDIA |
| #-232 | 2/23 | 21 | 32 | 5.0 | -21.320 | 33.447 | 5 | 5.0 | - | 47.81 | MOZAMBIQUE |
| #-233 | 2/23 | 22 | 37 | 32.1 | -24.444 | 179.669 | 481 | 4.7 | - | 82.29 | SOUTH OF THE FIJI ISLANDS |
| #-234 | 2/25 | 21 | 39 | 55.3 | -19.317 | -175.500 | 150 | 5.2 | - | 88.27 | TONGA |
| #-235 | 2/25 | 23 | 5 | 1.6 | -62.637 | 165.088 | 22 | 5.3 | - | 42.93 | BALLENY ISLANDS REGION |
| #-236 | 2/26 | 0 | 51 | 41.6 | -12.441 | -75.018 | 34 | 4.9 | - | 86.63 | CENTRAL PERU |
| #-237 | 2/26 | 3 | 8 | 27.9 | -23.623 | -179.961 | 536 | 5.9 | - | 83.17 | SOUTH OF THE FIJI ISLANDS |
| #-238 | 2/26 | 3 | 10 | 25.8 | -42.650 | -74.310 | 48 | 4.8 | - | 58.11 | OFFSHORE LOS LAGOS, CHILE |
| #-239 | 2/26 | 4 | 18 | 42.0 | -15.208 | -176.393 | 33 | 5.5 | - | 92.11 | FIJI REGION |
| #-240 | 2/26 | 4 | 54 | 36.5 | -23.636 | 179.847 | 569 | 4.4 | - | 83.12 | SOUTH OF THE FIJI ISLANDS |
| #-241 | 2/26 | 10 | 29 | 31.7 | 0.378 | 126.250 | 108 | 4.7 | - | 89.36 | MOLLUCCA SEA |
| #-242 | 2/26 | 13 | 39 | 56.0 | -8.703 | 106.035 | 34 | 5.1 | - | 73.77 | SOUTH OF JAVA, INDONESIA |
| #-243 | 2/26 | 13 | 52 | 4.6 | -21.200 | 32.980 | 10 | 4.6 | - | 47.95 | MOZAMBIQUE |
| #-244 | 2/26 | 14 | 43 | 0.2 | -8.668 | 106.009 | 8 | 5.4 | 5.2 | 73.79 | SOUTH OF JAVA, INDONESIA |
| #-245 | 2/26 | 19 | 27 | 28.1 | -7.007 | 125.107 | 536 | 5.4 | - | 82.06 | KEPULAUAN BARAT DAYA, IND. |
| #-246 | 2/26 | 21 | 32 | 49.9 | 5.683 | 94.615 | 30 | 5.3 | - | 83.75 | NORTHERN SUMATRA, INDONESIA |
| #-247 | 2/27 | 8 | 2 | 14.3 | 26.590 | 55.800 | 35 | 4.2 | - | 96.39 | SOUTHERN IRAN |
| #-248 | 2/27 | 17 | 5 | 11.0 | 2.824 | 93.973 | 28 | 4.6 | - | 80.83 | OFF WEST COAST OF N SUMATRA |
| #-249 | 2/28 | 0 | 32 | 37.2 | -22.660 | -175.870 | 10 | 5.4 | - | 84.92 | TONGA REGION |
| #-250 | 2/28 | 1 | 3 | 34.8 | 2.226 | 97.043 | 30 | 4.5 | - | 81.19 | NORTHERN SUMATRA, INDONESIA |
| #-251 | 2/28 | 2 | 45 | 20.5 | -35.513 | 54.048 | 35 | 5.1 | - | 34.52 | SOUTH INDIAN OCEAN |
| #-252 | 2/28 | 7 | 31 | 3.1 | 28.167 | 56.846 | 18 | 5.8 | 6.2 | 98.05 | SOUTHERN IRAN |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---------------------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-253 | 2/28 | 12 | 17 | 50.9 | -17.983 | -179.365 | 614 | 4.5 | - | 88.79 | FIJI REGION |
| #-254 | 3/1 | 3 | 16 | 4.3 | -21.058 | 32.984 | 10 | 4.4 | - | 48.09 | MOZAMBIQUE |
| #-255 | 3/1 | 9 | 36 | 45.2 | 35.346 | 89.514 | 37 | 5.1 | - | 110.75 | WESTERN XIZANG |
| #-256 | 3/1 | 11 | 4 | 12.2 | 13.424 | 120.527 | 22 | 5.5 | 5.5 | 99.52 | MINDORO, PHILIPPINES |
| #-257 | 3/1 | 14 | 36 | 2.5 | 2.695 | 95.897 | 20 | 5.0 | 4.3 | 81.28 | SIMEULUE, INDONESIA |
| #-258 | 3/1 | 19 | 8 | 27.9 | -24.291 | 179.497 | 539 | 4.8 | - | 82.40 | SOUTH OF THE FIJI ISLANDS |
| #-259 | 3/1 | 20 | 21 | 43.7 | -18.280 | -69.074 | 128 | 5.2 | - | 79.21 | ORURO, BOLIVIA |
| #-260 | 3/2 | 2 | 26 | 35.2 | -4.184 | 129.669 | 35 | 4.5 | - | 86.33 | BANDA SEA |
| #-261 | 3/2 | 5 | 55 | 57.8 | -7.017 | 155.590 | 72 | 4.6 | - | 92.58 | SOLOMON ISLANDS |
| #-262 | 3/2 | 11 | 19 | 32.8 | 6.280 | 126.300 | 144 | 4.4 | - | 94.89 | MINDANAO, PHILIPPINES |
| #-263 | 3/2 | 15 | 24 | 58.0 | -17.849 | -178.509 | 617 | 5.3 | - | 89.10 | FIJI REGION |
| #-264 | 3/2 | 16 | 19 | 25.5 | -4.390 | 129.482 | 38 | 4.6 | - | 86.07 | BANDA SEA |
| #-265 | 3/2 | 23 | 35 | 44.0 | 19.358 | -63.787 | 25 | 5.2 | 5.3 | 112.60 | LEEWARD ISLANDS |
| #-266 | 3/3 | 2 | 35 | 42.6 | -6.660 | 130.300 | 153 | 4.3 | - | 84.25 | BANDA SEA |
| #-267 | 3/3 | 15 | 39 | 36.8 | 44.690 | 135.589 | 361 | 4.3 | - | 133.30 | PRIMOR'YE, RUSSIA |
| #-268 | 3/3 | 23 | 36 | 27.9 | -55.712 | -4.135 | 10 | 5.2 | 5.4 | 23.27 | SOUTHERN MID-ATLANTIC RIDGE |
| #-269 | 3/4 | 4 | 7 | 12.2 | -4.080 | 149.650 | 152 | 4.2 | - | 93.41 | BISMARCK SEA |
| #-270 | 3/4 | 8 | 11 | 37.1 | 12.589 | -89.368 | 28 | 5.4 | 4.8 | 114.87 | OFFSHORE EL SALVADOR |
| #-271 | 3/4 | 10 | 44 | 50.8 | -4.011 | 104.659 | 249 | 4.4 | - | 77.72 | SOUTHERN SUMATRA, INDONESIA |
| #-272 | 3/4 | 18 | 19 | 29.9 | -21.010 | -177.180 | 276 | 4.4 | - | 86.28 | FIJI REGION |
| #-273 | 3/4 | 18 | 38 | 14.7 | 33.667 | 137.388 | 337 | 5.2 | - | 124.13 | NEAR THE SOUTH COAST OF HONSHU, JAPAN |
| #-274 | 3/5 | 2 | 8 | 36.5 | -21.361 | 33.060 | 10 | 4.6 | - | 47.79 | MOZAMBIQUE |
| #-275 | 3/5 | 4 | 44 | 57.6 | -24.020 | -66.838 | 191 | 4.7 | - | 73.10 | JUJUY, ARGENTINA |
| #-276 | 3/5 | 5 | 6 | 9.2 | -23.779 | -67.696 | 21 | 4.6 | - | 73.61 | ANTOFAGASTA, CHILE |
| #-277 | 3/5 | 5 | 28 | 31.5 | -3.390 | -76.876 | 113 | 5.2 | - | 95.79 | NORTHERN PERU |
| #-278 | 3/5 | 8 | 7 | 56.5 | -20.095 | -175.661 | 206 | 5.9 | - | 87.47 | TONGA |
| #-279 | 3/5 | 10 | 42 | 15.4 | 64.949 | -129.128 | 6 | 5.3 | 5.3 | 173.85 | NORTHWEST TERRITORIES, CANADA |
| #-280 | 3/5 | 17 | 12 | 52.0 | -15.642 | -174.547 | 10 | 5.2 | 5.4 | 92.05 | TONGA |
| #-281 | 3/5 | 17 | 40 | 38.8 | -0.153 | 123.194 | 178 | 4.5 | - | 87.78 | SULAWESI, INDONESIA |
| #-282 | 3/5 | 18 | 31 | 29.9 | 7.350 | 94.220 | 30 | 4.3 | - | 85.22 | NICOBAR ISL., INDIA REGION |
| #-283 | 3/5 | 20 | 46 | 56.8 | -4.595 | 101.364 | 17 | 4.9 | - | 76.09 | SOUTHERN SUMATRA, INDONESIA |
| #-284 | 3/5 | 21 | 16 | 9.6 | -4.615 | 101.322 | 29 | 5.0 | - | 76.05 | SOUTHERN SUMATRA, INDONESIA |
| #-285 | 3/6 | 1 | 29 | 48.2 | -21.327 | 33.027 | 10 | 4.6 | - | 47.82 | MOZAMBIQUE |
| #-286 | 3/6 | 9 | 49 | 51.9 | -40.347 | -91.934 | 36 | 4.6 | - | 64.82 | WEST CHILE RISE |
| #-287 | 3/6 | 16 | 19 | 16.7 | -18.200 | -176.780 | 373 | 4.3 | - | 89.11 | FIJI REGION |
| #-288 | 3/6 | 18 | 13 | 8.7 | -40.112 | 78.529 | 10 | 5.5 | 6.1 | 35.62 | MID-INDIAN RIDGE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|----------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-289 | 3/7 | 0 | 18 | 47.0 | 4.291 | 127.924 | 35 | 4.4 | - | 93.62 | KEPULAUAN TALAUD, INDONESIA |
| #-290 | 3/7 | 1 | 46 | 28.0 | -4.621 | 152.382 | 117 | 5.1 | - | 93.81 | NEW BRITAIN REG, P.N.G. |
| #-291 | 3/7 | 4 | 53 | 20.2 | 3.464 | 128.239 | 24 | 5.4 | - | 92.96 | N OF HALMAHERA, INDONESIA |
| #-292 | 3/7 | 6 | 28 | 55.2 | -14.814 | 167.385 | 136 | 5.7 | - | 88.64 | VANUATU |
| #-293 | 3/7 | 7 | 10 | 50.3 | -40.153 | 78.533 | 10 | 5.2 | - | 35.59 | MID-INDIAN RIDGE |
| #-294 | 3/7 | 18 | 20 | 46.4 | 23.766 | 70.890 | 10 | 5.2 | 5.2 | 95.62 | GUJARAT, INDIA |
| #-295 | 3/7 | 23 | 46 | 45.2 | -23.070 | 171.290 | 35 | 4.8 | - | 81.71 | SOUTHEAST OF LOYALTY ISLANDS |
| #-296 | 3/8 | 6 | 33 | 38.1 | 3.977 | 96.238 | 30 | 5.3 | 4.7 | 82.61 | NORTHERN SUMATRA, INDONESIA |
| #-297 | 3/8 | 10 | 59 | 51.7 | 1.128 | 97.140 | 25 | 4.8 | - | 80.17 | NIAS REGION, INDONESIA |
| #-298 | 3/8 | 12 | 17 | 5.3 | 5.240 | 95.690 | 124 | 4.3 | - | 83.65 | NORTHERN SUMATRA, INDONESIA |
| #-299 | 3/8 | 15 | 17 | 54.2 | -21.075 | 33.110 | 10 | 4.4 | - | 48.07 | MOZAMBIQUE |
| #-300 | 3/8 | 15 | 56 | 17.2 | -22.366 | 171.507 | 133 | 5.3 | - | 82.45 | SOUTHEAST OF THE LOYALTY ISLANDS |
| #-301 | 3/8 | 17 | 59 | 51.4 | -23.862 | -66.590 | 194 | 4.3 | - | 73.17 | JUJUY, ARGENTINA |
| #-302 | 3/9 | 2 | 55 | 15.8 | -4.080 | 151.370 | 97 | 4.2 | - | 93.99 | NEW BRITAIN REG, P.N.G. |
| #-303 | 3/9 | 7 | 36 | 11.6 | -7.282 | 120.280 | 539 | 4.1 | - | 80.08 | FLORES SEA |
| #-304 | 3/9 | 9 | 59 | 53.1 | -59.522 | -29.696 | 10 | 5.5 | - | 29.47 | SOUTH SANDWICH ISLANDS |
| #-305 | 3/9 | 14 | 49 | 33.3 | -38.760 | 175.220 | 214 | 4.8 | - | 67.49 | NORTH ISLAND OF NEW ZEALAND |
| #-306 | 3/9 | 15 | 0 | 39.5 | 8.786 | 94.338 | 18 | 5.1 | - | 86.63 | NICOBAR ISL., INDIA REGION |
| #-307 | 3/9 | 15 | 3 | 17.1 | 11.138 | 94.609 | 16 | 5.1 | - | 88.96 | ANDAMAN ISL., INDIA REGION |
| #-308 | 3/9 | 15 | 12 | 2.9 | 10.850 | 94.572 | 21 | 5.3 | - | 88.67 | ANDAMAN ISL., INDIA REGION |
| #-309 | 3/9 | 15 | 19 | 15.9 | 10.858 | 94.656 | 21 | 5.1 | - | 88.70 | ANDAMAN ISL., INDIA REGION |
| #-310 | 3/9 | 15 | 46 | 50.8 | 10.673 | 94.168 | 22 | 4.9 | - | 88.38 | ANDAMAN ISL., INDIA REGION |
| #-311 | 3/9 | 16 | 10 | 33.4 | 10.694 | 94.303 | 20 | 4.3 | - | 88.44 | ANDAMAN ISL., INDIA REGION |
| #-312 | 3/9 | 16 | 28 | 48.9 | 10.811 | 94.441 | 20 | 4.7 | - | 88.59 | ANDAMAN ISL., INDIA REGION |
| #-313 | 3/9 | 17 | 8 | 51.7 | 10.740 | 94.492 | 22 | 4.8 | - | 88.54 | ANDAMAN ISL., INDIA REGION |
| #-314 | 3/9 | 17 | 20 | 43.4 | 10.861 | 94.610 | 21 | 4.6 | - | 88.69 | ANDAMAN ISL., INDIA REGION |
| #-315 | 3/9 | 17 | 41 | 31.3 | 11.140 | 94.730 | 30 | 4.5 | - | 88.99 | ANDAMAN ISL., INDIA REGION |
| #-316 | 3/9 | 17 | 55 | 55.4 | 0.652 | -26.108 | 10 | 5.4 | 5.6 | 81.95 | CENTRAL MID-ATLANTIC RIDGE |
| #-317 | 3/9 | 18 | 21 | 51.6 | 10.838 | 94.565 | 10 | 5.1 | - | 88.66 | ANDAMAN ISL., INDIA REGION |
| #-318 | 3/9 | 19 | 15 | 44.3 | 10.755 | 94.429 | 23 | 5.0 | - | 88.54 | ANDAMAN ISL., INDIA REGION |
| #-319 | 3/9 | 20 | 25 | 46.7 | 10.772 | 94.614 | 21 | 4.9 | - | 88.61 | ANDAMAN ISL., INDIA REGION |
| #-320 | 3/9 | 21 | 37 | 0.8 | 10.677 | 94.413 | 18 | 5.1 | - | 88.46 | ANDAMAN ISL., INDIA REGION |
| #-321 | 3/9 | 22 | 30 | 52.0 | 11.097 | 94.285 | 30 | 5.1 | - | 88.82 | ANDAMAN ISL., INDIA REGION |
| #-322 | 3/9 | 23 | 0 | 25.9 | 10.711 | 94.308 | 30 | 4.8 | - | 88.46 | ANDAMAN ISL., INDIA REGION |
| #-323 | 3/10 | 0 | 14 | 36.8 | 10.811 | 94.417 | 22 | 4.6 | - | 88.59 | ANDAMAN ISL., INDIA REGION |
| #-324 | 3/10 | 1 | 13 | 42.8 | 11.011 | 94.496 | 23 | 4.9 | - | 88.80 | ANDAMAN ISL., INDIA REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-325 | 3/10 | 4 | 5 | 42.7 | 10.721 | 94.274 | 23 | 5.2 | - | 88.46 | ANDAMAN ISLANDS, INDIA REGION |
| #-326 | 3/10 | 5 | 6 | 9.3 | 10.576 | 94.288 | 23 | 4.8 | - | 88.33 | ANDAMAN ISL., INDIA REGION |
| #-327 | 3/10 | 9 | 26 | 1.7 | -7.932 | 107.613 | 59 | 4.9 | - | 75.03 | JAVA, INDONESIA |
| #-328 | 3/10 | 10 | 12 | 20.3 | -60.410 | -46.569 | 20 | 5.6 | 5.2 | 34.36 | SCOTIASEA |
| #-329 | 3/10 | 12 | 3 | 58.1 | 10.666 | 94.413 | 22 | 5.0 | - | 88.45 | ANDAMAN ISL., INDIA REGION |
| #-330 | 3/10 | 15 | 29 | 24.0 | 10.590 | 94.258 | 22 | 4.5 | - | 88.33 | ANDAMAN ISL., INDIA REGION |
| #-331 | 3/10 | 16 | 30 | 47.3 | 10.761 | 94.387 | 23 | 4.8 | - | 88.53 | ANDAMAN ISL., INDIA REGION |
| #-332 | 3/10 | 22 | 13 | 53.4 | 10.310 | 93.750 | 23 | 4.7 | - | 87.92 | ANDAMAN ISL., INDIA REGION |
| #-333 | 3/11 | 3 | 5 | 24.6 | -22.596 | -179.609 | 552 | 4.3 | - | 84.24 | SOUTH OF THE FIJI ISLANDS |
| #-334 | 3/11 | 11 | 48 | 52.5 | 10.709 | 94.278 | 30 | 4.9 | - | 88.45 | ANDAMAN ISL., INDIA REGION |
| #-335 | 3/11 | 21 | 42 | 59.6 | 0.793 | 123.909 | 286 | 4.0 | - | 88.92 | MINAHASA, SULAWESI, IND. |
| #-336 | 3/12 | 7 | 12 | 38.5 | -15.195 | 167.648 | 104 | 4.6 | - | 88.35 | VANUATU |
| #-337 | 3/12 | 8 | 17 | 36.8 | -5.317 | 35.411 | 35 | 4.5 | - | 63.74 | TANZANIA |
| #-338 | 3/12 | 16 | 52 | 47.1 | 10.150 | 91.554 | 25 | 4.4 | - | 87.14 | ANDAMAN ISL., INDIA REGION |
| #-339 | 3/12 | 17 | 11 | 17.8 | -33.229 | 56.901 | 10 | 5.5 | 5.0 | 37.18 | SOUTHWEST INDIAN RIDGE |
| #-340 | 3/12 | 18 | 7 | 35.9 | -2.685 | 138.462 | 52 | 4.6 | - | 90.86 | PAPUA, INDONESIA |
| #-341 | 3/12 | 19 | 44 | 51.7 | 1.660 | 97.080 | 27 | 4.9 | 4.2 | 80.66 | NIAS REGION, INDONESIA |
| #-342 | 3/12 | 22 | 59 | 21.5 | 13.977 | 93.596 | 44 | 5.4 | - | 91.38 | ANDAMAN ISL., INDIA REGION |
| #-343 | 3/13 | 14 | 17 | 26.2 | -31.027 | -71.153 | 65 | 4.6 | - | 67.95 | COQUIMBO, CHILE |
| #-344 | 3/13 | 15 | 12 | 58.5 | -24.263 | -66.995 | 153 | 4.8 | - | 72.93 | SALTA, ARGENTINA |
| #-345 | 3/13 | 15 | 43 | 29.0 | -24.752 | 179.750 | 461 | 4.8 | - | 82.01 | SOUTH OF THE FIJI ISLANDS |
| #-346 | 3/14 | 0 | 6 | 12.3 | -10.257 | 161.099 | 81 | 4.6 | - | 91.20 | SOLOMON ISLANDS |
| #-347 | 3/14 | 4 | 3 | 17.0 | -28.381 | -68.807 | 112 | 4.7 | - | 69.67 | LA RIOJA, ARGENTINA |
| #-348 | 3/14 | 4 | 37 | 27.5 | -3.915 | 151.593 | 289 | 5.4 | - | 94.22 | NEW IRELAND REG, P.N.G. |
| #-349 | 3/14 | 6 | 57 | 33.9 | -3.593 | 127.211 | 31 | 6.4 | 6.7 | 86.00 | SERAM, INDONESIA |
| #-350 | 3/14 | 7 | 37 | 16.8 | -21.378 | 33.089 | 10 | 4.4 | - | 47.77 | MOZAMBIQUE |
| #-351 | 3/14 | 7 | 55 | 25.9 | -3.516 | 127.474 | 20 | 4.9 | - | 86.17 | SERAM, INDONESIA |
| #-352 | 3/14 | 9 | 8 | 34.4 | -30.912 | -72.015 | 34 | 4.5 | - | 68.32 | OFF COAST OF COQUIMBO, CHILE |
| #-353 | 3/14 | 14 | 4 | 12.3 | 47.957 | 147.248 | 414 | 5.3 | - | 140.21 | NORTHWEST OF KURIL ISLANDS |
| #-354 | 3/14 | 16 | 5 | 41.7 | -33.737 | -14.184 | 10 | 4.4 | - | 45.81 | SOUTHERN MID-ATLANTIC RIDGE |
| #-355 | 3/15 | 2 | 1 | 27.0 | -3.536 | 131.151 | 23 | 4.9 | - | 87.47 | CERAM SEA, INDONESIA |
| #-356 | 3/15 | 5 | 27 | 54.4 | -16.888 | 167.258 | 30 | 5.4 | - | 86.62 | VANUATU |
| #-357 | 3/15 | 8 | 6 | 5.6 | -19.603 | -68.913 | 114 | 4.8 | - | 77.91 | TARAPACA, CHILE |
| #-358 | 3/15 | 11 | 52 | 54.1 | -21.089 | 33.356 | 10 | 5.2 | 5.0 | 48.05 | MOZAMBIQUE |
| #-359 | 3/15 | 14 | 19 | 48.1 | -21.152 | 33.434 | 10 | 5.6 | 5.5 | 47.98 | MOZAMBIQUE |
| #-360 | 3/15 | 18 | 8 | 59.5 | -20.899 | 32.895 | 10 | 4.4 | - | 48.26 | ZIMBABWE |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|------------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-361 | 3/16 | 5 | 43 | 9.7 | -7.376 | 106.734 | 22 | 5.1 | - | 75.25 | JAVA, IND. |
| #-362 | 3/16 | 15 | 12 | 17.3 | 5.182 | 94.754 | 54 | 5.2 | - | 83.31 | NORTHERN SUMATRA, INDONESIA |
| #-363 | 3/16 | 21 | 50 | 17.1 | -7.169 | 125.826 | 453 | 4.9 | - | 82.17 | KEPULAUAN BARAT DAYA, IND. |
| #-364 | 3/17 | 13 | 7 | 20.0 | -7.460 | 125.136 | 378 | 5.3 | - | 81.65 | KEPULAUAN BARAT DAYA, IND. |
| #-365 | 3/17 | 13 | 35 | 33.1 | -15.002 | 167.426 | 114 | 5.2 | - | 88.47 | VANUATU |
| #-366 | 3/17 | 13 | 48 | 21.2 | -4.864 | 149.677 | 65 | 5.2 | - | 92.68 | BISMARCK SEA. |
| #-367 | 3/17 | 19 | 46 | 11.2 | -15.254 | -175.914 | 10 | 5.2 | 5.3 | 92.16 | TONGA |
| #-368 | 3/18 | 3 | 39 | 16.7 | 5.020 | 125.360 | 35 | 4.3 | - | 93.38 | MINDANAO, PHILIPPINES |
| #-369 | 3/18 | 5 | 11 | 22.7 | -23.321 | -176.281 | 100 | 4.7 | - | 84.20 | SOUTH OF THE FUJI ISLANDS |
| #-370 | 3/18 | 14 | 13 | 38.1 | -55.846 | -27.611 | 92 | 5.2 | - | 31.52 | SOUTH SANDWICH ISL REGION |
| #-371 | 3/18 | 15 | 49 | 39.5 | -58.944 | -25.368 | 75 | 4.6 | - | 28.39 | SOUTH SANDWICH ISL REGION |
| #-372 | 3/18 | 23 | 12 | 1.0 | -56.410 | -26.793 | 83 | 5.3 | - | 30.80 | SOUTH SANDWICH ISL REGION |
| #-373 | 3/19 | 4 | 24 | 32.2 | 4.104 | 96.022 | 49 | 5.3 | - | 82.66 | NORTHERN SUMATRA, INDONESIA |
| #-374 | 3/19 | 4 | 31 | 55.0 | -58.055 | -25.213 | 57 | 5.4 | - | 28.99 | SOUTH SANDWICH ISL REGION |
| #-375 | 3/19 | 4 | 36 | 52.7 | -13.463 | 172.371 | 10 | 5.7 | 5.4 | 91.25 | VANUATU REGION |
| #-376 | 3/19 | 10 | 56 | 38.3 | -22.251 | 170.510 | 12 | 5.3 | - | 82.31 | SOUTHEAST OF LOYALTY ISLANDS |
| #-377 | 3/19 | 12 | 1 | 14.9 | -25.441 | 179.518 | 453 | 4.3 | - | 81.29 | SOUTH OF THE FUJI ISLANDS |
| #-378 | 3/19 | 13 | 32 | 51.5 | -21.344 | -176.617 | 157 | 4.8 | - | 86.07 | FUJI REGION |
| #-379 | 3/19 | 19 | 11 | 5.7 | 10.698 | 94.375 | 20 | 4.7 | - | 88.47 | ANDAMAN ISL., INDIA REGION |
| #-380 | 3/19 | 20 | 2 | 2.0 | -14.448 | 167.177 | 184 | 4.7 | - | 88.94 | VANUATU |
| #-381 | 3/19 | 21 | 57 | 15.8 | 10.868 | 94.452 | 61 | 4.9 | - | 88.65 | ANDAMAN ISL., INDIA REGION |
| #-382 | 3/20 | 14 | 17 | 58.3 | -5.795 | 151.175 | 26 | 5.7 | 5.2 | 92.30 | NEW BRITAIN REGION, P.N.G. |
| #-383 | 3/20 | 14 | 29 | 21.6 | -5.762 | 151.344 | 25 | 4.7 | - | 92.39 | NEW BRITAIN REGION, P.N.G. |
| #-384 | 3/20 | 14 | 34 | 5.8 | -13.003 | 168.661 | 557 | 4.2 | - | 90.73 | VANUATU |
| #-385 | 3/20 | 14 | 35 | 1.6 | -5.886 | 151.229 | 24 | 5.4 | - | 92.24 | NEW BRITAIN REGION, P.N.G. |
| #-386 | 3/20 | 17 | 38 | 6.7 | -23.801 | 179.845 | 519 | 5.2 | - | 82.95 | SOUTH OF THE FUJI ISLANDS |
| #-387 | 3/20 | 17 | 40 | 44.7 | 34.821 | 73.776 | 10 | 5.5 | 4.6 | 106.95 | PAKISTAN |
| #-388 | 3/20 | 19 | 28 | 40.2 | 5.473 | 126.813 | 80 | 4.7 | - | 94.32 | MINDANAO, PHILIPPINES |
| #-389 | 3/20 | 19 | 44 | 24.6 | 36.602 | 5.387 | 10 | 5.0 | 4.9 | 108.49 | NORTHERN ALGERIA |
| #-390 | 3/22 | 11 | 35 | 13.5 | -21.379 | 33.019 | 10 | 4.9 | 4.7 | 47.77 | MOZAMBIQUE |
| #-391 | 3/22 | 11 | 51 | 0.3 | -21.665 | -68.526 | 105 | 4.7 | - | 75.86 | ANTOFAGASTA, CHILE |
| #-392 | 3/22 | 13 | 2 | 42.6 | 2.220 | 96.871 | 30 | 4.5 | - | 81.13 | SIMEULUE, INDONESIA |
| #-393 | 3/22 | 15 | 7 | 53.7 | -14.206 | -14.357 | 10 | 4.8 | - | 64.13 | SOUTHERN MID-ATLANTIC RIDGE |
| #-394 | 3/23 | 0 | 19 | 8.6 | 2.293 | 96.444 | 54 | 4.6 | - | 81.07 | SIMEULUE, INDONESIA |
| #-395 | 3/23 | 3 | 9 | 44.0 | -19.380 | -69.118 | 117 | 4.4 | - | 78.19 | TARAPACA, CHILE |
| #-396 | 3/23 | 3 | 25 | 27.0 | -30.068 | -177.962 | 54 | 5.1 | - | 77.29 | KERMADEC ISL., NEW ZEALAND |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-397 | 3/23 | 4 | 2 | 53.6 | -6.670 | 128.150 | 436 | 4.6 | - | 83.47 | BANDA SEA |
| #-398 | 3/23 | 6 | 14 | 42.1 | -21.258 | 33.270 | 10 | 4.8 | - | 47.88 | MOZAMBIQUE |
| #-399 | 3/23 | 13 | 57 | 41.6 | -62.490 | 165.172 | 10 | 5.2 | - | 43.08 | BALLENY ISLANDS REGION |
| #-400 | 3/23 | 20 | 42 | 45.6 | -19.990 | -176.370 | 10 | 4.7 | - | 87.44 | FUJI REGION |
| #-401 | 3/25 | 7 | 28 | 58.0 | 27.606 | 55.682 | 18 | 5.7 | 5.6 | 97.39 | SOUTHERN IRAN |
| #-402 | 3/25 | 10 | 10 | 3.1 | -19.812 | -175.401 | 86 | 4.7 | - | 87.80 | TONGA |
| #-403 | 3/25 | 10 | 19 | 11.2 | -20.942 | 32.990 | 10 | 4.5 | - | 48.21 | ZIMBABWE |
| #-404 | 3/25 | 10 | 42 | 28.4 | -23.062 | -176.814 | 67 | 5.2 | - | 84.35 | SOUTH OF THE FUJI ISLANDS |
| #-405 | 3/25 | 15 | 20 | 32.5 | -40.560 | 176.920 | 5 | 4.9 | - | 66.10 | NORTH ISLAND OF NEW ZEALAND |
| #-406 | 3/25 | 15 | 24 | 20.9 | -40.560 | 176.970 | 6 | 4.9 | - | 66.11 | NORTH ISLAND OF NEW ZEALAND |
| #-407 | 3/25 | 20 | 13 | 28.4 | 23.167 | 93.957 | 37 | 5.2 | - | 100.26 | MYANMAR-INDIA BORDER REGION |
| #-408 | 3/25 | 20 | 14 | 7.9 | 42.068 | -125.802 | 10 | 5.0 | - | 151.91 | OFF THE COAST OF OREGON |
| #-409 | 3/26 | 9 | 22 | 4.4 | -7.732 | 128.162 | 176 | 4.6 | - | 82.48 | KEPULAUAN BARAT DAYA, IND. |
| #-410 | 3/26 | 9 | 44 | 2.9 | -28.785 | -177.138 | 54 | 5.0 | - | 78.69 | KERMADEC ISLANDS REGION |
| #-411 | 3/26 | 22 | 57 | 16.5 | -20.210 | 169.340 | 96 | 4.4 | - | 83.97 | VANUATU |
| #-412 | 3/27 | 0 | 31 | 48.5 | -32.462 | -13.896 | 10 | 4.2 | - | 46.89 | SOUTHERN MID-ATLANTIC RIDGE |
| #-413 | 3/27 | 5 | 23 | 59.6 | -20.787 | -69.428 | 59 | 5.3 | - | 76.97 | TARAPACA, CHILE |
| #-414 | 3/27 | 6 | 29 | 53.0 | -6.060 | 154.080 | 112 | 4.3 | - | 93.00 | BOUGAINVILLE REG. P.N.G. |
| #-415 | 3/27 | 13 | 10 | 27.3 | -59.663 | -26.065 | 45 | 4.9 | - | 28.11 | SOUTH SANDWICH ISL REGION |
| #-416 | 3/27 | 20 | 8 | 26.9 | -17.792 | -178.931 | 538 | 5.2 | - | 89.07 | FUJI REGION |
| #-417 | 3/27 | 21 | 8 | 48.4 | -15.387 | 177.167 | 10 | 4.8 | - | 90.55 | FUJI |
| #-418 | 3/28 | 4 | 9 | 53.6 | -56.544 | -26.420 | 100 | 5.4 | - | 30.56 | SOUTH SANDWICH ISL REGION |
| #-419 | 3/28 | 6 | 53 | 53.6 | -21.967 | -179.570 | 562 | 4.2 | - | 84.86 | FUJI REGION |
| #-420 | 3/28 | 10 | 16 | 41.1 | -3.492 | 68.525 | 20 | 4.5 | - | 68.41 | CHAGOS ARCHIPELAGO REGION |
| #-421 | 3/28 | 13 | 32 | 47.6 | 31.690 | 137.765 | 400 | 5.7 | - | 122.47 | IZU ISLANDS, JAPAN REGION. |
| #-422 | 3/28 | 18 | 12 | 7.2 | 1.296 | 97.092 | 22 | 4.7 | - | 80.32 | NIAS REGION, INDONESIA |
| #-423 | 3/28 | 21 | 36 | 7.4 | 1.412 | 97.410 | 71 | 4.4 | - | 80.52 | NIAS REGION, INDONESIA |
| #-424 | 3/28 | 22 | 26 | 46.0 | 1.662 | 126.933 | 35 | 4.6 | - | 90.81 | MOLUCCA SEA |
| #-425 | 3/28 | 23 | 44 | 10.3 | -23.554 | -66.466 | 202 | 4.8 | - | 73.41 | JUJUY, ARGENTINA |
| #-426 | 3/29 | 2 | 8 | 41.5 | -23.487 | 179.790 | 583 | 4.2 | - | 83.25 | SOUTH OF THE FUJI ISLANDS |
| #-427 | 3/29 | 5 | 42 | 32.8 | -22.230 | -176.948 | 129 | 4.8 | - | 85.14 | SOUTH OF THE FUJI ISLANDS |
| #-428 | 3/29 | 6 | 38 | 23.9 | -22.919 | -175.107 | 46 | 5.3 | 5.0 | 84.81 | TONGA REGION |
| #-429 | 3/29 | 10 | 24 | 8.0 | -22.777 | -175.221 | 22 | 5.1 | - | 84.93 | TONGA REGION |
| #-430 | 3/29 | 10 | 43 | 27.6 | -50.261 | 135.313 | 10 | 5.3 | 5.0 | 46.15 | WESTERN INDIAN-ANTARCTIC RIDGE |
| #-431 | 3/29 | 15 | 58 | 22.6 | -22.900 | -175.174 | 25 | 5.4 | 4.9 | 84.82 | TONGA REGION |
| #-432 | 3/29 | 16 | 12 | 59.4 | -22.749 | -175.339 | 25 | 4.9 | - | 84.94 | TONGA REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-433 | 3/29 | 16 | 20 | 45.8 | -22.746 | -175.364 | 25 | 4.8 | - | 84.93 | TONGA REGION |
| #-434 | 3/29 | 16 | 48 | 39.1 | -22.740 | -175.440 | 25 | 4.6 | - | 84.93 | TONGA REGION |
| #-435 | 3/29 | 17 | 19 | 55.1 | -26.794 | -177.992 | 188 | 4.9 | - | 80.47 | SOUTH OF THE FIJI ISLANDS |
| #-436 | 3/29 | 17 | 49 | 8.2 | -23.699 | 178.850 | 516 | 4.5 | - | 82.84 | SOUTH OF THE FIJI ISLANDS |
| #-437 | 3/29 | 22 | 40 | 42.5 | -5.754 | 151.297 | 30 | 4.8 | - | 92.38 | NEW BRITAIN REG, P.N.G. |
| #-438 | 3/30 | 3 | 14 | 43.8 | -1.229 | -15.894 | 30 | 5.0 | - | 76.94 | NORTH OF ASCENSION ISLAND |
| #-439 | 3/30 | 19 | 36 | 17.4 | 33.654 | 48.877 | 10 | 5.2 | - | 102.92 | WESTERN IRAN |
| #-440 | 3/30 | 20 | 36 | 42.8 | -22.565 | -67.396 | 148 | 4.3 | - | 74.64 | POTOSI, BOLIVIA |
| #-441 | 3/31 | 1 | 17 | 1.2 | 33.581 | 48.794 | 7 | 5.7 | 6.0 | 102.84 | WESTERN IRAN |
| #-442 | 3/31 | 3 | 41 | 51.9 | -22.050 | -68.388 | 114 | 4.0 | - | 75.45 | ANTOFAGASTA, CHILE |
| #-443 | 3/31 | 7 | 25 | 5.0 | -22.595 | -177.739 | 276 | 5.0 | - | 84.62 | SOUTH OF THE FIJI ISLANDS |
| #-444 | 3/31 | 9 | 6 | 18.3 | 2.258 | 97.194 | 30 | 4.7 | - | 81.26 | NORTHERN SUMATRA, INDONESIA |
| #-445 | 3/31 | 13 | 21 | 0.4 | -29.611 | -176.777 | 17 | 5.9 | 6.7 | 77.96 | KERMADEC ISLANDS REGION |
| #-446 | 3/31 | 13 | 38 | 50.0 | 3.520 | -31.300 | 10 | 4.7 | - | 86.38 | CENTRAL MID-ATLANTIC RIDGE |
| #-447 | 3/31 | 14 | 5 | 41.8 | -29.432 | -176.879 | 10 | 5.2 | - | 78.11 | KERMADEC ISLANDS REGION |
| #-448 | 3/31 | 15 | 39 | 41.6 | 2.881 | 128.173 | 166 | 4.3 | - | 92.39 | HALMAHERA, INDONESIA |
| #-449 | 3/31 | 16 | 12 | 0.4 | -29.500 | -176.930 | 43 | 5.1 | - | 78.04 | KERMADEC ISLANDS REGION |
| #-450 | 3/31 | 20 | 18 | 50.0 | -29.585 | -176.803 | 44 | 4.9 | - | 77.98 | KERMADEC ISLANDS REGION |
| #-451 | 3/31 | 20 | 23 | 46.3 | -29.920 | -176.730 | 10 | 4.8 | - | 77.66 | KERMADEC ISLANDS REGION |
| #-452 | 3/31 | 20 | 38 | 32.1 | -29.411 | -176.629 | 10 | 5.2 | - | 78.18 | KERMADEC ISLANDS REGION |
| #-453 | 3/31 | 21 | 14 | 46.8 | 3.814 | 126.454 | 51 | 5.8 | 5.7 | 92.65 | KEPULAUAN TALAUD, INDONESIA |
| #-454 | 4/1 | 3 | 40 | 45.7 | -28.992 | -176.895 | 10 | 4.8 | - | 78.54 | KERMADEC ISLANDS REGION |
| #-455 | 4/1 | 4 | 23 | 36.2 | -29.863 | -178.072 | 10 | 4.4 | - | 77.46 | KERMADEC ISL, NEW ZEALAND |
| #-456 | 4/1 | 5 | 15 | 30.0 | -29.589 | -177.140 | 10 | 5.3 | 5.4 | 77.91 | KERMADEC ISLANDS, NEW ZEALAND |
| #-457 | 4/1 | 5 | 44 | 17.8 | 18.562 | 145.280 | 523 | 5.1 | - | 113.10 | PAGAN REGION, N MARIANA ISL |
| #-458 | 4/1 | 5 | 49 | 16.1 | -29.281 | -177.007 | 10 | 4.8 | - | 78.23 | KERMADEC ISL, NEW ZEALAND |
| #-459 | 4/1 | 6 | 9 | 52.3 | -29.828 | -177.887 | 31 | 4.7 | - | 77.53 | KERMADEC ISL, NEW ZEALAND |
| #-460 | 4/1 | 6 | 25 | 43.8 | -29.185 | -177.206 | 40 | 5.0 | - | 78.29 | KERMADEC ISL, NEW ZEALAND |
| #-461 | 4/1 | 10 | 2 | 19.6 | 22.887 | 121.281 | 9 | 6.0 | 6.1 | 108.59 | TAIWAN REGION |
| #-462 | 4/1 | 10 | 34 | 48.2 | 2.258 | 94.925 | 28 | 5.1 | - | 80.57 | OFF WEST COAST OF N SUMATRA |
| #-463 | 4/1 | 11 | 27 | 9.1 | -18.775 | 169.230 | 252 | 4.5 | - | 85.33 | VANUATU |
| #-464 | 4/1 | 11 | 29 | 55.8 | -29.576 | -177.117 | 10 | 5.1 | - | 77.93 | KERMADEC ISL, NEW ZEALAND |
| #-465 | 4/1 | 13 | 41 | 25.3 | -29.631 | -176.972 | 10 | 5.1 | - | 77.90 | KERMADEC ISLANDS REGION |
| #-466 | 4/1 | 13 | 43 | 31.0 | -29.661 | -177.226 | 10 | 5.1 | - | 77.82 | KERMADEC ISL, NEW ZEALAND |
| #-467 | 4/1 | 17 | 55 | 55.6 | -29.592 | -176.780 | 10 | 5.2 | 5.0 | 77.97 | KERMADEC ISLANDS REGION |
| #-468 | 4/1 | 20 | 57 | 29.4 | -18.998 | -173.373 | 78 | 5.0 | - | 88.97 | TONGA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-----------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-469 | 4/1 | 21 | 16 | 9.6 | -4.857 | 126.565 | 425 | 5.0 | - | 84.59 | BANDA SEA |
| #-470 | 4/1 | 21 | 50 | 11.3 | 3.684 | 126.667 | 100 | 5.0 | - | 92.60 | KEPULAUAN TALAUD, INDONESIA |
| #-471 | 4/2 | 4 | 55 | 33.8 | -65.725 | -176.110 | 10 | 4.8 | - | 43.06 | PACIFIC-ANTARCTIC RIDGE |
| #-472 | 4/2 | 5 | 23 | 30.7 | -5.091 | 152.517 | 64 | 5.0 | - | 93.41 | NEW BRITAIN REG, P.N.G. |
| #-473 | 4/2 | 8 | 30 | 27.2 | 2.439 | 96.390 | 27 | 5.2 | 4.9 | 81.19 | SIMEULUE, IND. |
| #-474 | 4/2 | 22 | 59 | 34.8 | -29.246 | -176.720 | 10 | 5.0 | - | 78.32 | KERMADEC ISLANDS REGION |
| #-475 | 4/3 | 1 | 22 | 21.6 | -3.442 | 127.593 | 35 | 4.8 | - | 86.28 | SERAM, INDONESIA |
| #-476 | 4/3 | 1 | 28 | 1.3 | -29.700 | -178.210 | 10 | 4.6 | - | 77.60 | KERMADEC ISL, NEW ZEALAND |
| #-477 | 4/3 | 1 | 41 | 23.7 | -28.845 | -178.062 | 35 | 4.9 | - | 78.46 | KERMADEC ISLANDS REGION |
| #-478 | 4/3 | 1 | 55 | 55.0 | -29.370 | -177.740 | 10 | 4.8 | - | 78.01 | KERMADEC ISL, NEW ZEALAND |
| #-479 | 4/3 | 3 | 33 | 47.2 | -8.872 | -71.075 | 594 | 4.3 | - | 88.71 | ACRE, BRAZIL |
| #-480 | 4/3 | 19 | 12 | 46.8 | -10.904 | 165.956 | 50 | 5.0 | - | 92.00 | SANTA CRUZ ISLANDS |
| #-481 | 4/4 | 1 | 43 | 35.9 | -56.465 | -26.988 | 124 | 5.3 | - | 30.83 | SOUTH SANDWICH ISL REGION |
| #-482 | 4/4 | 5 | 47 | 29.7 | -23.616 | -66.536 | 171 | 4.6 | - | 73.38 | JUJUY, ARGENTINA |
| #-483 | 4/4 | 10 | 36 | 59.2 | 0.293 | 97.354 | 34 | 5.3 | 5.0 | 79.44 | NIAS REGION, INDONESIA |
| #-484 | 4/4 | 10 | 47 | 15.8 | -29.049 | -176.891 | 10 | 5.0 | - | 78.48 | KERMADEC ISLANDS REGION |
| #-485 | 4/4 | 12 | 4 | 30.9 | 16.308 | 93.079 | 25 | 4.6 | - | 93.46 | BAY OF BENGAL |
| #-486 | 4/4 | 20 | 15 | 50.1 | -29.311 | -176.940 | 10 | 5.4 | 5.2 | 78.22 | KERMADEC ISLANDS REGION |
| #-487 | 4/5 | 0 | 27 | 40.0 | -28.590 | -178.350 | 10 | 5.0 | - | 78.65 | KERMADEC ISLANDS REGION |
| #-488 | 4/5 | 1 | 20 | 6.6 | -18.405 | -177.980 | 555 | 4.2 | - | 88.67 | FIJI REGION |
| #-489 | 4/5 | 1 | 34 | 18.6 | -32.107 | -70.163 | 89 | 4.7 | - | 66.64 | SAN JUAN, ARGENTINA |
| #-490 | 4/5 | 3 | 19 | 49.5 | -12.187 | 117.896 | 35 | 4.3 | - | 74.66 | SOUTH OF SUMBAWA, INDONESIA |
| #-491 | 4/5 | 13 | 26 | 7.0 | -5.852 | 150.968 | 41 | 5.0 | - | 92.18 | NEW BRITAIN REG, P.N.G. |
| #-492 | 4/5 | 15 | 40 | 52.1 | -20.976 | -179.284 | 598 | 5.0 | - | 85.89 | FIJI REGION |
| #-493 | 4/5 | 17 | 43 | 15.5 | -37.352 | 78.320 | 10 | 5.2 | 5.5 | 38.12 | MID-INDIAN RIDGE |
| #-494 | 4/5 | 18 | 35 | 12.9 | 4.682 | 93.044 | 30 | 4.9 | - | 82.33 | OFF WEST COAST OF N SUMATRA |
| #-495 | 4/5 | 22 | 1 | 8.8 | -29.475 | -177.506 | 60 | 5.3 | - | 77.95 | KERMADEC ISL, NEW ZEALAND |
| #-496 | 4/5 | 22 | 49 | 13.9 | -29.413 | -177.590 | 10 | 5.3 | - | 78.00 | KERMADEC ISL, NEW ZEALAND |
| #-497 | 4/5 | 23 | 24 | 11.9 | 0.032 | 123.388 | 154 | 4.3 | - | 88.02 | MINAHASA, SULAWESI, IND. |
| #-498 | 4/6 | 4 | 35 | 54.9 | -29.450 | -177.290 | 55 | 4.9 | - | 78.02 | KERMADEC ISL, NEW ZEALAND |
| #-499 | 4/6 | 11 | 3 | 7.0 | -6.153 | 154.213 | 37 | 4.7 | - | 92.96 | BOUGAINVILLE REG, P.N.G. |
| #-500 | 4/6 | 12 | 2 | 55.2 | 23.737 | 70.731 | 10 | 4.9 | - | 95.56 | GUJARAT, INDIA |
| #-501 | 4/6 | 17 | 59 | 16.4 | 23.279 | 70.424 | 10 | 5.5 | 5.3 | 95.06 | GUJARAT, INDIA |
| #-502 | 4/7 | 2 | 28 | 55.9 | 4.970 | 95.060 | 30 | 4.4 | - | 83.20 | NORTHERN SUMATRA, INDONESIA |
| #-503 | 4/7 | 3 | 24 | 59.7 | -58.005 | -24.319 | 42 | 4.8 | - | 28.72 | SOUTH SANDWICH ISL REGION |
| #-504 | 4/7 | 4 | 56 | 54.0 | -10.780 | 162.020 | 125 | 4.3 | - | 90.98 | SOLOMON ISLANDS |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|-------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------|
| | | UTC h | m | s | | | | Mb | Ms | | |
| #-505 | 4/7 | 5 | 12 | 17.3 | 4.710 | 94.790 | 30 | 4.5 | - | 82.87 | OFF WEST COAST OF N SUMATRA |
| #-506 | 4/7 | 5 | 52 | 0.3 | -6.120 | 153.110 | 38 | 4.4 | - | 92.63 | NEW BRITAIN REG, P.N.G. |
| #-507 | 4/7 | 8 | 30 | 45.6 | -16.535 | 176.994 | 22 | 5.9 | 6.4 | 89.39 | FIJI REGION |
| #-508 | 4/7 | 14 | 30 | 41.7 | -17.926 | -178.506 | 563 | 4.2 | - | 89.03 | FIJI REGION |
| #-509 | 4/7 | 15 | 19 | 29.9 | -29.482 | -176.972 | 10 | 5.2 | - | 78.04 | KERMADEC ISLANDS REGION |
| #-510 | 4/7 | 19 | 58 | 46.2 | -23.285 | -175.111 | 10 | 5.1 | - | 84.45 | TONGA REGION |
| #-511 | 4/7 | 23 | 41 | 3.5 | 10.795 | 92.080 | 30 | 4.5 | - | 87.91 | ANDAMAN ISL, INDIA REGION |
| #-512 | 4/8 | 2 | 49 | 40.9 | -9.269 | -79.113 | 57 | 4.2 | - | 90.93 | OFF THE COAST OF NORTHERN PERU |
| #-513 | 4/8 | 3 | 8 | 3.5 | -6.411 | 154.185 | 77 | 5.0 | - | 92.70 | MOUAINVILLE REG, P.N.G. |
| #-514 | 4/8 | 7 | 47 | 31.2 | -7.490 | 128.530 | 121 | 4.5 | - | 82.84 | KEPULAUAN BARAT DAYA, IND. |
| #-515 | 4/8 | 8 | 4 | 4.0 | -23.080 | 179.124 | 545 | 4.7 | - | 83.50 | SOUTH OF THE FIJI ISLANDS |
| #-516 | 4/8 | 9 | 56 | 54.2 | -5.299 | 103.639 | 61 | 4.5 | - | 76.17 | S SUMATRA, INDONESIA |
| #-517 | 4/8 | 13 | 27 | 39.4 | -7.018 | 125.139 | 525 | 4.2 | - | 82.06 | KEPULAUAN BARAT DAYA, IND. |
| #-518 | 4/8 | 15 | 41 | 38.1 | -38.360 | 176.040 | 158 | 4.2 | - | 68.04 | NORTH ISLAND OF NEW ZEALAND |
| #-519 | 4/8 | 22 | 3 | 4.1 | -0.125 | -18.130 | 10 | 5.0 | - | 78.67 | CENTRAL MID-ATLANTIC RIDGE |
| #-520 | 4/9 | 11 | 6 | 5.1 | -13.750 | -14.541 | 10 | 4.4 | - | 64.62 | SOUTHERN MID-ATLANTIC RIDGE |
| #-521 | 4/9 | 12 | 22 | 6.0 | 4.080 | 126.500 | 20 | 4.6 | - | 92.91 | KEPULAUAN TALAUD, INDONESIA |
| #-522 | 4/9 | 14 | 58 | 14.8 | -18.963 | 169.284 | 300 | 4.8 | - | 85.16 | VANUATU |
| #-523 | 4/9 | 16 | 27 | 48.0 | 13.190 | -89.077 | 64 | 5.1 | 4.5 | 115.35 | OFFSHORE EL SALVADOR |
| #-524 | 4/9 | 23 | 48 | 19.2 | -5.600 | 147.883 | 181 | 5.1 | - | 91.39 | E NEW GUINEA REG, P.N.G. |
| #-525 | 4/10 | 2 | 36 | 37.3 | -0.652 | 99.941 | 30 | 5.2 | - | 79.36 | SOUTHERN SUMATRA, INDONESIA |
| #-526 | 4/10 | 11 | 25 | 59.5 | 43.671 | 144.733 | 120 | 5.5 | - | 135.64 | HOKKAIDO, JAPAN REGION |
| #-527 | 4/10 | 13 | 36 | 47.6 | 14.596 | 40.013 | 10 | 4.7 | - | 83.61 | ERITREA - ETHIOPIA REGION |
| #-528 | 4/10 | 14 | 17 | 9.5 | -29.391 | -177.524 | 54 | 4.8 | - | 78.03 | KERMADEC ISL, NEW ZEALAND |
| #-529 | 4/10 | 15 | 0 | 32.7 | 32.840 | 137.861 | 320 | 4.5 | - | 123.55 | IZU ISLANDS, JAPAN REGION |
| #-530 | 4/10 | 22 | 5 | 46.0 | 23.520 | 70.045 | 35 | 4.8 | - | 95.23 | GUJARAT, INDIA |
| #-531 | 4/10 | 23 | 1 | 45.3 | -14.971 | -174.376 | 61 | 4.7 | - | 92.74 | SAMOA ISLANDS REGION |
| #-532 | 4/10 | 23 | 3 | 37.2 | -1.724 | 67.825 | 10 | 4.9 | - | 70.01 | CARLSBERG RIDGE |
| #-533 | 4/11 | 2 | 37 | 0.2 | -14.819 | -73.933 | 100 | 4.6 | - | 84.04 | CENTRAL PERU |
| #-534 | 4/11 | 7 | 9 | 0.4 | -21.897 | -179.732 | 607 | 4.6 | - | 84.90 | FIJI REGION |
| #-535 | 4/11 | 10 | 33 | 23.0 | -13.180 | 166.615 | 138 | 4.9 | - | 90.00 | VANUATU |
| #-536 | 4/11 | 16 | 32 | 53.8 | -0.299 | 125.052 | 35 | 4.9 | - | 88.30 | MOLUCCA SEA |
| #-537 | 4/12 | 5 | 36 | 50.9 | 19.917 | 121.472 | 37 | 5.0 | - | 105.89 | BABUYAN ISL REG, PHILIPPINES |
| #-538 | 4/12 | 7 | 8 | 8.7 | -8.091 | -74.245 | 156 | 4.4 | - | 90.49 | CENTRAL PERU |
| #-539 | 4/12 | 8 | 59 | 22.0 | -23.879 | -66.601 | 194 | 4.4 | - | 73.15 | JUJUY, ARGENTINA |
| #-540 | 4/12 | 16 | 52 | 3.6 | 37.612 | 21.010 | 30 | 5.4 | 5.4 | 107.45 | SOUTHERN GREECE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic | | Coordinates | | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|-------------------|--------------------|------------|----------|-------------|-----|---------------|-----------|---|---------------------------------|--------|
| | | UTC h m s | Latitude (deg) | Longitude (deg) | Mb | Ms | | | | | | | |
| #-541 | 4/13 | 6 | 6 | 33.5 | -29.730 | -176.960 | 10 | 4.9 | - | 77.80 | KERMADEC ISLANDS REGION | | |
| #-542 | 4/13 | 8 | 35 | 51.8 | 56.169 | 164.112 | 31 | 5.4 | 4.5 | 152.90 | KOMANDORSKIYE OSTROVA, RUSSIA REGION | | |
| #-543 | 4/13 | 13 | 53 | 25.5 | 1.814 | 97.627 | 30 | 4.5 | - | 80.97 | NIAS REGION, INDONESIA | | |
| #-544 | 4/14 | 3 | 30 | 19.6 | -25.932 | -177.805 | 153 | 5.0 | - | 81.35 | SOUTH OF THE FIJI ISLANDS | | |
| #-545 | 4/14 | 18 | 41 | 39.8 | -21.382 | 33.544 | 27 | 5.4 | - | 47.74 | MOZAMBIQUE | | |
| #-546 | 4/15 | 7 | 48 | 47.8 | -28.520 | -177.970 | 15 | 4.7 | - | 78.79 | KERMADEC ISLANDS REGION | | |
| #-547 | 4/16 | 16 | 41 | 58.2 | -21.191 | -68.408 | 135 | 4.7 | - | 76.26 | ANTOFAGASTA, CHILE | | |
| #-548 | 4/16 | 17 | 46 | 16.6 | 4.579 | 125.445 | 191 | 5.5 | - | - | KEPULAUAN SANGIHE, INDONESIA | | |
| #-549 | 4/17 | 20 | 35 | 0.8 | -34.502 | -72.340 | 31 | 5.0 | - | 65.08 | OFFSHORE LIBERTADO O'HIGGINS, CHILE | | |
| #-550 | 4/18 | 13 | 40 | 44.7 | -17.209 | 168.901 | 297 | 4.6 | - | 86.75 | VANUATU | | |
| #-551 | 4/18 | 17 | 41 | 34.5 | -12.578 | 166.373 | 35 | 4.8 | - | 90.51 | SANTA CRUZ ISLANDS | | |
| #-552 | 4/18 | 20 | 3 | 14.1 | -12.547 | 166.186 | 53 | 5.1 | - | 90.49 | SANTACRUZIS | | |
| #-553 | 4/19 | 12 | 13 | 45.5 | -20.318 | -178.611 | 598 | 4.8 | - | 86.67 | FIJI REGION | | |
| #-554 | 4/19 | 13 | 3 | 45.7 | -17.549 | -70.533 | 104 | 4.5 | - | 80.37 | SOUTHERN PERU | | |
| #-555 | 4/19 | 15 | 30 | 6.7 | -20.885 | -174.535 | 15 | 4.9 | 4.7 | 86.91 | TONGA | | |
| #-556 | 4/19 | 17 | 49 | 4.0 | -27.073 | -71.225 | 14 | 5.2 | - | 71.66 | OFFSHORE ATACAMA, CHILE | | |
| #-557 | 4/19 | 17 | 52 | 52.1 | -26.940 | -71.012 | 10 | 5.1 | - | 71.72 | OFFSHORE ATACAMA, CHILE | | |
| #-558 | 4/19 | 19 | 51 | 4.1 | 1.606 | 96.895 | 25 | 4.7 | - | 80.55 | NIAS REGION, INDONESIA | | |
| #-559 | 4/19 | 20 | 34 | 14.9 | -5.384 | 102.953 | 44 | 4.6 | - | 75.86 | SOUTHERN SUMATRA, INDONESIA | | |
| #-560 | 4/19 | 20 | 36 | 48.7 | 2.699 | 93.143 | 30 | 5.8 | 5.8 | 80.46 | OFF THE WEST COAST OF NORTHERN SUMATRA | | |
| #-561 | 4/20 | 3 | 20 | 32.3 | -5.820 | 146.610 | 110 | 4.3 | - | 90.75 | E NEW GUINEA REG, P.N.G. | | |
| #-562 | 4/20 | 8 | 10 | 45.5 | -12.579 | 166.375 | 10 | 5.1 | - | 90.51 | SANTA CRUZ ISLANDS | | |
| #-563 | 4/20 | 10 | 39 | 40.6 | -17.785 | 168.417 | 90 | 5.1 | - | 86.06 | VANUATU | | |
| #-564 | 4/20 | 15 | 12 | 18.3 | -49.413 | -8.065 | 10 | 4.8 | - | 29.80 | SOUTHERN MID-ATLANTIC RIDGE | | |
| #-565 | 4/20 | 16 | 50 | 14.8 | -49.390 | -7.971 | 10 | 4.8 | - | 29.79 | SOUTHERN MID-ATLANTIC RIDGE | | |
| #-566 | 4/20 | 17 | 50 | 39.9 | 34.852 | 139.152 | 22 | 5.3 | 5.3 | 125.82 | NEAR THE SOUTH COAST OF HONSHU, JAPAN | | |
| #-567 | 4/21 | 1 | 44 | 12.2 | 60.628 | 166.112 | 32 | 5.1 | - | 156.87 | NR E COAST KORYAKIA, RUSSIA | | |
| #-568 | 4/21 | 2 | 33 | 44.2 | 60.909 | 167.033 | 10 | 5.1 | - | 157.39 | NR E COAST KORYAKIA, RUSSIA | | |
| #-569 | 4/21 | 4 | 32 | 43.8 | 60.592 | 165.776 | 9 | 6.2 | 5.6 | 156.72 | NEAR THE EAST COAST OF KORYAKIA, RUSSIA | | |
| #-570 | 4/21 | 11 | 14 | 15.3 | 61.379 | 167.533 | 12 | 5.8 | 6.0 | 157.88 | KORYAKIA, RUSSIA | | |
| #-571 | 4/21 | 14 | 22 | 29.4 | 6.737 | 126.208 | 102 | 5.1 | - | 95.29 | MINDANAO, PHILIPPINES | | |
| #-572 | 4/21 | 19 | 3 | 5.5 | -18.376 | -178.009 | 514 | 4.9 | - | 88.69 | FIJI REGION | | |
| #-573 | 4/21 | 20 | 50 | 5.6 | 61.060 | 166.783 | 14 | 5.2 | - | 157.40 | KORYAKIA, RUSSIA | | |
| #-574 | 4/24 | 13 | 32 | 39.4 | -8.239 | 119.714 | 173 | 5.3 | - | 78.99 | FLORES REGION, INDONESIA | | |
| #-575 | 4/24 | 13 | 55 | 37.7 | -0.177 | 125.261 | 75 | 4.8 | - | 88.49 | MOLUCCA SEA | | |
| #-576 | 4/24 | 16 | 28 | 58.6 | -20.201 | -177.714 | 478 | 4.7 | - | 86.97 | FIJI REGION | | |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-577 | 4/24 | 20 | 5 | 21.8 | -9.594 | 113.016 | 27 | 5.1 | - | 75.35 | SOUTH OF JAVA, INDONESIA |
| #-578 | 4/25 | 18 | 26 | 16.7 | 1.950 | 96.975 | 21 | 5.9 | 6.2 | 80.90 | NIAS REGION, INDONESIA |
| #-579 | 4/26 | 4 | 28 | 15.6 | -26.100 | -70.679 | 41 | 4.7 | - | 72.40 | OFFSHORE ATACAMA, CHILE |
| #-580 | 4/29 | 16 | 58 | 6.2 | 60.502 | 167.506 | 11 | 6.2 | 6.0 | 157.28 | NEAR THE EAST COAST OF KORYAKIA, RUSSIA |
| #-581 | 4/30 | 3 | 51 | 28.5 | -59.594 | -26.207 | 27 | 5.3 | - | 28.21 | SOUTH SANDWICH ISL REGION |
| #-582 | 4/30 | 8 | 17 | 37.3 | -15.145 | 167.419 | 151 | 5.3 | - | 88.33 | VANUATU |
| #-583 | 4/30 | 11 | 14 | 1.2 | -26.900 | -70.911 | 31 | 5.2 | - | 71.73 | OFFSHORE ATACAMA, CHILE |
| #-584 | 4/30 | 14 | 5 | 46.1 | -55.904 | -27.630 | 101 | 5.2 | - | 31.49 | SOUTH SANDWICH ISL REGION |
| #-585 | 4/30 | 19 | 17 | 14.7 | -26.933 | -70.854 | 10 | 6.1 | 6.2 | 71.68 | OFFSHORE ATACAMA, CHILE |
| #-586 | 4/30 | 19 | 26 | 14.1 | -27.055 | -70.980 | 10 | 5.1 | - | 71.60 | OFFSHORE ATACAMA, CHILE |
| #-587 | 4/30 | 19 | 33 | 18.5 | -15.590 | -173.088 | 10 | 5.8 | 5.9 | 92.37 | TONGA |
| #-588 | 4/30 | 20 | 9 | 27.8 | -26.978 | -71.097 | 10 | 5.3 | - | 71.71 | OFFSHORE ATACAMA, CHILE |
| #-589 | 4/30 | 20 | 12 | 19.3 | -26.885 | -70.906 | 10 | 5.3 | - | 71.74 | OFFSHORE ATACAMA, CHILE |
| #-590 | 4/30 | 20 | 48 | 52.6 | -26.937 | -70.923 | 35 | 4.1 | - | 71.69 | OFFSHORE ATACAMA, CHILE |
| #-591 | 4/30 | 21 | 59 | 52.4 | -27.191 | -71.084 | 30 | 5.4 | - | 71.51 | OFFSHORE ATACAMA, CHILE |
| #-592 | 4/30 | 22 | 55 | 57.1 | -26.992 | -70.652 | 27 | 5.2 | - | 71.56 | ATACAMA, CHILE |
| #-593 | 5/1 | 1 | 35 | 52.2 | -27.014 | -70.744 | 30 | 5.3 | - | 71.57 | ATACAMA, CHILE |
| #-594 | 5/1 | 2 | 49 | 42.3 | -27.139 | -70.645 | 30 | 5.0 | - | 71.42 | ATACAMA, CHILE |
| #-595 | 5/1 | 21 | 40 | 47.6 | -28.304 | -176.942 | 10 | 5.2 | - | 79.20 | KERMADEC ISLANDS REGION |
| #-596 | 5/2 | 21 | 6 | 8.7 | -26.953 | -70.960 | 20 | 4.7 | - | 71.69 | OFFSHORE ATACAMA, CHILE |
| #-597 | 5/3 | 17 | 56 | 24.2 | -20.421 | -174.234 | 15 | 5.5 | - | 87.42 | TONGA |
| #-598 | 5/3 | 23 | 56 | 18.7 | -14.660 | 167.074 | 260 | 5.2 | - | 88.70 | VANUATU |
| #-599 | 5/4 | 4 | 26 | 36.5 | -19.932 | -173.954 | 27 | 5.0 | - | 87.95 | TONGA |
| #-600 | 5/4 | 4 | 55 | 45.4 | -21.024 | -174.362 | 50 | 5.4 | - | 86.81 | TONGA |
| #-601 | 5/4 | 5 | 1 | 46.3 | -21.364 | -174.272 | 50 | 4.9 | - | 86.49 | TONGA |
| #-602 | 5/4 | 5 | 53 | 51.5 | -15.652 | 167.826 | 145 | 4.8 | - | 87.96 | VANUATU |
| #-603 | 5/4 | 11 | 18 | 20.7 | -2.508 | 141.698 | 30 | 4.6 | - | 92.16 | NR N CST NEW GUINEA, P.N.G. |
| #-604 | 5/4 | 11 | 25 | 26.2 | -20.521 | -174.030 | 11 | 5.7 | 5.8 | 87.36 | TONGA |
| #-605 | 5/4 | 11 | 58 | 18.6 | -20.639 | -174.217 | 18 | 5.2 | - | 87.21 | TONGA |
| #-606 | 5/4 | 14 | 21 | 37.7 | -20.308 | -174.100 | 15 | 4.9 | - | 87.56 | TONGA |
| #-607 | 5/4 | 16 | 18 | 18.5 | -5.188 | 150.469 | 256 | 4.5 | - | 92.64 | NEW BRITAIN REG, P.N.G. |
| #-608 | 5/4 | 17 | 22 | 54.3 | -20.254 | -174.113 | 15 | 4.9 | - | 87.61 | TONGA |
| #-609 | 5/4 | 23 | 0 | 31.3 | -20.607 | -174.209 | 15 | 4.8 | - | 87.24 | TONGA |
| #-610 | 5/5 | 2 | 49 | 19.7 | -20.208 | -173.974 | 35 | 4.9 | - | 87.68 | TONGA |
| #-611 | 5/5 | 4 | 19 | 45.2 | -20.228 | -173.814 | 39 | 5.6 | - | 87.69 | TONGA |
| #-612 | 5/5 | 6 | 16 | 20.3 | -19.818 | -174.599 | 35 | 5.6 | - | 87.95 | TONGA |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-----------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-613 | 5/5 | 8 | 4 | 21.0 | -27.138 | -70.816 | 31 | 4.8 | - | 71.47 | ATACAMA, CHILE |
| #-614 | 5/5 | 16 | 23 | 50.7 | -20.345 | -173.929 | 2 | 5.2 | - | 87.55 | TONGA |
| #-615 | 5/6 | 2 | 29 | 31.5 | -24.903 | 179.642 | 518 | 5.3 | - | 81.84 | SOUTH OF THE FIJI ISLANDS |
| #-616 | 5/6 | 18 | 26 | 51.5 | -38.607 | 78.843 | 10 | 5.3 | 5.3 | 37.11 | MID-INDIAN RIDGE |
| #-617 | 5/7 | 2 | 33 | 47.1 | -20.118 | -174.389 | 41 | 5.4 | - | 87.69 | TONGA |
| #-618 | 5/7 | 11 | 56 | 30.9 | -21.062 | -174.160 | 40 | 5.1 | 4.9 | 86.81 | TONGA |
| #-619 | 5/7 | 12 | 30 | 30.2 | -20.033 | -174.154 | 15 | 5.0 | - | 87.82 | TONGA |
| #-620 | 5/7 | 14 | 17 | 35.3 | -36.787 | 78.562 | 10 | 5.6 | 5.8 | 38.71 | MID-INDIAN RIDGE |
| #-621 | 5/7 | 16 | 45 | 7.0 | -36.802 | 78.582 | 10 | 5.1 | 5.2 | 38.70 | MID-INDIAN RIDGE |
| #-622 | 5/8 | 1 | 43 | 43.5 | 3.306 | 97.087 | 18 | 5.2 | - | 82.23 | NORTHERN SUMATRA, INDONESIA |
| #-623 | 5/10 | 2 | 16 | 30.2 | -21.259 | -174.544 | 35 | 5.2 | - | 86.54 | TONGA |
| #-624 | 5/10 | 18 | 42 | 2.1 | -22.475 | -176.528 | 113 | 4.8 | - | 84.98 | SOUTH OF THE FIJI ISLANDS |
| #-625 | 5/11 | 17 | 22 | 54.0 | 23.322 | 94.311 | 48 | 5.7 | 5.7 | 100.51 | MYANMAR |
| #-626 | 5/12 | 8 | 16 | 56.7 | -5.594 | 105.392 | 18 | 5.4 | 4.8 | 76.48 | SUNDA STRAIT, INDONESIA |
| #-627 | 5/12 | 15 | 0 | 52.7 | 1.742 | 126.609 | 72 | 4.6 | - | 90.77 | MOLUCCA SEA |
| #-628 | 5/12 | 20 | 15 | 23.8 | 3.658 | 126.519 | 98 | 5.1 | - | 92.52 | KEPULAUAN TALAUD, INDONESIA |
| #-629 | 5/13 | 3 | 11 | 42.7 | 5.523 | 94.422 | 43 | 6.0 | 5.1 | 83.54 | NORTHERN SUMATRA, INDONESIA |
| #-630 | 5/13 | 8 | 16 | 5.0 | -20.467 | -174.117 | 49 | 4.9 | - | 87.40 | TONGA |
| #-631 | 5/13 | 15 | 48 | 17.5 | -29.910 | -177.710 | 80 | 4.8 | - | 77.49 | KERMADEC ISL, NEW ZEALAND |
| #-632 | 5/13 | 19 | 55 | 49.1 | -20.137 | 169.054 | 93 | 5.0 | - | 83.97 | VANUATU |
| #-633 | 5/13 | 23 | 53 | 32.3 | -55.991 | -27.624 | 105 | 5.3 | - | 31.42 | SOUTH SANDWICH ISL REGION |
| #-634 | 5/14 | 4 | 13 | 0.9 | -6.994 | 129.718 | 61 | 5.0 | - | 83.73 | BANDA SEA |
| #-635 | 5/14 | 4 | 54 | 16.0 | -20.102 | -174.614 | 50 | 4.8 | - | 87.66 | TONGA |
| #-636 | 5/14 | 7 | 42 | 53.5 | -1.287 | 127.653 | 35 | 5.3 | - | 88.31 | KEPULAUAN OBI |
| #-637 | 5/14 | 15 | 5 | 13.1 | -6.296 | 147.441 | 96 | 5.0 | - | 90.58 | E NEW GUINEA |
| #-638 | 5/14 | 17 | 5 | 3.5 | -21.062 | -68.625 | 110 | 5.0 | - | 76.45 | ANTOFAGASTA, CHILE |
| #-639 | 5/15 | 8 | 49 | 33.5 | -21.203 | -174.203 | 42 | 4.8 | - | 86.66 | TONGA |
| #-640 | 5/15 | 13 | 56 | 13.3 | -21.366 | 33.375 | 10 | 4.6 | - | 47.77 | MOZAMBIQUE |
| #-641 | 5/15 | 17 | 4 | 43.8 | -20.073 | -178.233 | 580 | 4.9 | - | 86.99 | FIJI REGION |
| #-642 | 5/15 | 17 | 40 | 34.0 | -14.662 | 66.339 | 10 | 4.7 | - | 57.03 | MID-INDIAN RIDGE |
| #-643 | 5/15 | 21 | 34 | 8.8 | -14.682 | 66.303 | 10 | 5.0 | - | 57.00 | MID-INDIAN RIDGE |
| #-644 | 5/15 | 23 | 35 | 45.9 | -19.850 | -174.802 | 46 | 5.0 | - | 87.88 | TONGA |
| #-645 | 5/16 | 0 | 19 | 36.6 | -14.748 | 166.456 | 76 | 4.9 | - | 88.45 | VANUATU |
| #-646 | 5/16 | 0 | 53 | 48.9 | -21.001 | -174.377 | 34 | 5.1 | - | 86.83 | TONGA |
| #-647 | 5/16 | 10 | 39 | 24.0 | -31.527 | -179.303 | 152 | 6.7 | - | 75.60 | KERMADEC ISLANDS REGION |
| #-648 | 5/16 | 14 | 16 | 26.3 | -0.181 | 125.079 | 73 | 5.5 | - | 88.42 | MOLUCCA SEA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-649 | 5/16 | 15 | 28 | 26.5 | 0.081 | 97.073 | 16 | 6.6 | 6.9 | 79.15 | NIAS REGION, INDONESIA |
| #-650 | 5/16 | 16 | 10 | 27.7 | 0.017 | 97.137 | 23 | 5.1 | - | 79.11 | NIAS REGION, INDONESIA |
| #-651 | 5/16 | 16 | 19 | 40.7 | 0.062 | 97.099 | 23 | 5.6 | - | 79.14 | NIAS REGION, INDONESIA |
| #-652 | 5/16 | 20 | 55 | 47.5 | -20.735 | -174.199 | 15 | 5.8 | - | 87.12 | TONGA |
| #-653 | 5/16 | 21 | 12 | 22.2 | 0.156 | 97.078 | 32 | 4.9 | - | 79.23 | NIAS REGION, INDONESIA |
| #-654 | 5/17 | 3 | 6 | 15.9 | -20.595 | -173.961 | 10 | 5.8 | 5.7 | 87.30 | TONGA |
| #-655 | 5/17 | 5 | 23 | 50.9 | -21.717 | -177.104 | 221 | 4.7 | - | 85.61 | FUJI REGION |
| #-656 | 5/17 | 8 | 11 | 47.0 | -30.655 | -71.156 | 54 | 4.7 | - | 68.30 | COQUIMBO, CHILE |
| #-657 | 5/17 | 16 | 35 | 54.4 | -60.638 | -26.421 | 6 | 4.9 | - | 27.53 | SOUTH SANDWICH ISL REGION |
| #-658 | 5/17 | 21 | 57 | 48.4 | -20.693 | -173.940 | 10 | 5.4 | - | 87.21 | TONGA |
| #-659 | 5/17 | 23 | 40 | 31.8 | -28.548 | -67.423 | 25 | 4.8 | - | 69.07 | LA RIOJA, ARGENTINA |
| #-660 | 5/18 | 1 | 1 | 45.7 | 0.042 | 96.878 | 30 | 4.8 | - | 79.06 | NIAS REGION, INDONESIA |
| #-661 | 5/18 | 2 | 41 | 54.3 | -23.278 | -179.864 | 490 | 4.5 | - | 83.52 | SOUTH OF THE FUJI ISLANDS |
| #-662 | 5/18 | 4 | 4 | 29.2 | -20.495 | -174.195 | 35 | 4.6 | - | 87.36 | TONGA |
| #-663 | 5/18 | 6 | 55 | 21.3 | -6.810 | 152.179 | 31 | 5.0 | - | 91.68 | NEW BRITAIN REG, P.N.G. |
| #-664 | 5/18 | 8 | 33 | 53.0 | -7.417 | 106.321 | 140 | 4.6 | - | 75.08 | JAVA, INDONESIA |
| #-665 | 5/18 | 18 | 26 | 20.7 | -32.417 | -71.716 | 10 | 4.7 | - | 66.83 | OFFSHORE VALPARAISO, CHILE |
| #-666 | 5/18 | 23 | 4 | 45.7 | 54.696 | 163.799 | 35 | 5.7 | - | 151.65 | OFF THE EAST COAST OF KAMCHATKA, RUSSIA |
| #-667 | 5/19 | 1 | 14 | 53.2 | -23.174 | 179.951 | 522 | 4.3 | - | 83.59 | SOUTH OF THE FUJI ISLANDS |
| #-668 | 5/19 | 1 | 41 | 44.8 | 0.053 | 96.859 | 29 | 4.5 | - | 79.06 | NIAS REGION, INDONESIA |
| #-669 | 5/19 | 14 | 44 | 27.2 | -0.113 | 124.667 | 54 | 5.9 | - | 88.34 | MOLUCCA SEA |
| #-670 | 5/19 | 17 | 53 | 50.9 | -4.769 | -79.831 | 7 | 4.5 | - | 95.43 | PERU-ECUADOR BORDER REGION |
| #-671 | 5/19 | 22 | 19 | 22.4 | -8.767 | 105.964 | 29 | 4.9 | - | 73.69 | SOUTH OF JAVA, INDONESIA |
| #-672 | 5/20 | 7 | 33 | 45.8 | -20.778 | -174.090 | 37 | 4.9 | - | 87.10 | TONGA |
| #-673 | 5/20 | 13 | 55 | 43.3 | -35.581 | 78.308 | 10 | 4.9 | - | 39.76 | MID-INDIAN RIDGE |
| #-674 | 5/20 | 16 | 52 | 37.2 | -23.253 | -68.875 | 94 | 4.7 | - | 74.48 | ANTOFAGASTA, CHILE |
| #-675 | 5/20 | 18 | 42 | 47.1 | -11.266 | 117.085 | 53 | 4.9 | - | 75.23 | SOUTH OF SUMBAWA, INDONESIA |
| #-676 | 5/20 | 19 | 23 | 50.6 | -23.890 | 179.390 | 611 | 4.5 | - | 82.77 | SOUTH OF THE FUJI ISLANDS |
| #-677 | 5/21 | 2 | 7 | 36.1 | 1.575 | -85.173 | 10 | 5.3 | 5.7 | 103.11 | OFF THE COAST OF ECUADOR |
| #-678 | 5/21 | 5 | 11 | 39.2 | -37.143 | -73.375 | 23 | 5.1 | - | 62.94 | OFFSHORE BIO-BIO, CHILE |
| #-679 | 5/21 | 6 | 30 | 17.9 | -24.132 | -66.758 | 175 | 4.6 | - | 72.97 | SALTA, ARGENTINA |
| #-680 | 5/21 | 21 | 55 | 3.7 | -19.133 | 31.687 | 10 | 4.3 | - | 50.08 | ZIMBABWE |
| #-681 | 5/22 | 20 | 53 | 57.7 | -4.675 | 126.686 | 3 | 5.7 | - | 84.80 | BANDA SEA |
| #-682 | 5/24 | 3 | 54 | 33.3 | -20.356 | -177.741 | 405 | 4.7 | - | 86.81 | FUJI REGION |
| #-683 | 5/24 | 4 | 20 | 28.5 | 32.445 | -115.267 | 5 | 5.0 | 4.9 | 140.65 | BAJA CALIFORNIA, MEXICO. |
| #-684 | 5/24 | 6 | 23 | 25.5 | -31.812 | -111.911 | 10 | 4.8 | - | 76.93 | EASTER ISLAND REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-------------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-685 | 5/24 | 6 | 48 | 41.2 | -29.355 | -178.474 | 156 | 5.0 | - | 77.88 | KERMADEC ISL., NEW ZEALAND |
| #-686 | 5/24 | 9 | 10 | 26.4 | -20.396 | 169.096 | 38 | 5.1 | - | 83.73 | VANUATU |
| #-687 | 5/24 | 9 | 45 | 33.7 | -20.423 | 168.994 | 41 | 5.2 | - | 83.68 | LOYALTY ISLANDS |
| #-688 | 5/24 | 10 | 11 | 8.1 | -2.231 | 139.169 | 32 | 5.7 | 5.6 | 91.54 | NEAR THE NORTH COAST OF PAPUA, IND. |
| #-689 | 5/24 | 12 | 18 | 12.6 | -14.580 | 167.270 | 183 | 4.4 | - | 88.83 | VANUATU |
| #-690 | 5/24 | 16 | 47 | 43.7 | -20.518 | 168.973 | 35 | 5.1 | - | 83.58 | LOYALTY ISLANDS |
| #-691 | 5/24 | 20 | 44 | 59.0 | -19.824 | -177.271 | 366 | 4.9 | - | 87.42 | FUJI REGION |
| #-692 | 5/24 | 21 | 32 | 56.6 | -20.568 | 169.034 | 79 | 4.9 | - | 83.55 | VANUATU |
| #-693 | 5/24 | 23 | 44 | 23.7 | -26.301 | -178.392 | 159 | 4.9 | - | 80.88 | SOUTH OF THE FUJI ISLANDS |
| #-694 | 5/25 | 1 | 49 | 19.1 | -5.109 | 153.653 | 2 | 4.6 | - | 93.76 | NEW IRELAND REG, P.N.G. |
| #-695 | 5/25 | 14 | 34 | 39.8 | -11.148 | 166.363 | 147 | 4.7 | - | 91.88 | SANTA CRUZ ISLANDS |
| #-696 | 5/25 | 14 | 38 | 56.9 | -16.373 | -177.088 | 443 | 4.1 | - | 90.83 | FUJI REGION |
| #-697 | 5/25 | 16 | 38 | 2.4 | -11.681 | 166.311 | 48 | 5.2 | - | 91.35 | SANTA CRUZ ISLANDS |
| #-698 | 5/25 | 17 | 47 | 26.7 | 6.761 | 126.982 | 77 | 4.8 | - | 95.59 | MINDANAO, PHILIPPINES |
| #-699 | 5/25 | 20 | 48 | 5.9 | -18.023 | -71.069 | 36 | 5.5 | - | 80.10 | OFF THE COAST OF TARAPACA, CHILE |
| #-700 | 5/26 | 4 | 34 | 50.3 | 0.128 | 122.418 | 302 | 5.1 | - | 87.76 | MINAHASA, SULAWESI, IND. |
| #-701 | 5/26 | 7 | 2 | 2.6 | -22.341 | -178.358 | 296 | 4.7 | - | 84.75 | SOUTH OF THE FUJI ISLANDS |
| #-702 | 5/26 | 22 | 35 | 6.8 | -21.281 | -174.355 | 32 | 5.4 | - | 86.56 | TONGA |
| #-703 | 5/27 | 3 | 10 | 2.5 | -7.849 | 110.457 | 10 | 4.8 | - | 76.09 | JAVA, INDONESIA |
| #-704 | 5/27 | 5 | 57 | 39.4 | -20.852 | -174.063 | 15 | 5.2 | - | 87.03 | TONGA |
| #-705 | 5/27 | 7 | 5 | 25.6 | -4.227 | 151.794 | 227 | 4.8 | - | 93.99 | NEW BRITAIN REG, P.N.G. |
| #-706 | 5/27 | 7 | 35 | 12.4 | -6.173 | 130.363 | 182 | 4.8 | - | 84.72 | BANDA SEA |
| #-707 | 5/27 | 21 | 37 | 47.6 | -20.305 | 168.806 | 35 | 4.9 | - | 83.75 | LOYALTY ISLANDS |
| #-708 | 5/28 | 3 | 12 | 8.9 | -5.691 | 151.157 | 34 | 5.9 | 6.6 | 92.40 | NEW BRITAIN REGION, P.N.G. |
| #-709 | 5/28 | 3 | 36 | 18.9 | -19.881 | -174.538 | 51 | 5.9 | - | 87.89 | TONGA |
| #-710 | 5/28 | 6 | 6 | 38.9 | -19.435 | -175.692 | 133 | 4.8 | - | 88.11 | TONGA |
| #-711 | 5/28 | 7 | 51 | 7.7 | -21.251 | -179.079 | 551 | 4.6 | - | 85.66 | FUJI REGION |
| #-712 | 5/28 | 9 | 0 | 12.4 | 19.167 | 121.207 | 23 | 5.2 | 5.1 | 105.11 | BABUYAN ISLANDS REGION, PHILIPPINES |
| #-713 | 5/28 | 13 | 23 | 29.2 | 74.051 | 13.445 | 10 | 5.2 | 4.1 | 143.99 | NORWEGIAN SEA |
| #-714 | 5/28 | 15 | 3 | 8.6 | -15.323 | -169.339 | 37 | 4.7 | - | 93.29 | SAMOA ISL REG. |
| #-715 | 5/28 | 22 | 30 | 6.7 | -23.771 | -177.146 | 47 | 5.1 | - | 83.59 | SOUTH OF THE FUJI ISLANDS |
| #-716 | 5/28 | 22 | 48 | 33.7 | -33.204 | -179.615 | 411 | 4.6 | - | 73.91 | SOUTH OF KERMADEC ISLANDS |
| #-717 | 5/29 | 5 | 0 | 33.2 | -33.028 | -178.839 | 46 | 5.2 | - | 74.23 | SOUTH OF KERMADEC ISLANDS |
| #-718 | 5/29 | 11 | 56 | 45.7 | -19.193 | -173.459 | 34 | 5.2 | 4.9 | 88.77 | TONGA |
| #-719 | 5/29 | 12 | 12 | 13.3 | -7.979 | 154.650 | 26 | 5.4 | 4.9 | 91.37 | BOUGAINVILLE REGION, P.N.G. |
| #-720 | 5/29 | 14 | 10 | 50.2 | -41.952 | 88.427 | 10 | 5.4 | 5.4 | 37.11 | SOUTHEAST INDIAN RIDGE |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude | | Coordinates Longitude | | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|------------------------|----------|--------------------------|-----|---------------|-----------|------------------------------|---------------------------------|--------|
| | | h | m | s | (deg) | (deg) | (deg) | Mb | | Ms | | | |
| #-721 | 5/29 | 15 | 30 | 37.6 | 0.303 | 30.174 | 24 | 4.8 | - | 69.57 | LAKE EDWARD REGION, UGANDA | | |
| #-722 | 5/30 | 2 | 2 | 7.5 | -16.105 | -172.990 | 34 | 4.8 | - | 91.88 | SAMOA ISLANDS REGION | | |
| #-723 | 5/30 | 10 | 23 | 3.3 | -16.525 | -70.878 | 117 | 5.3 | - | 81.45 | SOUTHERN PERU | | |
| #-724 | 5/30 | 14 | 18 | 45.7 | -18.708 | -175.173 | 122 | 4.8 | - | 88.92 | TONGA | | |
| #-725 | 5/31 | 11 | 39 | 36.6 | -11.780 | 165.923 | 45 | 4.8 | 4.4 | 91.15 | SANTA CRUZ ISLANDS | | |
| #-726 | 5/31 | 13 | 0 | 7.9 | -22.969 | -66.098 | 266 | 4.6 | - | 73.84 | JUJUY, ARGENTINA | | |
| #-727 | 6/1 | 4 | 11 | 18.8 | -8.340 | -79.706 | 34 | 4.8 | - | 92.00 | NEAR COAST OF NORTHERN PERU | | |
| #-728 | 6/1 | 5 | 46 | 42.4 | 1.300 | 128.168 | 118 | 4.9 | - | 90.91 | HALMAHERA, INDONESIA | | |
| #-729 | 6/1 | 13 | 16 | 25.3 | -5.158 | 151.782 | 40 | 5.2 | 4.8 | 93.10 | NEW BRITAIN REG, P.N.G. | | |
| #-730 | 6/1 | 14 | 3 | 12.0 | -15.998 | -173.125 | 30 | 4.9 | - | 91.96 | TONGA | | |
| #-731 | 6/1 | 18 | 54 | 30.8 | 10.846 | 92.775 | 30 | 4.9 | - | 88.15 | ANDAMAN ISL., INDIA REGION | | |
| #-732 | 6/1 | 22 | 31 | 29.1 | -20.041 | -173.848 | 45 | 5.1 | - | 87.87 | TONGA | | |
| #-733 | 6/2 | 1 | 28 | 29.1 | -20.030 | -173.803 | 35 | 5.1 | - | 87.88 | TONGA | | |
| #-734 | 6/2 | 3 | 26 | 41.8 | -21.217 | -174.313 | 37 | 5.1 | - | 86.63 | TONGA | | |
| #-735 | 6/2 | 6 | 59 | 41.4 | -20.047 | -173.876 | 30 | 4.8 | - | 87.85 | TONGA | | |
| #-736 | 6/2 | 7 | 31 | 37.0 | -20.746 | -178.741 | 592 | 5.4 | - | 86.22 | FIJI REGION | | |
| #-737 | 6/2 | 11 | 12 | 53.2 | -19.893 | -173.985 | 38 | 4.7 | - | 87.99 | TONGA | | |
| #-738 | 6/3 | 7 | 15 | 36.1 | 26.848 | 55.916 | 12 | 5.4 | 4.6 | 96.65 | SOUTHERN IRAN | | |
| #-739 | 6/3 | 8 | 25 | 59.1 | -17.566 | -177.311 | 354 | 4.8 | - | 89.82 | FIJI REGION | | |
| #-740 | 6/3 | 13 | 1 | 14.8 | 13.030 | 92.523 | 39 | 4.7 | - | 90.17 | ANDAMAN ISL., INDIA REGION | | |
| #-741 | 6/3 | 13 | 26 | 53.3 | -21.499 | -173.894 | 35 | 4.9 | - | 86.43 | TONGA | | |
| #-742 | 6/3 | 15 | 27 | 53.0 | -20.552 | -174.311 | 38 | 5.0 | - | 87.28 | TONGA | | |
| #-743 | 6/3 | 19 | 9 | 58.5 | -15.457 | 167.639 | 123 | 4.7 | - | 88.09 | VANUATU | | |
| #-744 | 6/3 | 19 | 21 | 45.8 | -59.657 | -26.406 | 121 | 5.0 | - | 28.23 | SOUTH SANDWICH ISL REGION | | |
| #-745 | 6/4 | 2 | 36 | 33.7 | -3.234 | 139.602 | 71 | 4.4 | - | 90.75 | PAPUA, INDONESIA | | |
| #-746 | 6/4 | 8 | 38 | 47.8 | -19.888 | -173.708 | 51 | 4.8 | - | 88.04 | TONGA | | |
| #-747 | 6/4 | 12 | 43 | 5.3 | -36.780 | 177.530 | 193 | 4.4 | - | 69.88 | OFF E. COAST N. ISL, N.Z. | | |
| #-748 | 6/5 | 0 | 39 | 6.2 | 21.755 | 121.739 | 24 | 5.1 | - | 107.69 | TAIWAN REGION | | |
| #-749 | 6/5 | 6 | 27 | 8.1 | 1.204 | -28.035 | 10 | 5.2 | 5.4 | 83.10 | CENTRAL MID-ATLANTIC RIDGE | | |
| #-750 | 6/5 | 6 | 34 | 31.9 | 1.017 | -28.190 | 10 | 5.4 | 5.5 | 82.98 | CENTRAL MID-ATLANTIC RIDGE | | |
| #-751 | 6/6 | 4 | 34 | 28.3 | 15.252 | -91.499 | 200 | 5.1 | - | 118.04 | GUATEMALA | | |
| #-752 | 6/6 | 21 | 18 | 19.8 | -31.738 | 57.890 | 10 | 4.6 | - | 38.80 | SOUTHWEST INDIAN RIDGE | | |
| #-753 | 6/7 | 2 | 26 | 2.3 | -7.579 | -73.688 | 188 | 5.0 | - | 90.80 | PERU-BRAZIL BORDER REGION | | |
| #-754 | 6/7 | 9 | 28 | 0.8 | -20.537 | -174.381 | 15 | 4.7 | - | 87.28 | TONGA | | |
| #-755 | 6/7 | 10 | 46 | 53.2 | -21.257 | 169.520 | 24 | 5.0 | - | 83.01 | SOUTHEAST OF LOYALTY ISLANDS | | |
| #-756 | 6/7 | 11 | 28 | 43.8 | -20.594 | -174.071 | 44 | 4.6 | - | 87.28 | TONGA | | |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---------------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-757 | 6/7 | 18 | 23 | 44.6 | 3.589 | 122.757 | 569 | 4.7 | - | 91.12 | CELEBES SEA |
| #-758 | 6/7 | 22 | 10 | 19.5 | -24.390 | -179.784 | 490 | 4.9 | - | 82.46 | SOUTH OF THE FIJI ISLANDS |
| #-759 | 6/8 | 6 | 17 | 25.7 | -21.301 | 33.190 | 9 | 4.7 | - | 47.84 | MOZAMBIQUE |
| #-760 | 6/8 | 14 | 59 | 35.6 | -20.277 | -178.064 | 555 | 4.8 | - | 86.82 | FIJI REGION |
| #-761 | 6/8 | 16 | 0 | 19.3 | -31.519 | -68.975 | 69 | 4.0 | - | 66.81 | SAN JUAN, ARGENTINA |
| #-762 | 6/9 | 9 | 31 | 5.2 | -25.473 | 179.662 | 497 | 4.5 | - | 81.29 | SOUTH OF THE FIJI ISLANDS |
| #-763 | 6/9 | 10 | 40 | 41.6 | -17.911 | -178.545 | 573 | 5.4 | - | 89.03 | FIJI REGION |
| #-764 | 6/9 | 16 | 1 | 42.7 | -15.119 | -172.755 | 45 | 4.6 | - | 92.90 | SAMOA ISLANDS REGION |
| #-765 | 6/10 | 1 | 58 | 4.4 | -36.314 | -96.942 | 35 | 4.8 | - | 69.79 | WEST CHILE RISE |
| #-766 | 6/10 | 13 | 17 | 26.1 | -23.684 | 179.814 | 540 | 4.7 | - | 83.06 | SOUTH OF THE FIJI ISLANDS |
| #-767 | 6/10 | 13 | 38 | 38.5 | -19.551 | -66.707 | 257 | 4.0 | - | 77.23 | POTOSI, BOLIVIA |
| #-768 | 6/10 | 16 | 30 | 0.5 | -17.905 | -178.543 | 575 | 4.6 | - | 89.04 | FIJI REGION |
| #-769 | 6/10 | 19 | 38 | 55.9 | -19.313 | -69.921 | 74 | 4.4 | - | 78.52 | TARAPACA, CHILE |
| #-770 | 6/10 | 19 | 52 | 11.4 | 18.999 | 120.140 | 32 | 5.1 | - | 104.58 | LUZON, PHILIPPINES |
| #-771 | 6/11 | 5 | 46 | 1.3 | -20.644 | -179.322 | 663 | 5.1 | - | 86.20 | FIJI REGION |
| #-772 | 6/14 | 0 | 14 | 33.6 | 5.542 | 94.535 | 58 | 5.2 | - | 83.59 | NORTHERN SUMATRA, INDONESIA |
| #-773 | 6/14 | 4 | 18 | 42.3 | 51.765 | 177.089 | 14 | 5.9 | 6.4 | 153.94 | RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA |
| #-774 | 6/14 | 7 | 24 | 6.8 | 2.683 | 94.368 | 29 | 5.2 | - | 80.81 | OFF WEST COAST OF N SUMATRA |
| #-775 | 6/14 | 14 | 7 | 48.0 | -12.837 | 166.452 | 35 | 4.9 | - | 90.28 | SANTA CRUZ ISLANDS |
| #-776 | 6/15 | 4 | 27 | 59.5 | 1.470 | 126.353 | 10 | 5.5 | 4.7 | 90.42 | MOLUCCA SEA |
| #-777 | 6/15 | 18 | 10 | 21.4 | -15.469 | -175.149 | 10 | 5.2 | 5.0 | 92.10 | TONGA |
| #-778 | 6/15 | 19 | 24 | 37.5 | 7.780 | 122.143 | 49 | 4.7 | - | 94.82 | MINDANAO, PHILIPPINES |
| #-779 | 6/15 | 23 | 4 | 47.2 | 45.344 | 97.419 | 6 | 5.2 | - | 122.16 | WESTERN MONGOLIA |
| #-780 | 6/16 | 2 | 56 | 16.6 | 1.285 | 121.829 | 23 | 5.6 | 5.3 | 88.63 | MINAHASA, SULAWESI, IND. |
| #-781 | 6/16 | 3 | 21 | 13.4 | 0.970 | 121.803 | 35 | 4.5 | - | 88.33 | MINAHASA, SULAWESI, IND. |
| #-782 | 6/16 | 5 | 29 | 43.3 | -19.233 | -69.134 | 105 | 4.3 | - | 78.33 | TARAPACA, CHILE |
| #-783 | 6/16 | 5 | 35 | 54.5 | 1.216 | 121.863 | 34 | 5.3 | 4.9 | 88.58 | MINAHASA, SULAWESI, INDONESIA |
| #-784 | 6/16 | 12 | 34 | 32.7 | -26.946 | -176.675 | 28 | 4.9 | - | 80.58 | SOUTH OF THE FIJI ISLANDS |
| #-785 | 6/16 | 18 | 29 | 30.0 | 46.666 | 144.492 | 369 | 5.3 | - | 138.14 | SEA OF OKHOTSK |
| #-786 | 6/17 | 3 | 46 | 0.1 | -20.036 | -174.465 | 84 | 4.7 | - | 87.76 | TONGA |
| #-787 | 6/18 | 3 | 45 | 6.1 | -34.302 | -70.470 | 104 | 4.1 | - | 64.69 | LIBERTADOR O'HIGGINS, CHILE |
| #-788 | 6/18 | 11 | 22 | 22.1 | -18.165 | -178.120 | 602 | 4.2 | - | 88.87 | FIJI REGION |
| #-789 | 6/18 | 17 | 10 | 54.9 | 1.250 | 97.015 | 39 | 4.8 | - | 80.25 | NIAS REGION, INDONESIA |
| #-790 | 6/18 | 17 | 17 | 12.0 | -3.094 | 139.673 | 60 | 4.8 | - | 90.91 | PAPUA, INDONESIA |
| #-791 | 6/18 | 18 | 33 | 33.1 | -29.626 | -69.362 | 97 | 4.6 | - | 68.69 | SAN JUAN, ARGENTINA |
| #-792 | 6/20 | 2 | 14 | 8.5 | -32.744 | -71.490 | 38 | 4.9 | - | 66.45 | OFFSHORE VALPARAISO, CHILE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-793 | 6/20 | 16 | 52 | 57.6 | 33.077 | 104.885 | 21 | 5.1 | - | 112.76 | GANSU, CHINA. |
| #-794 | 6/21 | 2 | 39 | 55.7 | -6.767 | 127.204 | 416 | 4.3 | - | 83.04 | BANDA SEA |
| #-795 | 6/21 | 8 | 53 | 37.2 | 1.464 | 97.072 | 30 | 5.1 | - | 80.47 | NIAS REGION, INDONESIA |
| #-796 | 6/21 | 12 | 34 | 52.7 | 6.942 | 92.443 | 16 | 5.6 | 5.7 | 84.32 | NICOBAR ISLANDS, INDIA REGION |
| #-797 | 6/21 | 12 | 40 | 59.2 | -1.929 | -77.375 | 169 | 5.0 | - | 97.34 | ECUADOR |
| #-798 | 6/21 | 14 | 54 | 39.8 | -20.374 | -68.920 | 103 | 4.6 | - | 77.19 | TARAPACA, CHILE |
| #-799 | 6/22 | 3 | 48 | 16.7 | -3.132 | 129.058 | 17 | 5.2 | 4.8 | 87.09 | SERAM, INDONESIA |
| #-800 | 6/22 | 5 | 55 | 7.7 | -34.951 | 179.867 | 225 | 4.3 | - | 72.11 | SOUTH OF KERMADEC ISLANDS |
| #-801 | 6/22 | 10 | 53 | 11.6 | 45.408 | 149.351 | 95 | 5.9 | - | 138.79 | KURIL ISLANDS |
| #-802 | 6/23 | 8 | 56 | 48.2 | -47.002 | 32.859 | 10 | 4.4 | - | 22.22 | RINCE EDWARD |
| #-803 | 6/23 | 12 | 18 | 55.0 | 51.972 | 177.091 | 16 | 5.3 | - | 154.11 | RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA |
| #-804 | 6/23 | 21 | 50 | 34.7 | -20.581 | -176.236 | 19 | 5.3 | - | 86.89 | FIJI REGION |
| #-805 | 6/23 | 22 | 42 | 53.6 | -14.381 | -71.626 | 95 | 4.9 | - | 83.71 | CENTRAL PERU |
| #-806 | 6/25 | 4 | 15 | 18.8 | -22.961 | -66.066 | 218 | 4.4 | - | 73.83 | JUJUY, ARGENTINA |
| #-807 | 6/25 | 4 | 51 | 56.6 | -17.710 | 41.797 | 10 | 5.0 | - | 51.33 | MOZAMBIQUE CHANNEL |
| #-808 | 6/25 | 15 | 9 | 52.0 | -4.754 | 102.106 | 47 | 5.0 | - | 76.18 | SOUTHERN SUMATRA, INDONESIA |
| #-809 | 6/25 | 22 | 39 | 15.0 | -0.391 | 123.534 | 77 | 4.6 | - | 87.68 | SULAWESI, INDONESIA |
| #-810 | 6/26 | 1 | 59 | 16.9 | 50.301 | -176.098 | 28 | 5.2 | - | 154.90 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-811 | 6/26 | 9 | 39 | 22.4 | -2.740 | 127.409 | 26 | 5.5 | 4.9 | 86.87 | CERAM SEA, INDONESIA |
| #-812 | 6/26 | 18 | 0 | 23.9 | -14.976 | 166.766 | 60 | 5.0 | - | 88.32 | VANUATU |
| #-813 | 6/27 | 11 | 24 | 36.6 | -21.190 | -68.353 | 123 | 5.4 | - | 76.24 | ANTOFAGASTA, CHILE |
| #-814 | 6/27 | 14 | 4 | 51.6 | -18.017 | -178.214 | 583 | 4.3 | - | 89.00 | FIJI REGION |
| #-815 | 6/27 | 15 | 2 | 18.7 | 8.817 | 93.619 | 32 | 5.1 | - | 86.45 | NICOBAR ISL., INDIA REGION |
| #-816 | 6/27 | 15 | 53 | 17.6 | -15.251 | -70.398 | 191 | 5.1 | - | 82.49 | SOUTHERN PERU |
| #-817 | 6/27 | 18 | 7 | 23.0 | 6.530 | 92.718 | 32 | 5.8 | - | 84.00 | NICOBAR ISLANDS, INDIA REGION |
| #-818 | 6/27 | 19 | 12 | 50.5 | -20.893 | -179.135 | 635 | 4.8 | - | 86.00 | FIJI REGION |
| #-819 | 6/28 | 2 | 37 | 12.2 | -15.001 | -177.429 | 377 | 4.7 | - | 92.10 | FIJI REGION |
| #-820 | 6/28 | 21 | 2 | 9.9 | 26.969 | 55.840 | 10 | 5.8 | 5.6 | 96.77 | SOUTHERN IRAN |
| #-821 | 6/29 | 2 | 59 | 52.7 | 1.750 | 127.560 | 91 | 4.5 | - | 91.11 | HALMAHERA, INDONESIA |
| #-822 | 6/29 | 8 | 9 | 9.3 | -18.620 | -174.900 | 75 | 4.7 | - | 89.06 | TONGA |
| #-823 | 6/29 | 16 | 41 | 49.5 | 26.847 | 55.954 | 13 | 4.7 | - | 96.66 | SOUTHERN IRAN |
| #-824 | 6/30 | 2 | 39 | 6.6 | -58.140 | -25.347 | 101 | 4.7 | - | 28.98 | SOUTH SANDWICH ISL REGION |
| #-825 | 6/30 | 2 | 49 | 1.9 | -0.391 | 123.424 | 47 | 4.9 | - | 87.64 | SULAWESI, INDONESIA |
| #-826 | 6/30 | 8 | 7 | 40.4 | -6.282 | 154.812 | 61 | 5.5 | - | 93.03 | BOUGAINVILLE REGION, P.N.G. |
| #-827 | 7/1 | 2 | 47 | 27.2 | -29.230 | -177.770 | 24 | 5.3 | - | 78.14 | KERMADEC ISL., NEW ZEALAND |
| #-828 | 7/1 | 19 | 34 | 39.4 | 51.092 | -179.306 | 40 | 5.2 | 5.0 | 154.56 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-829 | 7/1 | 20 | 12 | 8.5 | -56.318 | -24.990 | 51 | 4.9 | - | 30.23 | SOUTH SANDWICH ISL REGION |
| #-830 | 7/1 | 23 | 15 | 10.6 | 0.826 | 126.918 | 62 | 5.3 | - | 90.02 | MOLUCCA SEA |
| #-831 | 7/2 | 2 | 57 | 42.9 | -20.528 | -176.372 | 102 | 4.9 | - | 86.91 | FIJI REGION |
| #-832 | 7/2 | 3 | 54 | 54.8 | -23.800 | 179.740 | 586 | 4.7 | - | 82.93 | SOUTH OF THE FIJI ISLANDS |
| #-833 | 7/2 | 7 | 18 | 25.1 | -13.392 | -21.177 | 10 | 4.7 | - | 67.08 | SOUTH ATLANTIC OCEAN |
| #-834 | 7/2 | 12 | 14 | 57.1 | -56.381 | -27.330 | 107 | 4.7 | - | 31.01 | SOUTH SANDWICH ISL REGION |
| #-835 | 7/2 | 16 | 58 | 0.7 | 51.209 | -179.370 | 45 | 5.1 | 5.1 | 154.64 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-836 | 7/2 | 17 | 20 | 25.2 | 51.112 | -179.353 | 45 | 5.2 | 5.2 | 154.56 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-837 | 7/3 | 4 | 22 | 58.1 | -15.064 | -178.173 | 430 | 4.3 | - | 91.89 | FIJI REGION |
| #-838 | 7/3 | 7 | 41 | 57.2 | -28.675 | -66.992 | 134 | 4.8 | - | 68.82 | LA RIOJA, ARGENTINA |
| #-839 | 7/3 | 13 | 40 | 0.9 | -20.484 | -176.118 | 207 | 5.2 | - | 87.00 | FIJI REGION |
| #-840 | 7/3 | 15 | 8 | 25.9 | -18.266 | -178.073 | 621 | 4.3 | - | 88.78 | FIJI REGION |
| #-841 | 7/3 | 16 | 7 | 13.9 | -27.909 | -66.419 | 158 | 4.6 | - | 69.34 | CATAMARCA, ARGENTINA |
| #-842 | 7/3 | 16 | 33 | 50.6 | -6.575 | 129.800 | 196 | 4.6 | - | 84.15 | BANDA SEA |
| #-843 | 7/4 | 9 | 0 | 43.4 | -14.480 | 167.225 | 183 | 4.4 | - | 88.92 | VANUATU |
| #-844 | 7/4 | 13 | 52 | 33.9 | -31.301 | -179.355 | 153 | 5.0 | - | 75.81 | KERMADEC ISLANDS REGION |
| #-845 | 7/5 | 8 | 45 | 2.9 | -15.636 | -70.143 | 220 | 4.3 | - | 82.04 | SOUTHERNPERU |
| #-846 | 7/5 | 10 | 19 | 23.2 | -4.363 | 151.880 | 186 | 4.7 | - | 93.89 | NEW BRITAIN REG, P.N.G. |
| #-847 | 7/5 | 14 | 13 | 58.7 | -21.354 | -66.510 | 236 | 4.7 | - | 75.48 | POTOSI, BOLIVIA |
| #-848 | 7/6 | 1 | 4 | 37.9 | -23.492 | -174.757 | 1 | 4.5 | - | 84.32 | TONGA REGION |
| #-849 | 7/6 | 1 | 15 | 59.0 | -24.376 | -179.621 | 446 | 5.0 | - | 82.51 | SOUTH OF THE FIJI ISLANDS |
| #-850 | 7/6 | 7 | 17 | 4.2 | -6.282 | 155.316 | 201 | 5.0 | - | 93.19 | BOUGAINVILLE REG, P.N.G. |
| #-851 | 7/6 | 15 | 11 | 36.6 | -10.506 | 165.137 | 66 | 5.3 | - | 92.14 | SANTA CRUZ ISLANDS |
| #-852 | 7/7 | 7 | 26 | 12.1 | -15.273 | -173.586 | 35 | 5.7 | 6.0 | 92.59 | TONGA |
| #-853 | 7/7 | 10 | 6 | 12.8 | -10.926 | 164.330 | 32 | 5.2 | - | 91.51 | SANTA CRUZ ISLANDS REGION |
| #-854 | 7/7 | 20 | 5 | 19.2 | -29.517 | -178.356 | 173 | 4.7 | - | 77.75 | KERMADEC ISL, |
| #-855 | 7/7 | 21 | 13 | 25.3 | -6.944 | 129.553 | 114 | 5.1 | - | 83.71 | BANDA SEA |
| #-856 | 7/8 | 1 | 28 | 50.0 | -28.760 | -63.410 | 531 | 4.3 | - | 67.56 | SANTIAGO DEL |
| #-857 | 7/8 | 7 | 43 | 28.0 | -37.005 | -71.526 | 98 | 4.7 | - | 62.51 | BIO-BIO, CHILE |
| #-858 | 7/8 | 9 | 13 | 1.5 | -28.452 | -67.152 | 141 | 5.1 | - | 69.08 | LA RIOJA, ARGENTINA |
| #-859 | 7/8 | 12 | 56 | 22.2 | -6.274 | 130.562 | 106 | 4.7 | - | 84.70 | BANDA SEA |
| #-860 | 7/8 | 19 | 41 | 25.5 | -3.625 | 131.351 | 11 | 5.0 | 5.8 | 87.45 | CERAM SEA, INDONESIA |
| #-861 | 7/9 | 5 | 46 | 48.0 | 50.983 | -179.133 | 31 | 5.2 | - | 154.52 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-862 | 7/9 | 6 | 18 | 15.0 | 51.285 | -179.213 | 47 | 5.3 | - | 154.76 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-863 | 7/9 | 12 | 20 | 9.1 | -19.895 | 66.385 | 10 | 5.0 | 4.3 | 51.91 | MAURITIUS - REUNION REGION |
| #-864 | 7/9 | 16 | 37 | 7.0 | -19.675 | -70.601 | 10 | 4.8 | - | 78.40 | OFFSHORE TARAPACA, CHILE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic | | Coordinates | | Depth | | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|-------------|----|------|------------|----------------|-----------------|------|-------|----------------|--|--|---------------------------|--------|
| | | UTC | h | m | s | Latitude (deg) | Longitude (deg) | (km) | Mb | M _s | | | | |
| #-865 | 7/9 | 17 | 4 | 46.1 | -19.715 | -70.467 | 10 | 4.7 | - | 78.32 | OFFSHORE TARAPACA, CHILE | | | |
| #-866 | 7/9 | 23 | 22 | 20.6 | -19.594 | -70.369 | 95 | 4.3 | - | 78.40 | OFFSHORE TARAPACA, CHILE | | | |
| #-867 | 7/10 | 7 | 21 | 37.9 | -11.637 | -13.430 | 10 | 5.3 | 5.3 | 66.28 | ASCENSION ISLAND REGION | | | |
| #-868 | 7/10 | 9 | 58 | 0.8 | -5.521 | 150.873 | 61 | 4.8 | 4.3 | 92.46 | NEW BRITAIN REG, P.N.G. | | | |
| #-869 | 7/10 | 13 | 10 | 5.3 | -21.411 | -174.175 | 35 | 4.8 | - | 86.46 | TONGA | | | |
| #-870 | 7/10 | 16 | 2 | 47.1 | -58.708 | -24.922 | 43 | 5.0 | 4.6 | 28.41 | SOUTH SANDWICH ISL REGION | | | |
| #-871 | 7/11 | 0 | 58 | 29.7 | 0.783 | 97.268 | 52 | 5.3 | - | 79.88 | NIAS REGION, INDONESIA | | | |
| #-872 | 7/11 | 4 | 4 | 25.8 | 51.506 | -179.223 | 79 | 5.0 | - | 154.94 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA | | | |
| #-873 | 7/11 | 5 | 5 | 23.2 | -22.062 | -179.648 | 608 | 4.6 | - | 84.75 | SOUTH OF THE FIJI ISLANDS | | | |
| #-874 | 7/11 | 15 | 54 | 15.9 | -17.660 | -174.090 | 20 | 4.6 | - | 90.16 | TONGA | | | |
| #-875 | 7/11 | 22 | 22 | 2.9 | -5.558 | 150.812 | 50 | 4.8 | - | 92.41 | NEW BRITAIN REG, P.N.G. | | | |
| #-876 | 7/12 | 14 | 44 | 46.0 | -8.534 | 67.779 | 10 | 5.3 | 5.1 | 63.32 | MID-INDIAN RIDGE | | | |
| #-877 | 7/12 | 19 | 8 | 12.3 | -6.018 | 148.546 | 49 | 5.7 | - | 91.22 | NEW BRITAIN REGION, P.N.G. | | | |
| #-878 | 7/13 | 5 | 12 | 14.6 | -15.978 | 167.989 | 193 | 4.6 | - | 87.69 | VANUATU | | | |
| #-879 | 7/13 | 5 | 36 | 36.9 | -8.338 | 30.254 | 30 | 4.9 | - | 60.94 | LK TANGANYIKA REG, CONGO-TANZANIA-ZAMBIA | | | |
| #-880 | 7/13 | 5 | 51 | 32.0 | -15.731 | -174.237 | 159 | 4.5 | - | 92.02 | TONGA | | | |
| #-881 | 7/13 | 14 | 11 | 2.8 | -19.881 | -177.949 | 372 | 4.5 | - | 87.23 | FIJI REGION | | | |
| #-882 | 7/13 | 19 | 13 | 40.9 | -60.942 | -36.407 | 10 | 5.7 | - | 30.69 | SCOTIA SEA | | | |
| #-883 | 7/13 | 20 | 4 | 1.6 | -17.731 | -178.359 | 564 | 4.5 | - | 89.25 | FIJI REGION | | | |
| #-884 | 7/14 | 0 | 13 | 48.5 | -31.620 | -178.813 | 50 | 4.7 | - | 75.61 | KERMADEC ISLANDS REGION | | | |
| #-885 | 7/14 | 3 | 38 | 35.5 | -5.499 | 150.979 | 54 | 4.6 | - | 92.52 | NEW BRITAIN REG, P.N.G. | | | |
| #-886 | 7/14 | 6 | 53 | 41.8 | -24.124 | -66.705 | 137 | 4.5 | - | 72.96 | JUJUY, ARGENTINA | | | |
| #-887 | 7/14 | 17 | 5 | 49.0 | -36.624 | 50.443 | 10 | 4.5 | - | 32.99 | SOUTHWEST INDIAN RIDGE | | | |
| #-888 | 7/15 | 2 | 14 | 34.4 | -5.180 | 152.200 | 113 | 4.3 | - | 93.22 | NEW BRITAIN REG, P.N.G. | | | |
| #-889 | 7/15 | 6 | 24 | 11.0 | -6.706 | 129.867 | 114 | 4.6 | - | 84.05 | BANDA SEA | | | |
| #-890 | 7/15 | 7 | 10 | 48.4 | -4.465 | 126.189 | 370 | 5.8 | - | 84.82 | BANDA SEA | | | |
| #-891 | 7/15 | 8 | 57 | 43.7 | -30.662 | -179.505 | 283 | 4.9 | - | 76.41 | KERMADEC ISLANDS REGION | | | |
| #-892 | 7/15 | 11 | 54 | 28.8 | 3.749 | 93.556 | 37 | 5.1 | - | 81.59 | OFF WEST COAST OF N SUMATRA | | | |
| #-893 | 7/15 | 14 | 53 | 17.8 | -21.158 | 170.025 | 84 | 5.0 | - | 83.24 | SOUTHEAST OF LOYALTY ISLANDS | | | |
| #-894 | 7/15 | 21 | 20 | 33.3 | -20.718 | -178.703 | 545 | 4.7 | - | 86.26 | FIJI REGION | | | |
| #-895 | 7/15 | 22 | 45 | 5.6 | -24.348 | -176.180 | 35 | 4.7 | - | 83.21 | SOUTH OF THE FIJI ISLANDS | | | |
| #-896 | 7/15 | 23 | 30 | 22.8 | -6.553 | 129.919 | 44 | 4.5 | - | 84.21 | BANDA SEA | | | |
| #-897 | 7/16 | 11 | 42 | 45.0 | -28.667 | -72.426 | 34 | 6.0 | 5.6 | 70.55 | OFFSHORE ATACAMA, CHILE | | | |
| #-898 | 7/16 | 12 | 52 | 23.7 | 2.287 | 128.271 | 35 | 5.1 | - | 91.87 | HALMAHERA, INDONESIA | | | |
| #-899 | 7/16 | 13 | 11 | 19.6 | -5.590 | 150.690 | 62 | 4.7 | - | 92.34 | NEW BRITAIN REG, P.N.G. | | | |
| #-900 | 7/16 | 13 | 28 | 37.6 | -5.583 | 150.805 | 60 | 4.9 | - | 92.38 | NEW BRITAIN REG, P.N.G. | | | |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|----------------|----------------|---------------------------------|--------------------------|
| | | h | m | s | | | | M _b | M _s | | |
| #-901 | 7/16 | 14 | 24 | 0.6 | -19.895 | -178.470 | 597 | 4.8 | - | 87.11 | FIJI REGION |
| #-902 | 7/16 | 23 | 20 | 35.2 | -20.110 | -68.908 | 80 | 5.0 | - | 77.44 | TARAPACA, CHILE |
| #-903 | 7/17 | 8 | 19 | 28.9 | -9.235 | 107.337 | 34 | 6.1 | 7.2 | 73.72 | SOUTH OF JAVA, INDONESIA |
| #-904 | 7/17 | 8 | 38 | 12.8 | -9.476 | 107.709 | 10 | 5.2 | - | 73.62 | SOUTH OF JAVA, INDONESIA |
| #-905 | 7/17 | 8 | 41 | 17.0 | -9.385 | 107.665 | 10 | 5.3 | - | 73.69 | SOUTH OF JAVA, INDONESIA |
| #-906 | 7/17 | 9 | 0 | 15.3 | -9.634 | 107.392 | 10 | 5.3 | - | 73.36 | SOUTH OF JAVA, INDONESIA |
| #-907 | 7/17 | 9 | 5 | 17.6 | -9.830 | 107.870 | 10 | 5.7 | - | 73.34 | SOUTH OF JAVA, INDONESIA |
| #-908 | 7/17 | 9 | 13 | 5.0 | -9.099 | 107.745 | 10 | 6.1 | - | 73.98 | SOUTH OF JAVA, INDONESIA |
| #-909 | 7/17 | 9 | 44 | 9.2 | -9.625 | 108.022 | 10 | 4.9 | - | 73.58 | SOUTH OF JAVA, INDONESIA |
| #-910 | 7/17 | 9 | 55 | 32.1 | -9.421 | 107.717 | 10 | 5.1 | - | 73.67 | SOUTH OF JAVA, INDONESIA |
| #-911 | 7/17 | 10 | 9 | 6.3 | -9.034 | 107.858 | 10 | 5.7 | - | 74.08 | SOUTH OF JAVA, INDONESIA |
| #-912 | 7/17 | 10 | 44 | 32.4 | -9.119 | 107.647 | 10 | 5.4 | - | 73.93 | SOUTH OF JAVA, INDONESIA |
| #-913 | 7/17 | 11 | 7 | 33.0 | -9.524 | 107.622 | 10 | 5.8 | - | 73.54 | SOUTH OF JAVA, INDONESIA |
| #-914 | 7/17 | 12 | 52 | 10.2 | -9.078 | 107.833 | 10 | 5.4 | 5.2 | 74.03 | SOUTH OF JAVA, INDONESIA |
| #-915 | 7/17 | 13 | 39 | 23.9 | -9.983 | 107.890 | 10 | 4.9 | - | 73.20 | SOUTH OF JAVA, INDONESIA |
| #-916 | 7/17 | 13 | 53 | 48.4 | -9.563 | 108.017 | 10 | 5.1 | - | 73.64 | SOUTH OF JAVA, INDONESIA |
| #-917 | 7/17 | 14 | 50 | 55.6 | -9.238 | 107.085 | 10 | 5.0 | - | 73.63 | SOUTH OF JAVA, INDONESIA |
| #-918 | 7/17 | 15 | 15 | 11.4 | -9.523 | 107.983 | 10 | 4.7 | - | 73.67 | SOUTH OF JAVA, INDONESIA |
| #-919 | 7/17 | 15 | 20 | 53.6 | -9.381 | 108.691 | 10 | 5.3 | - | 74.04 | SOUTH OF JAVA, INDONESIA |
| #-920 | 7/17 | 15 | 28 | 43.7 | -9.193 | 107.242 | 7 | 5.1 | - | 73.72 | SOUTH OF JAVA, INDONESIA |
| #-921 | 7/17 | 15 | 29 | 1.5 | -9.254 | 107.221 | 10 | 5.5 | - | 73.66 | SOUTH OF JAVA, INDONESIA |
| #-922 | 7/17 | 15 | 42 | 1.9 | -9.572 | 107.663 | 10 | 5.5 | - | 73.51 | SOUTH OF JAVA, INDONESIA |
| #-923 | 7/17 | 15 | 45 | 57.8 | -9.423 | 108.246 | 10 | 5.9 | 6.0 | 73.85 | SOUTH OF JAVA, INDONESIA |
| #-924 | 7/17 | 16 | 9 | 52.4 | -9.381 | 108.848 | 10 | 5.8 | - | 74.10 | SOUTH OF JAVA, INDONESIA |
| #-925 | 7/17 | 16 | 38 | 38.7 | -9.483 | 107.719 | 10 | 5.3 | - | 73.61 | SOUTH OF JAVA, INDONESIA |
| #-926 | 7/17 | 18 | 53 | 26.9 | -19.852 | -70.557 | 6 | 4.6 | - | 78.22 | OFFSHORE ATACAMA, CHILE |
| #-927 | 7/17 | 19 | 9 | 31.2 | -9.108 | 107.833 | 10 | 5.2 | - | 74.00 | SOUTH OF JAVA, INDONESIA |
| #-928 | 7/17 | 19 | 44 | 11.0 | -9.462 | 108.611 | 10 | 5.1 | - | 73.94 | SOUTH OF JAVA, INDONESIA |
| #-929 | 7/17 | 19 | 48 | 30.2 | 0.214 | 119.721 | 43 | 5.4 | - | 86.89 | MINAHASA, SULAWESI, IND. |
| #-930 | 7/17 | 19 | 49 | 32.9 | -9.067 | 107.874 | 10 | 5.5 | - | 74.06 | SOUTH OF JAVA, INDONESIA |
| #-931 | 7/17 | 20 | 42 | 18.5 | -18.072 | -175.088 | 260 | 4.5 | - | 89.56 | TONGA |
| #-932 | 7/17 | 21 | 49 | 4.4 | -9.654 | 107.843 | 10 | 4.9 | - | 73.50 | SOUTH OF JAVA, INDONESIA |
| #-933 | 7/17 | 22 | 31 | 49.3 | -17.617 | -173.250 | 35 | 5.1 | - | 90.35 | TONGA |
| #-934 | 7/17 | 23 | 24 | 27.5 | -9.382 | 108.707 | 10 | 4.8 | - | 74.05 | SOUTH OF JAVA, INDONESIA |
| #-935 | 7/18 | 0 | 44 | 54.2 | -8.924 | 108.418 | 2 | 4.7 | - | 74.38 | JAVA, INDONESIA |
| #-936 | 7/18 | 3 | 1 | 48.4 | -9.277 | 108.867 | 31 | 5.2 | - | 74.20 | SOUTH OF JAVA, INDONESIA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|-------|------|-------------|----|------|---------------------------------|-----------------------------------|---------------|----------------|----------------|---------------------------------|------------------------------|
| | | h | m | s | | | | M _b | M _s | | |
| #-937 | 7/18 | 3 | 27 | 51.2 | -0.171 | 124.965 | 25 | 5.8 | - | 88.39 | MOLUCCA SEA |
| #-938 | 7/18 | 4 | 18 | 22.6 | -9.394 | 108.761 | 10 | 5.6 | - | 74.06 | SOUTH OF JAVA, INDONESIA |
| #-939 | 7/18 | 6 | 51 | 44.1 | -9.731 | 107.994 | 10 | 5.0 | - | 73.48 | SOUTH OF JAVA, INDONESIA |
| #-940 | 7/18 | 14 | 54 | 56.2 | -8.997 | 107.746 | 10 | 5.4 | 4.5 | 74.08 | JAVA, INDONESIA |
| #-941 | 7/18 | 16 | 2 | 21.3 | -19.957 | -178.571 | 635 | 5.1 | - | 87.03 | FIJI REGION |
| #-942 | 7/18 | 17 | 27 | 55.1 | -9.309 | 107.693 | 10 | 5.1 | - | 73.77 | SOUTH OF JAVA, INDONESIA |
| #-943 | 7/18 | 19 | 11 | 12.8 | -9.468 | 108.608 | 33 | 5.1 | - | 73.93 | SOUTH OF JAVA, INDONESIA |
| #-944 | 7/18 | 19 | 48 | 31.0 | -3.913 | 154.412 | 472 | 5.1 | - | 95.14 | NORTH OF THE SOLOMON ISLANDS |
| #-945 | 7/19 | 1 | 58 | 55.3 | -9.191 | 108.332 | 10 | 5.4 | - | 74.10 | SOUTH OF JAVA, INDONESIA |
| #-946 | 7/19 | 3 | 53 | 40.4 | -9.322 | 107.203 | 10 | 4.9 | - | 73.59 | SOUTH OF JAVA, INDONESIA |
| #-947 | 7/19 | 5 | 31 | 49.2 | -9.186 | 107.386 | 10 | 4.8 | - | 73.78 | SOUTH OF JAVA, INDONESIA |
| #-948 | 7/19 | 5 | 59 | 25.0 | -21.505 | -177.944 | 361 | 4.9 | - | 85.65 | FIJI REGION |
| #-949 | 7/19 | 7 | 25 | 6.5 | -9.524 | 107.267 | 10 | 5.6 | 5.2 | 73.42 | SOUTH OF JAVA, INDONESIA |
| #-950 | 7/19 | 10 | 57 | 36.9 | -6.540 | 105.371 | 45 | 5.8 | 6.1 | 75.58 | SUNDA STRAIT, INDONESIA |
| #-951 | 7/19 | 11 | 48 | 58.3 | -5.440 | 150.677 | 28 | 5.6 | 6.5 | 92.47 | NEW BRITAIN REGION, P.N.G. |
| #-952 | 7/19 | 12 | 5 | 0.6 | -5.266 | 150.849 | 10 | 4.6 | - | 92.69 | SOUTH OF JAVA, INDONESIA |
| #-953 | 7/19 | 18 | 8 | 57.7 | -5.311 | 150.723 | 10 | 5.7 | - | 92.61 | NEW BRITAIN REGION, P.N.G. |
| #-954 | 7/19 | 19 | 6 | 28.7 | -9.784 | 107.830 | 10 | 4.4 | - | 73.37 | SOUTH OF JAVA, INDONESIA |
| #-955 | 7/19 | 21 | 1 | 20.1 | -10.124 | 108.590 | 17 | 4.6 | - | 73.31 | SOUTH OF JAVA, INDONESIA |
| #-956 | 7/19 | 22 | 9 | 23.5 | -9.388 | 108.600 | 10 | 5.3 | - | 74.01 | SOUTH OF JAVA, INDONESIA |
| #-957 | 7/20 | 1 | 17 | 26.3 | -9.347 | 107.821 | 10 | 5.0 | - | 73.78 | SOUTH OF JAVA, INDONESIA |
| #-958 | 7/20 | 4 | 34 | 7.7 | -9.750 | 107.521 | 10 | 5.2 | - | 73.30 | SOUTH OF JAVA, INDONESIA |
| #-959 | 7/20 | 11 | 1 | 3.7 | -9.951 | 107.875 | 10 | 4.6 | - | 73.23 | SOUTH OF JAVA, INDONESIA |
| #-960 | 7/20 | 14 | 36 | 7.8 | -9.563 | 108.557 | 10 | 5.1 | - | 73.83 | SOUTH OF JAVA, INDONESIA |
| #-961 | 7/20 | 15 | 15 | 49.6 | -10.051 | 108.656 | 10 | 4.8 | - | 73.40 | SOUTH OF JAVA, INDONESIA |
| #-962 | 7/20 | 15 | 38 | 28.1 | -9.979 | 108.740 | 10 | 5.1 | - | 73.50 | SOUTH OF JAVA, INDONESIA |
| #-963 | 7/20 | 22 | 29 | 47.5 | -30.575 | 59.542 | 10 | 4.4 | - | 40.21 | SOUTH WEST INDIAN RIDGE |
| #-964 | 7/20 | 23 | 47 | 40.5 | -11.683 | 166.292 | 51 | 5.1 | - | 91.34 | SANTA CRUZ ISLANDS |
| #-965 | 7/21 | 14 | 8 | 42.7 | -10.014 | 108.672 | 15 | 4.6 | - | 73.44 | SOUTH OF JAVA, INDONESIA |
| #-966 | 7/22 | 3 | 21 | 13.4 | -9.360 | 108.590 | 10 | 5.0 | - | 74.03 | SOUTH OF JAVA, INDONESIA |
| #-967 | 7/22 | 9 | 57 | 21.0 | -6.057 | 154.567 | 70 | 5.1 | - | 93.16 | BOUGAINVILLE REG, P.N.G. |
| #-968 | 7/22 | 14 | 28 | 13.5 | -2.659 | 138.294 | 33 | 4.6 | - | 90.83 | PAPUA, INDONESIA |
| #-969 | 7/22 | 14 | 53 | 12.9 | -12.047 | -74.155 | 44 | 4.6 | - | 86.73 | CENTRAL PERU |
| #-970 | 7/23 | 8 | 45 | 28.1 | -0.572 | 123.245 | 91 | 4.9 | - | 87.40 | SULAWESI, INDONESIA |
| #-971 | 7/23 | 12 | 16 | 50.2 | -7.364 | 128.682 | 123 | 4.9 | - | 83.01 | KEPULAUAN BARAT DAYA, IND. |
| #-972 | 7/23 | 17 | 23 | 44.2 | -9.544 | 107.435 | 10 | 5.1 | - | 73.46 | SOUTH OF JAVA, INDONESIA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-973 | 7/23 | 19 | 39 | 19.1 | -9.507 | 107.773 | 10 | 4.8 | - | 73.61 | SOUTH OF JAVA, INDONESIA |
| #-974 | 7/23 | 19 | 43 | 4.5 | -9.210 | 107.709 | 10 | 4.7 | - | 73.87 | SOUTH OF JAVA, INDONESIA |
| #-975 | 7/26 | 1 | 56 | 8.0 | -9.150 | 107.790 | 0 | 4.7 | - | 73.95 | JAVA, INDONESIA |
| #-976 | 7/26 | 2 | 17 | 30.1 | -20.091 | -68.900 | 119 | 4.6 | - | 77.45 | TARAPACA, CHILE |
| #-977 | 7/26 | 2 | 44 | 22.8 | -9.359 | 108.348 | 34 | 4.8 | - | 73.95 | SOUTH OF JAVA, INDONESIA |
| #-978 | 7/27 | 1 | 39 | 27.5 | -15.654 | -71.345 | 182 | 4.8 | - | 82.42 | SOUTHERN PERU |
| #-979 | 7/27 | 11 | 16 | 41.9 | 1.717 | 97.158 | 30 | 5.7 | 6.1 | 80.74 | NIAS REGION, INDONESIA |
| #-980 | 7/27 | 22 | 55 | 57.7 | -9.678 | 107.340 | 31 | 5.2 | - | 73.30 | SOUTH OF JAVA, INDONESIA |
| #-981 | 7/27 | 23 | 19 | 13.4 | -9.583 | 107.414 | 34 | 6.1 | - | 73.42 | SOUTH OF JAVA, INDONESIA |
| #-982 | 7/28 | 1 | 42 | 5.4 | -4.433 | 143.441 | 84 | 5.1 | - | 90.97 | NEW GUINEA, P.N.G. |
| #-983 | 7/28 | 2 | 58 | 36.3 | -18.735 | -173.375 | 35 | 4.6 | - | 89.23 | TONGA |
| #-984 | 7/28 | 5 | 35 | 40.6 | -9.983 | 107.772 | 10 | 4.4 | - | 73.16 | SOUTH OF JAVA, INDONESIA |
| #-985 | 7/28 | 7 | 17 | 3.9 | -4.844 | 101.568 | 30 | 5.3 | - | 75.92 | SOUTHERN SUMATRA, INDONESIA |
| #-986 | 7/28 | 8 | 8 | 27.3 | -22.433 | -179.537 | 568 | 4.7 | - | 84.42 | SOUTH OF THE FIJI ISLANDS |
| #-987 | 7/29 | 2 | 3 | 16.4 | 12.974 | 51.009 | 10 | 5.0 | - | 82.42 | GULF OF ADEN |
| #-988 | 7/29 | 20 | 50 | 54.7 | -25.495 | 179.348 | 489 | 4.8 | - | 81.20 | SOUTH OF THE FIJI ISLANDS |
| #-989 | 7/31 | 18 | 36 | 17.9 | 51.890 | 159.358 | 51 | 5.2 | - | 147.81 | OFF E CST KAMCHATKA, RUSSIA |
| #-990 | 7/31 | 20 | 44 | 26.5 | -20.274 | -178.099 | 503 | 4.3 | - | 86.82 | FIJI REGION |
| #-991 | 8/1 | 6 | 8 | 39.5 | -4.828 | 151.732 | 176 | 4.4 | - | 93.40 | NEW BRITAIN REG, P.N.G. |
| #-992 | 8/1 | 8 | 56 | 53.5 | -17.218 | 167.946 | 42 | 4.9 | - | 86.48 | VANUATU |
| #-993 | 8/1 | 9 | 58 | 18.6 | -19.269 | -173.592 | 29 | 4.9 | 5.1 | 88.67 | TONGA |
| #-994 | 8/1 | 10 | 19 | 41.5 | -19.085 | -173.590 | 32 | 5.2 | - | 88.85 | TONGA |
| #-995 | 8/1 | 16 | 14 | 52.2 | 21.687 | 142.906 | 310 | 4.7 | - | 115.15 | MARIANA ISLANDS REGION |
| #-996 | 8/1 | 16 | 16 | 24.3 | -27.678 | -64.417 | 54 | 4.7 | - | 68.90 | SANTIAGO DEL ESTERO, ARGENTINA |
| #-997 | 8/1 | 17 | 26 | 43.2 | 4.863 | 96.175 | 30 | 4.8 | 4.3 | 83.43 | NORTHERN SUMATRA, INDONESIA |
| #-998 | 8/1 | 18 | 37 | 3.5 | -24.058 | -66.888 | 173 | 4.4 | - | 73.08 | SALTA, ARGENTINA |
| #-999 | 8/2 | 0 | 47 | 3.9 | -31.385 | 179.425 | 451 | 4.8 | - | 75.49 | KERMADEC ISLANDS REGION |
| #-1000 | 8/2 | 13 | 11 | 57.9 | 8.673 | 91.915 | 17 | 5.0 | 4.2 | 85.83 | NICOBAR ISL, INDIA REGION |
| #-1001 | 8/2 | 14 | 45 | 4.7 | -11.135 | 116.821 | 15 | 5.9 | 5.4 | 75.26 | SOUTH OF LOMBOK, INDONESIA |
| #-1002 | 8/2 | 17 | 35 | 18.1 | -15.114 | -174.301 | 177 | 4.8 | - | 92.61 | TONGA |
| #-1003 | 8/2 | 19 | 24 | 6.3 | -31.200 | -177.967 | 10 | 4.8 | - | 76.18 | KERMADEC ISLANDS REGION |
| #-1004 | 8/3 | 0 | 29 | 26.9 | -18.113 | -178.882 | 529 | 4.7 | - | 88.76 | FIJI REGION |
| #-1005 | 8/3 | 1 | 50 | 27.5 | -10.078 | 108.807 | 10 | 4.6 | - | 73.43 | SOUTH OF JAVA, INDONESIA |
| #-1006 | 8/3 | 12 | 9 | 29.3 | -21.275 | 32.903 | 10 | 4.7 | - | 47.88 | MOZAMBIQUE |
| #-1007 | 8/3 | 17 | 28 | 8.8 | -57.807 | -25.564 | 69 | 5.0 | - | 29.30 | SOUTH SANDWICH ISL REGION |
| #-1008 | 8/4 | 3 | 15 | 8.3 | -19.760 | -178.890 | 639 | 4.5 | - | 87.16 | FIJI REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|-------------|----|-------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|------------------------------|
| | | UTC | h | m | | | | s | Mb | | |
| #-1009 | 8/4 | 7 | 45 | 47.0 | 52.024 | 171.065 | 10 | 5.3 | 5.0 | 152.08 | NR ISL, ALEUTIAN ISL, ALASKA |
| #-1010 | 8/4 | 12 | 24 | 28.8 | -5.528 | 129.531 | 180 | 4.5 | - | 85.03 | BANDA SEA |
| #-1011 | 8/4 | 16 | 4 | 55.3 | -19.199 | -177.436 | 552 | 4.4 | - | 88.00 | FIJI REGION |
| #-1012 | 8/5 | 14 | 3 | 43.7 | -33.099 | -68.681 | 22 | 5.9 | 5.2 | 65.25 | MENDOZA, ARGENTINA |
| #-1013 | 8/5 | 23 | 55 | 57.9 | -16.860 | -72.962 | 53 | 4.3 | - | 81.81 | NEAR COAST OF SOUTHERN PERU |
| #-1014 | 8/6 | 4 | 12 | 37.3 | 1.705 | 126.474 | 60 | 4.8 | - | 90.68 | MOLUCCA SEA |
| #-1015 | 8/6 | 18 | 16 | 40.1 | 26.067 | 144.071 | 23 | 6.0 | 5.6 | 119.60 | BONIN ISLANDS, JAPAN REGION |
| #-1016 | 8/6 | 23 | 15 | 48.7 | -26.323 | 178.033 | 707 | 4.2 | - | 80.12 | SOUTH OF THE FIJI ISLANDS |
| #-1017 | 8/7 | 14 | 17 | 23.5 | -16.170 | -175.223 | 279 | 4.4 | - | 91.40 | TONGA |
| #-1018 | 8/7 | 15 | 58 | 36.9 | -23.563 | -179.985 | 579 | 4.7 | - | 83.22 | SOUTH OF THE FIJI ISLANDS |
| #-1019 | 8/8 | 7 | 46 | 42.0 | -9.909 | 108.122 | 10 | 4.7 | - | 73.35 | SOUTH OF JAVA, INDONESIA |
| #-1020 | 8/8 | 20 | 11 | 40.2 | -15.811 | 165.868 | 65 | 5.0 | - | 87.27 | VANUATU |
| #-1021 | 8/8 | 21 | 17 | 11.9 | -18.400 | 167.350 | 142 | 4.7 | - | 85.19 | VANUATU |
| #-1022 | 8/8 | 23 | 1 | 11.9 | -32.009 | -178.681 | 23 | 5.1 | - | 75.26 | SOUTH OF KERMADEC ISLANDS |
| #-1023 | 8/8 | 23 | 51 | 57.6 | -6.048 | 149.743 | 73 | 4.8 | - | 91.59 | NEW BRITAIN REG, P.N.G. |
| #-1024 | 8/9 | 0 | 15 | 40.4 | 6.059 | 126.766 | 117 | 5.1 | - | 94.85 | MINDANAO, PHILIPPINES |
| #-1025 | 8/9 | 7 | 56 | 27.7 | -4.867 | 144.500 | 64 | 5.0 | - | 90.92 | NR N CST NEW GUINEA, P.N.G. |
| #-1026 | 8/9 | 8 | 1 | 34.2 | -6.250 | 154.556 | 148 | 5.4 | - | 92.98 | BOUGAINVILLE REG, P.N.G. |
| #-1027 | 8/9 | 17 | 21 | 40.6 | -33.187 | -179.778 | 54 | 5.3 | 4.7 | 73.90 | SOUTH OF KERMADEC ISLANDS |
| #-1028 | 8/10 | 0 | 50 | 25.00 | -5.288 | 154.383 | 75 | 4.6 | - | 93.83 | BOUGAINVILLE REG, P.N.G. |
| #-1029 | 8/10 | 6 | 16 | 34.1 | -2.286 | 102.340 | 194 | 4.5 | - | 78.59 | SOUTHERN SUMATRA, INDONESIA |
| #-1030 | 8/10 | 7 | 3 | 3.4 | 13.677 | -90.544 | 68 | 5.2 | - | 116.26 | OFFSHORE GUATEMALA |
| #-1031 | 8/10 | 15 | 33 | 44.9 | -30.873 | -178.505 | 99 | 4.9 | - | 76.40 | KERMADEC ISL, NEW ZEALAND |
| #-1032 | 8/11 | 3 | 18 | 2.9 | -6.338 | 128.031 | 340 | 4.5 | - | 83.73 | BANDA SEA |
| #-1033 | 8/11 | 14 | 30 | 39.9 | 18.492 | -100.935 | 60 | 6.0 | - | 123.79 | GUERRERO, MEXICO |
| #-1034 | 8/11 | 14 | 38 | 36.4 | 18.451 | -101.004 | 64 | 5.2 | - | 123.77 | GUERRERO, MEXICO |
| #-1035 | 8/11 | 17 | 16 | 15.7 | -3.011 | 141.779 | 43 | 4.7 | - | 91.72 | NEW GUINEA, P.N.G. |
| #-1036 | 8/12 | 3 | 32 | 25.9 | -6.687 | 154.356 | 36 | 5.0 | - | 92.50 | BOUGAINVILLE REG, P.N.G. |
| #-1037 | 8/12 | 6 | 55 | 22.6 | -9.702 | 107.517 | 10 | 5.1 | - | 73.34 | SOUTH OF JAVA, INDONESIA |
| #-1038 | 8/12 | 9 | 46 | 31.3 | -8.251 | 118.152 | 10 | 4.7 | - | 78.42 | SUMBAWA REGION, INDONESIA |
| #-1039 | 8/12 | 13 | 11 | 3.0 | -52.612 | 140.223 | 10 | 5.0 | - | 45.61 | WEST OF MACQUARIE ISLAND |
| #-1040 | 8/12 | 14 | 0 | 48.1 | -56.354 | -25.705 | 40 | 4.7 | - | 30.46 | SOUTH SANDWICH ISL REGION |
| #-1041 | 8/12 | 18 | 39 | 18.4 | 28.832 | 130.023 | 29 | 5.6 | 5.7 | 117.12 | RYUKYU ISLANDS, JAPAN |
| #-1042 | 8/12 | 19 | 42 | 0.4 | -9.809 | 107.558 | 10 | 4.8 | - | 73.25 | SOUTH OF JAVA, INDONESIA |
| #-1043 | 8/12 | 23 | 27 | 55.6 | 1.036 | 126.562 | 29 | 5.0 | - | 90.09 | MOLUCCA SEA |
| #-1044 | 8/13 | 0 | 48 | 6.0 | -18.955 | -177.837 | 562 | 4.6 | - | 88.16 | FIJI REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1045 | 8/13 | 2 | 2 | 40.6 | 8.635 | 92.027 | 29 | 4.7 | - | 85.82 | NICOBAR ISL, INDIA REGION |
| #-1046 | 8/13 | 4 | 29 | 27.9 | -41.540 | 173.034 | 114 | 5.1 | - | 64.36 | S ISL, NEW ZEALAND |
| #-1047 | 8/13 | 6 | 37 | 50.1 | 4.436 | 124.672 | 303 | 4.6 | - | 92.59 | CELEBES SEA |
| #-1048 | 8/13 | 8 | 41 | 46.4 | 5.522 | 94.697 | 30 | 5.3 | 4.3 | 83.62 | NORTHERN SUMATRA, INDONESIA |
| #-1049 | 8/13 | 9 | 53 | 11.7 | -29.907 | -177.775 | 46 | 5.2 | - | 77.48 | KERMADEC ISL, NEW ZEALAND |
| #-1050 | 8/13 | 12 | 36 | 4.2 | -19.344 | -174.501 | 25 | 4.8 | - | 88.43 | TONGA |
| #-1051 | 8/13 | 14 | 14 | 47.8 | -7.706 | 108.026 | 10 | 4.9 | - | 75.39 | JAVA, INDONESIA |
| #-1052 | 8/13 | 21 | 54 | 11.1 | -58.241 | -139.772 | 10 | 5.4 | - | 52.75 | PACIFIC-ANTARCTIC RIDGE |
| #-1053 | 8/14 | 9 | 10 | 16.6 | -12.182 | -14.799 | 10 | 4.6 | - | 66.19 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1054 | 8/14 | 23 | 4 | 11.9 | -31.161 | 179.768 | 367 | 4.8 | - | 75.78 | KERMADEC ISLANDS REGION |
| #-1055 | 8/15 | 14 | 44 | 47.2 | -33.685 | -179.352 | 10 | 4.9 | - | 73.50 | SOUTH OF KERMADEC ISLANDS |
| #-1056 | 8/15 | 17 | 45 | 34.5 | -22.612 | -175.262 | 10 | 5.0 | 4.3 | 85.08 | TONGA REGION |
| #-1057 | 8/16 | 8 | 0 | 13.9 | 14.026 | 56.825 | 22 | 5.0 | - | 84.00 | OWEN FRACTURE ZONE REGION |
| #-1058 | 8/16 | 9 | 15 | 28.2 | -7.955 | 106.715 | 10 | 4.7 | - | 74.70 | JAVA, IND. |
| #-1059 | 8/16 | 16 | 53 | 49.3 | -58.946 | 149.084 | 10 | 5.1 | 5.6 | 42.57 | WEST OF MACQU |
| #-1060 | 8/17 | 8 | 29 | 13.9 | -28.914 | 61.527 | 10 | 4.5 | - | 42.18 | SOUTHWEST INDIAN RIDGE |
| #-1061 | 8/17 | 8 | 52 | 55.5 | -29.580 | 61.760 | 10 | 4.7 | - | 41.57 | SOUTHWEST INDIAN RIDGE |
| #-1062 | 8/17 | 11 | 11 | 35.6 | 55.665 | 161.693 | 55 | 6.1 | - | 151.65 | NEAR THE EAST COAST OF KAMCHATKA, RUSSIA |
| #-1063 | 8/17 | 13 | 7 | 23.8 | -29.755 | -71.842 | 33 | 4.7 | - | 69.35 | OFFSHORE COQUIMBO, CHILE |
| #-1064 | 8/17 | 13 | 32 | 59.7 | -23.136 | -69.488 | 83 | 5.0 | - | 74.79 | ANTOFAGASTA, CHILE |
| #-1065 | 8/18 | 3 | 15 | 28.8 | -36.434 | -98.613 | 10 | 4.6 | - | 70.03 | SOUTHEAST OF EASTER ISLAND |
| #-1066 | 8/19 | 4 | 4 | 35.3 | -54.338 | 5.160 | 10 | 4.8 | - | 21.25 | BOUVET ISLAND REGION |
| #-1067 | 8/19 | 6 | 43 | 18.8 | -19.217 | -177.644 | 535 | 4.5 | - | 87.94 | FIJI REGION |
| #-1068 | 8/19 | 10 | 28 | 1.6 | -25.432 | -176.803 | 15 | 5.2 | - | 82.03 | SOUTH OF THE FIJI ISLANDS |
| #-1069 | 8/19 | 11 | 59 | 22.6 | -19.736 | 167.891 | 31 | 5.0 | - | 84.05 | VANUATU REGION |
| #-1070 | 8/19 | 16 | 5 | 59.4 | -28.968 | 61.473 | 10 | 5.0 | - | 42.21 | SOUTHWEST INDIAN RIDGE |
| #-1071 | 8/19 | 16 | 7 | 13.7 | -28.943 | 61.450 | 10 | 4.9 | - | 42.13 | SOUTHWEST INDIAN RIDGE |
| #-1072 | 8/19 | 16 | 10 | 49.7 | -28.864 | 61.577 | 10 | 4.8 | - | 42.24 | SOUTHWEST INDIAN RIDGE |
| #-1073 | 8/19 | 16 | 44 | 56.3 | -28.813 | 61.369 | 10 | 4.6 | - | 42.25 | SOUTHWEST INDIAN RIDGE |
| #-1074 | 8/19 | 16 | 59 | 46.8 | -17.751 | -178.179 | 536 | 4.2 | - | 89.26 | FIJI REGION |
| #-1075 | 8/20 | 2 | 51 | 12.8 | -28.987 | -68.255 | 93 | 5.0 | - | 68.93 | LARIOJA, ARGENTINA |
| #-1076 | 8/20 | 3 | 1 | 2.3 | 49.811 | 156.408 | 26 | 5.7 | 5.9 | 145.04 | KURIL ISLANDS |
| #-1077 | 8/20 | 3 | 41 | 47.4 | -61.006 | -34.391 | 10 | 6.4 | 6.8 | 29.98 | SCOTIA SEA |
| #-1078 | 8/20 | 13 | 35 | 0.3 | -60.845 | -34.094 | 10 | 5.5 | 5.5 | 29.99 | SCOTIA SEA |
| #-1079 | 8/20 | 16 | 1 | 55.8 | -5.870 | 152.446 | 44 | 4.9 | - | 92.65 | NEW BRITAIN REG, P.N.G. |
| #-1080 | 8/20 | 20 | 57 | 19.6 | -15.777 | -74.649 | 35 | 4.9 | - | 83.37 | NEAR COAST OF SOUTHERN PERU |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|-------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--|
| | | h | m | s | | | | Mb | Ms | | |
| #-1081 | 8/21 | 8 | 34 | 23.0 | -28.955 | 61.574 | 10 | 4.8 | - | 42.15 | SOUTHWEST INDIAN RIDGE |
| #-1082 | 8/21 | 12 | 49 | 14.4 | -2.859 | 126.207 | 10 | 5.4 | 4.4 | 86.33 | CERAM SEA, INDONESIA |
| #-1083 | 8/22 | 0 | 9 | 25.4 | -60.860 | -34.245 | 10 | 4.7 | - | 30.03 | SCOTIA SEA |
| #-1084 | 8/22 | 1 | 7 | 53.2 | -60.847 | -33.969 | 10 | 4.4 | - | 29.95 | SCOTIA SEA |
| #-1085 | 8/22 | 7 | 37 | 5.2 | -60.960 | -34.251 | 10 | 5.1 | - | 29.96 | SCOTIA SEA |
| #-1086 | 8/22 | 13 | 5 | 38.5 | -6.702 | 129.639 | 160 | 5.0 | - | 83.97 | BANDA SEA |
| #-1087 | 8/22 | 18 | 12 | 0.8 | -17.534 | -178.901 | 565 | 4.4 | - | 89.33 | FUJI REGION |
| #-1088 | 8/23 | 0 | 53 | 32.5 | -21.232 | 33.255 | 10 | 5.2 | - | 47.91 | MOZAMBIQUE |
| #-1089 | 8/23 | 1 | 59 | 43.5 | -21.286 | 33.251 | 19 | 4.5 | - | 47.85 | MOZAMBIQUE |
| #-1090 | 8/23 | 18 | 31 | 51.1 | 4.711 | 95.075 | 30 | 5.2 | 4.7 | 82.96 | NORTHERN SUMATRA, INDONESIA |
| #-1091 | 8/24 | 9 | 15 | 56.1 | -23.972 | -66.616 | 186 | 4.4 | - | 73.07 | JUJUY, ARGENTINA |
| #-1092 | 8/24 | 16 | 11 | 19.2 | -57.493 | 148.160 | 10 | 5.0 | - | 43.60 | WEST OF MACQUARIE ISLAND |
| #-1093 | 8/24 | 21 | 50 | 36.5 | 51.159 | 157.493 | 43 | 6.0 | - | 146.55 | NEAR THE EAST COAST OF KAMCHATKA, RUSSIA |
| #-1094 | 8/24 | 22 | 37 | 36.9 | -9.056 | 108.391 | 10 | 5.0 | - | 74.24 | SOUTH OF JAVA, INDONESIA |
| #-1095 | 8/24 | 23 | 49 | 15.5 | -7.698 | 128.281 | 35 | 4.8 | - | 82.56 | KEPULAUAN BARAT DAYA, IND. |
| #-1096 | 8/25 | 2 | 52 | 28.0 | -20.151 | -174.284 | 41 | 4.6 | - | 87.68 | TONGA |
| #-1097 | 8/25 | 8 | 3 | 5.4 | 12.200 | 95.288 | 30 | 4.9 | - | 90.17 | ANDAMAN ISL, INDIA REGION |
| #-1098 | 8/25 | 16 | 30 | 3.4 | -31.759 | -69.059 | 102 | 4.3 | - | 66.61 | SAN JUAN, ARGENTINA |
| #-1099 | 8/26 | 11 | 10 | 0.0 | -39.350 | 175.520 | 15 | 4.7 | - | 66.98 | NORTH ISLAND OF NEW ZEALAND |
| #-1100 | 8/26 | 23 | 40 | 44.0 | 51.407 | -179.459 | 73 | 5.7 | - | 154.78 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-1101 | 8/26 | 23 | 44 | 39.7 | 52.180 | -179.172 | 35 | 5.3 | - | 155.53 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-1102 | 8/26 | 23 | 55 | 18.1 | 51.429 | -179.485 | 76 | 5.0 | - | 154.79 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-1103 | 8/27 | 3 | 58 | 34.6 | 3.961 | 96.001 | 47 | 4.5 | - | 82.52 | NORTHERN SUMATRA, INDONESIA |
| #-1104 | 8/27 | 7 | 7 | 32.2 | -18.994 | 169.297 | 237 | 5.1 | - | 85.13 | VANUATU |
| #-1105 | 8/27 | 19 | 40 | 42.8 | -5.641 | 146.403 | 65 | 4.4 | - | 90.85 | E NEW GUINEA REG, P.N.G. |
| #-1106 | 8/28 | 5 | 22 | 51.4 | -9.121 | 108.029 | 35 | 5.0 | - | 74.06 | SOUTH OF JAVA, INDONESIA |
| #-1107 | 8/28 | 6 | 1 | 25.7 | -41.880 | 84.810 | 10 | 4.5 | - | 35.98 | SOUTHEAST INDIAN RIDGE |
| #-1108 | 8/28 | 8 | 24 | 16.9 | -6.245 | 130.031 | 130 | 4.3 | - | 84.54 | BANDA SEA |
| #-1109 | 8/28 | 14 | 24 | 10.7 | -10.818 | 165.068 | 42 | 5.4 | 5.4 | 91.83 | SANTA CRUZ ISLANDS |
| #-1110 | 8/28 | 15 | 8 | 59.2 | -10.776 | 165.016 | 35 | 4.9 | - | 91.85 | SANTA CRUZ ISLANDS |
| #-1111 | 8/28 | 15 | 32 | 51.6 | -10.838 | 165.090 | 38 | 4.9 | - | 91.81 | SANTA CRUZ ISLANDS |
| #-1112 | 8/29 | 1 | 54 | 15.7 | -8.934 | 121.652 | 18 | 4.7 | - | 79.03 | FLORES REGION, INDONESIA |
| #-1113 | 8/29 | 12 | 18 | 18.2 | -0.349 | 125.237 | 73 | 5.1 | - | 88.32 | MOLUCCA SEA |
| #-1114 | 8/29 | 13 | 38 | 4.7 | -6.659 | 131.938 | 10 | 5.1 | - | 84.83 | KEPULAUAN TANIMBAR REG, IND. |
| #-1115 | 8/29 | 20 | 4 | 9.3 | 5.633 | 127.075 | 143 | 4.7 | - | 94.57 | PHILIPPINE ISLANDS REGION |
| #-1116 | 8/29 | 20 | 59 | 17.2 | -9.425 | 108.417 | 10 | 5.0 | - | 73.91 | SOUTH OF JAVA, INDONESIA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---------------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1117 | 8/29 | 23 | 49 | 20.7 | -30.400 | 77.882 | 10 | 4.5 | - | 44.52 | MID-INDIAN RIDGE |
| #-1118 | 8/30 | 16 | 13 | 38.5 | -17.549 | 65.855 | 10 | 4.8 | 4.7 | 54.11 | MAURITIUS - REUNION REGION |
| #-1119 | 8/30 | 17 | 39 | 37.2 | -9.538 | 107.818 | 10 | 5.1 | - | 73.60 | SOUTH OF JAVA, INDONESIA |
| #-1120 | 8/30 | 17 | 43 | 58.0 | -9.566 | 107.734 | 10 | 4.9 | - | 73.54 | SOUTH OF JAVA, INDONESIA |
| #-1121 | 8/31 | 8 | 8 | 29.3 | -0.302 | 125.085 | 51 | 6.0 | - | 88.31 | MOLUCCA SEA |
| #-1122 | 8/31 | 9 | 41 | 39.7 | 45.329 | 149.953 | 44 | 5.1 | - | 138.94 | KURIL ISLANDS |
| #-1123 | 8/31 | 10 | 37 | 3.0 | -9.453 | 150.549 | 48 | 4.8 | - | 88.65 | E NEW GUINEA REG, P.N.G. |
| #-1124 | 8/31 | 13 | 22 | 37.6 | -11.412 | 118.501 | 40 | 4.8 | - | 75.60 | SOUTH OF SUMBAWA, INDONESIA |
| #-1125 | 8/31 | 16 | 20 | 35.5 | -24.149 | -66.913 | 182 | 5.0 | - | 73.00 | SALTA, ARGENTINA |
| #-1126 | 9/1 | 4 | 37 | 14.0 | -32.543 | -178.845 | 39 | 5.1 | - | 74.70 | SOUTH OF KERMADEC ISLANDS |
| #-1127 | 9/1 | 6 | 35 | 1.2 | -32.697 | -178.791 | 42 | 5.2 | - | 74.56 | SOUTH OF KERMADEC ISLANDS |
| #-1128 | 9/1 | 10 | 18 | 52.3 | -6.822 | 155.535 | 46 | 6.2 | - | 92.75 | BOUGAINVILLE REGION, P.N.G. |
| #-1129 | 9/1 | 12 | 4 | 22.4 | 53.997 | -166.366 | 78 | 5.9 | - | 161.01 | FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA |
| #-1130 | 9/1 | 15 | 52 | 41.3 | -25.427 | -70.514 | 48 | 4.9 | - | 72.98 | OFFSHORE ANTOFAGASTA, CHILE |
| #-1131 | 9/2 | 16 | 26 | 7.7 | -21.539 | -68.482 | 86 | 4.2 | - | 75.96 | ANTOFAGASTA, CHILE |
| #-1132 | 9/2 | 18 | 37 | 59.5 | -6.642 | 130.747 | 10 | 4.9 | - | 84.42 | BANDA SEA |
| #-1133 | 9/2 | 22 | 0 | 2.1 | 52.409 | 152.383 | 491 | 4.4 | - | 145.74 | NORTHWEST OF KURIL ISLANDS |
| #-1134 | 9/3 | 4 | 26 | 29.5 | -21.767 | -175.119 | 37 | 5.3 | 5.2 | 85.94 | TONGA |
| #-1135 | 9/4 | 0 | 34 | 5.2 | -23.918 | -66.583 | 176 | 5.2 | - | 73.11 | JUJUY, ARGENTINA |
| #-1136 | 9/4 | 1 | 3 | 53.3 | -9.196 | 107.574 | 31 | 5.2 | - | 73.83 | SOUTH OF JAVA, INDONESIA |
| #-1137 | 9/4 | 4 | 47 | 13.0 | -4.375 | 142.968 | 101 | 5.4 | - | 90.86 | NEW GUINEA, P.N.G. |
| #-1138 | 9/4 | 13 | 38 | 43.1 | 1.551 | 97.153 | 27 | 4.7 | - | 80.58 | NIAS REGION, INDONESIA |
| #-1139 | 9/4 | 17 | 42 | 16.8 | -21.030 | -178.920 | 568 | 4.2 | - | 85.91 | FUJI REGION |
| #-1140 | 9/5 | 8 | 32 | 44.2 | -17.336 | -73.547 | 41 | 4.8 | - | 81.55 | OFF COAST OF SOUTHERN PERU |
| #-1141 | 9/5 | 9 | 33 | 44.3 | -15.505 | -173.832 | 62 | 4.7 | - | 92.32 | TONGA |
| #-1142 | 9/5 | 14 | 15 | 23.1 | -42.759 | -85.533 | 10 | 5.1 | - | 61.01 | WEST CHILE RISE |
| #-1143 | 9/5 | 16 | 24 | 10.8 | -57.900 | -7.510 | 10 | 5.0 | - | 22.80 | EAST OF SOUTH SANDWICH ISL. |
| #-1144 | 9/5 | 21 | 38 | 52.1 | -3.552 | 145.795 | 35 | 5.2 | - | 92.60 | NR N CST NEW GUINEA, P.N.G. |
| #-1145 | 9/5 | 23 | 54 | 47.5 | -16.121 | 168.171 | 35 | 4.5 | - | 87.60 | VANUATU |
| #-1146 | 9/6 | 5 | 0 | 28.4 | 61.660 | 168.621 | 10 | 5.7 | 5.0 | 158.46 | KORYAKIA, RUSSIA |
| #-1147 | 9/6 | 11 | 42 | 41.6 | -60.854 | -34.037 | 10 | 5.5 | 5.3 | 29.97 | SCOTIA SEA |
| #-1148 | 9/7 | 4 | 7 | 5.6 | -31.070 | -178.390 | 100 | 4.3 | - | 76.23 | KERMADEC ISLANDS REGION |
| #-1149 | 9/8 | 14 | 11 | 31.8 | -17.916 | -174.644 | 132 | 5.0 | - | 89.80 | TONGA |
| #-1150 | 9/8 | 19 | 49 | 43.0 | -5.975 | 128.731 | 319 | 4.9 | - | 84.32 | BANDA SEA |
| #-1151 | 9/8 | 21 | 15 | 6.2 | -14.355 | 173.579 | 580 | 4.3 | - | 90.69 | FUJI REGION |
| #-1152 | 9/9 | 0 | 9 | 5.0 | -23.906 | -66.612 | 183 | 4.8 | - | 73.13 | JUJUY, ARGENTINA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|------------------------------|
| | | UTC h m s | Mb | Ms | | | | | | | |
| #-1153 | 9/9 | 4 | 13 | 11.8 | -7.208 | 120.087 | 571 | 6.0 | - | 80.08 | FLORES SEA |
| #-1154 | 9/9 | 5 | 5 | 46.7 | 1.110 | 99.643 | 14 | 5.3 | - | 80.94 | NORTHERN SUMATRA, INDONESIA |
| #-1155 | 9/9 | 7 | 48 | 6.5 | -22.265 | -179.639 | 614 | 4.6 | - | 84.56 | SOUTH OF THE FIJI ISLANDS |
| #-1156 | 9/9 | 9 | 42 | 17.7 | -6.120 | 154.377 | 50 | 4.8 | - | 93.04 | BOUGAINVILLE REG, P.N.G. |
| #-1157 | 9/9 | 15 | 16 | 47.4 | -21.438 | -68.167 | 124 | 4.9 | - | 75.95 | POTOSI, BOLIVIA |
| #-1158 | 9/9 | 17 | 31 | 11.0 | -32.540 | -70.285 | 95 | 4.7 | - | 66.27 | VALPARAISO, CHILE |
| #-1159 | 9/9 | 17 | 48 | 55.8 | -6.932 | 109.805 | 252 | 4.6 | - | 76.72 | JAVA, INDONESIA |
| #-1160 | 9/10 | 2 | 59 | 19.2 | -31.707 | 179.885 | 351 | 4.7 | - | 75.27 | KERMADEC ISLANDS REGION |
| #-1161 | 9/10 | 6 | 35 | 54.0 | -58.023 | -25.801 | 75 | 5.1 | - | 29.22 | SOUTH SANDWICH ISL REGION |
| #-1162 | 9/10 | 11 | 17 | 40.6 | -22.828 | -66.244 | 203 | 5.0 | - | 74.02 | JUJUY, ARGENTINA |
| #-1163 | 9/10 | 12 | 42 | 22.9 | -7.327 | 130.377 | 59 | 4.5 | - | 83.65 | KEPULAUAN TANIMBAR REG, IND. |
| #-1164 | 9/10 | 13 | 17 | 55.8 | -20.772 | -175.372 | 128 | 4.5 | - | 86.87 | TONGA |
| #-1165 | 9/10 | 14 | 56 | 7.4 | 26.331 | -86.577 | 10 | 5.8 | 5.4 | 126.94 | GULF OF MEXICO |
| #-1166 | 9/10 | 23 | 41 | 42.1 | 1.261 | 98.711 | 45 | 4.6 | - | 80.79 | NORTHERN SUMATRA, INDONESIA |
| #-1167 | 9/11 | 1 | 27 | 33.8 | -26.317 | -70.543 | 39 | 4.8 | - | 72.15 | ATACAMA, CHILE |
| #-1168 | 9/11 | 15 | 27 | 53.5 | -5.158 | -76.392 | 22 | 4.8 | - | 93.96 | NORTHERN PERU |
| #-1169 | 9/11 | 20 | 59 | 27.6 | -21.485 | -174.536 | 10 | 5.2 | - | 86.32 | TONGA |
| #-1170 | 9/12 | 1 | 15 | 8.0 | -25.075 | -71.366 | 67 | 4.6 | - | 73.58 | OFF COAST ANTOFAGASTA, CHILE |
| #-1171 | 9/12 | 15 | 56 | 30.7 | 8.273 | 126.565 | 35 | 5.3 | 4.8 | 96.85 | MINDANAO, PHILIPPINES |
| #-1172 | 9/13 | 1 | 43 | 31.5 | -33.262 | -179.293 | 35 | 4.9 | - | 73.92 | SOUTH OF KERMADEC ISLANDS |
| #-1173 | 9/13 | 5 | 50 | 40.6 | -29.790 | -178.250 | 35 | 4.5 | - | 77.50 | KERMADEC ISL, NEW ZEALAND |
| #-1174 | 9/14 | 1 | 8 | 46.0 | -58.323 | -29.891 | 10 | 4.8 | - | 30.43 | SOUTH SANDWICH ISL REGION |
| #-1175 | 9/14 | 2 | 43 | 45.9 | -19.540 | 170.260 | 35 | 4.3 | - | 84.86 | VANUATU |
| #-1176 | 9/14 | 7 | 37 | 21.1 | -19.895 | -175.362 | 46 | 4.8 | - | 87.73 | TONGA |
| #-1177 | 9/15 | 2 | 57 | 39.6 | -14.991 | 166.907 | 79 | 4.9 | - | 88.34 | VANUATU |
| #-1178 | 9/15 | 5 | 2 | 39.7 | -23.203 | -68.769 | 94 | 4.4 | - | 74.50 | ANTOFAGASTA, CHILE |
| #-1179 | 9/15 | 15 | 11 | 55.3 | -56.066 | -27.168 | 125 | 4.6 | - | 31.20 | SOUTH SANDWICH ISL REGION |
| #-1180 | 9/15 | 19 | 49 | 30.7 | -4.611 | 153.000 | 67 | 5.3 | - | 94.02 | NEW IRELAND REG, P.N.G. |
| #-1181 | 9/16 | 5 | 58 | 41.4 | 1.626 | 127.255 | 99 | 4.7 | - | 90.89 | ALMAHIERA, IN |
| #-1182 | 9/16 | 6 | 17 | 46.8 | 5.110 | 94.799 | 49 | 5.5 | 4.9 | 83.26 | NORTHERN SUMATRA, INDONESIA |
| #-1183 | 9/16 | 9 | 45 | 24.1 | -3.109 | 129.442 | 17 | 5.9 | 6.2 | 87.25 | SERAM, INDONESIA |
| #-1184 | 9/16 | 12 | 38 | 11.7 | -25.253 | 179.695 | 485 | 4.7 | - | 81.51 | SOUTH OF THE FIJI ISLANDS |
| #-1185 | 9/16 | 12 | 56 | 35.9 | -31.884 | -70.743 | 59 | 4.3 | - | 67.02 | COQUIMBO, CHILE |
| #-1186 | 9/16 | 14 | 8 | 35.1 | -17.323 | -178.742 | 509 | 4.5 | - | 89.56 | FIJI REGION |
| #-1187 | 9/16 | 15 | 57 | 9.6 | -3.087 | 129.558 | 10 | 5.0 | - | 87.31 | SERAM, INDONESIA |
| #-1188 | 9/16 | 18 | 59 | 11.0 | -23.850 | -66.671 | 203 | 4.1 | - | 73.20 | JUJUY, ARGENTINA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|-------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|----|---------------------------------|---|
| | | UTC h | m | s | | | | Mb | Ms | | |
| #-1189 | 9/16 | 23 | 24 | 46.4 | -3.012 | 129.508 | 30 | 5.1 | - | 87.37 | SERAM, INDONESIA |
| #-1190 | 9/17 | 5 | 40 | 4.3 | -10.053 | 108.794 | 10 | 4.6 | - | 73.45 | SOUTH OF JAVA, INDONESIA |
| #-1191 | 9/17 | 6 | 50 | 58.2 | -3.438 | 153.323 | 387 | 4.3 | - | 95.23 | NEW IRELAND REG, P.N.G. |
| #-1192 | 9/17 | 7 | 30 | 11.1 | -17.694 | 41.721 | 10 | 5.4 | - | 51.34 | MOZAMBIQUE CHANNEL |
| #-1193 | 9/17 | 7 | 40 | 7.5 | -23.960 | 179.470 | 628 | 4.5 | - | 82.72 | SOUTH OF THE FIJI ISLANDS |
| #-1194 | 9/17 | 9 | 34 | 13.9 | -31.659 | -66.879 | 142 | 5.8 | - | 66.01 | SAN JUAN, ARGENTINA |
| #-1195 | 9/17 | 14 | 8 | 50.9 | -0.011 | 98.457 | 56 | 4.5 | - | 79.50 | KEPULAUAN BATU, INDONESIA |
| #-1196 | 9/17 | 15 | 47 | 21.1 | -3.110 | 129.562 | 34 | 4.8 | - | 87.29 | SERAM, INDONESIA |
| #-1197 | 9/18 | 1 | 41 | 20.3 | -6.203 | 146.045 | 122 | 5.1 | - | 90.20 | E NEW GUINEA REG, P.N.G. |
| #-1198 | 9/18 | 3 | 46 | 2.7 | 51.724 | -173.843 | 61 | 5.8 | - | 156.83 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA |
| #-1199 | 9/18 | 10 | 37 | 10.1 | -10.933 | 163.265 | 35 | 5.1 | - | 91.20 | SOLOMON ISLANDS |
| #-1200 | 9/18 | 12 | 1 | 42.3 | -9.418 | 107.425 | 26 | 4.9 | - | 73.57 | SOUTH OF JAVA, INDONESIA |
| #-1201 | 9/18 | 23 | 45 | 28.4 | -15.560 | 167.597 | 151 | 5.1 | - | 87.98 | VANUATU |
| #-1202 | 9/19 | 10 | 51 | 43.6 | -23.909 | -66.494 | 158 | 4.9 | - | 73.09 | JUJUY, ARGENTINA |
| #-1203 | 9/19 | 20 | 39 | 39.9 | 5.099 | 94.508 | 30 | 4.8 | - | 83.16 | NORTHERN SUMATRA, INDONESIA |
| #-1204 | 9/20 | 4 | 12 | 7.7 | -18.952 | -69.118 | 106 | 4.9 | - | 78.59 | TARAPACA, CHILE |
| #-1205 | 9/21 | 5 | 14 | 39.7 | -23.195 | 170.355 | 37 | 4.9 | - | 81.36 | SOUTHEAST OF LOYALTY ISLANDS |
| #-1206 | 9/21 | 7 | 16 | 27.2 | -20.925 | 173.422 | 27 | 5.0 | - | 84.30 | VANUATU REGION |
| #-1207 | 9/21 | 10 | 23 | 48.5 | -3.077 | 129.585 | 30 | 4.5 | - | 87.33 | SERAM, INDONESIA |
| #-1208 | 9/22 | 2 | 7 | 31.8 | -24.470 | 179.690 | 595 | 4.1 | - | 82.27 | SOUTH OF THE FIJI ISLANDS |
| #-1209 | 9/22 | 2 | 32 | 26.0 | -26.737 | -63.013 | 599 | 6.0 | - | 69.30 | SANTIAGO DEL ESTERO, ARGENTINA |
| #-1210 | 9/22 | 16 | 24 | 45.8 | -22.570 | -176.195 | 12 | 4.7 | - | 84.95 | SOUTH OF THE FIJI ISLANDS |
| #-1211 | 9/23 | 3 | 53 | 37.5 | -9.030 | 119.164 | 100 | 5.2 | - | 78.05 | SUMBA REG, IND. |
| #-1212 | 9/23 | 21 | 29 | 57.2 | -24.206 | -66.939 | 154 | 4.6 | - | 72.96 | SALTA, ARGENTINA |
| #-1213 | 9/24 | 1 | 12 | 23.1 | -11.275 | -74.803 | 57 | 5.3 | - | 87.67 | CENTRAL PERU |
| #-1214 | 9/24 | 1 | 41 | 30.9 | -17.104 | 42.230 | 10 | 4.7 | - | 51.94 | MOZAMBIQUE CHANNEL |
| #-1215 | 9/24 | 9 | 4 | 37.8 | -33.851 | -72.122 | 27 | 4.6 | - | 65.62 | OFFSHORE VALPARAISO, CHILE |
| #-1216 | 9/24 | 12 | 16 | 47.6 | -33.885 | -72.235 | 26 | 4.7 | - | 65.62 | OFFSHORE LIBERTADOR O'HIGGINS, CHILE |
| #-1217 | 9/24 | 13 | 43 | 34.3 | -17.712 | -178.630 | 549 | 4.2 | - | 89.21 | FIJI REGION |
| #-1218 | 9/24 | 21 | 57 | 1.0 | -35.727 | -72.076 | 44 | 5.1 | - | 63.86 | MAULE, CHILE |
| #-1219 | 9/24 | 22 | 56 | 20.5 | -17.710 | 41.370 | 2 | 5.7 | - | 51.32 | MOZAMBIQUE CHANNEL |
| #-1220 | 9/25 | 7 | 46 | 30.8 | -6.140 | 154.348 | 61 | 5.3 | - | 93.01 | BOUGAINVILLE REG, P.N.G. |
| #-1221 | 9/25 | 10 | 33 | 14.1 | -8.462 | 98.518 | 30 | 4.9 | - | 71.51 | SW OF SUMATRA, INDONESIA |
| #-1222 | 9/25 | 14 | 12 | 56.4 | -21.595 | -175.776 | 35 | 4.7 | - | 85.98 | TONGA |
| #-1223 | 9/25 | 22 | 3 | 48.2 | 33.446 | 131.610 | 72 | 5.5 | - | 121.88 | KYUSHU, JAPAN |
| #-1224 | 9/25 | 23 | 54 | 46.2 | -10.796 | 66.730 | 10 | 4.8 | - | 60.90 | MID-INDIAN RIDGE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1225 | 9/26 | 0 | 59 | 24.9 | -16.729 | -71.339 | 111 | 4.4 | - | 81.40 | SOUTHERN PERU |
| #-1226 | 9/27 | 15 | 50 | 5.1 | -18.192 | -178.044 | 598 | 4.6 | - | 88.86 | FUJI REGION |
| #-1227 | 9/28 | 6 | 22 | 9.6 | -16.613 | -172.035 | 28 | 6.5 | 6.6 | 91.56 | SAMOA ISLANDS REGION |
| #-1228 | 9/28 | 8 | 7 | 31.9 | -29.926 | -177.739 | 51 | 5.3 | - | 77.47 | KERMADEC ISL, NEW ZEALAND |
| #-1229 | 9/28 | 10 | 23 | 53.5 | 2.864 | 126.433 | 90 | 4.7 | - | 91.75 | MOLUCCA SEA |
| #-1230 | 9/28 | 13 | 22 | 47.4 | 11.775 | 95.086 | 23 | 4.9 | - | 89.70 | ANDAMAN ISL, INDIA REGION |
| #-1231 | 9/28 | 14 | 39 | 15.3 | 11.801 | 95.090 | 23 | 5.1 | - | 89.73 | ANDAMAN ISL, INDIA REGION |
| #-1232 | 9/29 | 0 | 40 | 41.8 | -14.486 | -75.568 | 128 | 4.1 | - | 84.88 | NEAR THE COAST OF CENTRAL PERU |
| #-1233 | 9/29 | 0 | 43 | 44.7 | -16.097 | -176.219 | 356 | 4.9 | - | 91.28 | FUJI REGION |
| #-1234 | 9/29 | 4 | 16 | 27.9 | -15.785 | -176.357 | 361 | 4.5 | - | 91.55 | FUJI REGION |
| #-1235 | 9/29 | 5 | 50 | 49.0 | -58.973 | -25.783 | 67 | 4.8 | - | 28.51 | SOUTH SANDWICH ISL REGION |
| #-1236 | 9/29 | 5 | 52 | 4.3 | -30.620 | -178.580 | 81 | 5.0 | - | 76.63 | KERMADEC ISL, NEW ZEALAND |
| #-1237 | 9/29 | 13 | 8 | 25.7 | 10.910 | -61.650 | 53 | 6.1 | - | 103.99 | TRINIDAD REGION, TRINIDAD AND TOBAGO |
| #-1238 | 9/30 | 4 | 31 | 39.4 | -14.342 | 167.334 | 205 | 4.6 | - | 89.08 | VANUATU |
| #-1239 | 9/30 | 5 | 50 | 23.3 | -10.439 | 105.719 | 10 | 5.3 | - | 72.03 | CHRISTMAS ISLAND REGION, AUSTRALIA |
| #-1240 | 9/30 | 12 | 47 | 22.9 | 7.305 | -34.642 | 10 | 5.7 | 5.0 | 91.07 | CENTRAL MID-ATLANTIC RIDGE |
| #-1241 | 9/30 | 13 | 47 | 1.1 | -41.505 | -87.037 | 10 | 4.6 | - | 62.56 | WEST CHILE RISE |
| #-1242 | 9/30 | 14 | 13 | 4.0 | -65.236 | -179.641 | 10 | 4.9 | - | 43.06 | PACIFIC-ANTARCTIC RIDGE |
| #-1243 | 9/30 | 15 | 27 | 17.6 | 2.837 | 128.645 | 215 | 4.9 | - | 92.52 | HALMAHERA, INDONESIA |
| #-1244 | 9/30 | 16 | 26 | 56.1 | -15.535 | -73.092 | 107 | 5.6 | - | 83.10 | SOUTHERN PERU |
| #-1245 | 9/30 | 17 | 50 | 22.6 | 46.385 | 153.053 | 11 | 6.1 | 6.4 | 140.95 | KURIL ISLANDS |
| #-1246 | 9/30 | 18 | 53 | 5.5 | 7.400 | -34.598 | 10 | 4.6 | - | 91.15 | CENTRAL MID-ATLANTIC RIDGE |
| #-1247 | 10/1 | 2 | 24 | 4.7 | 46.301 | 152.967 | 41 | 5.1 | - | 140.85 | KURIL ISLANDS |
| #-1248 | 10/1 | 3 | 25 | 44.4 | 11.791 | 95.040 | 26 | 4.9 | - | 89.70 | ANDAMAN ISL, INDIA REGION |
| #-1249 | 10/1 | 8 | 20 | 10.3 | -2.969 | 129.844 | 30 | 4.8 | - | 87.53 | SERAM, INDONESIA |
| #-1250 | 10/1 | 9 | 6 | 2.4 | 46.513 | 153.209 | 19 | 6.1 | 6.4 | 141.12 | KURIL ISLANDS |
| #-1251 | 10/1 | 15 | 58 | 57.0 | -26.671 | -114.932 | 10 | 5.2 | 4.6 | 82.44 | EASTER ISLAND |
| #-1252 | 10/2 | 2 | 2 | 40.3 | -23.335 | -175.532 | 49 | 4.9 | - | 84.33 | TONGA REGION |
| #-1253 | 10/2 | 3 | 41 | 36.8 | -5.973 | 146.695 | 35 | 5.2 | - | 90.64 | E NEW GUINEA REC, P.N.G. |
| #-1254 | 10/3 | 0 | 33 | 38.6 | -19.189 | -69.100 | 78 | 4.6 | - | 78.36 | TARAPACA, CHILE |
| #-1255 | 10/3 | 7 | 57 | 18.5 | -53.143 | 22.719 | 10 | 4.6 | - | 17.58 | SOUTH OF AFRICA |
| #-1256 | 10/3 | 9 | 42 | 14.5 | 9.399 | 93.002 | 67 | 4.8 | - | 86.83 | NICOBAR ISL, INDIA REGION |
| #-1257 | 10/3 | 18 | 3 | 14.4 | -18.979 | 169.027 | 172 | 5.8 | - | 85.08 | VANUATU |
| #-1258 | 10/3 | 18 | 38 | 53.5 | -21.866 | -179.231 | 524 | 4.3 | - | 85.03 | FUJI REGION |
| #-1259 | 10/4 | 1 | 16 | 42.7 | -23.654 | 179.623 | 601 | 4.3 | - | 83.05 | SOUTH OF THE FUJI ISLANDS |
| #-1260 | 10/4 | 1 | 48 | 59.4 | -26.939 | 178.468 | 589 | 4.6 | - | 79.61 | SOUTH OF THE FUJI ISLANDS |

Table 2. Continued.

| No. | Date | Origin time UTC | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-----------------------------|
| | | h | m | s | | | | Mb | Ms | | |
| #-1261 | 10/4 | 3 | 53 | 38.3 | 4.168 | 126.461 | 25 | 5.4 | 4.5 | 92.98 | KEPULAUAN TALAUD, INDONESIA |
| #-1262 | 10/4 | 7 | 24 | 10.1 | -30.993 | -179.451 | 227 | 4.8 | - | 76.10 | KERMADEC ISLANDS REGION |
| #-1263 | 10/4 | 8 | 28 | 23.5 | 60.655 | 165.751 | 10 | 5.1 | - | 156.76 | NR E COAST KORYAKIA, RUSSIA |
| #-1264 | 10/4 | 13 | 33 | 39.5 | 1.096 | 97.450 | 50 | 5.1 | 4.3 | 80.24 | NIAS REGION, INDONESIA |
| #-1265 | 10/5 | 2 | 47 | 3.2 | -24.135 | -66.840 | 175 | 4.1 | - | 72.99 | SALTA, ARGENTINA |
| #-1266 | 10/5 | 6 | 2 | 23.9 | -6.626 | 130.427 | 26 | 4.4 | - | 84.32 | BANDA SEA |
| #-1267 | 10/5 | 8 | 34 | 6.9 | -26.391 | 27.682 | 10 | 4.5 | - | 43.14 | SOUTH AFRICA |
| #-1268 | 10/5 | 12 | 38 | 14.1 | -56.038 | -26.482 | 23 | 4.6 | - | 30.98 | SOUTH SANDWICH ISL REGION |
| #-1269 | 10/6 | 4 | 23 | 7.1 | 9.425 | 93.141 | 45 | 4.8 | - | 86.89 | NICOBAR ISL, INDIA REGION |
| #-1270 | 10/6 | 4 | 42 | 36.8 | -22.688 | -12.820 | 10 | 4.7 | - | 55.64 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1271 | 10/6 | 5 | 8 | 53.6 | -41.183 | 80.674 | 10 | 5.1 | 5.4 | 35.30 | MID-INDIAN RIDGE |
| #-1272 | 10/6 | 7 | 18 | 19.6 | 14.549 | 55.945 | 10 | 5.0 | - | 84.42 | OWEN FRACTURE ZONE REGION |
| #-1273 | 10/6 | 14 | 49 | 3.8 | 1.353 | 97.188 | 31 | 5.0 | 4.9 | 80.40 | NIAS REGION, INDONESIA |
| #-1274 | 10/6 | 16 | 25 | 27.9 | -50.136 | -114.577 | 10 | 5.0 | - | 59.27 | SOUTHERN EAST RISE |
| #-1275 | 10/6 | 17 | 37 | 45.9 | -7.483 | 128.328 | 105 | 5.0 | - | 82.77 | KEPULAUAN BARAT DAYA, IND. |
| #-1276 | 10/7 | 3 | 21 | 7.6 | 6.166 | 60.739 | 10 | 5.0 | - | 76.67 | CARLSBERG RIDGE |
| #-1277 | 10/7 | 8 | 20 | 56.9 | -23.995 | -68.846 | 104 | 5.8 | - | 73.78 | ANTOFAGASTA, CHILE. |
| #-1278 | 10/7 | 16 | 32 | 18.7 | -45.673 | -76.381 | 37 | 5.0 | - | 55.91 | OFF COAST OF AISEN, CHILE |
| #-1279 | 10/7 | 17 | 16 | 57.1 | -17.964 | 167.822 | 10 | 5.1 | - | 85.74 | VANUATU |
| #-1280 | 10/7 | 21 | 12 | 30.7 | 11.822 | 100.137 | 35 | 5.0 | - | 91.26 | GULF OF THAILAND |
| #-1281 | 10/8 | 13 | 50 | 23.7 | -23.566 | -175.258 | 10 | 5.7 | 5.6 | 84.15 | TONGA REGION |
| #-1282 | 10/8 | 14 | 10 | 16.5 | -23.411 | -175.434 | 10 | 5.4 | - | 84.27 | TONGA REGION |
| #-1283 | 10/8 | 14 | 46 | 55 | -23.385 | -175.524 | 10 | 5.3 | - | 84.28 | TONGA REGION |
| #-1284 | 10/8 | 18 | 54 | 55.9 | -23.507 | -175.446 | 8 | 5.3 | - | 84.17 | TONGA REGION |
| #-1285 | 10/9 | 0 | 10 | 0.4 | -23.426 | -175.542 | 10 | 4.8 | - | 84.23 | TONGA REGION |
| #-1286 | 10/9 | 9 | 36 | 48.5 | -31.969 | -69.514 | 104 | 4.5 | - | 66.56 | SAN JUAN, ARGENTINA |
| #-1287 | 10/9 | 9 | 55 | 38.5 | -22.314 | -67.250 | 180 | 4.6 | - | 74.83 | POTOSI, BOLIVIA |
| #-1288 | 10/9 | 11 | 0 | 28.8 | -5.784 | 153.945 | 61 | 5.3 | - | 93.22 | NEW IRELAND REG, P.N.G. |
| #-1289 | 10/9 | 13 | 45 | 13.3 | 1.129 | 97.120 | 23 | 4.9 | - | 80.17 | NIAS REGION, INDONESIA |
| #-1290 | 10/9 | 13 | 57 | 23.2 | -10.005 | 160.821 | 57 | 5.1 | - | 91.36 | SOLOMON ISLANDS |
| #-1291 | 10/9 | 15 | 14 | 40.0 | -0.303 | 125.328 | 55 | 4.9 | - | 88.40 | MOLUCCA SEA |
| #-1292 | 10/9 | 18 | 19 | 33.7 | -51.015 | 28.989 | 10 | 5.6 | - | 18.62 | SOUTH OF AFRICA |
| #-1293 | 10/10 | 8 | 2 | 52.3 | -56.088 | -122.396 | 10 | 5.3 | 5.7 | 54.17 | SOUTHERN EAST PACIFIC RISE |
| #-1294 | 10/10 | 18 | 17 | 8.2 | -31.760 | -66.877 | 139 | 4.6 | - | 65.92 | SAN JUAN, ARGENTINA |
| #-1295 | 10/11 | 10 | 50 | 9.5 | -23.890 | -66.260 | 192 | 4.5 | - | 73.03 | SALTA, ARGENTINA |
| #-1296 | 10/11 | 14 | 21 | 34.2 | -22.000 | -70.423 | 28 | 4.4 | - | 76.16 | OFFSHORE ANTOFAGASTA, CHILE |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|---------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1297 | 10/11 | 21 | 19 | 33.7 | -21.971 | -179.333 | 592 | 4.7 | - | 84.91 | FUJI REGION |
| #-1298 | 10/12 | 2 | 26 | 29.6 | -23.495 | -176.040 | 68 | 4.7 | - | 84.07 | SOUTH OF THE FUJI ISLANDS |
| #-1299 | 10/12 | 3 | 9 | 3.5 | -7.227 | 129.391 | 37 | 4.5 | - | 83.39 | KEPULAUAN BABAR, INDONESIA |
| #-1300 | 10/12 | 5 | 26 | 5.6 | -23.436 | -175.869 | 35 | 4.8 | - | 84.16 | TONGA REGION |
| #-1301 | 10/12 | 5 | 30 | 35.4 | 4.994 | 95.037 | 30 | 5.5 | 4.3 | 83.22 | NORTHERN SUMATRA, INDONESIA |
| #-1302 | 10/12 | 5 | 51 | 14.0 | -23.420 | -175.986 | 39 | 4.9 | - | 84.16 | TONGA REGION |
| #-1303 | 10/12 | 11 | 57 | 1.1 | -19.716 | -176.048 | 164 | 4.5 | - | 87.77 | FUJI REGION |
| #-1304 | 10/12 | 18 | 5 | 56.3 | -31.256 | -71.390 | 29 | 5.9 | - | 67.81 | COQUIMBO, CHILE |
| #-1305 | 10/13 | 0 | 7 | 22.9 | -56.020 | -121.491 | 10 | 4.7 | - | 54.16 | SOUTHERN EAST PACIFIC RISE |
| #-1306 | 10/13 | 0 | 8 | 37.5 | -7.560 | 127.790 | 112 | 5.1 | - | 82.51 | KEPULAUAN BARAT DAYA, INDONESIA |
| #-1307 | 10/13 | 5 | 15 | 26.4 | 51.978 | 152.821 | 419 | 4.2 | - | 145.55 | NORTHWEST OF KURIL ISLANDS |
| #-1308 | 10/13 | 8 | 36 | 47.4 | 2.364 | 126.752 | 83 | 4.8 | - | 91.40 | MOLUCCA SEA |
| #-1309 | 10/13 | 10 | 28 | 44.8 | -18.021 | -69.148 | 133 | 5.1 | - | 79.47 | LA PAZ, BOLMA |
| #-1310 | 10/13 | 14 | 45 | 53.2 | -22.847 | -176.926 | 120 | 4.9 | - | 84.54 | SOUTH OF THE FUJI ISLANDS |
| #-1311 | 10/13 | 16 | 12 | 54.9 | -31.390 | -71.540 | 31 | 5.1 | - | 67.73 | COQUIMBO, CHILE |
| #-1312 | 10/13 | 17 | 31 | 30.4 | -7.895 | 109.153 | 126 | 4.6 | - | 75.60 | JAVA, INDONESIA |
| #-1313 | 10/13 | 21 | 37 | 58.1 | 34.816 | 140.165 | 24 | 5.3 | - | 126.15 | NEAR E COAST HONSHU, JAPAN |
| #-1314 | 10/14 | 9 | 9 | 32.2 | -31.458 | -71.642 | 39 | 4.8 | - | 67.70 | OFFSHORE COQUIMBO, CHILE |
| #-1315 | 10/14 | 15 | 18 | 38.7 | -23.017 | -68.191 | 108 | 5.1 | - | 74.48 | ANTOFAGASTA, CHILE |
| #-1316 | 10/15 | 4 | 15 | 3.4 | -22.265 | -68.980 | 86 | 4.0 | - | 75.44 | ANTOFAGASTA, CHILE |
| #-1317 | 10/15 | 4 | 48 | 18.9 | -9.374 | -78.851 | 50 | 4.8 | - | 90.75 | NEAR THE COAST OF NORTHERN PERU |
| #-1318 | 10/15 | 8 | 51 | 36.0 | 3.026 | 93.271 | 27 | 4.4 | - | 80.81 | OFF WEST COAST OF N SUMATRA |
| #-1319 | 10/15 | 13 | 34 | 33.9 | -5.822 | 145.426 | 59 | 4.4 | - | 90.34 | E NEW GUINEA REG, P.N.G. |
| #-1320 | 10/15 | 17 | 7 | 48.4 | 19.820 | -156.027 | 29 | 6.3 | 6.6 | 129.94 | HAWAII REGION, HAWAII |
| #-1321 | 10/15 | 17 | 14 | 12.0 | 20.129 | -155.983 | 19 | 5.7 | - | 130.26 | HAWAII REGION, HAWAII |
| #-1322 | 10/15 | 19 | 44 | 41.7 | 3.127 | 128.148 | 131 | 4.9 | - | 92.61 | N OF HALMAHERA, INDONESIA |
| #-1323 | 10/16 | 1 | 33 | 34.0 | -30.303 | -71.472 | 47 | 5.3 | - | 68.72 | COQUIMBO, CHILE |
| #-1324 | 10/17 | 1 | 59 | 14.4 | -17.358 | 167.880 | 45 | 5.2 | - | 86.33 | VANUATU |
| #-1325 | 10/17 | 4 | 2 | 37.5 | -21.004 | -68.262 | 139 | 5.7 | - | 76.39 | POTOSI, BOLIVIA |
| #-1326 | 10/17 | 4 | 20 | 17.6 | -5.891 | 151.014 | 28 | 5.1 | - | 92.16 | NEW BRITAIN REG, P.N.G. |
| #-1327 | 10/17 | 4 | 30 | 50.8 | 45.226 | 150.022 | 47 | 5.2 | - | 138.87 | KURIL ISLANDS |
| #-1328 | 10/17 | 6 | 10 | 46.2 | -5.761 | 151.045 | 33 | 5.1 | - | 92.29 | NEW BRITAIN REG, P.N.G. |
| #-1329 | 10/17 | 7 | 59 | 19.2 | 10.413 | 91.834 | 44 | 5.0 | - | 87.47 | ANDAMAN ISL, INDIA REGION |
| #-1330 | 10/17 | 8 | 58 | 26.0 | -5.813 | 151.093 | 35 | 5.4 | - | 92.26 | NEW BRITAIN REG, P.N.G. |
| #-1331 | 10/17 | 9 | 51 | 40.9 | -6.280 | 150.700 | 107 | 4.3 | - | 91.69 | NEW BRITAIN REG, P.N.G. |
| #-1332 | 10/17 | 14 | 37 | 53.0 | 63.100 | -150.583 | 101 | 5.3 | - | 172.94 | CENTRAL ALASKA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|-------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--------------------------------------|
| | | UTC h | m | s | | | | Mb | Ms | | |
| #-1333 | 10/18 | 2 | 1 | 26.5 | 1.355 | 97.157 | 26 | 4.9 | - | 80.39 | NIAS REGION, INDONESIA |
| #-1334 | 10/18 | 3 | 25 | 3.3 | -21.538 | -66.593 | 202 | 4.6 | - | 75.34 | POTOSI, BOLIVIA |
| #-1335 | 10/18 | 10 | 45 | 32.8 | -15.058 | 167.255 | 115 | 5.5 | - | 88.37 | VANUATU |
| #-1336 | 10/18 | 12 | 10 | 1.0 | 1.770 | 127.519 | 122 | 4.9 | - | 91.12 | HALMAHERA, INDONESIA |
| #-1337 | 10/19 | 17 | 34 | 42.0 | -37.141 | -96.211 | 10 | 4.6 | - | 68.84 | SOUTHEAST OF EASTER ISLAND |
| #-1338 | 10/20 | 4 | 32 | 11.4 | -48.326 | 31.490 | 10 | 4.5 | - | 21.01 | SOUTH OF AFRICA |
| #-1339 | 10/20 | 5 | 39 | 12.3 | -2.595 | 140.351 | 49 | 4.9 | - | 91.61 | NR N CST PAPUA, IND. |
| #-1340 | 10/20 | 10 | 48 | 57.1 | -13.441 | -76.577 | 32 | 6.0 | - | 86.18 | NEAR THE COAST OF CENTRAL PERU |
| #-1341 | 10/20 | 14 | 13 | 13.0 | -22.906 | -176.903 | 135 | 5.0 | - | 84.48 | SOUTH OF THE FIJI ISLANDS |
| #-1342 | 10/20 | 15 | 26 | 20.7 | -4.714 | 68.633 | 10 | 4.8 | - | 67.23 | CHAGOS ARCHIPELAGO REGION |
| #-1343 | 10/20 | 20 | 20 | 40.5 | -9.779 | -74.834 | 120 | 5.3 | - | 89.09 | CENTRAL PERU |
| #-1344 | 10/21 | 5 | 23 | 19.4 | -27.690 | -177.127 | 18 | 4.9 | - | 79.77 | KERMADEC ISLANDS REGION |
| #-1345 | 10/21 | 21 | 20 | 7.6 | 3.641 | 125.895 | 111 | 4.8 | - | 92.28 | KEPULAUAN SANGIHE, INDONESIA |
| #-1346 | 10/22 | 8 | 55 | 16.9 | -45.739 | 96.034 | 10 | 5.7 | 6.0 | 36.42 | SOUTHEAST INDIAN RIDGE |
| #-1347 | 10/22 | 12 | 53 | 26.3 | 2.452 | 126.753 | 87 | 4.9 | - | 91.48 | MOLUCCA SEA |
| #-1348 | 10/22 | 23 | 29 | 9.6 | -25.897 | -70.691 | 13 | 5.1 | - | 72.59 | OFFSHORE ANTOFAGASTA, CHILE |
| #-1349 | 10/23 | 7 | 27 | 33.4 | 4.907 | 125.372 | 10 | 5.1 | 4.7 | 93.28 | KEPULAUAN SANGIHE, INDONESIA |
| #-1350 | 10/23 | 13 | 5 | 16.0 | -5.892 | 145.433 | 73 | 4.7 | - | 90.28 | E NEW GUINEA REG, P.N.G. |
| #-1351 | 10/23 | 13 | 19 | 54.1 | -7.736 | 127.775 | 131 | 4.4 | - | 82.34 | KEPULAUAN BARAT DAYA, IND. |
| #-1352 | 10/23 | 21 | 0 | 42.6 | -21.840 | -65.561 | 263 | 5.2 | - | 74.71 | POTOSI, BOLIVIA |
| #-1353 | 10/23 | 21 | 17 | 20.0 | 29.371 | 140.316 | 10 | 6.0 | - | 121.27 | IZU ISLANDS, JAPAN REGION |
| #-1354 | 10/24 | 4 | 45 | 40.1 | 4.981 | 125.507 | 28 | 5.3 | - | 93.40 | KEPULAUAN SANGIHE, INDONESIA |
| #-1355 | 10/24 | 12 | 5 | 28.6 | -1.226 | 127.330 | 18 | 5.3 | - | 88.25 | KEPULAUAN OBI, INDONESIA |
| #-1356 | 10/24 | 20 | 4 | 40.4 | -7.519 | 127.648 | 139 | 5.0 | - | 82.50 | KEPULAUAN BARAT DAYA, IND. |
| #-1357 | 10/25 | 5 | 6 | 3.5 | 1.148 | 97.398 | 22 | 5.2 | - | 80.27 | NIAS REGION, INDONESIA |
| #-1358 | 10/25 | 5 | 19 | 42.9 | 1.074 | 97.326 | 23 | 4.8 | - | 80.18 | NIAS REGION, INDONESIA |
| #-1359 | 10/25 | 13 | 55 | 2.7 | -55.603 | -25.886 | 10 | 4.4 | - | 31.10 | SOUTH SANDWICH ISL REGION |
| #-1360 | 10/25 | 23 | 27 | 25.8 | -13.321 | -76.697 | 29 | 4.9 | - | 86.34 | NR CST CENTRAL PERU |
| #-1361 | 10/26 | 9 | 34 | 39.3 | -15.878 | -172.821 | 72 | 5.1 | - | 92.14 | SAMOA ISLANDS REGION |
| #-1362 | 10/26 | 14 | 28 | 37.6 | 38.761 | 15.357 | 217 | 5.8 | - | 109.19 | SICILY, ITALY |
| #-1363 | 10/26 | 14 | 43 | 33.2 | -55.532 | -26.593 | 10 | 4.8 | - | 31.41 | SOUTH SANDWICH ISL REGION |
| #-1364 | 10/26 | 15 | 8 | 23.2 | -2.091 | 100.175 | 45 | 5.1 | - | 78.07 | KEPULAUAN MENTAWAI REGION, INDONESIA |
| #-1365 | 10/27 | 4 | 19 | 19.2 | -1.217 | 127.261 | 35 | 5.1 | - | 88.24 | KEPULAUAN OBI, INDONESIA |
| #-1366 | 10/28 | 3 | 8 | 27.1 | 14.046 | -91.671 | 86 | 5.0 | - | 116.94 | OFFSHORE GUATEMALA |
| #-1367 | 10/28 | 7 | 13 | 15.7 | 3.490 | 122.839 | 531 | 4.6 | - | 91.05 | CELEBES SEA |
| #-1368 | 10/28 | 10 | 33 | 26.3 | -17.887 | -178.744 | 685 | 4.4 | - | 89.01 | FIJI REGION |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|------------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1369 | 10/28 | 13 | 44 | 29.5 | -49.737 | -116.638 | 10 | 4.6 | - | 59.90 | SOUTHERN EAST PACIFIC RISE |
| #-1370 | 10/28 | 18 | 30 | 23.6 | -21.071 | -71.786 | 35 | 4.5 | - | 77.47 | OFF COAST ANTOFAGASTA, CHILE |
| #-1371 | 10/29 | 6 | 55 | 53.5 | -18.250 | -177.790 | 474 | 4.3 | - | 88.86 | FUJI REGION |
| #-1372 | 10/29 | 7 | 31 | 14.8 | -19.760 | -177.800 | 424 | 4.3 | - | 87.38 | FUJI REGION |
| #-1373 | 10/29 | 8 | 31 | 53.6 | 29.395 | 140.209 | 79 | 5.4 | - | 121.26 | IZU ISLANDS, JAPAN REGION |
| #-1374 | 10/29 | 10 | 4 | 16.6 | 3.959 | 126.426 | 16 | 5.3 | - | 92.77 | KEPULAUAN TALAUD, INDONESIA |
| #-1375 | 10/30 | 4 | 15 | 54.1 | -15.149 | -70.320 | 137 | 5.3 | - | 82.56 | SOUTHERN PERU |
| #-1376 | 10/30 | 4 | 29 | 18.3 | -6.486 | 154.946 | 35 | 5.2 | - | 92.88 | BOUGAINVILLE REG, P.N.G. |
| #-1377 | 10/30 | 7 | 38 | 45.0 | 2.330 | 126.831 | 71 | 5.3 | - | 91.40 | MOLUCCA SEA |
| #-1378 | 10/30 | 8 | 27 | 44.8 | 2.361 | 126.836 | 62 | 5.4 | - | 91.43 | MOLUCCA SEA |
| #-1379 | 10/30 | 11 | 16 | 2.6 | 2.310 | 126.839 | 71 | 5.3 | - | 91.38 | MOLUCCA SEA |
| #-1380 | 10/31 | 9 | 55 | 28.8 | -1.402 | -77.794 | 181 | 5.3 | - | 97.97 | ECUADOR |
| #-1381 | 11/1 | 6 | 11 | 3.4 | -64.813 | 178.064 | 24 | 4.8 | - | 43.14 | BALLENY ISLANDS REGION |
| #-1382 | 11/1 | 8 | 57 | 45.9 | -28.899 | -177.176 | 46 | 5.0 | - | 78.58 | KERMADEC ISLANDS REGION |
| #-1383 | 11/2 | 5 | 17 | 3.3 | -5.336 | 153.675 | 47 | 5.4 | - | 93.56 | NEW IRELAND REG, P.N.G. |
| #-1384 | 11/2 | 9 | 25 | 10.8 | 0.794 | 97.348 | 30 | 4.7 | - | 79.92 | NIAS REGION, INDONESIA |
| #-1385 | 11/4 | 6 | 19 | 1.5 | 5.937 | 126.124 | 74 | 5.3 | - | 94.51 | MINDANAO, PHILIPPINES |
| #-1386 | 11/4 | 13 | 29 | 58.5 | -20.036 | -178.254 | 528 | 4.0 | - | 87.02 | FUJI REGION |
| #-1387 | 11/4 | 15 | 45 | 22.1 | -5.692 | 130.758 | 111 | 4.8 | - | 85.31 | BANDASEA |
| #-1388 | 11/4 | 18 | 54 | 34.0 | -19.155 | -68.724 | 119 | 4.8 | - | 78.27 | ORURO, BOLIVIA |
| #-1389 | 11/5 | 5 | 24 | 40.2 | -8.737 | 111.439 | 62 | 4.5 | - | 75.6 | JAVA, INDONESIA |
| #-1390 | 11/5 | 6 | 37 | 47.3 | -50.165 | 114.265 | 10 | 4.7 | - | 39.16 | W INDIAN-ANTARCTIC RIDGE |
| #-1391 | 11/5 | 16 | 6 | 27.8 | -3.789 | 129.532 | 48 | 4.6 | - | 86.65 | SERAM, INDONESIA |
| #-1392 | 11/5 | 17 | 15 | 0.3 | 39.734 | 13.701 | 429 | 4.8 | - | 110.35 | TYRRHENIAN SEA |
| #-1393 | 11/6 | 12 | 58 | 37.4 | -7.813 | 110.935 | 30 | 4.4 | - | 76.29 | JAVA, INDONESIA |
| #-1394 | 11/6 | 14 | 51 | 38.4 | -26.581 | -70.433 | 64 | 5.4 | - | 71.87 | ATACAMA, CHILE |
| #-1395 | 11/6 | 15 | 48 | 43.4 | -12.271 | 166.915 | 277 | 4.5 | - | 90.95 | SANTA CRUZ ISLANDS |
| #-1396 | 11/7 | 6 | 6 | 53.8 | 2.258 | -32.197 | 10 | 4.8 | - | 85.5 | CENTRAL MID-ATLANTIC RIDGE |
| #-1397 | 11/7 | 6 | 23 | 44.1 | -23.438 | -179.966 | 569 | 5.1 | - | 83.35 | SOUTH OF THE FUJI ISLANDS |
| #-1398 | 11/7 | 8 | 33 | 59.6 | -27.523 | -13.373 | 10 | 5.0 | - | 51.29 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1399 | 11/7 | 9 | 16 | 3.4 | -5.873 | 151.131 | 66 | 5.2 | - | 92.22 | NEW BRITAIN REG, P.N.G. |
| #-1400 | 11/7 | 13 | 25 | 36.9 | -21.727 | -68.253 | 125 | 5.6 | - | 75.71 | ANTOFAGASTA, CHILE |
| #-1401 | 11/7 | 14 | 41 | 53.6 | 2.132 | 128.554 | 68 | 4.9 | - | 91.83 | HALMAHERA, INDONESIA |
| #-1402 | 11/7 | 16 | 16 | 5.2 | -55.840 | -27.137 | 44 | 4.9 | - | 31.36 | SOUTH SANDWICH ISL REGION |
| #-1403 | 11/7 | 16 | 41 | 7.3 | -23.436 | -179.426 | 409 | 4.7 | - | 83.46 | SOUTH OF THE FUJI ISLANDS |
| #-1404 | 11/7 | 17 | 38 | 33.5 | -6.441 | 151.141 | 10 | 6.2 | 6.3 | 91.68 | NEW BRITAIN REGION, P.N.G. |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-----------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1405 | 11/7 | 18 | 17 | 33.6 | -6.399 | 151.250 | 28 | 5.1 | - | 91.76 | NEW BRITAIN REG, P.N.G. |
| #-1406 | 11/7 | 18 | 34 | 8.8 | -6.474 | 151.320 | 10 | 5.0 | - | 91.71 | NEW BRITAIN REG, P.N.G. |
| #-1407 | 11/8 | 2 | 58 | 23.0 | -21.214 | -178.170 | 497 | 4.2 | - | 85.88 | FIJI REGION |
| #-1408 | 11/8 | 6 | 37 | 40.0 | -21.376 | -178.984 | 554 | 4.8 | - | 85.56 | FIJI REGION |
| #-1409 | 11/8 | 7 | 27 | 41.6 | 3.845 | 122.445 | 593 | 4.9 | - | 91.25 | CELEBES SEA |
| #-1410 | 11/8 | 8 | 22 | 31.1 | 47.301 | 153.942 | 31 | 5.2 | - | 142.05 | KURIL ISLANDS |
| #-1411 | 11/8 | 14 | 56 | 53.4 | 47.282 | 153.897 | 17 | 5.2 | - | 142.02 | KURIL ISLANDS |
| #-1412 | 11/8 | 15 | 57 | 28.1 | -56.991 | -23.683 | 15 | 5.3 | 4.6 | 29.25 | SOUTH SANDWICH ISL REGION |
| #-1413 | 11/9 | 10 | 55 | 6.7 | -6.460 | 151.210 | 46 | 4.6 | - | 91.69 | NEW BRITAIN REG, P.N.G. |
| #-1414 | 11/9 | 15 | 43 | 54.0 | 5.892 | 126.101 | 118 | 5.0 | - | 94.46 | MINDANAO, PHILIPPINES |
| #-1415 | 11/9 | 15 | 55 | 48.4 | 0.925 | 97.211 | 25 | 5.1 | - | 80 | NIAS REGION, INDONESIA |
| #-1416 | 11/10 | 5 | 4 | 57.4 | -12.973 | 166.905 | 80 | 4.6 | - | 90.28 | SANTA CRUZ ISLANDS |
| #-1417 | 11/10 | 5 | 36 | 8.1 | -24.148 | 179.917 | 471 | 4.7 | - | 82.63 | SOUTH OF THE FIJI ISLANDS |
| #-1418 | 11/10 | 17 | 39 | 58.9 | -6.451 | 151.394 | 46 | 4.8 | - | 91.76 | NEW BRITAIN REG, P.N.G. |
| #-1419 | 11/11 | 0 | 25 | 34.5 | -20.268 | -177.861 | 471 | 5.0 | - | 86.87 | FIJI REGION |
| #-1420 | 11/11 | 2 | 29 | 30.5 | -20.917 | -178.678 | 617 | 5.1 | - | 86.07 | FIJI REGION |
| #-1421 | 11/11 | 4 | 13 | 50.4 | -18.019 | -178.400 | 570 | 4.4 | - | 88.96 | FIJI REGION |
| #-1422 | 11/11 | 7 | 23 | 1.8 | -23.889 | -66.698 | 189 | 4.5 | - | 73.18 | JUJUY, ARGENTINA |
| #-1423 | 11/11 | 15 | 10 | 30.9 | -6.030 | 148.680 | 51 | 5.7 | - | 91.25 | NEW BRITAIN REGION, P.N.G. |
| #-1424 | 11/11 | 16 | 11 | 39.8 | -6.552 | 151.088 | 56 | 5.0 | - | 91.56 | NEW BRITAIN REG, P.N.G. |
| #-1425 | 11/11 | 17 | 16 | 13.3 | -23.412 | -175.554 | 10 | 5.1 | - | 84.25 | TONGA REGION |
| #-1426 | 11/11 | 18 | 54 | 19.6 | -23.113 | -175.389 | 10 | 4.7 | - | 84.57 | TONGA REGION |
| #-1427 | 11/11 | 22 | 27 | 53.3 | -0.013 | 123.287 | 188 | 4.6 | - | 87.94 | SULAWESI, INDONESIA |
| #-1428 | 11/12 | 5 | 17 | 28.1 | -18.778 | 169.090 | 215 | 4.7 | - | 85.29 | VANUATU |
| #-1429 | 11/12 | 10 | 35 | 12.1 | -6.475 | 151.396 | 40 | 5.2 | - | 91.74 | NEW BRITAIN REG, P.N.G. |
| #-1430 | 11/12 | 14 | 2 | 29.5 | 3.368 | 126.703 | 50 | 5.0 | - | 92.32 | KEPULAUAN TALAUD, INDONESIA |
| #-1431 | 11/12 | 18 | 21 | 25.9 | -6.191 | 151.014 | 12 | 6.0 | 6.0 | 91.88 | NEW BRITAIN REGION, P.N.G. |
| #-1432 | 11/13 | 4 | 6 | 53.7 | -5.182 | 151.467 | 124 | 5.3 | - | 92.98 | NEW BRITAIN REG, P.N.G. |
| #-1433 | 11/13 | 6 | 23 | 29.3 | -7.600 | 127.210 | 122 | 4.5 | - | 82.26 | KEPULAUAN BARAT DAYA, IND. |
| #-1434 | 11/13 | 8 | 53 | 58.0 | -12.521 | -14.806 | 10 | 5.2 | 4.7 | 65.87 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1435 | 11/13 | 11 | 56 | 39.4 | -17.803 | -178.458 | 594 | 4.7 | - | 89.16 | FIJI REGION |
| #-1436 | 11/13 | 13 | 34 | 34.9 | -3.126 | 129.161 | 36 | 4.7 | - | 87.14 | SERAM, INDONESIA |
| #-1437 | 11/13 | 14 | 16 | 23.2 | 5.284 | 126.246 | 86 | 4.9 | - | 93.94 | MINDANAO, PHILIPPINES |
| #-1438 | 11/13 | 14 | 31 | 53.9 | -15.038 | 67.058 | 10 | 4.8 | - | 56.8 | MID-INDIAN RIDGE |
| #-1439 | 11/13 | 16 | 12 | 28.8 | -6.384 | 151.227 | 11 | 6.0 | 5.9 | 91.77 | NEW BRITAIN REGION, P.N.G. |
| #-1440 | 11/13 | 16 | 36 | 47.5 | -6.478 | 151.288 | 53 | 4.9 | - | 91.7 | NEW BRITAIN REG, P.N.G. |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|----------------------------------|
| | | UTC h m s | h | m | | | | s | Mb | | |
| #-1441 | 11/14 | 6 | 40 | 31.6 | -5.467 | 150.405 | 122 | 4.9 | - | 92.36 | NEW BRITAIN REG, P.N.G. |
| #-1442 | 11/14 | 10 | 48 | 26.7 | 6.542 | 123.898 | 49 | 5.3 | - | 94.28 | MORO GULF, MINDANAO, PHILIPPINES |
| #-1443 | 11/14 | 14 | 21 | 1.9 | -6.395 | 127.999 | 352 | 5.6 | - | 83.67 | BANDA SEA |
| #-1444 | 11/14 | 19 | 58 | 10.4 | -37.460 | 178.900 | 23 | 5.0 | - | 69.49 | OFF E CST N ISL, N.Z. |
| #-1445 | 11/15 | 3 | 52 | 27.7 | 4.902 | 127.414 | 80 | 5.5 | - | 94.01 | KEPULAUAN TALAUD, INDONESIA |
| #-1446 | 11/15 | 10 | 44 | 16.8 | -25.115 | -112.216 | 10 | 5.1 | - | 83.57 | EASTER ISLAND REGION |
| #-1447 | 11/15 | 11 | 14 | 16.7 | 46.607 | 153.230 | 30 | 6.6 | 7.8 | 141.21 | KURIL ISLANDS |
| #-1448 | 11/15 | 11 | 34 | 58.3 | 46.685 | 155.295 | 10 | 6.5 | - | 142.01 | EAST OF THE KURIL ISLANDS |
| #-1449 | 11/15 | 11 | 40 | 55.2 | 46.505 | 154.745 | 10 | 6.4 | - | 141.66 | EAST OF THE KURIL ISLANDS |
| #-1450 | 11/15 | 11 | 52 | 58.0 | 47.726 | 154.306 | 10 | 5.0 | - | 142.54 | KURIL ISLANDS |
| #-1451 | 11/15 | 12 | 9 | 17.7 | 47.366 | 155.359 | 10 | 5.3 | - | 142.61 | EAST OF THE KURIL ISLANDS |
| #-1452 | 11/15 | 12 | 16 | 44.3 | 46.225 | 154.665 | 10 | 5.9 | - | 141.39 | EAST OF THE KURIL ISLANDS |
| #-1453 | 11/15 | 12 | 26 | 15.8 | 47.392 | 153.921 | 10 | 5.7 | - | 142.12 | KURIL ISLANDS |
| #-1454 | 11/15 | 12 | 28 | 21.6 | 47.069 | 155.555 | 10 | 5.5 | - | 142.43 | EAST OF THE KURIL ISLANDS |
| #-1455 | 11/15 | 13 | 38 | 23.7 | 47.098 | 155.150 | 10 | 5.3 | - | 142.31 | EAST OF THE KURIL ISLANDS |
| #-1456 | 11/15 | 15 | 11 | 57.1 | 46.285 | 154.165 | 10 | 5.3 | - | 141.27 | EAST OF THE KURIL ISLANDS |
| #-1457 | 11/15 | 15 | 19 | 32.9 | 46.143 | 154.425 | 10 | 5.4 | - | 141.24 | EAST OF THE KURIL ISLANDS |
| #-1458 | 11/15 | 16 | 4 | 17.9 | 48.100 | 155.118 | 10 | 5.3 | - | 143.15 | KURIL ISLANDS |
| #-1459 | 11/15 | 19 | 25 | 24.3 | 47.056 | 154.938 | 0 | 5.6 | - | 142.2 | KURIL ISLANDS |
| #-1460 | 11/15 | 21 | 35 | 9.9 | 47.701 | 154.518 | 10 | 5.6 | - | 142.6 | KURIL ISLANDS |
| #-1461 | 11/16 | 0 | 22 | 59.5 | 47.240 | 153.468 | 29 | 5.3 | - | 141.83 | KURIL ISLANDS |
| #-1462 | 11/16 | 1 | 18 | 32.3 | 47.458 | 152.997 | 10 | 5.0 | - | 141.85 | KURIL ISLANDS |
| #-1463 | 11/16 | 6 | 20 | 20.8 | 46.349 | 154.512 | 9 | 6.1 | - | 141.44 | EAST OF THE KURIL ISLANDS |
| #-1464 | 11/16 | 6 | 32 | 5.7 | 46.279 | 154.459 | 10 | 5.3 | - | 141.37 | EAST OF THE KURIL ISLANDS |
| #-1465 | 11/16 | 8 | 37 | 39.1 | 46.780 | 154.854 | 10 | 5.2 | - | 141.93 | EAST OF THE KURIL ISLANDS |
| #-1466 | 11/16 | 9 | 36 | 27.2 | 22.683 | 63.316 | 10 | 5.3 | - | 93.37 | OWEN FRACTURE ZONE REGION |
| #-1467 | 11/16 | 11 | 20 | 43.4 | -52.096 | 139.518 | 10 | 5.2 | - | 45.85 | WEST OF MACQUARIE ISLAND |
| #-1468 | 11/16 | 12 | 40 | 38.0 | -15.135 | -174.839 | 211 | 4.7 | - | 92.49 | TONGA |
| #-1469 | 11/16 | 15 | 23 | 6.7 | 47.350 | 155.526 | 10 | 5.0 | - | 142.66 | EAST OF THE KURIL ISLANDS |
| #-1470 | 11/16 | 23 | 17 | 34.3 | 30.169 | 138.558 | 423 | 5.0 | - | 121.37 | IZU ISLANDS, JAPAN REGION |
| #-1471 | 11/17 | 2 | 3 | 10.4 | -20.666 | -178.868 | 615 | 4.6 | - | 86.28 | FIJI REGION |
| #-1472 | 11/17 | 4 | 9 | 56.3 | 47.055 | 155.470 | 23 | 5.3 | - | 142.39 | EAST OF THE KURIL ISLANDS |
| #-1473 | 11/17 | 6 | 33 | 49.9 | 47.140 | 155.543 | 10 | 5.4 | 4.9 | 142.49 | EAST OF THE KURIL ISLANDS |
| #-1474 | 11/17 | 8 | 32 | 48.1 | 48.486 | 155.428 | 10 | 5.0 | - | 143.59 | KURIL ISLANDS |
| #-1475 | 11/17 | 9 | 25 | 21.4 | -4.586 | 138.204 | 15 | 5.0 | - | 88.99 | PAPUA, INDONESIA |
| #-1476 | 11/17 | 9 | 58 | 11.4 | 46.848 | 154.956 | 10 | 5.4 | - | 142.03 | EAST OF THE KURIL ISLANDS |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1477 | 11/17 | 12 | 31 | 36.1 | 33.177 | 137.392 | 359 | 5.2 | - | 123.68 | NEAR S COAST HONSHU, JAPAN |
| #-1478 | 11/17 | 14 | 38 | 4.3 | -41.060 | 174.330 | 72 | 4.7 | - | 65.09 | COOK STRAIT, NEW ZEALAND |
| #-1479 | 11/17 | 18 | 3 | 14.2 | 28.568 | 129.912 | 35 | 5.9 | - | 116.84 | RYUKYU ISLANDS, JAPAN |
| #-1480 | 11/18 | 1 | 22 | 32.3 | -19.871 | -174.378 | 71 | 5.0 | - | 87.93 | TONGA |
| #-1481 | 11/18 | 3 | 2 | 44.8 | -6.608 | 151.099 | 58 | 4.8 | - | 91.51 | NEW BRITAIN REG, P.N.G. |
| #-1482 | 11/18 | 8 | 50 | 55.0 | 48.224 | 154.802 | 10 | 5.0 | - | 143.14 | KURIL ISLANDS |
| #-1483 | 11/18 | 13 | 55 | 20.9 | 4.735 | 94.781 | 32 | 5.7 | 5.5 | 82.89 | OFF THE WEST COAST OF NORTHERN SUMATRA |
| #-1484 | 11/18 | 13 | 57 | 53.3 | 4.731 | 94.763 | 29 | 5.8 | - | 82.88 | OFF THE WEST COAST OF NORTHERN SUMATRA |
| #-1485 | 11/18 | 21 | 45 | 12.0 | -23.469 | -175.505 | 43 | 4.9 | - | 84.2 | TONGA REGION |
| #-1486 | 11/19 | 2 | 26 | 54.6 | 3.502 | 126.680 | 82 | 5.0 | - | 92.44 | KEPULAUAN TALAUD, INDONESIA |
| #-1487 | 11/19 | 2 | 29 | 2.6 | 3.498 | 126.685 | 101 | 4.6 | - | 92.43 | KEPULAUAN TALAUD, INDONESIA |
| #-1488 | 11/19 | 9 | 19 | 44.8 | -6.333 | 151.477 | 50 | 5.2 | - | 91.9 | NEW BRITAIN REG, P.N.G. |
| #-1489 | 11/19 | 9 | 34 | 24.4 | -6.256 | 151.237 | 78 | 4.7 | - | 91.89 | NEW BRITAIN REG, P.N.G. |
| #-1490 | 11/19 | 10 | 28 | 10.1 | 0.050 | 123.589 | 156 | 4.8 | - | 88.11 | MINAHASA, SULAWESI, IND. |
| #-1491 | 11/19 | 15 | 16 | 52.2 | 46.937 | 154.880 | 10 | 5.6 | 4.7 | 142.08 | EAST OF THE KURIL ISLANDS |
| #-1492 | 11/19 | 17 | 35 | 42.6 | -18.735 | 175.921 | 35 | 4.9 | - | 87.01 | FIJI REGION |
| #-1493 | 11/20 | 5 | 27 | 29.6 | 47.633 | 154.661 | 10 | 5.1 | - | 142.59 | KURIL ISLANDS |
| #-1494 | 11/20 | 10 | 15 | 41.1 | -27.803 | -67.147 | 129 | 4.9 | - | 69.68 | CATAMARCA, ARGENTINA |
| #-1495 | 11/20 | 14 | 38 | 27.7 | -17.586 | -70.050 | 39 | 5.8 | 4.9 | 80.18 | SOUTHERN PERU |
| #-1496 | 11/20 | 19 | 33 | 56.9 | -40.071 | -74.977 | 27 | 5.3 | - | 60.69 | OFF COAST LOS LAGOS, CHILE |
| #-1497 | 11/20 | 20 | 16 | 6.7 | -21.000 | 32.845 | 10 | 5.1 | - | 48.16 | MOZAMBIQUE |
| #-1498 | 11/20 | 23 | 5 | 55.0 | 46.691 | 155.013 | 10 | 5.0 | - | 141.92 | EAST OF THE KURIL ISLANDS |
| #-1499 | 11/21 | 8 | 32 | 32.8 | -6.300 | 154.729 | 93 | 5.6 | - | 92.98 | BOUGAINVILLE REGION, P.N.G. |
| #-1500 | 11/21 | 9 | 9 | 50.8 | 46.422 | 154.568 | 10 | 5.3 | - | 141.53 | EAST OF THE KURIL ISLANDS |
| #-1501 | 11/21 | 23 | 30 | 6.8 | 47.145 | 155.525 | 10 | 5.2 | - | 142.49 | EAST OF THE KURIL ISLANDS |
| #-1502 | 11/22 | 3 | 21 | 28.2 | -5.972 | 151.099 | 35 | 4.6 | - | 92.11 | NEW BRITAIN REG, P.N.G. |
| #-1503 | 11/22 | 5 | 20 | 47.0 | -37.062 | -17.347 | 10 | 5.0 | - | 43.86 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1504 | 11/22 | 11 | 15 | 1.0 | 44.195 | 146.800 | 10 | 5.8 | 4.8 | 136.83 | KURIL ISLANDS |
| #-1505 | 11/23 | 11 | 4 | 44.7 | 44.239 | 83.485 | 22 | 5.4 | - | 117.92 | NORTHERN XINJIANG, CHINA |
| #-1506 | 11/23 | 15 | 9 | 54.1 | 47.099 | 155.473 | 10 | 5.0 | - | 142.43 | EAST OF THE KURIL ISLANDS |
| #-1507 | 11/24 | 6 | 33 | 26.6 | -3.717 | 119.233 | 32 | 5.2 | - | 83.04 | SULAWESI, INDONESIA |
| #-1508 | 11/24 | 14 | 57 | 22.8 | 51.448 | 156.933 | 144 | 5.0 | - | 146.58 | KAMCHATKA PENINSULA, RUSSIA |
| #-1509 | 11/24 | 15 | 34 | 9.7 | 46.804 | 153.713 | 9 | 5.7 | - | 141.55 | KURIL ISLANDS |
| #-1510 | 11/24 | 17 | 11 | 8.5 | -20.532 | -176.183 | 10 | 5.1 | - | 86.94 | FIJI REGION |
| #-1511 | 11/24 | 19 | 15 | 34.6 | -31.520 | -179.112 | 148 | 4.8 | - | 75.65 | KERMADEC ISLANDS REGION |
| #-1512 | 11/24 | 21 | 2 | 20.4 | 46.685 | 152.438 | 10 | 5.4 | - | 140.99 | KURIL ISLANDS |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|-----------------------------|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1513 | 11/25 | 9 | 5 | 9.9 | -7.012 | 144.462 | 35 | 5.1 | - | 88.9 | NR S CST NEW GUINEA, P.N.G. |
| #-1514 | 11/25 | 15 | 15 | 14.5 | -23.354 | -175.534 | 10 | 5.2 | - | 84.31 | TONGA REGION |
| #-1515 | 11/25 | 16 | 1 | 21.8 | 4.724 | 93.542 | 37 | 4.8 | - | 82.52 | OFF WEST COAST OF N SUMATRA |
| #-1516 | 11/25 | 18 | 50 | 26.2 | 3.009 | 97.040 | 67 | 5.0 | - | 81.93 | NORTHERN SUMATRA, INDONESIA |
| #-1517 | 11/26 | 17 | 36 | 13.7 | -33.933 | -178.853 | 35 | 5.3 | - | 73.35 | SOUTH OF KERMADEC ISLANDS |
| #-1518 | 11/26 | 23 | 25 | 10.2 | -22.745 | -179.588 | 509 | 5.0 | - | 84.1 | SOUTH OF THE FIJI ISLANDS |
| #-1519 | 11/27 | 9 | 49 | 41.0 | -21.978 | -68.367 | 122 | 4.3 | - | 75.51 | ANTOFAGASTA, CHILE |
| #-1520 | 11/27 | 10 | 36 | 10.7 | -4.273 | 152.702 | 70 | 5.1 | - | 94.24 | NEW BRITAIN REG, P.N.G. |
| #-1521 | 11/27 | 12 | 1 | 52.4 | -20.332 | -177.802 | 489 | 4.6 | - | 86.82 | FIJI REGION |
| #-1522 | 11/27 | 17 | 31 | 47.3 | -16.079 | -71.774 | 112 | 5.5 | - | 82.16 | SOUTHERN PERU |
| #-1523 | 11/28 | 7 | 3 | 50.5 | -21.925 | -176.645 | 159 | 4.7 | - | 85.49 | FIJI REGION |
| #-1524 | 11/28 | 8 | 1 | 51.7 | 46.715 | 155.498 | 10 | 5.6 | - | 142.11 | EAST OF THE KURIL ISLANDS |
| #-1525 | 11/28 | 18 | 54 | 49.2 | -38.290 | 177.010 | 85 | 4.9 | - | 68.31 | NORTH ISLAND OF NEW ZEALAND |
| #-1526 | 11/29 | 0 | 48 | 3.4 | 5.925 | 124.288 | 46 | 5.1 | - | 93.84 | MINDANAO, PHILIPPINES |
| #-1527 | 11/29 | 8 | 41 | 27.7 | -18.520 | 167.980 | 31 | 5.0 | - | 85.24 | VANUATU |
| #-1528 | 11/29 | 15 | 38 | 43.9 | 53.665 | -35.307 | 10 | 5.7 | 5.4 | 134.01 | REYKJANES RIDGE |
| #-1529 | 11/29 | 18 | 8 | 30.1 | -6.333 | 154.805 | 74 | 5.2 | - | 92.98 | BOUGAINVILLE REG, P.N.G. |
| #-1530 | 11/29 | 23 | 8 | 15.7 | -25.230 | 179.580 | 495 | 5.2 | - | 81.51 | SOUTH OF THE FIJI ISLANDS |
| #-1531 | 11/30 | 1 | 39 | 50.8 | 47.655 | 155.341 | 45 | 5.1 | - | 142.85 | EAST OF THE KURIL ISLANDS |
| #-1532 | 11/30 | 11 | 33 | 17.2 | -21.323 | -174.711 | 17 | 5.7 | - | 86.45 | TONGA |
| #-1533 | 11/30 | 21 | 20 | 11.2 | -53.992 | -133.872 | 10 | 5.5 | - | 56.89 | PACIFIC-ANTARCTIC RIDGE |
| #-1534 | 12/1 | 3 | 58 | 21.8 | 3.427 | 99.069 | 205 | 6.1 | - | 82.95 | NORTHERN SUMATRA, INDONESIA |
| #-1535 | 12/1 | 9 | 23 | 39.8 | -15.174 | -173.997 | 103 | 4.9 | - | 92.61 | TONGA |
| #-1536 | 12/1 | 13 | 12 | 19.3 | 36.563 | 70.654 | 206 | 5.0 | - | 108.13 | HINDU KUSH REG, AFGHANISTAN |
| #-1537 | 12/1 | 14 | 1 | 48.1 | -8.202 | 118.818 | 48 | 5.9 | - | 78.7 | SUMBAWA REGION, INDONESIA |
| #-1538 | 12/2 | 4 | 41 | 36.9 | -28.910 | -178.020 | 100 | 4.5 | - | 78.4 | KERMADEC ISLANDS REGION |
| #-1539 | 12/2 | 6 | 27 | 47.9 | -27.704 | -113.230 | 10 | 4.8 | - | 81.18 | EASTER ISLAND REGION |
| #-1540 | 12/2 | 9 | 33 | 1.8 | -26.944 | -70.848 | 21 | 4.8 | - | 71.66 | OFFSHORE ATACAMA, CHILE |
| #-1541 | 12/2 | 9 | 52 | 13.4 | -17.705 | -174.348 | 136 | 5.3 | - | 90.06 | TONGA |
| #-1542 | 12/2 | 16 | 3 | 9.5 | -5.172 | 152.155 | 52 | 4.6 | - | 93.21 | NEW BRITAIN REG, P.N.G. |
| #-1543 | 12/3 | 2 | 7 | 54.7 | -8.201 | 118.872 | 35 | 4.3 | - | 78.72 | SUMBAWA REGION, INDONESIA |
| #-1544 | 12/3 | 4 | 52 | 34.2 | 52.577 | 160.323 | 43 | 5.0 | - | 148.72 | OFF E CST KAMCHATKA, RUSSIA |
| #-1545 | 12/3 | 7 | 53 | 38.1 | -23.682 | -179.794 | 436 | 4.5 | - | 83.15 | SOUTH OF THE FIJI ISLANDS |
| #-1546 | 12/3 | 12 | 44 | 32.8 | -6.410 | 102.790 | 30 | 4.8 | - | 74.84 | SW OF SUMATRA, INDONESIA |
| #-1547 | 12/3 | 19 | 27 | 10.3 | -44.817 | -15.278 | 10 | 4.8 | - | 36.25 | SOUTHERN MID-ATLANTIC RIDGE |
| #-1548 | 12/4 | 6 | 21 | 0.9 | 0.104 | 126.822 | 72 | 4.5 | - | 89.31 | MOLUCCA SEA |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic | | Coordinates | | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|-------------------|--------------------|------------|----------|-------------|-----|---------------|-----------|-----------------------------|---------------------------------|--------|
| | | UTC h m s | Latitude (deg) | Longitude (deg) | Mb | Ms | | | | | | | |
| #-1549 | 12/4 | 9 | 14 | 4.6 | 55.769 | 110.075 | 10 | 5.1 | - | 134.95 | LAKE BAYKAL REGION, RUSSIA | | |
| #-1550 | 12/5 | 6 | 47 | 22.8 | -58.927 | -60.990 | 10 | 5.1 | - | 39.86 | DRAKE PASSAGE | | |
| #-1551 | 12/5 | 8 | 38 | 34.2 | -18.210 | 172.432 | 103 | 5.1 | - | 86.68 | VANUATU REGION | | |
| #-1552 | 12/6 | 4 | 52 | 5.0 | -7.043 | 144.486 | 5 | 5.3 | - | 88.88 | NR S CST NEW | | |
| #-1553 | 12/6 | 9 | 33 | 55.5 | -7.292 | 129.434 | 110 | 4.5 | - | 83.35 | KEPULAUAN BABAR, INDONESIA | | |
| #-1554 | 12/6 | 12 | 6 | 39.6 | 4.794 | 96.216 | 30 | 5.1 | - | 83.38 | NORTHERN SUMATRA, INDONESIA | | |
| #-1555 | 12/6 | 20 | 39 | 49.2 | -53.903 | 158.891 | 10 | 5.5 | - | 49.52 | MACQUARIE ISLAND REGION | | |
| #-1556 | 12/7 | 11 | 1 | 36.1 | -6.139 | 154.175 | 85 | 5.1 | - | 92.96 | BOUGAINVILLE REG, P.N.G. | | |
| #-1557 | 12/8 | 19 | 24 | 56.6 | -20.253 | -174.146 | 10 | 5.2 | - | 87.6 | TONGA | | |
| #-1558 | 12/9 | 7 | 16 | 9.6 | -26.123 | -176.892 | 34 | 4.8 | - | 81.34 | SOUTH OF THE FIJI ISLANDS | | |
| #-1559 | 12/9 | 9 | 24 | 46.9 | 5.099 | 94.763 | 30 | 5.4 | - | 83.23 | NORTHERN SUMATRA, INDONESIA | | |
| #-1560 | 12/9 | 9 | 55 | 23.3 | -60.993 | -36.009 | 10 | 4.9 | - | 30.52 | SCOTIA SEA | | |
| #-1561 | 12/9 | 17 | 11 | 52.5 | 52.680 | 160.453 | 16 | 5.2 | - | 148.85 | OFF E CST KAMCHATKA, RUSSIA | | |
| #-1562 | 12/10 | 0 | 43 | 4.5 | -18.611 | -178.132 | 576 | 4.7 | - | 88.43 | FIJI REGION | | |
| #-1563 | 12/10 | 5 | 24 | 1.1 | -31.612 | -71.658 | 54 | 4.6 | - | 67.65 | OFFSHORE COQUIMBO, CHILE | | |
| #-1564 | 12/12 | 9 | 37 | 38.4 | 6.444 | 125.906 | 98 | 4.9 | - | 94.91 | MINDANAO, PHILIPPINES | | |
| #-1565 | 12/12 | 15 | 48 | 3.1 | 3.732 | 124.680 | 214 | 5.9 | - | 91.94 | CELEBES SEA | | |
| #-1566 | 12/12 | 16 | 41 | 48.8 | -29.982 | -177.503 | 35 | 4.9 | - | 77.46 | KERMADEC ISL, NEW ZEALAND | | |
| #-1567 | 12/13 | 5 | 21 | 33.4 | 5.285 | 94.723 | 42 | 4.8 | - | 83.4 | NORTHERN SUMATRA, INDONESIA | | |
| #-1568 | 12/13 | 11 | 12 | 51.1 | -20.180 | -68.990 | 121 | 4.1 | - | 77.4 | TARAPACA, CHILE | | |
| #-1569 | 12/13 | 11 | 40 | 56.8 | 46.276 | 154.468 | 10 | 5.1 | - | 141.37 | EAST OF THE KURIL ISLANDS | | |
| #-1570 | 12/13 | 14 | 46 | 41.6 | -0.742 | 121.964 | 40 | 4.9 | - | 86.79 | SULAWESI, INDONESIA | | |
| #-1571 | 12/14 | 7 | 43 | 9.1 | 47.096 | 152.628 | 65 | 5.2 | - | 141.41 | KURIL ISLANDS | | |
| #-1572 | 12/14 | 10 | 46 | 22.7 | 47.416 | 153.045 | 10 | 5.1 | - | 141.83 | KURIL ISLANDS | | |
| #-1573 | 12/14 | 17 | 23 | 5.0 | -42.791 | 143.563 | 27 | 4.9 | - | 55.38 | TASMANIA, AUSTRALIA REGION | | |
| #-1574 | 12/15 | 16 | 59 | 1.5 | 46.496 | 162.953 | 4 | 5.6 | 5.0 | 141.01 | KURIL ISLANDS | | |
| #-1575 | 12/17 | 2 | 56 | 17.5 | -23.160 | -66.192 | 208 | 4.0 | - | 73.69 | JUJUY, ARGENTINA | | |
| #-1576 | 12/17 | 9 | 4 | 27.5 | -0.128 | 125.067 | 81 | 5.0 | - | 88.47 | MOLUCCA SEA | | |
| #-1577 | 12/17 | 12 | 40 | 11.6 | -21.233 | -174.485 | 32 | 5.0 | - | 86.58 | TONGA | | |
| #-1578 | 12/17 | 12 | 51 | 12.4 | -21.280 | -174.462 | 41 | 5.5 | 5.5 | 86.54 | TONGA | | |
| #-1579 | 12/18 | 3 | 42 | 11.3 | -23.343 | -179.887 | 517 | 4.6 | - | 83.46 | SOUTH OF THE FIJI ISLANDS | | |
| #-1580 | 12/18 | 10 | 27 | 50.2 | -13.623 | -69.986 | 267 | 4.4 | - | 83.88 | SOUTHERN PERU | | |
| #-1581 | 12/19 | 12 | 48 | 16.8 | 2.536 | 98.145 | 67 | 5.2 | - | 81.82 | NORTHERN SUMATRA, INDONESIA | | |
| #-1582 | 12/19 | 19 | 58 | 26.5 | -21.016 | -174.214 | 10 | 5.3 | - | 86.84 | TONGA | | |
| #-1583 | 12/20 | 23 | 55 | 52.1 | 13.290 | 125.880 | 0 | 5.6 | - | 101.28 | PHILIPPINE ISLANDS REGION | | |
| #-1584 | 12/21 | 16 | 35 | 18.7 | -20.457 | -178.172 | 510 | 4.7 | - | 86.62 | FIJI REGION | | |

Table 2. Continued.

| No. | Date | Origin time | | | Geographic Latitude (deg) | Coordinates Longitude (deg) | Depth (km) | Magnitude | | Epicentral distance (deg) | Region |
|--------|-------|--------------|----|------|---------------------------------|-----------------------------------|---------------|-----------|-----|---------------------------------|--|
| | | UTC h m s | | | | | | Mb | Ms | | |
| #-1585 | 12/22 | 13 | 51 | 53.4 | -17.593 | -178.570 | 543 | 5.2 | - | 89.34 | FIJI REGION |
| #-1586 | 12/23 | 3 | 32 | 58.3 | -17.900 | 167.920 | 80 | 4.6 | - | 85.82 | VANUATU |
| #-1587 | 12/23 | 10 | 54 | 50.5 | -2.632 | 134.163 | 35 | 5.2 | - | 89.39 | NEAR N COAST PAPUA, IND. |
| #-1588 | 12/23 | 17 | 2 | 43.2 | -9.770 | 160.321 | 35 | 5.0 | - | 91.43 | SOLOMON ISLANDS |
| #-1589 | 12/24 | 5 | 7 | 37.7 | -4.533 | 153.175 | 64 | 5.5 | - | 94.15 | NEW IRELAND REGION, P.N.G. |
| #-1590 | 12/24 | 7 | 27 | 44.1 | -13.994 | -76.901 | 41 | 5.0 | - | 85.76 | NEAR COAST OF CENTRAL PERU |
| #-1591 | 12/24 | 8 | 1 | 5.8 | -6.774 | 116.543 | 524 | 5.2 | - | 79.23 | BALI SEA |
| #-1592 | 12/24 | 9 | 46 | 26.1 | -5.100 | 144.908 | 62 | 5.2 | - | 90.85 | NEW GUINEA, P.N.G. |
| #-1593 | 12/24 | 14 | 26 | 16.6 | 51.635 | 178.835 | 68 | 5.1 | - | 154.41 | RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA |
| #-1594 | 12/24 | 17 | 39 | 7.4 | -2.118 | 139.050 | 32 | 5.7 | 5.6 | 91.6 | NEAR THE NORTH COAST OF PAPUA, INDONESIA |
| #-1595 | 12/24 | 19 | 56 | 49.6 | -20.461 | -174.384 | 15 | 4.6 | - | 87.35 | TONGA |
| #-1596 | 12/25 | 10 | 29 | 10.7 | -27.369 | 66.612 | 10 | 4.8 | - | 44.67 | INDIAN OCEAN TRIPLE JUNCTION |
| #-1597 | 12/26 | 6 | 33 | 19.4 | -22.299 | -65.563 | 256 | 4.5 | - | 74.28 | JUJUY, ARGENTINA |
| #-1598 | 12/26 | 7 | 29 | 1.6 | -38.360 | 111.870 | 10 | 5.0 | - | 48.53 | SOUTHWEST OF AUSTRALIA |
| #-1599 | 12/26 | 12 | 26 | 21.4 | 21.825 | 120.538 | 10 | 6.4 | 7.2 | 107.34 | TAIWAN REGION |
| #-1600 | 12/26 | 12 | 40 | 21.5 | 21.587 | 120.871 | 10 | 5.5 | - | 107.24 | TAIWAN REGION |
| #-1601 | 12/26 | 15 | 19 | 45.3 | 48.424 | 154.758 | 10 | 5.6 | 5.4 | 143.29 | KURIL ISLANDS |
| #-1602 | 12/26 | 22 | 56 | 35.9 | 2.924 | 125.538 | 105 | 5.2 | - | 91.49 | KEPULAUAN SANGIHE, INDONESIA |
| #-1603 | 12/27 | 9 | 17 | 2.5 | -15.700 | -173.920 | 35 | 5.0 | - | 92.11 | TONGA |
| #-1604 | 12/27 | 20 | 15 | 40.2 | -5.753 | 154.470 | 370 | 5.7 | - | 93.42 | BOUGAINVILLE REGION, P.N.G. |
| #-1605 | 12/30 | 22 | 34 | 36.7 | 43.271 | 146.436 | 10 | 5.0 | - | 135.9 | KURIL ISLANDS |
| #-1606 | 12/31 | 13 | 12 | 44.7 | -8.220 | 111.650 | 93 | 4.8 | - | 76.16 | JAVA, INDONESIA |
| #-1607 | 12/31 | 13 | 29 | 46.1 | -21.470 | -174.050 | 10 | 4.5 | - | 86.43 | TONGA |
| #-1608 | 12/31 | 14 | 55 | 2.7 | -37.902 | -71.144 | 21 | 5.6 | 5.1 | 61.57 | ARAUCANIA, CHILE |