

**SEISMOLOGICAL BULLETIN OF SYOWA STATION,
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1. Introduction

Seismic observations at Syowa Station (69.0°S, 39.6°E), East Antarctica, began in 1959 using a short-period seismometer with a natural period of 1.0 s (Eto, 1962). In 1967, a long-period seismograph was installed, and phase readings of teleseismic events (i.e., the detection of arrival times and amplitudes for significant seismic phases) were reported in near real-time to the United States Geological Survey (USGS) and to the International Seismological Centre (ISC) (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 other key stations of the PACIFIC21 Japanese regional network. Figure 1 shows the present-day distribution of FDSN stations in Antarctica.

During 2012, all of the observation systems at Syowa Station were maintained by one of the present authors (H. Hayakawa) throughout the wintering season of the 53rd Japanese Antarctic Research Expedition (JARE-53). In this report, we introduce the seismic observations made in

2012, and provide scaled read-out travel-time data and a list of detected teleseismic earthquakes. We also provide information on public access to these data via the Internet.

2. Observations

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

2.1. Seismographic hut and seismographs

Seismic observations at Syowa Station have generally been carried out using two types of seismometers. The first is a short-period seismometer (HES) with a 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 (Hagiwara, 1958) are shown in Fig. 3. The second is a three-component broadband seismometer (Streckeisen STS-1) with a digital recording system, which has been operating since 1990 (Nagasaka *et al.*, 1992). For this seismometer, the amplitude and phase responses for the velocity output (Broadband; BRB) are shown in Fig. 4 (after Streckeisen and Messegeraete, 1987).

The current seismographic hut was built in 1996, and all of the sensors in the old vault were moved into the new hut in 1997. The new hut is located about 200 m north of the old vault, at WGS84 geodetic coordinates of 69°00'24.0"S, 39°35'06.0"E (20 m above mean sea level). Because the long-period output signals from the broadband seismographs may be affected by variations in temperature and atmospheric conditions, the seismometers were installed in a small, thermally insulated room in the hut. The entire outside surface of the hut is covered by titanium to maintain a constant temperature.

Seismic signals from 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 the Earth Science Laboratory

The three-component analog outputs of HES were digitized at a sampling frequency of 200 Hz by a 24-bit analog-to-digital (A/D) converter, generating triggered signals of 80-Hz and 1-Hz re-sampling data and 20-Hz continuous outputs. The signals of the three-component broadband STS-1 were also digitized to create triggered output of 80-Hz re-sampling data and continuous outputs of 20-, 1-, 0.1-, and 0.01-Hz data. All the waveform data were formatted as a Mini_SEED volume, which is a standard format for data exchange in global seismology. The digitized data were automatically transmitted from the A/D converter to a workstation via TCP/IP protocol. All data were stored on the 40-GB hard disk of the workstation, and then copied onto DAT or 8-mm tape at 3-month intervals. The recording status of the A/D converter was continuously monitored by a personal computer via an RS-232C serial port.

Remote-centering of the mass position for the STS-1 sensors can be carried out by keyboard commands from the computer using 'Kermit' communication software. The reference clock for the new system has been calibrated to Universal Time Coordinated (UTC) by detecting time codes by GPS. Long-term analog-recorders for the HES and BRB output of the STS-1 are operated in ESL. The boom-POSition output (POS) of the STS-1 seismograph is monitored by an RD2212-type analog recorder, together with the temperature in the sensor room.

2.3. Data transmission via INTELSAT

Since 1993, the digital waveforms of both broadband and short-period seismographs have been transmitted from Syowa Station to the National Institute of Polar Research (NIPR) via an INMARSAT telecommunication link. Waveform data transmission was greatly improved by using an INTELSAT communication link, established in February 2004. During the 2012 winter season, continuous data of both HES and STS-1 (sampling frequency of 20 Hz) were automatically transmitted to NIPR once a day from the acquisition workstation, using the UUCP protocol for data transfer.

In addition to remote monitoring of the data acquisition system from NIPR, Internet access to the Syowa facilities has improved markedly since 2005, with the development of the INTELSAT system. Moreover, a Web camera, employing the Station LAN, was installed inside ESL, followed by improved monitoring of the analogue recorders during periods when the access was impossible to the ESL due to the bad weathers.

3. Data

By using the waveform data transmitted via INTELSAT, arrival-time information of major seismic phases (herein termed ‘read-out data’) is regularly sent from NIPR to USGS/NEIC (National Earthquake Information Center) via email, to contribute to the weekly and monthly Preliminary Determination for Epicenters (PDE) bulletins. The Quick Earthquake Determination (QED) services offered by NEIC are used to identify the seismograms of teleseismic events. This report lists the arrival-time data and corresponding hypocentral data of teleseismic events recorded during 2012. The phase arrival-times of teleseismic events are detected on 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 a time difference of 3 s by comparing the observed travel-time with the calculated time. *X* denotes a clear phase whose wave type can be identified but for which the observed travel time was within 3–10 s of the calculated time. The symbols *E* and *I* in the phase column denote emergent and sharp onsets, respectively. The initial ground motion is denoted by + for upward motion and by - 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 indicated by serial numbers (#-xxx) in the table. These serial numbers correspond to those in the list of hypocentral parameters in [Table 2](#). Events without serial numbers are teleseisms whose locations have not been determined

by NEIC. Figure 5 shows the hypocenters of the teleseismic events whose initial phases were detected at Syowa Station.

4. Publication

The seismic waveform data, which are continuously transmitted to NIPR and stored in the data library server, are accessible upon request via the Internet and/or by UNIX-formatted media (CD-R, DAT, etc.). The present authors hereby grant permission for the use of these data in scientific publications. All kinds of archived seismic data (e.g., arrival times, hypocenters, analog and digital waveform data, and related document reports) recorded at Syowa Station have been accumulated and are available from the data library server (POLARIS; URL: <http://polaris.nipr.ac.jp/~pseis/syowa>). These data can be accessed by using the 'ftp' command with a password. If you are interested in using these data for scientific research, please contact *kanao [at] nipr.ac.jp* for information on availability of the data.

Archived data (i.e., data collected more than 2 years ago) are stored and are freely available from both the NIPR ftp site and from the PACIFIC21 center of the Japan Marine Science and Technology Agency. Any questions concerning data availability from PACIFIC21 should be directed to *y-ishihara [at] jamstec.go.jp*.

5. Data-Processing Staff

The seismic observation system at Syowa Station was designed by M. Kanao of NIPR. The authors express their sincere thanks to Ms. A. Ibaraki of NIPR for her efforts in scaling the seismic data. Information on data access is available at <http://polaris.nipr.ac.jp/~pseis/syowa>.

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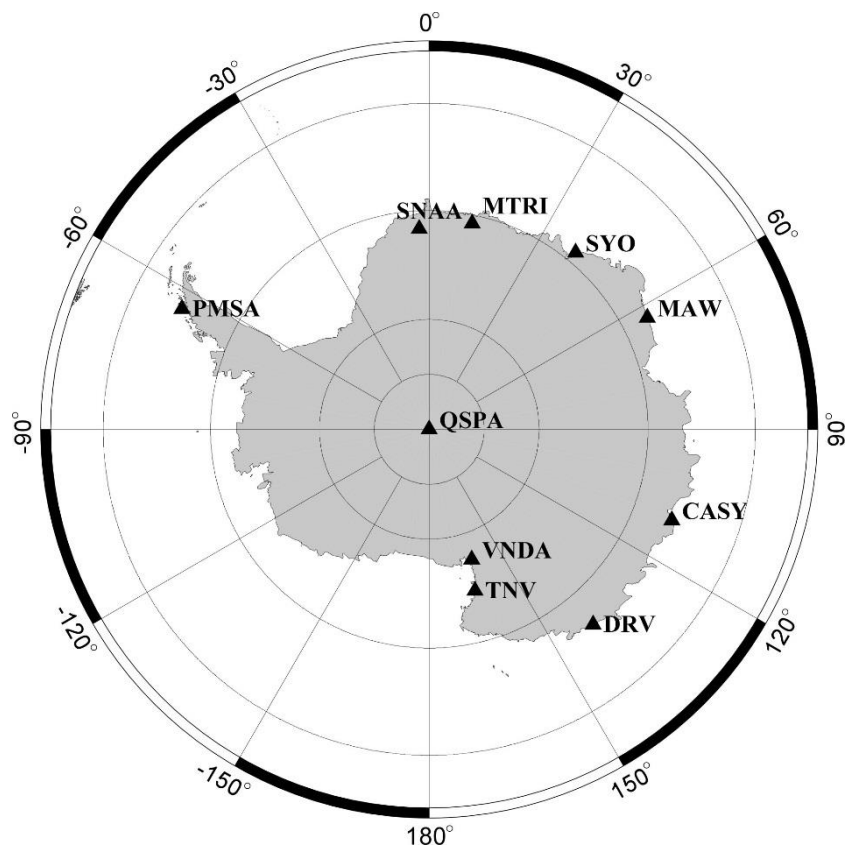


Fig. 1. Distribution of FDSN stations on the Antarctic continent in 2014. Syowa (SYO), Mawson (MAW), Casey (CASY), Dumont d'Urville (DRV), Terra Nova Bay (TNV), Vanda (VVDA), South Pole (QSPA), Palmer (PMSA), Sanae (SNAA), Maitri (MTRI).

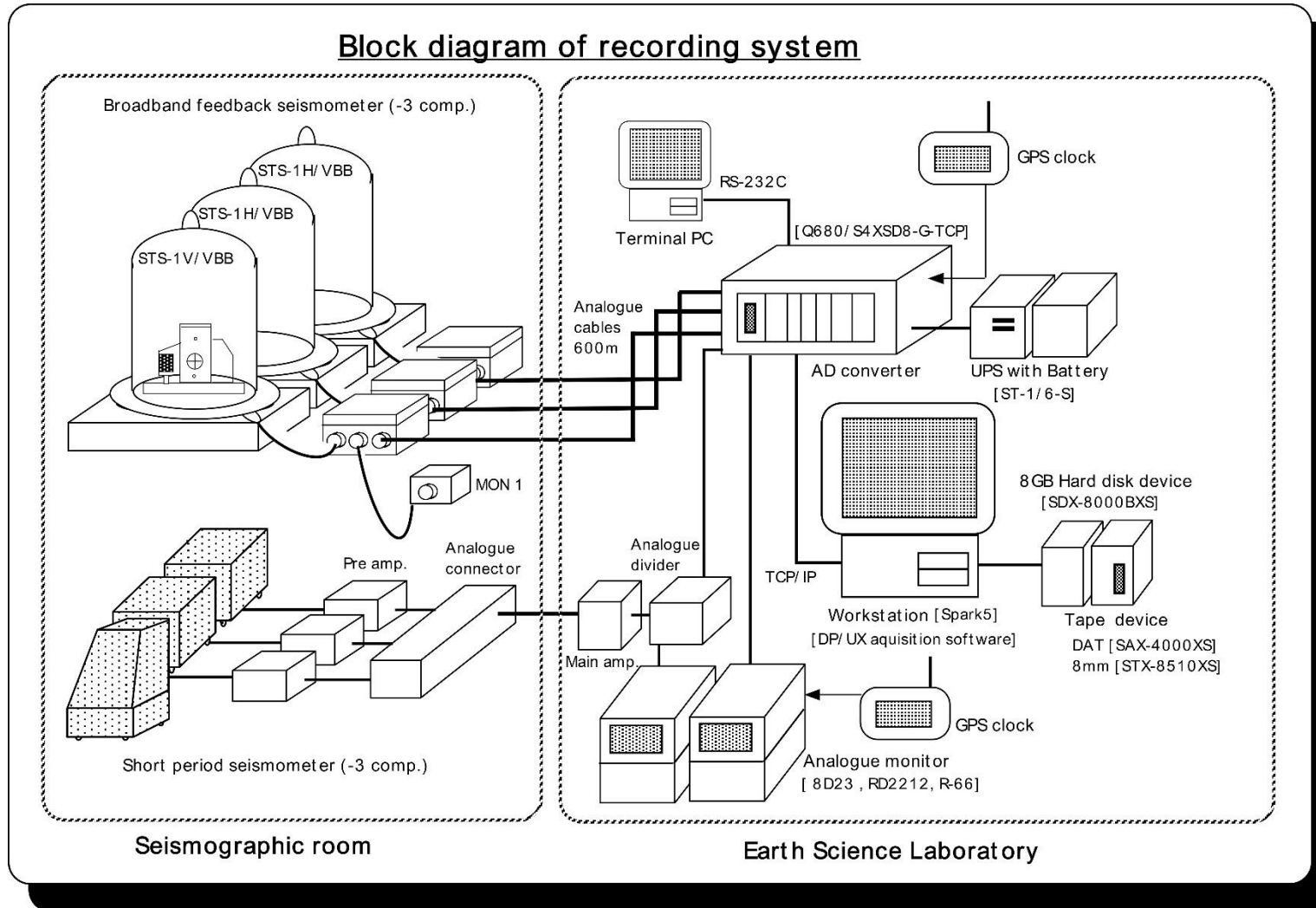


Fig. 2. Block diagram of new recording system for the STS and HES seismographs at Syowa Station.
 Left figure: Seismographic room; Right figure: Earth Science Laboratory.

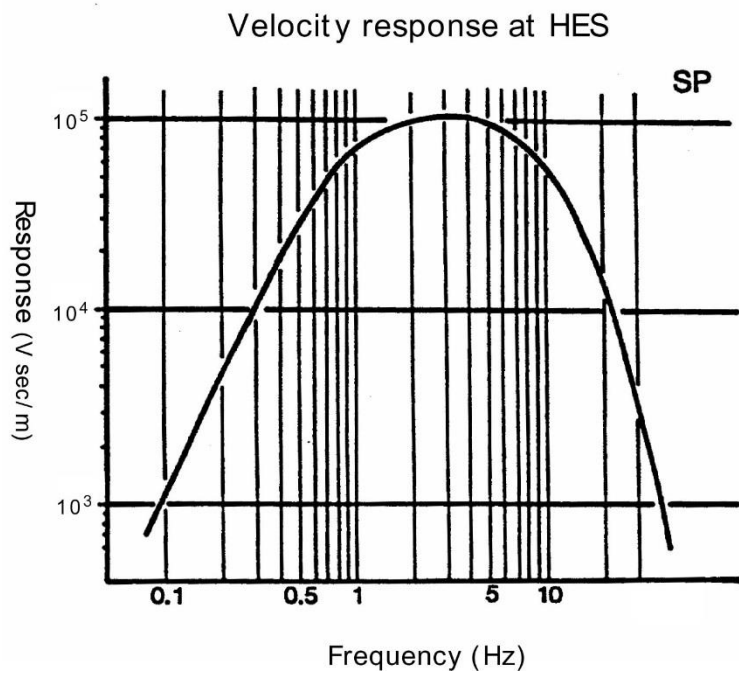


Fig. 3. Over-all frequency responses of the HES seismographs. (Modified after Hagiwara, 1958).

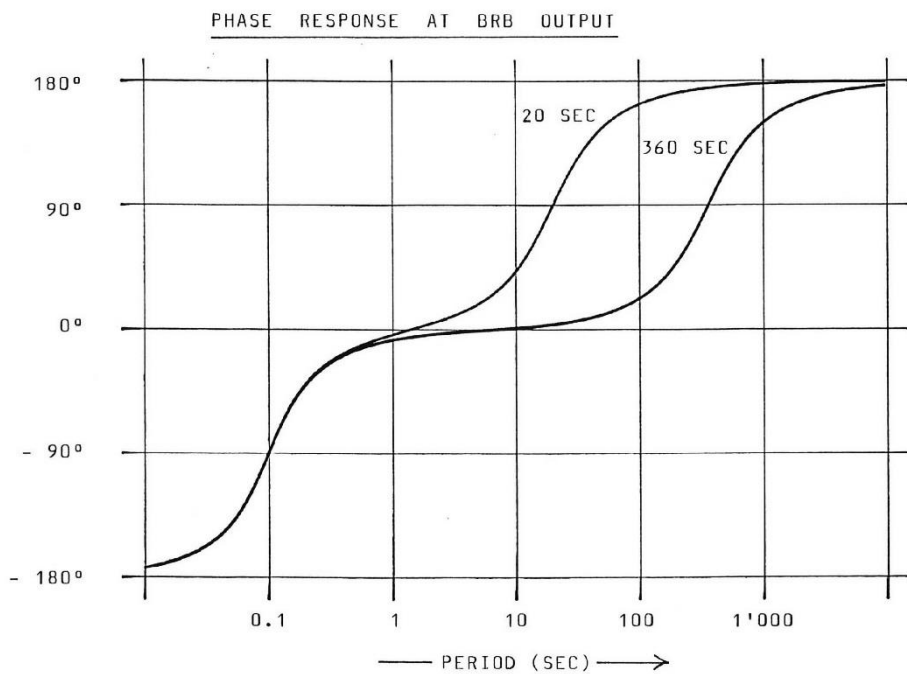
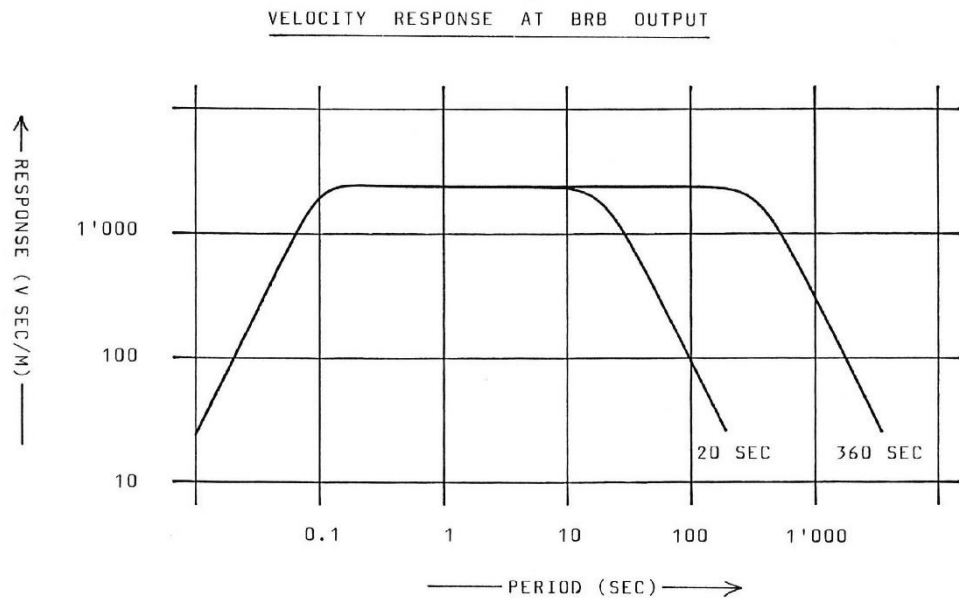


Fig. 4. Amplitude responses (upper figure) and phase responses (lower figure) for the velocity (BRB) output of the broadband seismograph (STS) in the two distinct signal modes of 20-s and 360-s (after Streckeisen and Messegeraete, 1987).

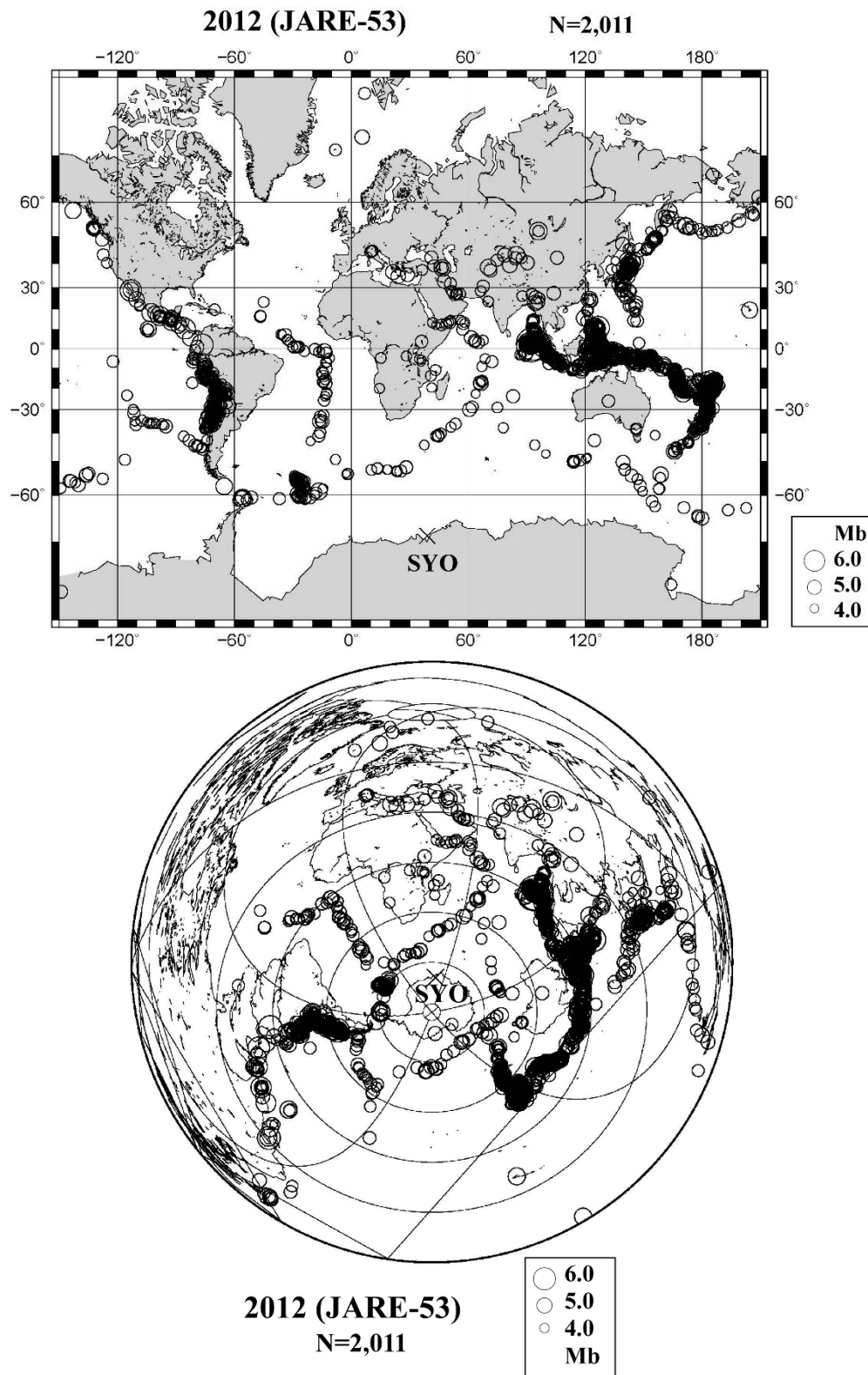


Fig. 5. Epicenters of the 2,011 earthquakes recorded at Syowa Station. The sizes of earthquake circles are proportional to the body-wave magnitude (Mb) determined by the National Earthquake Information Center (NEIC) (upper: Mercator Projection, lower: Azimuthal Equidistant Projection).

Table 1. List of phase arrival-time data in 2012.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
Jan.					1	+EPZ	2120	21.0	
1	+EPZ	0006	1.2		1	+EPZ	2120	26.6	#9
1	-EPZ	0006	19.4		1	+EPZ	2312	4.0	#10
1	+EPZ	0044	8.0		1	-EXZ	2312	11.0	#10
1	+EPZ	0044	16.0		2	-EPZ	0609	38.0	#11
1	+EXZ	0103	18.0	#-1	2	+IpPZ	0609	40.0	#11
1	+EPZ	0255	0.7		2	-EPZ	0919	40.4	
1	+IPZ	0505	53.8	#-2	2	+EPZ	1147	8.4	
1	-IpPZ	0505	58.0	#-2	2	+EXZ	1320	22.0	#-12
1	-EPZ	0532	24.6	#-3	2	-EPZ	1458	2.5	
1	+EPKPdfZ	0546	5.2	#-4	2	+EPZ	2352	3.0	
1	+IPZ	0547	20.2		3	+EPZ	0644	0.6	
1	+IpPKPdfZ	0547	38.2	#-4	3	-EPZ	0802	26.6	
1	+EPZ	0631	16.0		3	-EPZ	1224	24.0	
1	+EPZ	0642	2.3		3	-EPZ	1239	42.6	
1	+EPZ	0848	19.4		3	+EPZ	1447	18.0	
1	+EPZ	0914	36.5		3	+EPZ	1514	1.4	
1	+EPZ	1148	35.0		3	-EPZ	1836	33.6	
1	-EPZ	1210	34.2	#-5	3	+EPZ	1948	5.0	
1	+EPcPZ	1210	47.0	#-5	4	+EPZ	0250	37.0	
1	+EPZ	1215	46.0		4	+EPZ	0452	49.0	#-13
1	-EPZ	1215	53.4		4	-EpPZ	0452	59.0	#-13
1	+EPZ	1238	20.0	#-6	4	-IPZ	0500	0.2	#-14
1	-EPZ	1319	15.0		4	-IPcPZ	0500	1.4	#-14
1	+EPZ	1319	23.0		4	+EPZ	0641	3.1	
1	-EPZ	1613	3.0		4	+EPZ	0716	3.0	
1	-EPZ	1613	14.2		4	+EPZ	1124	25.0	
1	-EPZ	1655	25.2	#-7	4	-EPZ	1320	52.0	
1	-IpPZ	1655	28.4	#-7	4	-IPZ	1547	58.2	#-15
1	-IsPZ	1655	31.0	#-7	4	-IXZ	1548	0.4	#-15
1	-IPZ	1655	43.4		4	-IPZ	1607	48.2	
1	+EPZ	1806	1.0		4	+EPZ	1644	5.2	
1	-EPZ	1821	28.9	#-8	4	+EXZ	1910	9.2	#-16
1	-EpPZ	1821	40.0	#-8	4	-EPZ	1910	17.2	
1	-EPZ	1945	53.0		4	+EPZ	1942	43.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
4	+EPZ	2006	44.0	#-17	6	+EPZ	0714	39.6	#-27
4	+IXZ	2011	38.3	#-17	6	-EpPZ	0714	41.6	#-27
4	+EpPKiKPZ	2011	45.7	#-17	6	-EPZ	0819	3.2	#-28
4	+EPZ	2152	2.4		6	-EpPZ	0819	12.0	#-28
4	-EPZ	2214	0.4		6	+EPZ	0942	40.0	
4	-EPZ	2214	7.0		6	+EPZ	0942	43.5	
4	-EPZ	2337	3.2		6	-EPZ	1045	0.2	
5	-EPZ	0104	8.2	#-18	6	+EPZ	1201	47.0	
5	+EPZ	0124	19.3		6	-IpPZ	1232	0.0	#-29
5	+EXZ	0126	33.6	#-19	6	+IsPZ	1232	3.0	#-29
5	-IpPZ	0126	44.6	#-19	6	+EPZ	1313	14.4	
5	-EPZ	0252	2.5		6	+EPZ	1620	0.4	
5	+EPZ	1113	11.6		6	+EPZ	1736	11.0	
5	-EPZ	1521	27.6		6	-EPZ	1736	13.6	
5	+EPZ	1545	40.0		6	+EPZ	1851	4.0	
5	+EPZ	1639	5.6		6	+EPZ	2314	28.0	
5	-EPZ	1702	46.0		6	+EPZ	2314	32.2	
5	+EPKdfZ	1706	3.3	#-20	7	-EPZ	0214	28.3	
5	-EPZ	1707	11.0	#-21	7	+IPZ	0216	6.8	
5	+EPZ	2110	10.5		7	+EPZ	0303	28.0	
5	+IPZ	2204	52.4	#-22	7	+EPZ	0334	11.6	#-30
5	+EsPZ	2204	58.0	#-22	7	-IPZ	0443	35.8	#-31
5	+EPZ	2326	9.9		7	+EXZ	0444	3.4	#-31
6	+EPZ	0049	23.4	#-23	7	+EXZ	0458	24.9	#-32
6	+EsPZ	0049	29.6	#-23	7	+EPZ	0521	3.7	
6	+EPZ	0129	41.0		7	+EPZ	0603	45.7	
6	-EPZ	0131	21.8	#-24	7	-EPZ	0650	34.4	
6	-EsPZ	0131	28.4	#-24	7	+EXZ	0719	44.4	#-33
6	-EPZ	0302	34.6		7	-IPZ	0744	31.4	#-34
6	+EXZ	0422	5.0	#-25	7	+EPZ	1028	30.0	#-35
6	-EpPZ	0444	43.4	#-26	7	-EPZ	1131	25.6	
6	+EPZ	0516	0.6		7	-EPZ	1320	45.7	
6	+EPZ	0516	3.9		7	-EPZ	1402	47.4	
6	-EPZ	0526	25.0		7	+EPdiffZ	1815	6.4	#-36
6	+EPZ	0623	49.0		7	-EPZ	1830	42.8	#-37

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
7	+EpPZ	1830	46.0	#-37	9	-IPZ	0420	19.7	
7	-EsPZ	1830	49.0	#-37	9	-IpPZ	0420	29.0	
7	-IPZ	1850	12.4	#-38	9	ESH	0431	19.0	
7	+IPcPZ	1850	20.0	#-38	9	+EPZ	0619	1.6	
7	-IpPZ	1850	24.4	#-38	9	-EPZ	0717	27.4	
7	ESH	1900	12.0	#-38	9	-EPZ	1043	43.8	
7	-EPZ	2012	36.4		9	-EPZ	2007	5.0	#-46
7	-EPZ	2147	7.6		9	+EPZ	2026	7.9	#-47
7	+EPZ	2224	36.0	#-39	9	-EPcPZ	2026	12.0	#-47
7	+EXZ	2229	40.0	#-39	9	+EPZ	2141	40.2	#-48
8	+EPZ	0047	47.0	#-40	9	-IXZ	2141	43.4	#-48
8	+EPZ	0133	25.0		9	+IPZ	2153	1.6	
8	+EPZ	0443	28.0		10	+EPZ	0158	27.4	#-49
8	+EPZ	0552	50.0		10	+EpPZ	0158	33.4	#-49
8	+EPZ	0610	33.7		10	-EXZ	0417	41.6	#-50
8	-EPdiffZ	0635	2.4	#-41	10	-IPZ	1321	41.2	#-51
8	-EPZ	0646	18.9		10	-IpPZ	1321	44.4	#-51
8	+EPZ	0709	5.9		10	+EPZ	1753	17.2	
8	+EPZ	0752	32.8		10	-EXZ	1820	45.0	#-52
8	+EPZ	0923	16.4		10	-IPZ	1849	6.0	
8	+EPZ	0953	43.0		10	+IPcPZ	1849	13.4	#-53
8	+EPZ	1404	3.8		10	-IsPZ	1849	18.6	#-53
8	+EPZ	1513	53.0		10	ESH	1859	11.0	#-53
8	-EPZ	1638	25.5		10	+EsPZ	2010	36.0	#-54
8	+EPZ	1714	12.0		10	-EXZ	2113	22.0	#-55
8	-EXZ	1717	35.3	#-42	11	+EPZ	0032	32.2	#-56
8	+EPZ	2118	51.0		11	+EPcPZ	0032	36.0	#-56
8	+EPZ	2118	57.0		11	+EPZ	0341	57.1	#-57
8	+IPZ	2204	27.4	#-43	11	+EPZ	0625	47.4	
8	+IPcPZ	2204	31.0	#-43	11	-EPZ	0703	12.0	
8	+EPZ	2352	28.0	#-44	11	+EPZ	1441	10.0	#-58
8	-EPcPZ	2352	31.4	#-44	11	-EPcPZ	1441	12.0	#-58
9	-IPZ	0250	2.0	#-45	11	-EPZ	1609	3.4	
9	-IpPZ	0250	15.2	#-45	11	+EPZ	1737	30.4	
9	+EPZ	0356	24.4		11	+EPZ	1834	1.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	+EPZ	1910	54.0		13	-EPZ	0033	29.7	
11	-EPZ	1910	56.4		13	+EPZ	0125	0.2	
11	-EPZ	2232	26.8		13	+EPZ	0216	10.0	
11	-EPZ	2232	43.8		13	+EPZ	0313	44.9	
11	+EPZ	2354	13.0		13	-EPZ	0426	7.0	
12	+EPZ	0110	26.0	#-59	13	+EXZ	0446	14.0	#-69
12	+EPZ	0134	4.0		13	-EPZ	0525	55.0	#-70
12	+EPZ	0224	26.6	#-60	13	+EPZ	0601	1.6	
12	+IPZ	0229	2.9	#-61	13	-EPZ	0716	6.0	
12	+EPnZ	0256	39.6	#-62	13	-EPZ	0939	3.5	
12	-EpPnZ	0256	42.6	#-62	13	+EPZ	1050	39.0	
12	+EPZ	0407	4.2		13	-EPZ	1210	57.9	
12	+EPZ	0407	7.0		13	+EPZ	1447	19.0	
12	+EPPZ	0558	46.0	#-63	13	+EPZ	1540	1.4	
12	-EPZ	0639	21.2		13	+IPZ	1600	30.0	#-71
12	-EXZ	0721	2.6	#-64	13	-EPZ	1608	10.8	#-72
12	+EXZ	0721	14.2	#-64	13	-EPZ	1800	48.0	#-73
12	+EPZ	0807	20.8		13	-EPZ	2014	32.6	
12	-EPZ	0823	14.0		13	-EXZ	2015	49.8	#-74
12	-EPZ	0823	20.0		13	+EPZ	2028	20.2	
12	+EPZ	0845	54.9		13	+EPZ	2028	24.4	
12	+EPZ	0845	58.2		13	-EPZ	2037	4.2	
12	-EPZ	1239	33.0		13	+EPZ	2213	16.4	
12	+EPnZ	1415	14.4	#-65	13	+EPZ	2243	8.4	
12	-IPZ	1415	15.0	#-65	14	+EPcPZ	0059	46.4	#-75
12	-EPZ	1540	34.0		14	+IXZ	1140	36.4	#-76
12	+EPZ	1549	19.6		14	-EpPZ	1140	43.0	#-76
12	+EPZ	1607	0.1		14	+EpPZ	1140	49.7	#-76
12	+EPZ	1722	55.6		14	-EPZ	1620	14.0	
12	+EPZ	1722	59.6		14	+EpPZ	1850	38.0	#-77
12	+EXZ	1725	11.3	#-66	14	-EPZ	1911	25.4	
12	+IPnZ	2212	18.8	#-67	14	+EPZ	2115	40.5	
12	-EPZ	2243	56.2	#-68	15	-EPZ	0930	30.0	#-78
13	+EPZ	0019	2.0		15	-EPZ	1010	25.7	
13	-EPZ	0033	25.6		15	-EPZ	1010	29.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	-EpPZ	1347	28.2	#-79	16	-EPZ	1852	44.7	#-89
15	-IsPZ	1347	29.0	#-79	16	-EpPZ	1852	56.3	#-89
15	ESH	1353	16.4	#-79	16	+EPZ	2247	2.0	
15	-EPZ	1428	41.9	#-80	17	-EPZ	0146	44.8	
15	-IpPZ	1428	42.0	#-80	17	+EPZ	0215	36.2	
15	+EPZ	1822	3.6		17	-EPZ	0314	28.0	
15	-EPZ	1848	10.4	#-81	17	-EPZ	0453	13.6	
15	+EpPZ	1848	14.8	#-81	17	+EPZ	0511	11.0	
15	-EsPZ	1917	18.0	#-82	17	+EPZ	0531	21.0	
15	+EPZ	2013	42.1		17	-EPZ	0627	1.4	
15	-EPZ	2337	2.4		17	-EPZ	0632	57.4	
16	-EPZ	0106	23.8		17	-EsPZ	0936	13.0	#-90
16	-EPZ	0212	34.0		17	+EPZ	1013	31.0	#-91
16	+EPZ	0246	2.4		17	+EPcPZ	1013	34.0	#-91
16	-EPZ	0310	33.2		17	+EPZ	1014	8.8	
16	-IpPZ	0406	56.9	#-83	17	-EPZ	1206	5.6	#-92
16	+EsPZ	0406	59.4	#-83	17	+EPZ	1326	15.0	
16	ESH	0413	8.6	#-83	17	+EPZ	1816	35.2	
16	+EPZ	0438	13.6		17	+EPZ	2206	36.4	
16	-EPZ	0642	9.6		17	-EPZ	2240	33.0	
16	-EPZ	0838	45.9	#-84	17	+EPZ	2332	27.8	#-93
16	-EPcPZ	0838	48.0	#-84	17	-IpPZ	2332	37.4	#-93
16	+EPZ	1039	31.9	#-85	17	-EsPZ	2332	42.4	#-93
16	-EpPZ	1039	47.0	#-85	18	+EPZ	0018	6.2	
16	-EpPZ	1256	26.0	#-86	18	+EPZ	0132	22.4	#-94
16	-EsPZ	1256	27.9	#-86	18	+IPcPZ	0132	25.2	#-94
16	+EPZ	1407	30.0		18	+EPZ	0206	11.0	
16	+IPZ	1407	33.0		18	-EPZ	0401	15.0	
16	+EXZ	1512	18.4	#-87	18	+EPZ	0516	25.0	
16	+EPZ	1640	34.2		18	+IPZ	0753	2.4	
16	-EPZ	1640	45.4		18	+EPZ	0837	0.4	
16	-EPZ	1641	10.0		18	-EPZ	0924	22.4	
16	-EPZ	1713	2.0		18	-EPZ	1146	40.0	#-95
16	+EPZ	1713	7.3		18	-EPZ	1238	5.0	
16	+EPZ	1804	54.0	#-88	18	-EXZ	1303	5.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
18	+IPcPZ	1303	12.8	#-96	19	ESH	0706	37.7	#-106
18	-IsPZ	1303	21.6	#-96	19	+EPZ	0721	11.2	#-107
18	ESH	1313	35.4	#-96	19	-EPZ	0911	45.4	#-108
18	+EPZ	1357	9.9	#-97	19	+EpPZ	0911	48.4	#-108
18	-EPcPZ	1357	12.0	#-97	19	+EPZ	0911	52.1	#-108
18	+EPZ	1406	0.4		19	+EPZ	1044	35.0	
18	+EPZ	1406	5.4		19	-EPZ	1126	44.0	
18	+EPZ	1423	43.2		19	+EPZ	1256	38.2	#-109
18	-EXZ	1430	45.0	#-98	19	+EpsPZ	1256	44.7	#-109
18	+EPZ	1522	12.1		19	+EPZ	1708	18.0	
18	-EPZ	1522	14.6		19	+EPZ	1708	23.4	
18	+EPZ	1522	22.0		19	+EPZ	1917	33.4	
18	+EPZ	1621	59.0	#-99	19	+EPZ	2344	29.2	
18	+EPcPZ	1622	2.0	#-99	19	-EPZ	2348	34.2	#-110
18	+EpPZ	1622	12.6	#-99	20	-EPZ	0005	3.4	
18	-EXZ	1714	33.6	#-100	20	-EPZ	0547	26.0	
18	+EPZ	1715	0.0		20	-EPZ	0637	3.0	
18	-EPZ	1715	7.0		20	+EPZ	0702	28.0	
18	+EpPZ	1716	10.8	#-101	20	-EPZ	0702	30.7	
18	+EXZ	1739	0.0	#-102	20	-EPZ	0850	24.0	
18	-EPcPZ	1739	6.2	#-102	20	+EPZ	0850	27.4	
18	+EPZ	1834	41.0		20	+EPZ	1143	40.4	
18	+EPPZ	2254	48.6	#-103	20	+EPZ	1143	46.0	
18	-EPZ	2302	37.8		20	+EPZ	1207	2.2	#-111
18	+EPZ	2302	45.0		20	-EXZ	1346	38.0	#-112
19	+EPZ	0048	18.0		20	+EPZ	1502	4.6	
19	+EPZ	0226	14.5		20	-EPZ	1707	23.0	
19	-EPZ	0242	24.0		20	+IPZ	2044	41.0	#-113
19	-EPZ	0419	44.4	#-104	20	-IXZ	2044	45.6	#-113
19	-EpPZ	0419	54.2	#-104	20	-EPZ	2204	8.2	
19	-IPZ	0611	46.0	#-105	20	+EPcPZ	2304	3.2	#-114
19	-EpPZ	0611	50.4	#-105	20	-EpPZ	2304	16.0	#-114
19	-EXZ	0642	45.8		21	+EPZ	0015	9.8	
19	+EPZ	0658	37.6	#-106	21	-EPZ	0103	14.0	
19	-IpPZ	0658	39.0	#-106	21	-EPZ	0222	2.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
21	+EPZ	0327	50.2	#-115	23	+IXZ	1615	24.4	#-124
21	+EPZ	0550	17.9		23	-EsPZ	1615	29.8	#-124
21	+EPZ	1128	48.6		23	ESH	1623	53.0	#-124
21	+EPZ	1128	54.7		23	+EPZ	1712	27.5	
21	-IPZ	1200	44.0		23	+EPZ	1713	6.0	
21	+EPZ	1205	45.0	#-116	23	+EPZ	1732	40.0	#-125
21	+EPZ	1221	31.6		23	-EpPZ	1732	47.8	#-125
21	-EPZ	1337	3.2	#-117	23	+EPZ	1928	7.4	
21	-EPZ	1615	18.4		23	+EPZ	198	10.8	
21	+EPZ	1820	9.4		23	+EpPdiffZ	2105	9.4	#-126
21	+EPZ	2341	18.4		23	+EPZ	2205	40.0	#-127
22	+EPZ	0343	56.2		23	-EPZ	2353	1.0	#-128
22	-IpPZ	0559	54.4	#-118	23	-EPcPZ	2353	10.0	#-128
22	+IsPZ	0559	57.6	#-118	24	-EPZ	0103	22.2	
22	+EPZ	0606	12.5		24	-IPZ	0103	23.4	
22	+IpPZ	0606	15.4		24	ESH	0112	43.4	
22	ESH	0610	56.8		24	-EPZ	0156	1.4	#-129
22	-EPZ	1135	15.2	#-119	24	-EPZ	0401	17.0	
22	+EpPZ	1135	30.8	#-119	24	-EPZ	0534	1.0	
22	+EPcPZ	1135	34.0	#-119	24	+EPZ	0749	16.0	
22	-EPZ	1449	7.3		24	-EPZ	0831	1.0	
22	-EPZ	1514	7.0		24	-EPZ	0913	16.4	
22	-EPZ	1713	22.6		24	+EPZ	1225	33.0	
22	+EPZ	1713	27.8		24	+EPZ	1409	38.3	
22	-EPZ	1713	32.4		24	-EPZ	1613	11.0	
22	+EpPZ	1756	43.0	#-120	24	+EPZ	1637	29.6	#-130
22	-EsPZ	2115	11.6	#-121	24	-EsPZ	1637	34.6	#-130
22	+EPcPZ	2115	20.0	#-121	24	ESH	1642	51.8	#-130
22	+EPZ	2353	9.0		24	+EPZ	1658	45.4	#-131
23	-IPZ	0338	46.4	#-122	24	+EsPZ	1658	53.3	#-131
23	-IPcPZ	0338	49.9	#-122	24	+EXZ	1724	16.0	#-132
23	-EPZ	1206	13.2		24	+EPZ	1943	12.9	
23	+EXZ	1252	48.0	#-123	24	-EPZ	2054	26.4	
23	+EPZ	1313	28.0		24	+EPZ	2145	43.4	#-133
23	-EPZ	1615	21.0	#-124	24	+EPcPZ	2145	44.4	#-133

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
24	+EPKiKPZ	2150	44.0	#-133	26	+EPZ	0404	12.6	
24	+EPZ	2226	20.8		26	-EPZ	0438	32.0	
24	+EPZ	2251	25.6	#-134	26	+EPZ	0449	33.0	
24	+EsPZ	2251	32.0	#-134	26	+EXZ	0456	14.2	#-145
25	+EXZ	0105	47.0	#-135	26	-EPZ	0509	17.0	
25	-EPZ	0612	22.8	#-136	26	+EPZ	0636	27.3	
25	-IPZ	0612	24.6	#-136	26	+EPZ	1446	23.1	
25	-IXZ	0612	31.0	#-136	26	-EPZ	1513	2.8	
25	+EPZ	0634	37.8		26	+EPZ	1513	14.0	
25	+EPZ	0642	10.8		26	-IPZ	1600	3.2	
25	+IPZ	0730	10.0	#-137	26	+EXZ	1600	19.0	#-146
25	+IXZ	0730	21.4	#-137	26	ESH	1612	13.6	#-146
25	+EPdiffZ	0521	30.0	#-138	26	-IXZ	1600	3.2	#-147
25	+EPZ	0908	9.5		26	+EPZ	1643	16.4	
25	-EPZ	0908	12.0		26	-EPZ	1643	20.8	
25	+EPZ	1148	32.8		26	+EPZ	1907	12.0	
25	+EPZ	1148	36.2		26	+EXZ	2222	5.9	#-148
25	+EPZ	1148	43.0		26	-EXZ	2222	14.0	#-148
25	+EPZ	1509	47.6	#-139	27	+EPZ	0123	47.0	
25	+IPZ	1509	53.0		27	-EPZ	0123	55.6	
25	+EXZ	1510	36.6	#-139	27	-EXZ	0147	25.6	
25	ESH	1517	34.0	#-139	27	+EPZ	1006	31.0	
25	+EPZ	1609	4.0		27	+EXZ	1006	35.4	#-149
25	+EPZ	1609	7.0		27	-EPZ	1037	24.8	
25	+EPZ	1609	16.0		27	+EPZ	1037	34.4	
25	-EPZ	1609	28.4	#-140	27	+EXZ	1508	14.0	#-150
25	-EXZ	1618	17.0	#-141	27	-EPZ	1728	10.6	#-151
25	+EXZ	1622	14.0	#-141	27	+EpPZ	1728	20.2	#-151
25	-EPZ	1709	31.8		27	+EPZ	1851	30.0	
25	+EpPZ	1800	32.0	#-142	27	-EPZ	2257	25.0	
25	-EPdiffZ	2058	45.0	#-143	27	+EPZ	2257	29.6	
25	+EPZ	2224	7.4		27	-EPZ	2342	9.0	
26	+EPZ	0218	17.0		28	+EpPdiffZ	0038	30.3	#-152
26	+EXZ	0348	25.0	#-144	28	+EPZ	0406	32.0	
26	+EXZ	0348	39.0	#-144	28	-EPZ	0455	6.2	#-153

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
28	+EsPZ	0455	10.4	#-153	29	+EPPZ	0320	15.6	#-169
28	+EPPZ	0544	49.6	#-154	29	+EPZ	0615	25.0	
28	-EXZ	0507	48.5	#-155	29	-EPZ	0615	27.5	
28	+IPZ	0902	57.0	#-156	29	+EPZ	1413	17.4	
28	+IPcPZ	0903	6.8	#-156	29	-EPZ	1515	20.0	
28	+EPZ	1424	32.2		29	-EPZ	1656	10.0	#-170
28	+EXZ	1433	15.0	#-157	29	+EPcPZ	1656	25.1	#-170
28	+EXZ	1459	26.2	#-158	29	+EPdiffZ	1716	41.0	#-171
28	-EpPZ	1459	39.0	#-158	29	-EPZ	1820	7.6	
28	+EPZ	1610	16.3		29	+EPZ	1848	0.0	#-172
28	+EPZ	1610	38.3		29	+EPcPZ	1848	2.6	#-172
28	-IPZ	1754	49.5	#-159	29	+EPdiffZ	2157	25.6	#-173
28	-IpPZ	1754	55.0	#-159	29	+EPZ	2313	26.0	#-174
28	ESH	1804	43.4	#-159	30	-EPZ	0229	25.0	#-175
28	+IPZ	1757	45.4	#-160	30	-IPZ	0523	32.2	
28	-IPZ	1759	34.6	#-161	30	-IPZ	0523	47.3	
28	+EPZ	1808	46.0		30	+IPZ	1218	29.9	
28	-IPZ	1829	49.0	#-162	30	+EPZ	1332	46.6	#-176
28	-EPZ	1830	9.9		30	-EPZ	1422	23.0	
28	-EPZ	1901	1.2	#-163	30	+EPcPZ	1838	5.4	#-177
28	+EpPZ	1901	6.2	#-163	30	-EPZ	1951	26.4	#-178
28	-EPcPZ	1901	11.5	#-163	30	+EpPZ	1951	35.8	#-178
28	+EPZ	1917	18.6	#-164	30	+EPZ	2251	20.6	
28	-EPcPZ	1917	27.0	#-164	31	-EPZ	0021	18.3	
28	-EPZ	1917	38.4	#-165	31	+EPZ	0153	6.6	
28	+EpPZ	1917	42.4	#-165	31	+EPZ	0353	37.2	#-179
28	-EsPZ	1917	47.0	#-165	31	+EPZ	0611	29.0	
28	+EPZ	1950	20.2	#-166	31	+EPZ	0737	41.4	#-180
28	-EsPZ	1950	51.9	#-166	31	-EPcPZ	0737	46.0	#-180
28	+EPZ	2012	34.0	#-167	31	-IPZ	1238	22.8	
28	-EpPZ	2012	39.6	#-167	31	+EPZ	1522	33.6	
29	-EPZ	0009	3.0		Feb.				
29	+EPZ	0009	13.2		1	+EPZ	1226	4.4	
29	+EPZ	0019	24.8	#-168	1	-EPZ	1317	46.2	
29	+EPZ	0319	33.4		1	+EPZ	1418	46.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
1	-EPZ	1419	1.0		2	+EXZ	1415	8.0	#-190
1	-EPZ	1549	18.2		2	+EPZ	1540	25.4	
1	+EPZ	1633	0.4		2	-EPZ	1615	27.0	
1	+EPZ	1947	4.0		2	-EPZ	1617	21.0	#-191
1	+EPZ	2051	21.6		2	+EpPZ	1617	29.8	#-191
1	+EPZ	2155	40.2	#-181	2	+EPZ	1710	43.0	
1	-IsPZ	2155	45.0	#-181	2	+EPZ	1739	36.5	
1	-IPcPZ	2155	51.0	#-181	2	-EPZ	1739	41.0	#-192
1	+EPZ	2310	29.3		2	-IPcPZ	1739	45.0	#-192
2	-EPZ	0116	27.7		2	+EPZ	1741	26.0	#-193
2	+IPZ	0116	34.4		2	-EsPZ	1741	36.0	#-193
2	+IPZ	0116	39.4		2	+EPZ	1817	20.4	
2	-EPZ	0503	4.6	#-182	2	+EPZ	1919	10.0	
2	-EXZ	0659	41.4	#-183	2	-EXZ	1933	20.0	#-194
2	-EPZ	0737	0.6		2	-EPcPZ	1933	27.4	#-194
2	-EPZ	0816	26.9		2	-IPZ	1957	11.4	#-195
2	+EPZ	0811	44.7	#-184	2	-IPcPZ	1957	14.0	#-195
2	+EPcPZ	0811	53.4	#-184	2	-IPZ	2039	11.0	#-196
2	+EPZ	0929	26.4	#-185	2	-EsPZ	2039	19.0	#-196
2	+EPZ	0945	15.4	#-186	2	+EPZ	2118	29.0	
2	-EPZ	1003	40.4		2	+EPZ	2150	0.4	
2	-EPZ	1056	21.4		2	-EPZ	2150	9.0	
2	-IPZ	1056	29.0	#-187	2	+EXZ	2151	34.4	#-197
2	-IPcPZ	1056	32.0	#-187	2	-EPZ	2236	3.9	
2	+EPZ	1108	29.0	#-188	2	-EPZ	2339	13.7	
2	-EPcPZ	1108	37.4	#-188	3	+IPZ	0359	1.2	#-198
2	+EPZ	1208	9.0		3	-IsPZ	0359	12.2	#-198
2	+EPZ	1208	16.6		3	+IPPZ	0402	20.0	#-198
2	-EPZ	1208	29.0		3	ESH	0409	26.0	#-198
2	+EPZ	1316	15.0		3	-EPZ	0445	45.0	#-199
2	+IPZ	1347	15.4	#-189	3	-EPcPZ	0445	49.0	#-199
2	-IPcPZ	1347	19.2	#-189	3	+EPZ	0614	17.2	#-200
2	ESH	1357	53.0	#-189	3	+EPcPZ	0614	21.2	#-200
2	+EPZ	1402	12.0		3	-EPZ	0729	43.0	#-201
2	-EPZ	1409	46.7	#-190	3	-EXZ	0825	51.2	#-202

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
3	+EXZ	0825	54.0	#-202	4	+EXZ	1947	21.0	#-212
3	+EPZ	1111	21.2	#-203	4	+EXZ	2025	23.3	#-213
3	+EPcPZ	1111	24.7	#-203	4	+EpPKPdfZ	2025	29.2	#-213
3	-EpPZ	1139	53.8	#-204	4	-IPKPabZ	2026	6.2	#-213
3	+EPZ	1251	6.2		4	-EPZ	2141	40.6	
3	+EPZ	1424	38.6		4	+EPZ	2141	47.0	
3	-EPZ	1424	44.3		4	+EPZ	2141	48.0	
3	+EPZ	1438	5.2	#-205	4	+EXZ	2203	13.6	#-214
3	-EpPZ	1438	20.2	#-205	4	-EPcPZ	2203	21.8	#-214
3	+EPZ	1518	34.0	#-206	4	-EPZ	2219	27.9	
3	+EPZ	1603	14.6		4	+EPZ	2249	16.2	#-215
3	-EsPZ	1752	24.0	#-207	4	+EXZ	2249	29.4	#-215
3	+EPZ	1945	24.0		4	+EPZ	2347	2.0	
3	+EPZ	2343	19.0		4	+EPZ	2347	16.4	
3	-EPZ	2343	31.0		5	+EXZ	0018	35.6	#-216
4	+EPZ	0017	32.0		5	-EPcPZ	0018	40.8	#-216
4	-EPZ	0017	34.0		5	+IPZ	0027	56.4	#-217
4	-EPKPdfZ	0113	14.8	#-208	5	-EPZ	0229	12.6	#-218
4	+EPZ	0256	5.6		5	-EXZ	0239	54.0	#-219
4	-EPZ	0256	10.0		5	+EPZ	0340	50.4	#-220
4	+EPdiffZ	0308	38.0	#-209	5	-EpPZ	0341	7.4	#-220
4	+EpPdiffZ	0309	10.0	#-209	5	-EsPZ	0341	13.9	#-220
4	+EPdiffZ	0424	53.0	#-210	5	+EXZ	0352	27.4	#-221
4	+EPZ	0516	6.6		5	-EPZ	0423	10.0	
4	-EPZ	0516	24.5		5	+EPZ	0520	17.4	
4	+IPZ	0751	59.0		5	+EXZ	0522	45.0	#-222
4	-EPZ	0753	9.0		5	+EPZ	0544	33.4	
4	-EPZ	0828	34.0		5	+EPZ	0556	4.5	
4	-EPZ	0828	39.0		5	+EPZ	0624	17.6	#-223
4	+EPZ	1015	3.9		5	-EpPdiffZ	0725	6.0	#-224
4	+EPZ	1015	7.0		5	+EPZ	0803	19.0	
4	-EPZ	1354	32.6		5	+EPZ	1227	31.0	#-225
4	+EpPZ	1814	13.0	#-211	5	+EPcPZ	1227	35.7	#-225
4	+EPZ	1914	11.0		5	+EpPZ	1229	40.0	#-225
4	+EPZ	1914	17.0		5	+EpPZ	1517	44.4	#-226

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
5	+EPZ	1527	9.0		7	+EXZ	0046	5.4	#-239
5	+EPZ	1603	33.3	#-227	7	+EPZ	0119	7.0	
5	+EXZ	1603	41.9	#-227	7	+EPZ	0240	2.0	
5	-EPZ	1653	15.8	#-228	7	+EPZ	0332	32.2	
5	+IXZ	1653	16.6	#-228	7	-EPZ	0616	29.0	
5	-IPPZ	1656	39.8	#-228	7	+EPZ	0833	7.0	
5	+EPZ	1659	4.0	#-229	7	+EPZ	0833	15.4	
5	+EPZ	1714	21.0		7	-EXZ	0843	33.6	#-240
5	+EPZ	1821	13.9		7	+EPZ	0926	37.0	
5	+EPZ	1921	40.4	#-230	7	-EPZ	1051	37.7	
5	+EXZ	2028	13.4	#-231	7	-EPZ	1121	7.4	
5	+EsPZ	2028	26.0	#-231	7	+EPZ	1212	35.6	#-241
5	+EPZ	2106	18.6		7	-EsPZ	1212	43.0	#-241
5	+EPZ	2106	35.0		7	+EPZ	1322	2.0	
5	+EPZ	2110	30.6		7	+EPZ	1322	27.0	
5	-EPZ	2110	39.0		7	-EPdiffZ	1345	57.0	#-242
5	-EPZ	2110	43.0	#-232	7	-EXZ	1347	13.4	#-242
5	+EPZ	2219	37.6		7	-EPZ	1417	20.4	
6	+EPZ	0002	27.0	#-233	7	+EPZ	1519	6.0	
6	-EPcPZ	0002	30.2	#-233	7	+EPZ	1551	45.0	
6	-EpPZ	0004	25.0	#-233	7	+EPZ	1552	19.2	
6	+EPZ	0227	15.2	#-234	7	-EPZ	1613	2.2	
6	-EPZ	0327	20.0	#-235	7	-EPZ	1922	36.4	
6	+EpPZ	0433	36.0	#-236	7	-EPdiffZ	1923	35.0	#-243
6	+EPZ	0615	2.0		7	+EPZ	1957	24.0	#-244
6	-EPZ	0615	14.0		7	-EpPZ	1957	35.4	#-244
6	-EXZ	1153	53.4	#-237	7	+EXZ	2051	25.0	#-245
6	+EXZ	1400	40.0	#-238	7	-EPZ	2058	18.0	
6	-EPZ	1412	20.7		7	+EPZ	2121	17.0	
6	+EPZ	1605	13.4		7	-EPZ	2355	24.0	
6	+EPZ	1614	5.0		8	-EpPZ	0054	40.4	#-246
6	+EPZ	1725	3.6		8	-EPZ	0209	1.2	
6	+EPZ	1821	24.0		8	+IPZ	0210	35.8	#-247
6	+EPZ	2136	21.2		8	+IPcPZ	0210	44.9	#-247
6	+EPZ	2136	34.4		8	+EPZ	0321	5.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
8	+EPZ	0434	28.0		9	+EPZ	1901	9.0	
8	+EPZ	0821	45.6		9	+IPZ	1929	19.4	#-255
8	-EXZ	0905	0.8	#-248	9	+EpPZ	1929	24.0	#-255
8	+EpPZ	0905	13.8	#-248	9	+EPZ	2305	33.0	
8	+EPZ	1029	45.0		9	-EPZ	2305	42.6	
8	-EPdiffZ	1108	20.2	#-249	9	+EPZ	2305	52.0	
8	+EPZ	1111	28.0		10	+EPZ	0021	18.4	
8	+IPZ	1220	40.4		10	+EPZ	0111	1.9	
8	+EPZ	1220	53.0		10	+IPZ	0159	25.2	
8	+EPZ	1250	6.0		10	+IPZ	0159	32.2	
8	+EPZ	1413	17.0		10	ESH	0208	56.4	
8	+EPZ	1811	17.0		10	-EPZ	0302	0.0	
8	-EPZ	1811	30.3		10	+EPZ	0519	15.0	
8	-EPZ	2015	57.8		10	+EPZ	0609	1.9	
8	+EPZ	2123	11.0		10	-EPZ	1045	20.0	
8	-EPZ	2339	3.9		10	+EPZ	1154	59.0	
9	-EPZ	0252	24.2	#-250	10	+EPZ	1155	10.0	
9	+EpPZ	0252	29.2	#-250	10	-EPZ	1155	40.0	
9	+EPZ	0305	25.4		10	-EPZ	1601	38.5	#-256
9	-EPZ	0521	53.8	#-251	10	-IPcPZ	1601	45.2	#-256
9	-EPcPZ	0521	57.0	#-251	10	+EPZ	2015	9.6	
9	+EPZ	0531	23.6	#-252	10	+EPZ	2037	42.0	
9	+EPcPZ	0531	27.4	#-252	11	+EPZ	0154	40.8	
9	-EPZ	0612	3.6	#-253	11	-EPZ	0308	38.8	
9	+EpPZ	0612	25.0	#-253	11	-EPZ	0308	44.4	
9	+EPZ	0855	38.6	#-254	11	-IPZ	0308	50.0	
9	-EpPZ	0855	39.0	#-254	11	+EPZ	0320	21.4	
9	ESH	0900	42.0	#-254	11	+EPZ	0542	5.0	
9	+EPZ	1000	0.0		11	+EPZ	0719	36.2	
9	+EPZ	1000	1.2		11	-IPZ	0719	39.0	
9	+EPZ	1406	29.0		11	-IPZ	0719	46.8	
9	-EPZ	1406	38.4		11	-EPZ	0923	26.8	
9	+EPZ	1643	48.2		11	+EPZ	1155	11.4	
9	+EPZ	1901	4.0		11	+EPZ	1155	15.0	
9	+IPZ	1901	5.0		11	-EPZ	1155	26.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	+EPZ	1809	0.4		13	-EPZ	1023	41.6	#-266
11	+EPZ	1809	12.8		13	+EPcPZ	1023	54.1	#-266
11	-EPZ	1856	36.6		13	-EPZ	1322	6.2	
11	+EPZ	2043	3.0		13	+EPZ	1459	21.0	#-267
11	+EPZ	2044	1.4		13	-EsPZ	1459	38.8	#-267
12	-EPZ	0140	38.4		13	+EPZ	1908	6.6	
12	-EPdiffZ	0457	0.7	#-257	13	-EPZ	2008	12.0	
12	-EXZ	0500	6.6		13	-IPZ	2126	49.4	
12	+EPZ	0615	3.0		13	-IPZ	2126	56.4	
12	-EPZ	0851	7.0		13	+EPZ	2219	31.0	
12	+EPZ	0940	36.4	#-258	14	-EPZ	0236	22.0	
12	+EPcPZ	0940	40.0	#-258	14	-EXZ	0348	48.0	#-268
12	-EPZ	1025	21.6		14	+EXZ	0422	24.5	#-269
12	-EPZ	1332	3.8		14	-EpPZ	0422	33.6	#-269
12	-EPZ	1425	22.2	#-259	14	+EPZ	0608	39.4	#-270
12	+EPcPZ	1425	31.4	#-259	14	-EPZ	0641	0.8	
12	-EPZ	1524	18.2		14	-EPZ	0717	50.2	#-271
12	-EPZ	1532	40.5		14	-IPZ	0832	51.2	
12	+EPZ	1606	3.6		14	-IPZ	0832	54.9	
12	+EPZ	1820	35.2	#-260	14	ESH	0843	45.0	
12	+IXZ	1820	50.0	#-260	14	+EPZ	1154	2.7	
12	-EPZ	1902	6.4		14	-EPZ	1210	28.5	
12	+EPZ	2025	23.4		14	+EPcPZ	1420	38.0	#-272
12	-EPZ	2325	3.2		14	+EPZ	1554	5.0	
13	+EPZ	0059	2.8	#-261	14	+EPZ	1554	10.0	
13	+EsPZ	0059	8.4	#-261	14	+EPZ	1626	13.3	
13	+EPZ	0223	27.6		14	+EPZ	1718	35.0	
13	-EXZ	0610	33.0	#-262	14	+EPZ	1820	29.0	#-273
13	-EPcPZ	0610	36.2	#-262	14	+EPZ	2009	27.7	
13	-EPZ	0611	29.0	#-263	14	-EPZ	2114	30.6	
13	+EPZ	0721	3.0		14	-IPZ	2252	22.8	
13	+IpPZ	0802	10.0	#-264	14	-IPZ	2252	25.0	
13	+IPcPZ	0802	19.6	#-264	14	-EPZ	2252	29.4	
13	+IPZ	0922	7.8	#-265	14	+IPZ	2316	43.0	
13	-IPcPZ	0922	12.6	#-265	14	-EPZ	2351	42.0	#-274

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	-IPZ	0145	42.6		17	+EPZ	1846	10.0	
15	-EPZ	0201	47.6	#-275	17	-EPZ	2205	40.8	
15	-EPZ	0245	0.0		17	-EPZ	2351	1.4	
15	+EPZ	0402	4.8		18	-EPZ	0217	2.2	#-286
15	+EPZ	0402	9.4		18	-EpPZ	0217	14.6	#-286
15	-IPZ	0418	31.4		18	-EPZ	0243	11.0	
15	-EPZ	0605	14.0	#-276	18	-EPZ	0243	16.0	
15	-IPZ	1013	45.0		18	+EPZ	0311	9.4	
15	+EPZ	1309	26.2		18	-EPZ	0503	24.2	#-287
15	+EPZ	1309	35.0		18	-EPcPZ	0503	25.8	#-287
15	+IPZ	1420	47.8	#-277	18	-EPZ	0824	36.4	
15	+IPcPZ	1420	49.6	#-277	18	-EPZ	0824	40.0	
15	+EPZ	1429	9.3		18	+EPZ	1213	36.0	
15	+EPZ	1717	22.0		18	+EPZ	1234	19.7	
15	+IPZ	2211	1.2	#-278	18	+EPZ	1604	16.0	
16	-EPZ	0229	50.9	#-279	18	+EPZ	1850	17.6	
16	-EPZ	0312	41.0		18	+EPZ	1850	21.0	
16	+EPZ	0623	17.2		18	+EXZ	1928	0.4	#-288
16	+EPZ	1124	37.0	#-280	18	+EPZ	2016	15.0	
16	+EPcPZ	1124	45.4	#-280	18	+EPZ	2016	21.8	
16	-EPZ	1352	16.0		18	+EPZ	2311	47.7	#-289
16	+EPZ	1942	0.8		18	+EPcPZ	2311	50.0	#-289
16	+EPZ	2108	9.0		18	-EPZ	2355	40.8	
16	-EPZ	2207	26.2		19	+IPZ	0316	31.6	
16	+EPZ	2207	32.7		19	+EXZ	0330	23.3	#-290
17	-EPZ	0209	56.8	#-281	19	-EPZ	0408	20.0	
17	+EPZ	0317	12.0		19	+EPdiffZ	0610	38.0	#-291
17	-EPZ	0418	4.8		19	+EPZ	0719	9.2	
17	+EPZ	0811	44.8	#-282	19	-EPZ	0838	34.6	
17	+EPZ	0923	26.6		19	-IPZ	0838	37.0	
17	+EPZ	1139	36.4	#-283	19	+EPcPZ	0841	3.0	#-292
17	-EPZ	1242	25.2	#-284	19	-EPZ	1003	1.0	
17	-EXZ	1305	11.6	#-285	19	+EPZ	1230	2.5	
17	+EpPZ	1305	23.4	#-285	19	-EPZ	1250	10.0	
17	-EPZ	1440	29.0		19	+EPZ	1434	31.7	#-293

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
19	+EPZ	1523	19.8	#-294	21	-IPZ	0923	29.0	#-303
19	+EXZ	1524	1.4	#-264	21	-IPcPZ	0923	30.0	#-303
19	+EXZ	1620	43.6	#-295	21	+EPZ	1406	35.1	
19	+EPZ	2028	25.0		21	+EPZ	1655	10.4	
19	+IPZ	2123	41.0		21	+EPZ	1952	25.0	#-304
19	+EPZ	2254	7.0		21	+EpPZ	1952	27.6	#-304
19	+EXZ	2345	1.6	#-296	22	-IPZ	0020	32.0	
20	+EPZ	0106	7.8		22	-IPZ	0020	51.0	
20	+EPZ	0124	26.2		22	+EPZ	0103	14.0	#-305
20	-EPZ	0240	9.4		22	+EPZ	0653	24.4	
20	-IPZ	0240	12.8	#-297	22	+EXZ	1058	1.4	#-306
20	+EPZ	0316	14.3		22	-IXZ	1058	23.0	#-306
20	-EPZ	0435	25.4		22	+IPZ	1215	6.2	#-307
20	+EPZ	0605	17.0		22	-EPcPZ	1215	9.5	#-307
20	-EPZ	0628	1.0		22	-EPZ	1426	19.6	#-308
20	+EPZ	1038	1.4		22	+EsPZ	1527	35.4	#-309
20	-EPZ	1128	31.4		22	+IPZ	1556	20.0	
20	+EPZ	1408	36.0	#-298	22	+EPZ	1811	16.9	
20	+EPZ	1412	52.0		22	-EPZ	1811	23.8	
20	-IPZ	1413	0.4		23	+EPZ	0043	28.4	
20	-IPZ	1432	0.4		23	+EPZ	0123	11.0	
20	+EPZ	1540	4.8		23	-EPZ	0417	12.4	#-310
20	-IXZ	1924	34.0	#-299	23	-EPcPZ	0417	15.0	#-310
20	+EPZ	2112	1.4	#-300	23	-IpPZ	0518	25.0	#-311
20	-EPZ	2114	8.0		23	+EsPZ	0518	28.5	#-311
20	-EPZ	2114	21.4		23	+EPZ	0632	12.6	
21	+EPcPZ	0007	19.2	#-301	23	-IPZ	0632	15.0	
21	+EPZ	0123	19.0		23	-IPZ	0930	10.6	
21	+EPZ	0206	16.0		23	-EPZ	0930	17.0	
21	+EPZ	0328	13.2		23	+EPZ	1103	30.4	
21	-EPZ	0448	12.4	#-302	23	+EPZ	1320	13.0	#-312
21	+EPcPZ	0448	14.2	#-302	23	-EXZ	1322	21.0	#-312
21	+EPZ	0454	2.2		23	+EPZ	1337	34.5	
21	-EPZ	0734	4.6		23	-EPZ	1338	35.4	#-313
21	+IPZ	0747	27.0		23	+EXZ	1338	48.0	#-313

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
23	+EPZ	1422	28.0		25	+EXZ	0345	12.0	#-323
23	-EPZ	1422	34.0		25	-EPZ	0517	41.8	#-324
23	-EPZ	1424	3.0		25	+EXZ	0517	44.2	#-324
23	-EPPZ	1429	7.0	#-314	25	-EXZ	0523	8.0	#-324
23	+EPZ	1512	36.0		25	+IXZ	0634	40.7	#-325
23	+EPZ	1635	29.3		25	+IPKiKPZ	0634	49.2	#-325
23	-IPZ	1838	20.4	#-315	25	+EPdiffZ	0635	5.4	#-326
23	-EpPZ	1838	32.4	#-315	25	+EPdiffZ	0715	29.8	#-327
23	+EPZ	1904	22.0		25	+IPZ	1555	36.5	
23	+EPZ	2028	30.6		25	-EPZ	1602	27.0	
23	+IPZ	2028	34.4		25	+EPdiffZ	1708	55.0	#-328
24	+IPZ	0008	4.4		25	-IXZ	1711	25.3	#-328
24	-EPZ	0008	13.2		25	+EPZ	2117	52.0	#-329
24	-EPZ	0132	37.6		25	-EPcPZ	2117	55.6	#-329
24	+EPZ	0215	51.4	#-316	26	-EPZ	0040	51.0	#-330
24	+EPZ	0252	52.0	#-317	26	+EPZ	0125	29.0	
24	+EPZ	0511	7.0		26	-EPZ	0254	37.5	
24	-EPZ	0617	15.6		26	-EPZ	0254	41.0	
24	-EPZ	0617	20.0		26	-EPZ	0258	44.0	#-331
24	+EPZ	0702	20.4	#-318	26	+EPcPZ	0258	47.0	#-331
24	-EPZ	0910	45.0		26	-IXZ	0533	44.8	#-332
24	+EXZ	1320	0.4	#-319	26	-IpPZ	0533	43.6	#-332
24	-EPZ	1333	31.2		26	-EpPZ	0611	44.4	#-333
24	+EPZ	1424	45.4	#-320	26	+EpPdiffZ	0633	10.9	#-334
24	+EpPZ	1424	54.0	#-320	26	-IXZ	0636	19.2	#-334
24	-EPZ	1731	26.6		26	+IpPKPdfZ	0636	29.0	#-334
24	+EPZ	1852	10.2		26	+EPZ	0820	44.0	#-335
24	-EPZ	1852	15.0		26	-EPZ	0856	32.6	
24	-EPcPZ	1925	20.0	#-321	26	+EXZ	0935	27.0	#-336
24	+EPZ	1948	50.4		26	+EXZ	1123	25.3	#-337
24	-EPZ	2005	3.0		26	+EpPdiffZ	1123	32.0	#-337
25	-EPZ	0013	13.7		26	+EPZ	1129	26.6	#-338
25	+EPZ	0101	37.0		26	-EPZ	1224	46.8	#-339
25	+EPZ	0213	36.0	#-322	26	+EPcPZ	1325	35.0	#-340
25	+EpPZ	0213	39.6	#-322	26	+EPZ	1402	20.0	#-341

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
26	-EPcPZ	1402	27.9	#-341	27	-EPZ	1555	24.0	
26	+EPZ	1418	6.4		27	+EPZ	1645	45.3	
26	+EPZ	1532	12.3		27	+EPZ	1712	31.8	
26	+EPZ	1625	39.5	#-342	27	-EPZ	1945	15.0	
26	-EPcPZ	1625	45.4	#-342	27	+EPZ	1945	25.2	
26	+EPZ	1712	37.4		27	+EPZ	2023	50.6	#-353
26	+EPZ	1712	40.3		27	-IPcPZ	2023	56.0	#-353
26	+IPZ	1851	26.2		27	+IPZ	2046	15.9	
26	+EpPZ	1949	35.4	#-343	27	+EPZ	2138	8.8	
26	-EPZ	2201	12.0		27	-EPZ	2336	6.4	
26	+EPZ	2342	9.2		28	-EPZ	0246	15.7	
27	-EPZ	0126	5.0		28	-EPZ	0552	57.4	
27	+IpPdifZ	0126	26.0	#-344	28	-IXZ	0553	6.0	#-354
27	+EPZ	0143	1.2		28	+EPZ	0811	52.0	
27	-EPZ	0147	27.0	#-345	28	+EPZ	1147	9.2	
27	+EPZ	0236	12.4		28	+EPZ	1202	46.9	
27	-EPZ	0314	14.2	#-346	28	-IPZ	1314	55.0	
27	-EPZ	0315	4.2		28	-EPZ	1315	30.6	#-355
27	+IPZ	0339	22.4		28	+EPZ	1520	33.8	
27	-EPZ	0339	56.8	#-347	28	+IPZ	1543	47.0	
27	-IpPnZ	0340	2.0	#-347	28	-IPZ	1543	49.0	
27	-EPdiffZ	0400	4.0	#-348	28	-EPZ	2139	24.2	
27	+IpPdiffZ	0400	21.0	#-348	29	+EPZ	0004	39.0	#-356
27	+EPZ	0524	13.6		29	-EPcPZ	0004	42.4	#-356
27	+IPZ	0625	10.1		29	+EPZ	0115	30.0	
27	+IPZ	0805	11.9		29	-IXZ	0142	15.8	#-357
27	-IPZ	0851	5.4		29	-IpPKPdfZ	0142	31.5	#-357
27	-EPZ	1044	6.5		29	+EPZ	0252	10.8	
27	+IXZ	1211	10.6	#-349	29	+EPZ	0505	45.0	
27	+EPZ	1406	38.6	#-350	29	+EPZ	0718	2.4	#-358
27	-EPcPZ	1406	39.9	#-350	29	-EPcPZ	0718	5.0	#-358
27	+EPZ	1446	43.0	#-351	29	+EPZ	0744	35.8	
27	+IPZ	1507	5.9	#-352	29	-EpPdiffZ	0916	5.4	#-359
27	-EpPZ	1507	10.0	#-352	29	+EPZ	1005	18.0	
27	-EPZ	1550	26.9		29	+EPZ	1024	14.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	+EPZ	1155	58.0		2	+EPZ	1727	1.5	
29	-EXZ	1156	1.0	#-360	2	-EPZ	1839	9.0	
29	+EPZ	1710	19.0		2	-EPZ	1907	30.0	
29	+EPZ	2004	15.2		2	+EPZ	2025	10.0	
29	-EPZ	2212	15.0	#-361	2	-EPZ	2045	22.6	
29	-EPcPZ	2212	20.0	#-361	2	+EPZ	2105	15.8	
29	-EXZ	2248	41.0	#-362	2	-EPZ	2321	6.0	
29	+EPKpdfZ	2251	29.6	#-362	3	-EPdiffZ	0615	30.0	#-369
Mar.					3	-EPZ	0820	2.0	
1	+EXZ	0056	47.0	#-363	3	-EPZ	1112	45.4	#-370
1	-EPZ	0112	39.4	#-364	3	-IpPZ	1112	56.5	#-370
1	+EPZ	0128	16.6		3	-IPZ	1232	14.6	#-371
1	+EPZ	0229	8.3		3	-IpPZ	1232	18.7	#-371
1	+EPZ	0248	14.0		3	ESH	1242	28.3	#-371
1	+EPZ	0428	23.6		3	+EPZ	1423	13.0	
1	+EPZ	0720	22.2		3	+EPZ	2153	16.0	
1	+IXZ	1659	42.2	#-365	3	+IPZ	2223	29.6	#-372
1	+EPKiKPZ	1659	49.0	#-365	3	+IpPZ	2223	38.4	#-372
1	-EPZ	1802	13.0		4	+EPZ	0103	33.0	
1	+EPZ	1852	29.0	#-366	4	+EPZ	0432	51.2	
1	-EpPZ	1852	47.0	#-366	4	-EPZ	0517	4.4	
1	+EPZ	1939	30.8		4	+EPZ	0908	49.4	
1	-EPZ	2333	18.2		4	-EPZ	1036	15.6	
2	+EPZ	0108	21.0		4	-EPZ	1036	19.6	
2	+EPZ	0441	20.3		4	+EPZ	1146	5.0	
2	+EXZ	0522	44.0	#-367	4	+EPZ	1219	28.0	
2	+IPcPZ	0522	46.2	#-367	4	-EPZ	1238	5.0	
2	+EPZ	0902	25.8		4	-EXZ	1301	21.7	#-373
2	+IPZ	1030	41.6		4	-EPcPZ	1301	32.8	#-373
2	+EPZ	1122	12.6		4	+EPZ	1400	24.0	
2	+EPZ	1515	31.4		4	+EPZ	1545	29.3	
2	+EPZ	1615	5.1		4	+EPZ	1617	51.8	#-374
2	+EXZ	1708	6.2	#-368	4	-EPZ	1639	6.2	#-375
2	+EPKiKPZ	1708	14.0	#-368	4	+EpPZ	1639	19.4	#-375
2	-EXZ	1708	24.0	#-368	4	+EsPZ	1639	25.6	#-375

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
4	-EPZ	1722	1.8		6	+EsPZ	2248	7.6	#-385
4	+EPZ	1939	4.0		7	+EPZ	0350	37.1	
4	+EPZ	2026	0.4		7	+IPZ	0732	5.6	
4	+EPZ	2026	4.0		7	-EPcPZ	0732	7.4	#-386
4	-EPZ	2111	4.7		7	-EPZ	1213	41.4	#-387
4	+EPZ	2204	1.6		7	+EPcPZ	1213	45.4	#-387
4	+EPcPZ	2329	3.0	#-376	7	+EPZ	1208	47.1	#-388
5	+EPZ	0410	18.0		7	-EPZ	2239	27.0	
5	-EXZ	0526	35.4	#-377	7	+EPZ	2241	41.0	#-389
5	-EPcPZ	0526	44.5	#-377	7	+EXZ	2258	11.0	#-390
5	+EPKiKPZ	0643	35.0	#-378	8	-EPZ	0012	16.0	#-391
5	+EpPKPdz	0643	45.4	#-378	8	-EPcPZ	0012	29.0	#-391
5	+EPZ	0707	50.0	#-379	8	+EPZ	0404	12.6	#-392
5	-IPZ	0756	14.0	#-380	8	+EPZ	0506	26.2	
5	ESH	0804	31.0	#-380	8	+EPZ	1547	37.1	
5	-EPZ	0824	7.0		8	+EPZ	1637	26.4	
5	+EPZ	0825	17.4		8	-EPZ	2024	27.0	
5	+EpPZ	0951	13.0	#-381	8	+EPKiKPZ	2308	37.2	#-393
5	+EPZ	0953	31.0		8	+EXZ	2308	43.4	#-393
5	+EPZ	1226	30.4		9	-EPZ	0722	21.8	#-394
5	-EPZ	1521	33.4		9	-IXZ	0722	24.2	#-394
5	+EPZ	1559	11.4		9	+IpPZ	0722	34.1	#-394
5	+EPZ	1653	12.6		9	+EPZ	0749	13.0	#-395
5	+EPZ	1949	12.0		10	+EPZ	0238	42.0	#-396
5	+IPZ	2229	30.0		10	-EPcPZ	0238	54.0	#-396
5	+IPZ	2229	33.0		10	+EPZ	0859	14.0	
5	-EXZ	2320	19.0	#-382	10	-EPZ	1612	31.6	#-397
6	+EPZ	0305	22.4	#-383	10	-EPZ	1826	57.4	
6	+EPZ	0352	18.7		10	+EPZ	1837	23.7	#-398
6	+EPZ	0557	12.4		10	-EPcPZ	1837	41.0	#-398
6	-EPZ	0647	14.9		10	+EPZ	1843	10.6	
6	+EPZ	0822	10.4		10	+EPZ	2008	32.0	
6	+EXZ	1148	37.4	#-384	10	+IPZ	2110	43.0	#-399
6	+EPZ	1424	45.6		10	+EPdiffZ	2208	24.4	#-400
6	-EPZ	1451	22.6		10	+EPZ	2247	29.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	+EPZ	0756	40.2	#-401	14	+EXZ	0752	35.8	#-419
11	-EPZ	1045	20.6		14	-IPKpdfZ	0927	50.2	#-420
11	-EPcPZ	1123	8.1	#-402	14	-IPKiKPZ	0927	51.9	#-420
11	-EPZ	1416	6.6		14	-IPPZ	0930	15.0	#-420
11	+EpPZ	1621	24.4	#-403	14	+IPZ	1101	21.2	
11	-EPZ	1822	46.0	#-404	14	+IPKpdfZ	1108	39.2	#-421
11	+EPKpdfZ	1922	44.2	#-405	14	+EPPZ	1111	7.4	#-421
11	-EPZ	2238	0.6	#-406	14	-EXZ	1105	10.0	#-422
11	-EpPZ	2238	3.8	#-406	14	-EPdiffZ	1113	44.6	#-423
12	-EPZ	0000	33.4		14	-EPdiffZ	1156	27.8	#-424
12	+EPZ	0000	39.2		14	+EpPKiKPZ	1159	39.0	#-424
12	+EPZ	0140	49.4	#-407	14	-IPKpdfZ	1224	6.2	#-425
12	+EPZ	0720	4.0		14	+IPKiKPZ	1224	10.1	#-425
12	+EPZ	1209	13.0		14	-EPZ	1917	44.8	#-426
12	+EsPdiffZ	1249	53.4	#-408	14	-IPZ	2126	13.4	#-427
12	+EPKpdfZ	1251	56.6	#-408	14	-IpPZ	2126	25.0	#-427
12	+EPZ	1808	14.0	#-409	15	-EPZ	1125	22.2	#-428
12	+EPZ	1948	4.6	#-410	16	-IXZ	0057	34.0	#-429
12	-EPZ	2012	6.4		16	-EPZ	0517	22.6	
12	-EPZ	2140	0.0		16	-EPZ	0954	19.6	
12	+EPZ	2247	20.0		16	+EPZ	1341	26.2	#-430
13	-EPZ	0249	46.0	#-411	16	+IPZ	1341	27.4	#-430
13	-EPcPZ	0250	39.0	#-411	16	+EPZ	1656	41.3	
13	+EPZ	0311	29.4		16	+EXZ	1855	12.4	#-431
13	-EPZ	0456	0.2		16	+EPZ	2342	31.8	#-432
13	-EPZ	1835	8.6	#-412	17	-IXZ	0200	38.0	#-433
13	-EPcPZ	1835	15.0	#-412	17	+IPcPZ	0200	42.7	#-433
13	+EPZ	1920	36.6		17	-EpPZ	0308	41.6	#-434
13	-EPZ	1927	46.6	#-413	17	+EPZ	0632	31.3	#-435
13	+EXZ	1956	6.4	#-414	17	-EPcPZ	0632	35.9	#-435
13	+EXZ	2321	38.5	#-415	17	+EPZ	1600	55.0	#-436
13	+EPZ	2328	54.8	#-416	17	+IPZ	1712	34.0	#-437
13	-EPcPZ	2328	57.5	#-416	17	+EPZ	2001	51.2	#-438
14	+IXZ	0521	12.4	#-417	18	-EPZ	0211	30.0	#-439
14	-EXZ	0706	56.6	#-418	18	-EsPZ	0211	36.0	#-439

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
18	+IPZ	0450	1.6		20	-EPdiffZ	1850	55.0	#452
18	-IPZ	0450	5.4		20	+EpPdiffZ	1918	10.8	#453
18	+EPZ	1736	40.0		20	-EPZ	2119	32.8	#454
18	+EPZ	1736	45.6		20	-EPZ	2152	5.6	
19	-EXZ	0243	28.0	#440	20	+EPZ	2152	13.4	
19	-EPZ	0517	33.3	#441	20	-EPZ	2302	3.0	
19	-EXZ	0517	35.0	#441	20	-EPZ	2311	17.8	#455
19	+EPZ	1227	10.0		20	+EPcPZ	2311	39.1	#455
19	-EPZ	1355	25.8	#442	21	-EPZ	0006	1.6	
19	+EPcPZ	1355	27.3	#442	21	+EXZ	0018	11.0	#456
19	+IPZ	1751	26.2		21	-EPZ	0251	26.5	
19	+EPZ	2012	19.9	#443	21	+EXZ	0315	9.6	#457
19	-EPZ	2204	1.4	#444	21	+EPZ	1109	38.4	
19	+EPZ	2257	39.0		21	+EPZ	1804	2.8	
19	-EPZ	2328	10.8		21	+EPZ	1906	40.0	
19	+IPZ	2328	12.0		21	+IPZ	2227	50.9	#458
19	-IPZ	2359	46.6	#445	21	ESH	2238	29.4	#458
19	+EpPZ	2359	51.0	#445	22	-EPZ	0034	30.7	#459
20	-EPZ	0302	0.0		22	+EPZ	0315	22.0	
20	+EPZ	0526	14.0		22	+EPZ	0747	22.8	
20	+EPZ	0711	37.0		22	-IPZ	1312	1.4	#460
20	+EXZ	0714	10.0	#446	22	-IPcPZ	1312	2.8	#460
20	-EPZ	0926	16.8		22	-EPZ	1851	54.0	#461
20	+EXZ	1031	25.0	#447	22	-IPcPZ	1851	57.9	#461
20	-EPZ	1115	48.0		22	-EPZ	1933	25.4	
20	+EPZ	1518	19.8	#448	22	+EPZ	2014	30.0	
20	-EPZ	1809	10.6	#449	23	+EPZ	0920	1.2	
20	-IPcPZ	1809	12.4	#449	23	-EPZ	0936	6.5	#462
20	-IpPZ	1809	29.6	#449	23	-IPZ	0936	9.2	#463
20	-IsPZ	1809	35.4	#449	23	+EXZ	1145	45.4	#464
20	-EXZ	1818	0.0	#450	23	-EPZ	1516	38.0	#465
20	-EPKpdfZ	1821	40.0	#450	23	-EpPZ	1547	33.2	#466
20	-IPdiffZ	1829	47.0	#451	23	+EPZ	1716	17.9	
20	-EpPdiffZ	1829	55.0	#451	23	+EPZ	1936	22.0	
20	-EPZ	1850	6.0		23	+EPZ	2112	4.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
23	+EPZ	2159	32.0		25	+IXZ	2313	42.0	#483
23	-EPZ	2159	40.0		25	+IXZ	2317	2.0	#483
23	-EPZ	2205	6.0		26	-EPZ	0147	38.6	
24	+EXZ	0452	46.0	#467	26	-EXZ	0147	53.8	#484
24	+EPZ	0705	19.0	#468	26	+EXZ	0218	13.2	#485
24	-EPcPZ	0705	21.8	#468	26	-EpPZ	0218	23.4	#485
24	-EXZ	0739	26.2	#469	26	+EPZ	0324	13.8	
24	+EpPZ	0739	37.4	#469	26	+IPZ	0414	14.0	
24	+EPZ	1451	29.6	#470	26	+IXZ	0540	3.5	#486
24	+EpPZ	2228	22.2	#471	26	-IPZ	0816	3.8	
24	+EPZ	2315	11.0		26	+EPZ	0952	34.2	
24	+EPZ	2315	12.9		26	-EPPZ	0955	16.6	#487
25	+IPZ	0115	15.0	#472	26	-EPdiffZ	1049	54.6	#488
25	-IsPZ	0115	19.8	#472	26	+EPZ	1133	29.8	#489
25	ESH	0123	3.0	#472	26	+EPZ	1320	54.6	#490
25	+EPZ	0149	2.6		26	-IXZ	1401	50.0	#491
25	-EPZ	0316	30.2		26	+IPZ	1413	6.4	
25	+IPcPZ	0656	6.2	#473	26	-EXZ	1413	55.8	#492
25	-EPZ	1032	25.2	#474	26	-EPZ	1634	35.2	
25	+IPZ	1032	30.4	#474	26	-EPZ	1634	37.2	
25	-IPdiffZ	1338	20.0	#475	26	-EPZ	1705	50.8	#493
25	+EPZ	1341	20.1		26	+IpPZ	1705	55.4	#493
25	+IPZ	1411	17.2	#476	26	-EPZ	1711	34.2	#494
25	+IPcPZ	1411	20.2	#476	26	+EPZ	1759	29.4	#495
25	-EpPZ	1413	12.4	#476	26	-IPPZ	1808	32.0	
25	+EXZ	1511	12.0	#477	26	-EPdiffZ	1811	15.0	#496
25	-EPZ	1525	17.0		26	-IXZ	1813	18.0	#497
25	-EPZ	1711	54.0	#478	26	-EPdiffZ	1827	52.2	#498
25	+EXZ	1720	25.0	#479	26	-IPZ	2115	0.0	#499
25	+EPZ	1815	40.0		26	-EpPZ	2115	15.8	#499
25	-EXZ	2058	40.2	#480	26	-EPZ	2234	11.0	#500
25	-EPZ	2200	44.8	#481	26	+EpPZ	2234	28.4	#500
25	-IPZ	2247	37.9	#482	26	+IPZ	2352	49.0	#501
25	-IpPZ	2247	49.6	#482	26	+IPZ	2358	16.6	
25	ESH	2256	31.6	#482	27	-EXZ	0020	16.0	#502

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
27	-EPZ	0914	38.2	#-503	30	+EPcPZ	2214	32.2	#-520
27	+EPZ	1115	45.9		30	+EXZ	2248	30.1	#-521
27	-IpPKiKPZ	1120	3.0	#-504	30	+EPZ	2318	14.2	#-522
27	-EPZ	1247	13.2		31	-EPZ	0008	8.0	
27	+EPZ	1404	23.4	#-505	31	+EPZ	0623	45.9	
27	-EpPZ	1404	32.8	#-505	31	-EPZ	0722	4.0	
27	-EPZ	1458	25.2	#-506	31	+EPZ	0916	6.0	#-523
27	+EPZ	1756	37.8	#-507	31	+EPcPZ	0916	9.2	#-523
27	+IPZ	1840	8.0		31	-EpPZ	1251	17.0	#-524
27	+IpPdiffZ	2354	12.0	#-508	31	+EXZ	1313	20.0	#-525
27	-IsPdiffZ	2357	15.0	#-508	31	-EPZ	1719	18.0	#-526
27	+EPZ	2354	24.1		31	-IPcPZ	1719	21.4	#-526
28	+EPZ	0835	11.6	#-509	31	+EPZ	1729	23.6	
28	-EpPZ	0835	14.0	#-509	31	+EPZ	1743	0.6	
28	-EPZ	0917	56.4		31	+EPZ	1913	23.8	#-527
28	+IPZ	1211	40.0		Apr.				
29	+EPZ	0042	31.4	#-510	1	-EXZ	0019	46.0	#-528
29	+EpPZ	0042	33.3	#-510	1	+EPZ	0417	23.7	#-529
29	-EPZ	0148	8.2	#-511	1	+EPZ	0604	12.6	
29	+EPZ	0305	7.2	#-512	1	+EPZ	0743	7.0	#-530
29	+EPcPZ	0305	10.6	#-512	1	-EPcPZ	0743	18.8	#-530
29	+IPZ	0517	39.0		1	-EPZ	0753	57.8	#-531
29	-IPZ	0517	45.6		1	+EPZ	1148	15.4	
29	-IPZ	1526	5.4	#-513	1	-IPZ	1322	47.4	#-532
29	+EPcPZ	1526	10.2	#-513	1	-IXZ	1322	54.4	#-532
30	-EPZ	0527	41.8	#-514	1	+EXZ	1420	21.6	#-533
30	+IXZ	0630	48.6	#-515	1	+EXZ	1920	39.0	#-534
30	+IpPZ	0630	53.4	#-515	1	-IPZ	2157	6.4	#-535
30	-EPZ	0908	27.0	#-516	1	-EXZ	2239	1.6	#-536
30	-EPZ	0950	34.2	#-517	2	-EPZ	0214	24.0	
30	-EPcPZ	0950	36.8	#-517	2	+EPZ	0214	32.0	
30	-IpPZ	1338	21.0	#-518	2	-EPZ	0627	26.4	
30	-EPZ	1627	13.6		2	+EXZ	0648	15.0	#-537
30	+EPZ	2004	9.0	#-519	2	-EPZ	0812	18.8	
30	-IPZ	2214	25.0	#-520	2	+EXZ	0830	11.8	#-538

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
2	-EPZ	1144	9.8		6	+EPZ	0120	7.3	
2	+EPZ	1754	7.8		6	-EXZ	0203	20.7	#-554
2	+EPZ	1823	37.0	#-539	6	+EPZ	0406	38.6	
2	-EPZ	2258	53.4	#-540	6	+EPZ	0541	19.1	
3	+EXZ	0010	13.2	#-541	6	-EPZ	0611	30.8	
3	+EPZ	0017	30.4		6	-EPZ	0640	48.4	#-555
3	-EPZ	0221	45.4	#-542	6	+EPZ	1022	27.6	
3	+IPZ	0321	24.0	#-543	6	-EPZ	1223	29.2	#-556
3	-IpPZ	0321	39.2	#-543	6	+EPZ	1246	20.0	
3	+EPZ	0722	9.9		6	+EPZ	1246	20.0	
3	-EXZ	0737	6.0	#-544	6	-EPZ	1335	25.0	#-557
3	-IpPZ	0737	25.0	#-544	6	+EpPZ	1335	32.9	#-557
3	+EPZ	1055	39.7	#-545	6	-IXZ	1629	1.4	#-558
3	+EPZ	1138	29.0	#-546	6	-IsPZ	1629	47.4	#-558
3	-EXZ	1332	16.8	#-547	6	ESH	1640	2.6	#-558
3	+EPZ	1532	49.6	#-548	6	+EPZ	1720	17.2	
3	-EPZ	2040	19.0		6	+EPZ	1754	18.2	#-559
3	-EPZ	2214	16.0		6	+EpPZ	1936	10.4	#-560
3	+IPZ	2355	0.0	#-549	6	-IXZ	1938	55.0	#-560
3	-IPcPZ	2355	4.2	#-549	6	-IPZ	1938	7.0	#-561
4	+EXZ	0704	27.4	#-550	6	+EPZ	2207	23.0	
4	+EPZ	1223	19.0		6	+EXZ	2242	27.6	#-562
4	-EPZ	1633	38.0	#-551	7	-EPZ	0016	24.0	
4	-EPZ	1923	0.0		7	-EPZ	0112	15.6	
4	+EXZ	2254	39.5	#-552	7	+EPZ	0803	14.4	
4	+EPZ	2341	2.1		7	-EPZ	0913	2.0	
5	-EPZ	0307	17.0		7	-EPZ	0856	30.6	#-563
5	+IPZ	1505	28.0		7	+EPcPZ	0856	33.4	#-563
5	+EPZ	1814	20.8		7	-IPZ	1211	3.2	#-564
5	+EPZ	1814	39.2		7	+EPcPZ	1211	6.2	#-564
5	-EPZ	2002	19.7		7	+EpPZ	1211	11.0	#-564
5	-IPZ	2002	25.0		7	-EPZ	1403	39.0	
5	ESH	2010	40.8		7	+EpPZ	1652	28.6	#-565
5	-EXZ	2315	10.2	#-553	7	+EXZ	1924	17.3	#-566
5	+EpPZ	2315	16.9	#-553	7	+EPZ	2016	8.9	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
7	-EPZ	2022	4.8	#-567	10	+EPZ	1922	19.8	
7	-EpPZ	2022	28.0	#-567	10	+EXZ	1953	22.2	#-589
7	+EPZ	2033	20.6		10	+EPZ	2315	3.2	
7	+EPcPZ	2050	22.4	#-568	11	-EXZ	0311	51.6	
7	-EXZ	2055	28.4	#-568	11	-EPZ	0503	44.4	#-590
8	-EPZ	0005	10.4		11	+EPZ	0554	58.0	#-591
8	+EXZ	0008	5.0	#-569	11	+EPZ	0627	50.2	#-592
8	-EPZ	0422	22.0		11	+EPZ	0705	27.6	
8	-EPZ	0423	2.0		11	+EPZ	0705	48.8	#-593
8	+EPZ	1050	42.1	#-570	11	-IPZ	0754	1.6	#-594
8	-EPZ	1121	36.0		11	+EPcPZ	0754	5.8	#-594
8	+EXZ	1309	38.2	#-571	11	-IPZ	0850	41.0	#-595
8	-EsPZ	1524	28.8	#-572	11	+IPZ	0939	0.0	
8	-EpPZ	1633	23.6	#-573	11	-IPZ	0945	0.1	
9	+EPZ	0224	18.9		11	-EPZ	1020	36.8	#-596
9	+EPZ	0235	1.4		11	+EPZ	1033	23.4	#-597
9	+EPZ	0242	0.4		11	-EpPZ	1033	31.6	#-597
9	+EPZ	0407	40.0	#-574	11	-EpPZ	1037	4.8	#-598
9	-EXZ	0529	4.4	#-575	11	+EPZ	1048	54.4	#-599
9	+EPZ	0610	2.4		11	-EXZ	1052	37.5	#-600
9	+EPZ	0613	44.4	#-576	11	-IPZ	1055	7.8	#-601
9	+EPZ	0715	52.5	#-577	11	-IpPZ	1055	15.0	#-601
9	+EpPZ	0851	28.0	#-578	11	-IPZ	1108	17.8	#-602
9	+EPZ	1206	48.0	#-579	11	+IPZ	1146	1.0	#-603
9	-EPZ	2123	35.4		11	-EXZ	1153	27.0	#-604
9	+EPZ	2136	45.4	#-580	11	-EXZ	1157	21.0	#-605
9	+EpPZ	2347	29.9	#-581	11	+EXZ	1204	26.4	#-606
10	-IXZ	0154	17.0	#-582	11	+EXZ	1205	40.2	#-607
10	-EPZ	0202	35.0	#-583	11	+IpPZ	1205	45.4	#-607
10	+EXZ	0316	3.4	#-584	11	+IPcPZ	1205	50.1	#-607
10	+EXZ	0520	53.4	#-585	11	-EPZ	1211	28.6	#-608
10	+EPZ	0725	16.0		11	-IXZ	1212	39.2	#-609
10	-EXZ	1206	10.0	#-586	11	-EPZ	1222	54.0	#-610
10	+EXZ	1313	20.0	#-587	11	+EXZ	1234	7.4	#-611
10	+EPZ	1508	13.2	#-588	11	+EXZ	1234	14.6	#-611

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	+EPZ	1249	57.4	#-612	11	+EXZ	2121	40.0	#-635
11	+EPZ	1305	13.0	#-613	11	+EPZ	2247	41.2	#-636
11	+EPZ	1316	38.8		11	+EPZ	2302	10.0	
11	+EPZ	1325	11.4		11	+EPcPZ	2304	14.9	#-637
11	-EXZ	1327	40.4	#-614	11	+IXZ	2314	3.4	#-638
11	+EPZ	1331	20.5		11	+EXZ	2314	17.6	#-638
11	+EPZ	1331	41.0	#-615	11	-EXZ	2330	35.6	#-639
11	-EPZ	1410	5.9	#-616	12	-EPZ	0008	34.4	#-640
11	-IpPZ	1410	10.4	#-616	12	-EpPZ	0008	38.2	#-640
11	+EPZ	1421	5.8		12	-EPcPZ	0008	46.6	#-640
11	-EPZ	1446	18.0	#-617	12	-IXZ	0013	9.0	#-641
11	+EPZ	1447	47.6	#-618	12	-EpPZ	0013	14.0	#-641
11	+EPZ	1506	30.0	#-619	12	+EPZ	0136	1.6	
11	+EXZ	1518	40.0	#-620	12	+EPcPZ	0136	20.0	#-642
11	+EPZ	1521	28.0	#-621	12	-IPZ	0206	44.6	#-643
11	-EPZ	1521	36.0	#-621	12	+EPcPZ	0206	56.2	#-643
11	+IPZ	1552	47.4		12	+EPZ	0227	47.4	#-644
11	+EXZ	1553	33.8	#-622	12	+EPZ	0252	24.4	
11	+EPZ	1553	52.0	#-623	12	+EPZ	0340	17.8	#-645
11	+EPZ	1609	19.0	#-624	12	+EPZ	0713	50.6	#-646
11	+EXZ	1609	33.8	#-625	12	+EXZ	0722	19.0	#-647
11	+EPZ	1620	23.0		12	+IXZ	0732	25.0	#-648
11	+EpPZ	1621	40.4	#-626	12	-IXZ	0735	6.0	#-648
11	+EPcPZ	1625	45.4	#-627	12	-EPZ	1031	5.8	#-649
11	-EPZ	1708	27.8	#-628	12	+EPZ	1106	22.4	
11	+EXZ	1710	13.3	#-629	12	-EXZ	1321	53.0	#-650
11	-EpPZ	1710	19.0	#-629	12	-EXZ	1321	58.0	#-650
11	+EPZ	1721	17.6		12	+IPZ	1506	28.6	
11	+EpPZ	1725	15.8	#-630	12	+EPZ	1619	52.6	#-651
11	+EPZ	1906	53.0	#-631	12	-EPZ	1838	38.0	#-652
11	+EpPZ	1916	23.4	#-632	12	-IPZ	1938	27.0	
11	+EPcPZ	1916	32.4	#-632	12	-EPZ	2020	42.2	#-653
11	-IXZ	1926	25.6	#-633	12	+EPZ	2034	9.0	#-654
11	+EpPZ	1926	34.4	#-633	12	+EPZ	2039	27.0	#-655
11	-EXZ	2114	50.0	#-634	12	+EPZ	2056	43.4	#-656

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
12	+IPZ	2057	3.9		14	+IXZ	1532	33.6	#-681
12	-EPZ	2322	53.0	#-657	14	-EXZ	1534	6.8	#-682
12	-IpPZ	2322	58.4	#-657	14	+EPZ	1549	15.9	
13	+EPZ	0208	10.3		14	-EXZ	1911	5.0	#-683
13	-EpPZ	0301	11.8	#-658	14	+EXZ	1911	15.9	#-683
13	-EPcPZ	0324	31.4	#-659	14	+IPZ	1938	17.0	#-684
13	+IPZ	0427	40.2	#-660	14	-IPcPZ	1938	31.0	#-684
13	+EpPZ	0427	56.7	#-660	14	-EPZ	1943	25.2	#-685
13	+EXZ	0501	46.2	#-661	14	+EPZ	2100	1.4	#-686
13	+EXZ	0501	55.4	#-661	14	+IXZ	2100	4.0	#-686
13	+EpPZ	0520	22.0	#-662	14	+EpPZ	2122	52.0	#-687
13	+EPcPZ	0552	14.0	#-663	14	-EPZ	2217	48.8	
13	-EXZ	0623	40.8	#-664	14	-IPZ	2217	59.4	#-688
13	+EPdiffZ	1025	49.4	#-665	14	+IPcPZ	2218	2.4	#-688
13	-EXZ	1025	12.4	#-666	14	-EXZ	2237	13.8	#-689
13	-EPZ	1215	16.0		15	+EpPZ	0000	38.2	#-690
13	+EPdiffZ	1227	55.5	#-667	15	-IsPZ	0000	41.0	#-690
13	+EPZ	1236	7.2		15	+EPZ	0146	47.8	
13	-EXZ	1243	15.7	#-668	15	+IPZ	0147	5.0	
13	+EpPZ	1441	12.6	#-669	15	+IPZ	0609	42.4	#-691
13	+EPZ	1604	53.6	#-670	15	+EPcPZ	0609	53.0	#-691
13	-EPZ	1654	26.6	#-671	15	-EPZ	1138	18.0	
13	+EPZ	1811	30.4		15	+EPZ	1421	22.1	#-692
13	+EsPZ	1816	40.0	#-672	15	+EpPZ	1421	25.0	#-692
13	+EXZ	1903	54.0	#-673	15	+EXZ	1505	14.6	#-693
13	-EPZ	1922	47.6	#-674	16	+IPZ	0230	23.1	#-694
13	+EPZ	2021	1.0	#-675	16	-EPZ	0237	0.8	
14	+EPZ	0215	53.9	#-676	16	-EPZ	0507	55.4	#-695
14	+EPZ	0216	21.7		16	-IPdiffZ	1137	54.0	#-696
14	+EPZ	0700	44.2	#-677	16	-IpPdiffZ	1138	1.6	#-696
14	-EPZ	0828	10.0	#-678	16	-IPZ	1311	33.6	
14	+EPZ	1104	10.4	#-679	17	+IPZ	0401	3.0	#-697
14	-IpPZ	1104	12.9	#-679	17	-IPZ	0726	29.4	#-698
14	ESH	1110	15.6	#-679	17	+IPcPZ	0726	32.9	#-698
14	+EPZ	1230	32.8	#-680	17	ESH	0737	8.2	#-698

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
17	-IPZ	0803	39.0	#-699	19	-EPcPZ	1736	36.4	#-719
17	+EPZ	0810	33.4	#-700	19	+EPZ	1817	23.0	
17	-IPZ	0903	10.0	#-701	19	+EPZ	1823	2.2	
17	-IpPZ	0903	11.6	#-701	19	-EPZ	1823	4.8	
17	+EPZ	1217	13.4		19	+EPZ	2313	45.0	
17	-EPZ	1238	55.2	#-702	19	-EXZ	2315	12.0	#-720
17	-EXZ	1718	35.9	#-703	19	+EXZ	2353	34.1	#-721
17	-EpPZ	1718	42.4	#-703	20	+EPZ	0347	47.6	#-722
17	-IPZ	1834	24.4	#-704	20	+EPZ	0520	3.8	
17	-IPZ	1909	20.4	#-705	20	-EXZ	0803	29.2	#-723
17	-IPZ	1909	22.4	#-705	20	-EPZ	1029	18.2	#-724
17	ESH	1913	55.5	#-705	20	+IPZ	1726	32.0	
17	+EPZ	1936	42.6	#-706	20	+EPZ	1811	8.6	#-725
17	-EPZ	1957	45.0	#-707	20	-IPcPZ	1910	16.4	#-726
17	-EPZ	2052	20.4		20	-EPZ	1946	13.0	
17	+EPZ	2120	5.0		20	+EPZ	2008	26.2	#-727
18	-EPZ	0317	1.4		20	+EpPdiffZ	2033	51.1	#-728
18	+EPdiffZ	0552	16.4	#-708	20	-EPZ	2232	0.1	#-729
18	-IPZ	1213	19.0		20	-EsPZ	2232	11.0	#-729
18	-IPZ	1457	46.0		20	+IPZ	2241	10.6	#-730
18	-EPZ	1507	51.2	#-709	20	-IPcPZ	2241	16.2	#-730
18	-EPZ	1620	28.9	#-710	20	+EPZ	2302	5.7	
18	+EXZ	1802	35.2	#-711	20	+EPZ	2326	35.2	
18	+EXZ	1802	45.0	#-711	20	ESH	2336	36.2	
18	+EPZ	1920	12.6	#-712	21	+EPZ	0125	5.2	
18	-EXZ	2005	43.1	#-713	21	+IPZ	0129	52.4	#-731
19	+IXZ	0124	52.8	#-714	21	-EPcPZ	0129	55.4	#-731
19	+EXZ	0212	31.7	#-715	21	+IpPZ	0127	46.2	#-732
19	+EPKPdfZ	0352	27.8	#-716	21	+EPZ	0138	12.2	#-733
19	-EPKiKPZ	0352	34.1	#-716	21	+EXZ	0144	26.0	#-734
19	+EPZ	0824	16.4		21	+EPZ	0156	21.4	
19	+EPZ	0917	0.6		21	+EsPZ	0214	25.0	#-735
19	-EPZ	1107	40.0	#-717	21	-IPZ	0539	27.9	
19	+EPZ	1144	11.7		21	-EPZ	0724	12.6	#-736
19	+EXZ	1400	35.0	#-718	21	-EPZ	1104	25.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
21	+EPcPZ	1116	52.4	#-737	23	-IPcPZ	1109	51.1	#-758
21	+EPZ	1133	24.0		23	+EPZ	1507	8.4	#-759
21	-IPZ	1148	19.4	#-738	23	+IPZ	1748	11.2	#-760
21	-IPcPZ	1148	24.4	#-738	23	ESH	1758	5.0	#-760
21	+EPZ	1206	8.7	#-739	23	+IPZ	2004	35.2	#-761
21	-EXZ	1248	25.4		23	-EXZ	2014	9.0	
21	-EXZ	1248	31.1	#-740	23	+EPZ	2115	41.8	
21	+EPZ	1254	10.6		23	-EXZ	2134	31.0	#-762
21	+EPZ	1336	24.9	#-741	23	-EPcPZ	2134	36.1	#-762
21	+EPZ	1351	50.8	#-742	24	+EXZ	0117	23.0	#-763
21	+EPcPZ	2203	24.2	#-743	24	-EXZ	0117	44.0	#-763
22	-EPZ	0329	29.2	#-744	24	+IPZ	0351	36.6	
22	+EPZ	0420	8.4	#-745	24	+IPZ	0841	9.4	
22	+EPZ	0420	8.4		24	+EPZ	1002	44.4	#-764
22	+EXZ	0925	2.6	#-746	24	-EPZ	1509	51.6	#-765
22	+EpPZ	0925	8.6	#-746	24	-EPcPZ	1509	55.2	#-765
22	+EXZ	1229	1.8	#-747	24	+EPZ	1513	46.2	#-766
22	-IsPZ	1229	9.0	#-747	24	+EPZ	1515	4.2	#-767
22	-EXZ	1316	5.0	#-748	24	+EPZ	1514	15.8	#-768
22	-EPZ	1319	36.6	#-749	24	-EpPZ	1514	25.0	#-768
22	-EsPZ	1319	42.4	#-749	24	+EPZ	1528	5.2	#-769
22	+EPZ	1402	42.0	#-750	24	+EPcPZ	1927	25.0	#-770
22	+EPZ	1436	0.8		24	+EXZ	2149	35.9	#-771
22	+EPZ	1550	3.5	#-751	24	-EPZ	2318	36.0	
22	-EXZ	1550	14.2	#-751	25	+EPZ	0001	50.2	#-772
22	-IPZ	2316	12.0		25	+EPZ	0511	46.6	#-773
22	-IPZ	2317	14.7		25	-IXZ	0755	4.6	#-774
22	-EPZ	2317	42.2	#-752	25	+IXZ	0755	6.6	#-774
23	+EXZ	0024	46.8	#-753	25	+EPZ	0805	19.7	
23	-IPZ	0226	47.0	#-754	25	+EPZ	0806	5.0	#-775
23	+IPZ	0304	14.0	#-755	25	+EPZ	0832	16.4	
23	+EPcPZ	0320	39.6	#-756	25	-EPZ	1019	6.8	
23	+EPZ	0701	11.6		25	+EPZ	1019	11.6	
23	+EPZ	0734	19.0	#-757	25	+EXZ	1205	31.0	#-776
23	-EPZ	1109	45.5	#-758	25	-EPZ	1338	4.6	#-777

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
25	+EPcPZ	1338	35.2	#-777	28	ESH	1031	23.4	#-793
25	+EpPZ	2005	25.2	#-778	28	-EPcPZ	1812	35.0	#-794
25	+EPZ	2030	41.8	#-779	28	+IPZ	1934	10.6	#-795
25	+IPZ	2355	35.3	#-780	28	+EpPZ	1934	23.8	#-795
26	+EPZ	0614	33.2		28	-EPZ	2303	14.0	
26	-EPcPZ	0650	20.4	#-781	29	-IPZ	0041	15.4	
26	+EPZ	1657	9.7		29	-EPZ	0210	46.6	#-796
26	-EPZ	1715	3.2		29	-EXZ	0312	48.0	#-797
26	+IPZ	1933	56.0	#-782	29	-EPZ	0404	21.6	
26	-IPZ	1934	14.0		29	-IPZ	0404	30.0	#-798
26	+EPZ	2006	9.4		29	-EPcPZ	0404	38.4	#-798
26	+EPZ	2006	12.6		29	+IPZ	0821	16.0	#-799
26	+EpPZ	2024	25.0	#-783	29	+IpPZ	0821	20.0	#-799
26	+EPZ	2249	45.0		29	+EPdiffZ	1044	30.5	#-800
26	+EPZ	2249	50.6		29	+EPKpdFZ	1047	47.6	#-800
27	-EPZ	0046	1.4		29	+EPZ	1056	3.6	
27	-EXZ	0050	21.4	#-784	29	+EPZ	1234	20.8	
27	+IPZ	0152	53.6	#-785	29	+IPZ	1516	19.0	
27	+EPZ	0603	5.0		29	+IPKiKPZ	1521	34.0	#-801
27	+EPZ	0802	33.6	#-786	29	-EPZ	1734	22.7	
27	+EPZ	0821	1.8	#-787	29	+EPZ	2247	44.9	#-802
27	+IPZ	1042	14.8	#-788	29	+EXZ	2247	48.4	#-802
27	+IPZ	1045	7.0		29	-EPZ	2302	27.8	
27	+IPZ	1216	6.4		30	-EsPZ	0616	40.0	#-803
27	+EPZ	1216	22.3		30	-EPZ	0750	47.8	#-804
27	+EPZ	1216	34.2		30	-IpPZ	0750	59.2	#-804
27	+EPZ	1231	16.2	#-789	30	-IPZ	0812	8.4	#-805
27	+EPZ	1534	5.4		30	-EpPZ	0812	14.4	#-805
27	-EPZ	1535	46.5	#-790	30	-EPZ	1034	55.4	#-806
27	-EPZ	1848	25.0		30	-EPZ	1041	33.4	#-807
27	+EPZ	2148	9.0	#-791	30	-EPZ	1320	1.0	#-808
27	+EPZ	2157	14.4	#-792	30	+EPcPZ	1320	4.0	#-808
27	+EpPZ	2157	18.8	#-792	30	+EPZ	1708	14.0	#-809
28	+IPZ	1020	46.0	#-793	30	+EPZ	1823	35.6	#-810
28	-IPcPZ	1020	48.3	#-793	30	+EPZ	1925	7.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
30	-EPZ	2029	37.2	#-811	2	-IPPZ	1228	0.0	#-830
30	+EPZ	2104	47.0	#-812	2	+EXZ	1402	34.6	#-831
30	+EPZ	2212	20.0		2	+EPZ	1717	27.0	#-832
May					2	+EsPZ	1717	32.8	#-832
1	-EpPZ	0022	27.4	#-813	2	+EPcPZ	1717	45.3	#-832
1	-EXZ	0510	54.0	#-814	2	-EPZ	2112	16.6	#-833
1	+EXZ	0552	18.0	#-815	2	+EPZ	2120	29.8	
1	+EXZ	0610	13.6	#-816	2	+EPcPZ	2208	40.6	#-834
1	+EXZ	0906	25.6	#-817	3	+EPZ	0123	14.1	
1	+EPZ	1315	11.7		3	+EPZ	0131	26.4	
1	-EPZ	1409	45.1	#-818	3	-EPZ	0512	10.6	#-835
1	+EPcPZ	1409	51.2	#-818	3	-EPcPZ	0512	14.2	#-835
1	+EPZ	1412	13.2	#-819	3	-EXZ	0521	2.0	#-836
1	+EPZ	1428	24.6	#-820	3	-EPZ	0725	12.0	
1	-EPKpdfZ	1603	45.0	#-821	3	+EPZ	0725	31.6	
1	-EXZ	1653	26.0	#-822	3	+EPdiffZ	1023	30.2	#-837
1	+EPZ	1715	22.6		3	+EPZ	1122	5.2	
1	+EPZ	1910	1.0		3	+IPZ	1122	7.4	#-838
1	+EPcPZ	2103	39.2	#-823	3	ESH	1131	38.6	#-838
1	+EPZ	2225	13.6	#-824	3	+EPZ	1441	51.3	#-839
1	-EpPZ	2225	15.4	#-824	3	+EPZ	1627	24.6	#-840
1	+EPcPZ	2225	23.1	#-824	3	-EPZ	2003	19.0	
2	+EPZ	0027	38.4	#-825	3	+EPZ	2137	14.6	
2	+EPcPZ	0027	47.8	#-825	3	+EPZ	2305	28.9	#-841
2	-EPZ	0130	50.0		3	+EPcPZ	2305	35.6	#-841
2	+EPZ	0243	57.5		4	+EPZ	0022	37.2	
2	-EPZ	0318	0.6	#-826	4	-EPZ	0022	46.8	
2	-EXZ	0318	12.0	#-826	4	-EPZ	0114	51.2	#-842
2	-EPZ	0526	21.0	#-827	4	+EXZ	0244	34.3	#-843
2	+EPcPZ	0526	24.8	#-827	4	+EPZ	0612	0.4	#-844
2	-EpPZ	0526	43.0	#-82	4	+EpPZ	0612	3.4	#-844
2	+EPZ	0536	35.7	#-828	4	+EPZ	1114	4.6	
2	-EXZ	1010	5.4	#-829	4	+EPZ	1202	3.4	
2	+EpPZ	1010	13.2	#-829	4	+EPZ	1250	7.6	
2	-EPZ	1226	12.0	#-830	4	-EPZ	1424	11.7	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
4	-EPZ	1635	14.0		12	-EPZ	1336	11.0	#-864
4	-EPZ	1803	6.7		12	+IpPZ	1447	14.2	#-865
4	+EPZ	1810	0.8		12	-EPZ	1504	19.3	
4	+EPZ	2310	2.2		12	+EPZ	1640	1.4	
4	+EPZ	2351	11.7	#-845	12	-EXZ	2347	10.0	#-866
5	+IXZ	2033	43.4	#-846	13	-IPZ	0130	41.0	#-867
5	+IPcPZ	2036	16.0	#-847	13	-EsPZ	0130	48.0	#-867
6	+EXZ	0441	16.0	#-848	13	+EPZ	0212	29.6	#-868
6	+EPZ	1036	35.6	#-849	13	+EPPZ	0252	11.6	#-869
6	-EPZ	1253	27.6	#-850	13	+EPZ	0252	24.8	
7	-EPZ	0338	44.7	#-851	13	+EPZ	0451	2.8	#-870
7	-EPcPZ	0338	49.6	#-851	13	+EpPZ	0451	6.4	#-870
7	+EPZ	1205	3.4		13	+IPZ	0458	41.8	#-871
7	-EPZ	1429	34.6		13	+EPcPZ	0458	46.2	#-871
7	-EPZ	1801	54.6	#-852	13	+IPZ	0720	36.6	#-872
7	+EXZ	1932	33.0	#-853	13	-EPcPZ	0720	44.4	#-872
7	+EPZ	2150	25.0		13	+EPZ	0922	16.0	#-873
8	-EPZ	0045	30.0	#-854	13	-EPZ	1135	24.0	#-874
8	+EPZ	2247	2.3		13	+EpPZ	1135	52.0	#-874
8	+EPZ	2247	6.1		13	+EPZ	1202	44.8	
9	+EPZ	0448	17.1	#-855	13	-EPZ	1206	47.6	#-875
9	+EpPZ	0448	33.0	#-855	13	-EPZ	1253	39.8	
9	+EPZ	1501	41.4	#-856	13	+EPZ	1253	43.0	#-876
9	+EPZ	2226	54.6	#-857	13	-EPZ	1834	40.8	#-877
9	+IPZ	2336	19.6		13	-EXZ	2322	35.0	#-878
10	-EPZ	0226	5.2		14	+EXZ	0305	33.2	#-879
10	+EPZ	0744	0.3	#-858	14	-EPZ	0502	27.8	
10	+EPcPZ	0744	3.0	#-858	14	+EPZ	0502	43.3	#-880
10	+EPZ	1627	10.8	#-859	14	+IPZ	1012	37.4	
10	+EPZ	1924	41.0		14	ESH	1022	33.0	
11	-EPZ	1937	2.0	#-860	14	+EPZ	1941	44.6	#-881
11	+EPKpdfZ	2052	31.0	#-861	14	+EPZ	2316	15.9	
11	-EPZ	2217	32.0	#-862	15	-EPZ	0532	3.0	#-882
12	-EpPZ	1042	35.7	#-863	15	+EPnZ	0907	59.2	#-883
12	+EPZ	1114	42.0		15	-EPZ	0908	2.8	#-883

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	+EPZ	1545	11.2		18	-EXZ	1723	4.8	#891
15	+EPZ	1934	26.4		18	+EPZ	2146	55.6	
15	+EPZ	1934	32.6		18	+EPZ	2147	0.8	
16	+EPZ	0112	22.9		19	-EPZ	0226	18.7	
16	-EPZ	0112	32.7		19	+EPZ	0523	4.0	
16	+IPZ	0140	43.0	#884	19	-IPZ	0846	36.0	#892
16	-IsPZ	0140	57.0	#884	19	-IpPZ	0846	44.8	#892
16	+EPZ	0321	0.8		19	+IPcPZ	0846	52.8	#892
16	-EPZ	0815	36.0		19	+EpPZ	1234	21.2	#893
16	+EXZ	0912	13.0	#885	19	+EpPZ	1314	36.1	#894
16	+EPZ	1610	2.4		19	-EPZ	1604	0.4	#895
16	+EPZ	1827	45.3		19	-EPcPZ	1604	3.4	#895
16	-EPZ	1943	46.0		19	+EPKPdfZ	1924	28.7	#896
16	+EPZ	2341	13.4		19	-EPPZ	1926	49.7	#896
16	-EPZ	2341	21.0		19	-EPZ	2025	38.8	#897
17	+EPZ	0815	38.2		19	-EpPKPdfZ	2243	30.3	#898
17	-EPZ	1120	42.4		20	+EPZ	0222	31.0	
17	+EPZ	1907	14.0		20	+EPZ	0517	19.8	#899
17	+EPZ	2002	26.8	#886	20	-EPZ	0540	1.3	
17	+EPcPZ	2002	29.0	#886	20	+EPZ	0656	21.0	#900
17	+EPZ	2057	37.0		20	+EPZ	0738	9.8	
17	-EPZ	2117	23.0		20	+EXZ	0739	39.4	#901
17	+EPZ	2211	8.2	#887	20	-EXZ	0842	24.6	#902
17	-EpPZ	2211	15.0	#887	20	+EPZ	0901	45.0	
17	+EPZ	2349	21.4		20	+EPZ	1249	17.0	#903
18	-EPZ	0002	37.7	#888	20	+EPZ	1332	24.2	
18	+EXZ	0210	28.0	#889	20	+EPZ	1625	39.5	
18	-IpPZ	0210	32.6	#889	20	+EPZ	1820	19.4	
18	+EPZ	0937	35.0		20	+EPZ	1820	24.8	
18	+EPZ	1023	38.2		20	+EPZ	2051	27.6	#904
18	+EPZ	1206	9.2		20	+EPcPZ	2051	37.4	#904
18	+EPZ	1206	14.4		20	+EXZ	2127	45.0	#905
18	+EPZ	1341	13.0		20	-EPcPZ	2127	52.8	#905
18	-IPZ	1542	34.2	#890	20	-EPZ	2228	52.4	#906
18	+EPcPZ	1542	49.7	#890	20	+EPcPZ	2228	54.6	#906

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
20	+EPdiffZ	2237	5.8	#-907	23	-EPZ	2308	22.0	
20	+EPZ	2257	2.0	#-908	23	-EPZ	2308	28.4	
20	-EPcPZ	2257	6.2	#-908	23	-IPZ	2327	50.8	#-919
21	+EPZ	0352	21.8		23	-IpPZ	2327	54.6	#-919
21	-EPZ	0352	35.9		24	-EXZ	0502	28.0	#-920
21	+EPZ	2317	1.6		24	+EPZ	0648	39.2	
21	-EPZ	2317	3.6		24	+EPZ	649	13.8	
21	+EPZ	0851	15.4		24	+EPZ	1317	13.0	
21	+EPZ	0851	46.4	#-909	24	+EPZ	1317	17.0	
21	-EPcPZ	0851	50.0	#-909	24	+EPZ	1546	33.2	
21	+EPZ	1616	6.8		24	+IPZ	1929	0.8	#-921
21	+EPZ	1920	49.4		24	-IPZ	1929	4.8	
21	+EPZ	1920	53.9		24	-EXZ	1952	41.0	#-922
21	+EPZ	1921	0.8		24	-EPZ	2307	10.3	
21	-EPZ	2148	30.0		24	+EXZ	2307	15.4	#-923
21	-EPZ	2148	35.0		25	-EPZ	0042	27.2	
22	-EPZ	0003	5.4	#-910	25	+EPZ	0255	6.0	
22	+EPcPZ	0914	11.2	#-911	25	+EPZ	0255	11.6	#-924
22	-EPZ	1626	32.0		25	+IpPZ	0255	14.0	#-924
22	+EPZ	2015	4.0		25	-EPZ	0451	4.8	
22	+EPZ	2015	7.0		25	-EPZ	0523	9.0	
23	+EPZ	0042	14.1		25	+EPZ	0709	29.7	
23	+EPZ	0116	34.9	#-912	25	-EPZ	0739	22.0	
23	-EPZ	0543	6.2	#-913	25	-EXZ	1222	15.8	#-925
23	+EPZ	0649	36.4	#-914	25	+EPZ	2214	12.2	
23	-EpPZ	0949	39.2	#-914	25	+EPZ	2214	23.0	
23	-EPZ	0714	29.4		26	+EPZ	0103	49.4	#-926
23	+EPZ	0940	5.9	#-915	26	+EXZ	0347	29.4	#-927
23	-EPZ	1521	9.0		26	+EPZ	0753	15.4	
23	-EPZ	1521	18.0		26	+EPZ	1415	21.7	
23	+EPKPdfZ	1521	34.0	#-916	26	-EPZ	1806	6.6	
23	+EpPKPdfZ	1521	46.8	#-916	26	+EPZ	2037	24.3	
23	+EXZ	1523	53.8	#-916	26	+EPZ	2037	30.0	
23	+EXZ	1802	44.8	#-917	26	+EPZ	2053	15.0	#-928
23	-EXZ	2045	17.4	#-918	26	+EPcPZ	2053	29.9	#-928

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
26	+EpPZ	2053	33.0	#-928	29	+EPZ	0819	8.1	
26	+EPZ	2112	18.7		29	+EXZ	1115	12.9	#-939
26	+EPZ	2205	18.4		30	+EPZ	0009	4.0	
26	+EPZ	2205	59.4		30	+EPZ	0709	23.4	#-940
26	+EPKPdfZ	2206	2.4	#-929	30	-EPdiffZ	2135	49.4	#-941
26	+EPZ	2316	1.6		30	-IPKPdfZ	2142	15.2	#-942
26	+EPZ	2316	5.8		30	+IPKPabZ	2142	24.4	#-942
27	-EPZ	0402	11.8	#-930	30	-EPZ	2211	53.2	#-943
27	+EpPZ	0402	19.6	#-930	31	+EPZ	0016	1.6	
27	-EsPZ	0402	21.8	#-930	31	-EPZ	0510	5.0	#-944
27	+EPZ	0534	7.9	#-931	31	-EPZ	0619	6.0	#-945
27	+EsPZ	0534	33.6	#-931	31	-EPcPZ	0619	12.9	#-945
27	-EPZ	0846	20.4		31	+EPZ	1045	19.0	
27	+IPZ	0937	23.8	#-932	31	-EPZ	1607	19.0	#-946
27	-EpPZ	0937	29.0	#-932	31	+EPZ	2006	19.4	
27	+EPZ	1021	27.3		31	+EPZ	2115	15.6	
27	+EPZ	1021	40.1		31	+EPZ	2314	1.4	#-947
27	-EPZ	1227	4.4		31	+EPcPZ	2314	4.2	#-947
27	+EPZ	1724	19.0	#-933	31	+EpPZ	2314	8.6	#-947
27	-IPcPZ	1724	29.0	#-933	June				
27	+EsPZ	1724	35.4	#-933	1	+IPZ	0513	45.4	#-948
27	-EpPZ	2317	23.4	#-934	1	-IsPZ	0513	48.0	#-948
27	+EPZ	2347	13.4		1	+EPZ	0631	46.2	#-949
28	+IPZ	0517	26.0		1	+EPZ	0709	19.7	#-950
28	+EPZ	0818	30.8		1	-EPcPZ	0709	20.8	#-950
28	+EPZ	1327	34.9	#-935	1	-EPZ	1025	36.0	
28	-EPcPZ	1551	16.0	#-936	1	-EPZ	1842	36.4	
28	-EPZ	1649	33.4		2	+EPZ	0508	53.1	#-951
28	-IPZ	2159	32.8	#-937	2	-EPZ	0629	16.8	#-952
28	-IPcPZ	2159	34.6	#-937	2	+IPZ	0741	51.4	#-953
28	ESH	2209	53.8	#-937	2	+IPZ	0803	35.0	#-954
29	+EPZ	0207	7.0		2	+EpPZ	1403	33.0	#-955
29	+EPdiffZ	0212	8.0	#-938	2	-EPZ	1829	45.2	#-956
29	+IPZ	0301	7.4		2	-EPZ	2140	14.2	#-957
29	+EPZ	0715	47.8		3	-EXZ	0129	42.0	#-958

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
3	+EXZ	1124	19.6	#-959	7	+IPZ	0415	32.8	
3	+EsPZ	1124	30.0	#-959	7	+EPZ	0751	46.1	#-974
3	+EPZ	1150	59.0	#-960	7	-EPZ	0914	6.2	
3	+EPZ	1218	3.8		7	+IPZ	0914	11.0	
3	+EPZ	1647	7.8		7	ESH	0924	19.0	
3	+EPZ	1726	2.3		7	-IPZ	1615	30.2	#-975
3	+EPZ	1810	7.2		7	ESH	1625	40.2	#-975
3	-EPZ	2008	14.6		7	-IPZ	1717	59.0	#-976
3	+EPZ	2106	39.8	#-961	7	ESH	1727	10.8	#-976
4	+EPcPZ	0028	4.8	#-962	7	+EXZ	1815	48.0	#-977
4	+EsPZ	0028	24.0	#-962	8	-EPZ	0440	47.2	
4	-EpPKiKPZ	0103	44.8	#-963	8	+EXZ	0646	12.2	#-978
4	-EPZ	0916	39.4		8	+EPZ	0715	43.0	#-979
4	+EPZ	1003	20.8		8	+EPZ	1059	39.0	#-980
4	+EPZ	1003	24.6		8	+EPZ	1319	18.0	
4	+EPZ	2025	10.0		8	+EPZ	1718	55.2	
5	+EPZ	000	41.7		8	+EPZ	2046	29.0	
5	+EPZ	0733	20.4	#-964	9	-EXZ	0902	5.3	#-981
5	-EPZ	0909	7.0		9	+EXZ	0902	17.0	#-981
5	-EsPZ	1113	59.0	#-965	9	-EPKpdfZ	1222	24.6	#-982
5	+EPZ	1937	43.2		9	+EPKPabZ	1222	31.6	#-982
5	+EXZ	1950	26.2	#-966	9	-EPZ	1421	21.2	
5	+EXZ	2314	18.2	#-967	9	+EPZ	1421	28.6	
5	+EXZ	2335	6.2	#-968	9	+EPKpdfZ	1442	42.0	#-983
6	-EPZ	0237	44.4	#-969	9	+EPZ	1507	58.4	
6	-EPZ	0430	6.6		9	+EPZ	1713	4.3	
6	+EPZ	0945	42.6	#-970	9	-EPKiKPZ	2118	39.4	#-984
6	+EpPZ	0947	39.8	#-970	10	-IPZ	0824	16.1	#-985
6	-EPZ	1623	12.0	#-971	10	ESH	0829	17.0	#-985
6	-EPcPZ	1623	18.4	#-971	10	+EPZ	0944	27.1	
6	+EPZ	1924	22.4		10	+EXZ	1354	40.3	#-986
6	+EPZ	1924	38.4		10	-EsPZ	1524	41.0	#-987
6	+EPZ	2351	49.2		10	+EPZ	1802	30.0	
7	-EPZ	0015	1.6	#-972	11	+EPZ	0009	20.0	
7	+EPZ	0123	24.8	#-973	11	-EPZ	0514	26.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	-EPZ	0627	18.6		16	+EPZ	0514	25.6	
11	-EPZ	1124	51.0	#-988	16	+EpPdfZ	1320	33.8	#-1001
11	+EPZ	1344	50.2		16	+EPZ	1618	20.6	
11	+EXZ	2350	4.0	#-989	16	+EPZ	1927	50.7	
11	+EXZ	2350	10.6	#-989	16	+EPdiffZ	2232	33.4	#-1002
12	-EPZ	0425	16.6		17	+EXZ	0044	48.6	#-1003
12	-EPZ	0425	16.6		17	-EpPZ	0325	37.1	#-1004
12	+EPZ	0611	7.5	#-990	17	+EPZ	0356	14.4	#-1005
12	-EPcPZ	0611	20.3	#-990	17	+EPZ	0455	27.7	
12	-IPZ	1400	14.0	#-991	17	+EPZ	0655	23.2	
12	+IPcPZ	1400	26.2	#-991	17	+EPZ	0916	3.1	
12	ESH	1409	37.8	#-991	17	+EPZ	1739	12.7	#-1006
12	+EPZ	1605	11.6		17	ESH	1749	51.0	#-1006
12	+EPZ	1914	37.0		17	+EPZ	2349	51.3	#-1007
13	+EPZ	0713	1.0	#-992	17	+EpPZ	2349	55.2	#-1007
13	-EpPZ	0713	12.6	#-992	18	+EPZ	0016	7.8	
13	ESH	0718	8.0	#-992	18	+EPZ	0315	32.2	
14	-EXZ	0230	16.5	#-993	18	-EPZ	0358	50.1	#-1008
14	+EPZ	0458	25.0	#-994	18	+EPZ	0839	45.0	#-1009
14	-EPZ	0605	32.7		18	+EsPZ	0839	53.6	#-1009
14	+EPZ	1014	21.5		18	+EPZ	1103	20.8	
14	+EPZ	1113	41.8		18	+IXZ	1303	45.0	#-1010
14	+EPZ	1115	24.8		18	-IPZ	1415	49.2	#-1011
14	-IPZ	1115	35.0	#-995	18	+EPZ	1824	12.8	
14	-EPZ	1212	45.8		19	+EXZ	0439	36.8	#-1012
14	-EXZ	2210	5.4	#-996	19	+IPZ	0449	11.6	#-1013
15	-IPZ	0127	20.4	#-997	19	+EpPZ	1103	42.8	#-1014
15	-IPcPZ	0127	32.0	#-997	19	+EXZ	1104	19.2	#-1014
15	-EPZ	0553	32.8	#-998	19	-EPKPdfZ	1400	48.4	#-1015
15	-EpPZ	0553	40.4	#-998	19	-EXZ	1401	9.2	#-1015
15	+EPZ	0856	39.8	#-999	19	-EPZ	1416	8.4	
15	-EXZ	1116	30.0	#-1000	19	-EpPKPdfZ	1616	25.0	#-1016
15	+EsPZ	1119	55.0	#-1000	19	+EPZ	1823	19.4	
15	-EPZ	1750	39.0		19	+EPcPZ	2027	27.6	#-1017
16	+EPZ	0419	13.0		19	+EPZ	2027	41.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
19	+EXZ	2116	25.0	#-1018	22	+EPZ	0440	2.8	#-1033
19	+EPZ	2125	28.0	#-1019	22	-IpPZ	0440	8.0	#-1033
20	+EPZ	0023	27.7		22	ESH	0447	11.7	#-1033
20	-EPZ	0054	45.0	#-1020	22	+IPZ	0513	45.4	#-1034
20	-EPZ	0644	23.6	#-1021	22	+IsPZ	0513	50.1	#-1034
20	-EpPZ	0644	48.3	#-1021	22	-EPZ	0526	44.3	#-1035
20	+EPZ	1010	47.2	#-1022	22	+EPcPZ	0526	55.6	#-1035
20	-EPcPZ	1010	54.4	#-1022	22	+EXZ	0535	11.7	#-1036
20	-EPZ	1306	46.0		22	+EPZ	0743	11.9	
20	-EPZ	1919	6.0		22	+EPZ	0815	22.0	
20	-EPZ	2208	25.7	#-1023	22	-EPZ	1157	18.3	
20	-IPcPZ	2208	27.6	#-1023	22	-EPZ	1224	26.7	#-1037
21	+EPZ	0110	6.8		22	+IPcPZ	1224	40.4	#-1037
21	+EPZ	0336	38.0	#-1024	22	-EPcPZ	1242	26.6	#-1038
21	-EPZ	0416	30.4		22	-EPZ	1618	34.0	
21	+EPZ	0613	31.4		23	-EPZ	0128	28.0	#-1039
21	+EPZ	1132	46.6		23	-EPZ	0236	6.4	
21	-EPZ	1132	52.2		23	+EPZ	0236	31.6	
21	+EPZ	1608	43.9		23	-EPZ	0340	18.5	
21	+EXZ	1634	25.3	#-1025	23	+EXZ	0342	40.1	#-1040
21	-EPZ	2006	39.1		23	-IPZ	0447	4.0	#-1041
21	+EPZ	2111	54.0		23	+EPZ	0505	29.4	
21	+EPZ	2229	51.0	#-1026	23	+EPZ	0649	56.4	
21	+EXZ	2229	56.2	#-1026	23	+IPZ	0754	53.7	#-1042
21	+IPZ	2246	33.2	#-1027	23	+EXZ	0803	31.0	#-1043
21	ESH	2256	33.2	#-1027	23	+EpPKPdFZ	0803	49.2	#-1043
22	+IPZ	0004	29.8	#-1028	23	+EXZ	1108	39.6	#-1044
22	+IPcPZ	0004	43.6	#-1028	23	-EPZ	1208	42.1	
22	-EPZ	0012	6.8	#-1029	23	-EPZ	1518	2.0	
22	+EPcPZ	0012	20.6	#-1029	23	-IPZ	1848	51.9	#-1045
22	+EXZ	0014	36.0	#-1030	23	+EPcPZ	1848	55.2	#-1045
22	-EpPZ	0108	24.8	#-1031	23	-EPZ	1914	45.8	
22	-EPZ	0231	43.8	#-1032	23	+EPZ	2123	27.4	
22	+IpPZ	0231	47.4	#-1032	23	+EXZ	2139	31.1	#-1046
22	+EPZ	0408	4.8		23	-EPcPZ	2139	46.4	#-1046

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
24	-EPZ	0025	59.1		26	+IPZ	1244	52.2	#-1057
24	-EPZ	0132	58.4	#-1047	26	-IPcPZ	1244	56.0	#-1057
24	-EPZ	0214	34.2		26	-EPKPbcZ	1437	12.9	#-1058
24	+EPKPdfZ	0334	52.5	#-1048	26	+EXZ	1437	21.4	#-1058
24	-EpPKPdfZ	0334	55.2	#-1048	26	-EXZ	1531	28.5	#-1059
24	+EPcPZ	0421	33.4	#-1049	26	+EPZ	1643	30.2	
24	-EPZ	0518	4.0		26	+EPZ	1733	27.8	
24	+EPZ	0602	28.9		26	+EPdiffZ	1733	50.2	#-1060
24	+EPZ	0746	40.6		26	-EPZ	2208	23.4	
24	+EPZ	0914	30.7		26	-EPZ	2208	28.0	
24	+IPZ	1037	12.6	#-1050	27	+EPZ	0018	18.6	
24	ESH	1046	33.4	#-1050	27	+EPZ	0105	16.0	#-1061
24	+EPZ	1221	30.8		27	+EPcPZ	0105	18.6	#-1061
24	-EPZ	1221	34.8		27	+EXZ	0354	19.0	#-1062
24	+EPZ	1521	26.3		27	-EXZ	0507	2.0	#-1063
24	+EPZ	1551	50.2	#-1051	27	+EpPZ	0507	25.0	#-1063
24	-EPZ	1620	36.8		27	+EPZ	0649	14.2	
24	+EPZ	1720	10.6		27	+EPZ	0649	28.0	
24	+EPZ	1720	14.4		27	+EPZ	0650	11.8	
24	-EPZ	1933	48.0	#-1052	27	+EPZ	0709	49.0	#-1064
24	+EPZ	2011	6.0		27	+EPcPZ	0709	54.7	#-1064
25	-IPZ	0320	51.9		27	-EPZ	0823	11.7	
25	-EPZ	0341	50.3	#-1053	27	+EPZ	1144	7.2	
25	+EPZ	0520	18.2		27	-EPZ	1144	9.6	
25	+EPZ	0520	22.7		27	-IPZ	1308	57.6	#-1065
25	+EPZ	0819	31.6		27	+EPZ	1317	16.0	#-1066
25	+EPZ	1122	47.0		27	-EXZ	1317	23.0	#-1066
25	-EPZ	1348	39.6	#-1054	27	+EPZ	1406	56.6	#-1067
25	+EPZ	1348	50.1		27	+EPZ	1433	19.8	
26	+EPZ	0004	14.1	#-1055	27	+EPZ	1531	15.8	
26	+EPZ	0241	52.2		27	-EPZ	1720	22.4	
26	+EPZ	0720	37.4		27	+EPZ	1757	22.6	
26	+EPZ	0720	44.6		27	-EPZ	2052	27.0	#-1068
26	-IPZ	0815	19.4	#-1056	27	+EpPZ	2052	38.4	#-1068
26	-EPcPZ	0815	30.0	#-1056	27	+EPZ	2127	11.7	#-1069

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
27	-EPcPZ	2127	13.4	#-1069	29	+EsPZ	2016	56.4	#-1077
27	+EpPZ	2134	11.0	#-1070	29	-EXZ	2126	13.2	#-1078
28	+EPZ	0204	13.0	#-1071	29	+EXZ	2126	27.0	#-1078
28	+EPcPZ	0204	19.6	#-1071	29	-EPZ	2213	29.2	
28	+EpPZ	0204	21.4	#-1071	29	-EXZ	2213	37.2	#-1079
28	+EPZ	0415	15.6		29	+EPZ	2248	39.2	#-1080
28	-EPZ	0609	37.7		29	+EPZ	2328	54.6	#-1081
28	-EPZ	1031	39.4	#-1072	30	-EXZ	0024	51.4	#-1082
28	-EsPZ	1033	5.0	#-1072	30	+EPZ	0026	31.8	#-1083
28	-EPZ	1149	29.0		30	+EXZ	0026	38.0	#-1083
28	+EPZ	1149	43.9		30	-EPcPZ	0026	45.4	#-1083
28	-EpPZ	1200	17.3	#-1073	30	-EPZ	0103	59.8	
28	+EsPZ	1200	32.2	#-1073	30	+EPZ	0812	28.4	
28	-EPZ	1220	39.8		30	-EPZ	1011	48.2	
28	+EPZ	1221	40.1	#-1074	30	-EPZ	1444	24.0	
28	+EPZ	1312	8.3		30	-EXZ	1538	8.0	#-1084
28	-EPZ	1413	11.0		30	+EPZ	1619	23.0	
28	+EPZ	1604	55.2		30	+EXZ	1637	6.0	#-1085
28	+EPZ	1723	28.0		30	+EPZ	1717	6.4	
28	-EPZ	2210	10.9		July				
28	-EPZ	2307	19.0		1	+EPZ	0056	2.2	#-1086
29	+EPZ	0152	21.4		1	-EPZ	0307	35.0	
29	+EPZ	0932	47.1		1	-EPdiffZ	0427	42.4	#-1087
29	-IPZ	1013	41.0	#-1075	1	-EXZ	0435	40.0	#-1088
29	ESH	1023	37.2	#-1075	1	-EPZ	0802	53.5	#-1089
29	+EPZ	1318	14.2		1	+EPcPZ	0802	57.8	#-1089
29	+EPZ	1326	47.4	#-1076	1	-EPcPZ	1303	29.1	#-1090
29	-EPcPZ	1326	53.4	#-1076	1	-EPZ	1616	19.2	
29	-IPZ	1511	0.7		1	-EPZ	1631	33.0	#-1091
29	-EPZ	1628	2.4		1	+IPZ	1756	54.4	#-1092
29	+EPZ	1643	4.9		1	+EPZ	1928	21.0	
29	+EPZ	1927	11.4		1	-EPZ	2017	19.0	
29	+EPZ	1927	21.6		1	+EPZ	2219	15.0	
29	+EPZ	2016	40.8	#-1077	1	+EPZ	2240	41.8	
29	-EpPZ	2016	51.2	#-1077	1	-EPZ	2240	44.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
1	+EPZ	2314	49.0		4	-EPZ	1524	21.6	
1	-EXZ	2350	18.0		4	-EPZ	2121	11.8	
2	+EPZ	0823	31.8		4	+EPZ	2121	17.9	
2	+EPZ	1028	14.8	#-1093	4	+EXZ	2307	35.4	#-1102
2	-EPZ	1757	40.4		5	-EPZ	0718	42.2	
2	+EPZ	1826	13.4		5	-EPZ	0827	29.0	#-1103
2	+EPZ	1826	15.8		5	+EXZ	0827	57.8	#-1103
2	-EXZ	2029	10.2	#-1094	5	+EPZ	1006	1.2	
2	+EpPZ	2029	22.0	#-1094	5	-EPZ	1619	26.2	
2	-EPZ	2033	12.6		5	-EPZ	1902	44.0	
2	-EPZ	2344	9.8	#-1095	5	-EPZ	1903	30.8	
2	+IPcPZ	2344	12.0	#-1095	5	+EPZ	1913	3.9	
3	+EPZ	0245	36.0		5	+EPZ	2014	1.0	
3	-EPZ	0308	6.0		5	+EPZ	2034	6.0	
3	+EPZ	0558	44.0	#-1096	5	+EPZ	2106	36.0	
3	+EpPZ	0558	59.0	#-1096	5	+EPZ	2211	7.8	
3	-EPZ	0816	21.2		5	+EPZ	2309	16.0	
3	+IPZ	1046	35.6		5	-EPZ	2309	19.5	
3	ESH	1056	32.8		5	-EPZ	2330	58.8	
3	+EPZ	1219	20.0	#-1097	6	+EPcPZ	0053	48.4	#-1104
3	+EPZ	2020	33.2		6	+EPZ	0113	40.0	
3	+EPZ	2032	34.4		6	+EPZ	0129	6.4	
3	-EPZ	2126	21.0		6	-IPZ	0129	9.0	
4	-EPZ	0011	56.2	#-1098	6	-EPZ	0222	29.7	
4	-EPZ	0012	10.8		6	-IPZ	0240	56.6	#-1105
4	+EPZ	0328	40.4	#-1099	6	-IPcPZ	0240	58.0	#-1105
4	-EsPZ	0328	57.4	#-1099	6	-IpPZ	0241	36.4	#-1105
4	+IPZ	0436	23.6		6	ESH	0251	27.8	#-1105
4	+EPZ	0436	29.8		6	+EPZ	0304	17.7	#-1106
4	-EpPZ	0843	25.2	#-1100	6	+EpPZ	0306	23.0	#-1106
4	+EsPZ	0843	31.6	#-1100	6	+EPZ	0404	10.6	
4	+EPZ	1038	47.2		6	+EPZ	0626	35.0	#-1107
4	+EPZ	1426	15.0		6	-IXZ	0626	39.0	#-1107
4	+EPZ	1447	57.9		6	-EPZ	0708	18.8	
4	+EXZ	1448	15.4	#-1101	6	+EPZ	0708	38.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
6	-EPZ	0731	42.8		7	-EXZ	1437	46.0	#-1114
6	+EPZ	0731	54.2		7	-EPZ	1508	13.0	
6	+EPZ	0732	3.6		7	+EPZ	1508	23.9	
6	+EPZ	0738	9.7		7	+EPZ	1641	23.0	
6	+EPZ	0810	11.2		7	+EPZ	1811	32.0	
6	+EPZ	1217	48.0		7	+EPZ	1811	38.0	
6	+EPZ	1224	11.0		7	-EPZ	2003	0.4	
6	+EPZ	1224	26.0		7	+EPZ	2042	20.0	
6	+EPZ	1750	9.4		7	-EPZ	2048	28.4	
6	-EPZ	1750	26.8		7	+EPZ	2258	48.8	#-1115
6	+EsPZ	1803	39.4	#-1108	7	-EsPZ	2258	56.8	#-1115
6	-EPZ	1821	2.2		7	+EPZ	2338	7.0	#-1116
6	+EPZ	1838	5.0		7	+EsZP	2338	21.2	#-1116
6	+EXZ	2312	28.0	#-1109	7	+EXZ	2357	20.0	#-1117
7	+IPZ	0101	11.1	#-1110	7	+EPZ	2359	43.6	#-1118
7	-IPZ	0101	33.6	#-1110	7	+EpPZ	0000	9.9	#-1118
7	+EPcPZ	0101	38.4	#-1110	7	+EsPZ	0000	16.2	#-1118
7	ESH	0110	7.0	#-1110	8	+EXZ	0023	8.2	#-1119
7	+EPZ	0115	49.0		8	+EPcPZ	0023	14.3	#-1119
7	+EPZ	0118	54.0		8	+EPZ	0208	15.3	
7	+EPZ	0217	10.4		8	-EPZ	0321	7.0	
7	-IPZ	0348	41.4	#-1111	8	-EPZ	1125	6.6	
7	+IXZ	0348	50.0	#-1111	8	+EPZ	1151	59.4	
7	-EPZ	0353	4.6		8	-EPZ	1156	3.0	
7	+EPZ	0443	54.8		8	+EPZ	1204	27.0	
7	+EPZ	0454	9.6		8	+EPZ	1204	34.4	
7	-EPZ	0506	7.2		8	+EPZ	1322	9.0	
7	+EPZ	0636	12.2		8	+IsPZ	1447	34.0	#-1120
7	+EPZ	0643	32.0		8	-EPZ	1509	27.2	
7	-IPZ	0817	47.6	#-1112	8	+EPZ	1613	16.2	
7	-IpPZ	0818	5.4	#-1112	8	-EPZ	1618	22.2	
7	ESH	0822	48.4	#-1112	8	-EPZ	1618	28.8	
7	+EScPZ	0824	11.1	#-1112	8	-EPZ	1641	15.0	
7	+EPZ	1103	3.2	#-1113	8	-EPZ	2004	11.6	
7	+EsPZ	1103	15.4	#-1113	8	+EPZ	2126	36.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
8	+EXZ	2252	39.0	#-1121	9	-EPZ	2313	3.4	
8	-EPZ	2253	7.2		10	+EPZ	0017	21.2	
9	-EPZ	0152	4.2		10	+EPZ	0213	24.0	
9	-EPZ	0152	23.2		10	+EPZ	0240	34.0	#-1123
9	+EPZ	0251	26.8		10	-IpPZ	0240	39.4	#-1123
9	+EPZ	0342	30.0		10	-IsPZ	0240	41.2	#-1123
9	+EPZ	0619	0.2		10	ESH	0250	52.0	#-1123
9	-IPZ	0619	2.6		10	+EPZ	0426	9.6	
9	-EPZ	0734	37.4		10	+EPZ	0426	16.0	
9	-EPZ	0734	41.8		10	+EPZ	0449	6.0	
9	+EPZ	0736	8.8		10	+EPZ	0514	9.8	
9	+EPZ	0739	14.0		10	-EPZ	0517	20.0	
9	+EPZ	0742	3.0		10	-EPZ	0555	5.9	
9	-IPZ	0742	5.0		10	-EPZ	0555	15.0	
9	+EPZ	0750	30.1		10	+EPZ	0745	43.5	
9	-EPZ	0810	37.0		10	+EPZ	0849	34.2	
9	+EPZ	0832	14.0		10	+EPZ	0916	53.6	#-1124
9	+EPZ	0832	15.6		10	-IPcPZ	0916	55.5	#-1124
9	+EPZ	0956	5.4		10	-EPKiKPZ	0922	1.0	#-1124
9	+EPZ	1021	24.9		10	-EPZ	1010	4.0	
9	+EPZ	1048	1.0		10	-EPZ	1039	34.2	
9	+EPZ	1048	5.8		10	+EXZ	1040	4.0	#-1125
9	+EPZ	1219	1.6		10	-EPZ	1049	45.6	#-1126
9	-EPZ	1238	23.0		10	-EPZ	1059	18.5	#-1127
9	+EPZ	1238	32.6		10	-EPZ	1119	23.4	
9	+EpPdiffZ	1409	15.2	#-1122	10	-EPZ	1314	0.9	
9	-EPZ	1409	31.0		10	+EPZ	1412	2.0	
9	-EPZ	1550	29.5		10	-EPZ	1412	9.0	
9	+EPZ	1550	35.0		10	-EPZ	1625	10.0	
9	-EPZ	1621	45.8		10	-EPZ	1713	40.4	
9	-EPZ	2027	40.4		10	+EPZ	1745	43.6	
9	-EPZ	2110	37.4		10	+EPZ	1814	1.9	
9	-EPZ	2113	7.4		10	+EPZ	1817	48.8	#-1128
9	-EPZ	2226	10.0		10	+EPZ	1821	13.0	#-1129
9	-EPZ	2306	0.4		10	-EPcPZ	1821	16.4	#-1129

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
10	+EPZ	2003	1.0		11	+EPZ	1953	26.6	
10	+EPZ	2019	28.6		11	-EPZ	1953	31.4	
10	-EPZ	2035	8.3		11	+EPZ	2105	7.0	#-1135
10	-EPZ	2052	14.7		11	-EpPZ	2105	13.6	#-1135
10	-EPZ	2139	20.0		11	+EPZ	2154	21.4	#-1136
10	+EPZ	2303	16.0		12	+EPZ	0124	7.0	
10	+EPZ	2338	17.0		12	+EPZ	0124	13.2	
10	+EPZ	2338	27.0		12	-EPZ	0157	45.3	
11	+EPZ	0029	14.0	#-1130	12	+EPZ	0342	26.0	
11	+IPcPZ	0029	16.0	#-1130	12	+EPZ	0415	0.2	
11	+IpPZ	0029	20.0	#-1130	12	+EPZ	0415	11.0	
11	+EPZ	0124	24.6	#-1131	12	-EPZ	0424	9.8	#-1137
11	-EpPZ	0124	33.2	#-1131	12	-EXZ	0424	14.8	#-1137
11	+EPZ	0213	0.6		12	+EPZ	0453	25.4	
11	+EPZ	0251	16.0		12	+EXZ	0716	49.4	#-1138
11	+EPdiffZ	0306	38.0	#-1132	12	+EPZ	0716	54.4	
11	-EXZ	0306	42.2	#-1132	12	+EPZ	0737	14.2	
11	-EPZ	0417	32.0		12	+EPZ	0947	19.0	
11	+EPZ	0417	34.0		12	+EPZ	1222	12.0	
11	+EPZ	0641	27.2		12	+EPZ	1222	17.4	
11	+EPZ	0701	32.2		12	-EPZ	1237	12.8	
11	+EPZ	1013	38.0		12	+EPZ	1237	15.0	
11	+EPZ	1013	46.0		12	+EPZ	1311	26.0	
11	+EPcPZ	1028	51.3	#-1133	12	+EPZ	1311	32.0	
11	-EPZ	1124	45.9	#-1134	12	+EPZ	1406	3.0	
11	-IPcPZ	1124	50.0	#-1134	12	-EPZ	1520	2.8	
11	+EPZ	1158	27.0		12	-EPZ	1520	5.6	
11	+EPZ	1158	30.4		12	+EPZ	1520	16.4	
11	+EPZ	1226	1.6		12	+EPZ	1552	58.4	#-1139
11	+EPZ	1722	6.4		12	-EXZ	1553	14.4	#-1139
11	-EPZ	1746	59.0		12	+EPZ	1614	21.0	
11	-EPZ	1747	30.6		12	-EPZ	1614	23.8	
11	-EPZ	1823	28.0		12	-EPZ	1619	33.0	
11	-EPZ	1823	29.4		12	-EPZ	1619	50.8	
11	+EPZ	1823	32.0		12	+EpPZ	1634	5.3	#-1140

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
12	-EPZ	1803	8.8		13	-EPZ	2109	15.0	
12	+EPZ	1803	15.8		13	+IPZ	2138	32.1	#-1145
12	-EPZ	1903	26.6		13	-IPcPZ	2138	34.4	#-1145
12	-EPZ	1949	10.6		13	-EPZ	2212	7.0	
12	-EPZ	1949	13.2		13	+EPZ	2212	18.5	
12	-EPZ	1956	2.6		13	-EPdiffZ	2254	6.0	#-1146
12	-EPZ	2132	21.2		13	+EPZ	2312	39.0	
12	+EPZ	2145	5.6		14	-EPZ	0112	14.0	
13	+EPZ	0044	34.4	#-1141	14	-EPZ	0112	18.6	
13	+EpPZ	0044	54.6	#-1141	14	-EPZ	0204	11.6	
13	-EPZ	0312	2.0		14	-EPZ	0447	0.2	
13	-EPZ	0421	21.5		14	+EPZ	0519	1.5	
13	-EPZ	0436	19.0		14	+EPZ	0616	35.0	
13	-EPZ	0436	27.0		14	+EPZ	0716	49.7	
13	-EPZ	0456	2.4		14	+EPZ	0817	44.0	#-1147
13	+EPZ	0502	30.4	#-1142	14	+EPZ	0929	0.4	
13	+EPZ	0619	20.6		14	+EPZ	0929	5.0	
13	+EPZ	0619	31.4		14	+EPZ	1227	33.4	#-1148
13	+EPZ	0729	50.0		14	+EPZ	1622	7.8	
13	+EPZ	1014	7.8		14	+EPZ	1720	8.4	
13	+EPZ	1158	1.0		14	+EPZ	1753	38.5	
13	+EPZ	1158	2.9		14	+EPZ	1833	21.0	
13	+EXZ	1412	13.6	#-1143	14	+EPZ	1900	45.0	
13	-EPZ	1412	19.3		14	+EPZ	2004	39.6	
13	-EPZ	1512	0.3		14	+EPZ	2219	0.4	
13	+EPZ	1512	4.0		14	-EPZ	2245	5.8	#-1149
13	+EPZ	1512	7.0		14	+EpPZ	2245	11.0	#-1149
13	-EPZ	1705	1.0		14	-EPZ	2321	31.8	
13	+EPZ	1705	11.7		15	+EPZ	0022	55.4	
13	+EPZ	1705	20.0		15	-EPZ	0113	52.0	
13	+EPZ	1808	14.8		15	+EPZ	0127	0.8	
13	+EPZ	1808	40.4	#-1144	15	+EPZ	0323	16.2	
13	-EPcPZ	1808	57.6	#-1144	15	+EPZ	0402	15.8	
13	-EPZ	2004	26.2		15	-EPZ	0610	28.0	
13	+EPZ	2109	12.8		15	+EPZ	0610	31.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	+EPZ	0824	34.2		16	+EPZ	1752	9.0	
15	+EPZ	0915	4.0		16	+EPZ	1807	2.0	
15	-EPZ	1013	0.0		16	+EPZ	2028	55.0	
15	-EPZ	1119	25.0		16	+EPZ	2129	39.6	#-1152
15	+EPZ	1218	12.8		16	+EPZ	2154	10.0	
15	+EPZ	1242	42.6		16	+EPZ	2220	6.0	
15	-EPZ	1423	52.2	#-1150	16	+EPZ	2312	3.2	
15	+EPZ	1450	15.6		17	-EPZ	0105	26.0	
15	+EPZ	1714	0.8		17	-EPZ	0105	34.6	
15	-EPZ	1817	14.4		17	+EPZ	0247	21.0	#-1153
15	+EPZ	2016	26.0		17	-EPZ	0410	10.9	
15	+EPZ	2016	36.0		17	+EPZ	0637	33.9	
15	-EPZ	2219	8.0		17	+EPZ	0702	4.3	
15	+EPZ	2219	20.0		17	+EPZ	0716	29.4	
15	-EPZ	2246	25.0		17	-EPZ	0746	30.0	
16	+EPZ	0014	41.9		17	-EXZ	0815	23.0	#-1154
16	-EPZ	0118	17.2		17	+EPZ	0914	29.0	
16	+EPZ	0209	13.4		17	-EPZ	0857	33.6	#-1155
16	-EPZ	0328	12.0		17	+EPZ	1140	21.6	#-1156
16	-IPZ	0328	17.2		17	-EpPZ	1140	27.5	#-1156
16	-IPZ	0328	21.2		17	+EsPZ	1140	31.0	#-1156
16	+EPZ	0358	25.6		17	+EPcPZ	1140	36.6	#-1156
16	+EPZ	0417	13.2		17	+EsPZ	1250	32.0	#-1157
16	+EPZ	0555	13.6		17	+EPZ	1331	31.0	
16	+EPZ	0617	25.6		17	-EPZ	1333	34.8	
16	+EPZ	0813	8.8		17	+EPZ	1413	4.0	
16	+EPZ	0846	27.2		17	-EPZ	1505	31.6	
16	-EPZ	1020	27.4		17	-EPZ	1523	11.9	
16	+EPZ	1251	35.0		17	+EPZ	1605	21.4	
16	-EPZ	1307	8.0		17	+EPZ	1626	21.3	
16	-EPZ	1409	30.6		17	-EPZ	1708	50.4	#-1158
16	-EPZ	1645	59.0		17	-EPZ	1724	32.2	
16	+EPZ	1646	15.0	#-1151	17	+EPZ	1806	33.0	
16	-EpZP	1646	19.0	#-1151	17	+EPcPZ	2019	36.0	#-1159
16	+EPPZ	1649	45.0	#-1151	17	-EPZ	2123	9.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
17	-EPZ	2214	38.2		19	+EPZ	0115	10.8	
17	+EPZ	2332	42.0		19	+EPZ	0206	4.0	
17	-EPZ	2332	44.0		19	-EPZ	0206	7.8	
17	+EPZ	2332	47.1		19	-EPZ	0417	25.0	
18	+EPZ	0044	5.6		19	-EPZ	0520	39.8	#-1167
18	+EPZ	0305	9.4		19	ESH	0525	43.0	#-1167
18	+EPZ	0322	42.0		19	-EXZ	0624	37.2	#-1168
18	+EPZ	0435	0.0	#-1160	19	+EPZ	0632	11.0	
18	-EsPZ	0435	8.6	#-1160	19	+EPZ	0717	37.6	
18	-EPZ	0444	45.0		19	+EPdiffZ	0750	49.0	#-1169
18	-EPZ	0445	41.8	#-1161	19	+IPZ	0806	1.7	
18	+EPZ	0520	54.2		19	-EPZ	0806	8.0	
18	+EPZ	0610	19.2		19	+EPZ	0819	32.8	
18	+EPZ	0610	26.0		19	-EPZ	0911	19.0	
18	+EPZ	0650	12.0		19	-EPZ	1121	8.7	
18	+EPZ	0650	18.0		19	-EPZ	1225	12.2	
18	+EPdiffZ	0650	30.2	#-1162	19	+EPZ	1248	20.2	
18	-EPZ	0711	40.2		19	-EPZ	1326	4.6	
18	+EPZ	0821	26.0		19	-EPZ	1416	18.0	
18	+IPZ	0821	30.0		19	+EPZ	1503	7.2	
18	ESH	0831	16.6		19	+EPZ	1503	19.0	
18	-EXZ	1107	50.0	#-1163	19	-EPZ	1509	52.6	
18	-EPPZ	1110	39.2	#-1163	19	+EPZ	1558	20.0	
18	+EPZ	1316	1.0		19	+EPZ	1823	54.0	
18	+EXZ	1324	40.0	#-1164	19	-EPZ	1823	55.8	
18	-EPZ	1513	11.0		19	+EPZ	1824	4.2	
18	+EPZ	1550	9.8		19	-EPZ	1909	2.0	
18	+EPZ	1836	3.2	#-1165	19	-EPZ	1909	6.0	
18	-IpPZ	1836	8.4	#-1165	19	-EPZ	2019	20.9	
18	-EPZ	2004	9.0		19	-EPZ	2123	28.0	
18	+EPZ	2025	42.0		19	+EPZ	2210	35.7	
18	+EPZ	2133	20.0		20	-EPZ	0013	43.8	
18	+EPZ	2133	21.8		20	+EPZ	0107	22.0	
18	+EPZ	2218	10.0	#-1166	20	-EXZ	0139	27.2	#-1170
18	-EPcPZ	2218	29.0	#-1166	20	+EXZ	0139	40.4	#-1170

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
20	ESH	0149	47.2	#-1170	20	-EPZ	2305	16.0	
20	+EPZ	0359	39.9		20	+EPZ	2305	26.6	
20	+EPKPdfZ	0359	45.4	#-1171	21	+EPKpabZ	0211	57.1	#-1181
20	+EPZ	0431	9.7		21	+EpPKiKPZ	0212	0.4	#-1181
20	-IXZ	0629	54.0	#-1172	21	-EPZ	0315	23.0	
20	-IPKiKPZ	0630	4.8	#-1172	21	-EPZ	0403	9.0	
20	-IpPKiKPZ	0630	11.0	#-1172	21	+EPZ	0403	14.4	
20	-IXZ	0652	27.6	#-1173	21	+EPZ	0403	20.0	
20	-IpPKPdfZ	0652	34.4	#-1173	21	+EPZ	0437	22.0	
20	-EPZ	0706	19.0		21	-EPZ	0437	23.7	
20	+EPZ	0921	38.4	#-1174	21	+IPZ	0505	14.4	#-1182
20	+EPZ	1044	27.0		21	-IpPZ	0505	18.5	#-1182
20	-EPZ	1044	33.6		21	-IPcPZ	0505	34.4	#-1182
20	+EPZ	1147	6.0	#-1175	21	-IXZ	0624	29.6	#-1183
20	-EPZ	1210	5.6		21	+EPcPZ	0624	38.4	#-1183
20	-EPZ	1324	16.0		21	+EPZ	0739	29.6	
20	+EPZ	1414	44.0	#-1176	21	+EPZ	0739	42.4	
20	-EPcPZ	1414	46.7	#-1176	21	+EPZ	0823	25.4	
20	ESH	1424	24.4		21	+EPZ	1101	30.2	
20	+EPZ	1757	7.0	#-1177	21	-EPZ	1258	38.0	#-1184
20	+EPcPZ	1757	14.0	#-1177	21	-EPcPZ	1258	42.4	#-1184
20	+EPZ	1827	1.2	#-1178	21	-EPZ	1424	31.0	
20	+EPcPZ	1827	8.0	#-1178	21	+EPZ	1527	12.0	
20	+EPZ	1904	4.4		21	-EPZ	1613	12.0	#-1185
20	+EPKPdfZ	1914	17.6	#-1179	21	+EPcPZ	1613	19.6	#-1185
20	-EXZ	1914	28.6	#-1179	21	+EPZ	1711	12.8	
20	+EPZ	2013	26.0		21	-EPZ	1824	20.0	
20	+EPZ	2013	32.2		21	-EPZ	2124	17.0	
20	-EPZ	2037	17.2	#-1180	21	+EPZ	2343	12.2	#-1186
20	-EPcPZ	2037	19.0	#-1180	21	+EPZ	2343	17.0	
20	-EpPZ	2037	42.3	#-1180	21	+EPZ	2343	28.5	
20	-EPZ	2217	26.0		22	-EPZ	0005	15.6	
20	+EPZ	2217	28.0		22	+EPdiffZ	0225	6.0	#-1187
20	-EPZ	2125	25.0		22	+EpPdiffZ	0225	14.7	#-1187
20	+IPZ	2305	12.4		22	+EPZ	0309	7.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
22	-EPZ	0552	27.7	#-1188	23	+EPZ	0425	4.6	
22	+EPcPZ	0552	30.0	#-1188	23	+EPZ	0425	16.0	
22	+EsPZ	0552	44.0	#-1188	23	+EPZ	0458	32.0	
22	+EXZ	0715	20.5	#-1189	23	-EXZ	0714	20.6	#-1198
22	-EsPZ	0715	30.6	#-1189	23	-EPKpbcZ	0714	27.7	#-1198
22	+EPZ	0838	26.0		23	-IPKiKPZ	0714	30.0	#-1198
22	+EPZ	0940	9.0		23	+EPZ	0716	43.6	#-1199
22	+EpPdiffZ	0940	21.5	#-1190	23	-EPcPZ	0716	49.2	#-1199
22	+EXZ	0951	40.0	#-1191	23	-EPZ	0820	32.4	#-1200
22	+EPZ	1112	40.0		23	+EPcPZ	0820	36.6	#-1200
22	-EPZ	1147	23.4	#-1192	23	-EPZ	0843	7.7	
22	-EPZ	1155	25.4		23	+EPZ	0922	5.0	
22	-EPZ	1155	40.2		23	+EPZ	0922	7.0	
22	+EPZ	1156	42.0		23	+EPZ	1344	22.0	
22	+EPZ	1313	47.0		23	-EPZ	1911	19.4	
22	+EPZ	1313	51.2		23	-EpPZ	1959	4.0	#-1201
22	-EPZ	1349	35.9	#-1193	23	-EXZ	1959	10.2	#-1201
22	-IPcPZ	1349	41.4	#-1193	23	+EPKiKPZ	2004	45.0	#-1201
22	-EPZ	1415	18.6		23	+EPZ	2154	3.8	#-1202
22	+EPZ	1415	50.0		23	+EPcPZ	2154	7.6	#-1202
22	+EPZ	1511	2.4		23	+EPZ	2201	40.5	#-1203
22	+EPZ	1520	20.7		23	+EPcPZ	2201	47.3	#-1203
22	+EPZ	1708	40.2	#-1194	23	+EXZ	2304	30.0	#-1204
22	-IPcPZ	1708	43.8	#-1194	23	+EXZ	2304	41.7	#-1204
22	+EXZ	1816	56.0	#-1195	24	+EPZ	0218	38.0	
22	+EPZ	1827	2.0	#-1196	24	+EXZ	0316	16.0	#-1205
22	-EpPZ	1827	9.9	#-1196	24	+EPZ	0516	28.4	
22	+EPcPZ	1827	14.4	#-1196	24	+EPZ	0539	1.0	
22	-EPZ	1925	15.0		24	+EPdiffZ	0540	47.0	#-1206
22	+EPZ	1925	20.9		24	+EpPdiffZ	0703	58.6	#-1207
22	-EPZ	2025	24.0		24	+EPZ	0706	10.2	
23	-EPZ	0025	23.8		24	+EPZ	0706	15.0	
23	+EsPZ	0035	8.7	#-1197	24	-EPZ	1025	17.8	
23	+EPZ	0114	10.0		24	-EPZ	1102	19.0	
23	+EPZ	0205	18.0		24	-EXZ	1358	35.0	#-1208

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
24	+EPZ	1425	16.0		25	-EPZ	1356	12.8	#-1215
24	-EPZ	1433	33.4		25	-EPZ	1422	36.0	
24	+EPZ	1516	12.2		25	-EPZ	1523	29.5	
24	+EPZ	1717	17.2		25	+EPZ	1523	37.0	
24	+EPZ	1911	14.0		25	+EPZ	1553	23.4	
24	+EPZ	2115	2.0		25	+EPZ	1553	37.0	
25	-EPZ	0026	43.0		25	+EPZ	1618	30.5	
25	-IPZ	0039	58.4	#-1209	25	+EPZ	1813	31.7	
25	-IXZ	0040	2.3	#-1209	25	+EPZ	1935	32.4	
25	ESH	0050	7.6	#-1209	25	+EPZ	1935	34.6	
25	-EXZ	0051	33.8	#-1210	25	+EPZ	2109	5.8	
25	-EpPZ	0051	41.0	#-1210	25	-EPZ	2341	14.0	
25	+EPcPZ	0051	52.0	#-1210	25	+EPZ	2341	28.0	
25	+EPZ	0125	15.6		26	+EPZ	0250	38.4	#-1216
25	+EPZ	0125	19.2		26	-EpPZ	0250	50.4	#-1216
25	+EPZ	0312	2.4		26	+EPZ	0251	2.0	
25	+EPZ	0323	7.0		26	+IpPZ	0542	59.0	#-1217
25	+EPZ	0612	5.0	#-1211	26	+IsPZ	0543	0.4	#-1217
25	-IPcPZ	0612	27.0	#-1211	26	-IPZ	0623	47.4	#-1218
25	-EPZ	0809	0.2		26	+IPcPZ	0623	53.2	#-1218
25	+EPZ	0821	21.0		26	+EPZ	0703	12.0	
25	+EPZ	0829	37.0		26	+EPZ	0708	32.8	#-1219
25	+EPZ	1016	45.2		26	-EpPZ	0708	40.4	#-1219
25	-EPZ	1017	4.4		26	+EPZ	1032	49.0	
25	+EPZ	1121	27.0	#-1212	26	-IPZ	1100	43.0	#-1220
25	-EPcPZ	1121	29.0	#-1212	26	-IpPZ	1100	55.2	#-1220
25	-IPZ	1133	30.0		26	-EPZ	1214	7.6	
25	+IPZ	1133	34.8	#-1213	26	+EPZ	1222	16.9	
25	-IpPZ	1133	37.8	#-1213	26	-EPZ	1320	1.0	
25	-IsPZ	1133	40.6	#-1213	26	+EPZ	1320	4.6	
25	ESH	1144	10.6	#-1213	26	+EPZ	1350	39.7	
25	+EPZ	1225	8.0		26	-EPZ	1624	24.1	
25	+EPZ	1225	12.8		26	-EPZ	1802	32.6	
25	+EPZ	1340	53.0	#-1214	26	+EPZ	1802	44.8	
25	+EPZ	1353	10.0		26	-EPZ	2011	3.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
26	+EPZ	2116	3.0		28	-EPZ	0047	31.2	#-1226
26	+EPZ	2116	5.4		28	-EsPZ	0047	38.9	#-1226
26	+EPZ	2212	3.0		28	+EPZ	0118	23.2	
27	+EXZ	0011	33.3	#-1221	28	-EPZ	0220	32.8	
27	+EPZ	0354	21.8		28	+EPZ	0440	7.0	
27	-EPKPdfZ	0356	0.0	#-1222	28	+EPZ	0440	14.3	
27	+EPZ	0512	12.5		28	+EPZ	0651	42.0	
27	+EPZ	0622	2.9	#-1223	28	+EPZ	0907	3.0	
27	-EPcPZ	0622	17.4	#-1223	28	+EPKPdfZ	1143	29.4	#-1227
27	+EPZ	0640	2.0		28	-EpPKPdfZ	1143	35.8	#-1227
27	+EPZ	0640	6.8		28	-EpPKPbcZ	1143	41.1	#-1227
27	-EPZ	0640	12.8		28	+EPZ	1502	51.8	
27	-EPZ	0947	0.8		28	+EPZ	1614	1.0	#-1228
27	+EPZ	1008	12.9		28	+EsPZ	1614	8.1	#-1228
27	+EPZ	1023	8.4		28	+EpPZ	1631	37.0	#-1229
27	+EPZ	1050	24.0		28	-EPZ	1713	48.3	#-1230
27	+EPZ	1106	4.9		28	+EPZ	2002	23.5	
27	+EPZ	1237	17.0		28	+EPZ	2002	44.8	
27	+EPZ	1334	51.1		28	+EPZ	2017	6.3	
27	+EPZ	1337	21.6	#-1224	28	+EPZ	2017	9.0	
27	+EPZ	1733	16.0		28	-IPZ	2017	11.6	
27	+EPZ	1733	22.0		28	ESH	2027	42.6	
27	+EPZ	1735	30.2		28	+EPZ	2316	0.0	
27	+EPZ	1809	28.0		29	+EPZ	0013	14.9	
27	+EPZ	1841	42.6		29	+EPdiffZ	0234	49.0	#-1231
27	-EPZ	1912	27.0		29	+EsPdiffZ	0235	16.1	#-1231
27	+EPZ	1922	1.4		29	+EPKKPbcZ	0251	7.0	#-1231
27	-EPZ	1933	42.6	#-1225	29	-EPZ	0318	0.9	#-1232
27	-EPcPZ	1933	44.1	#-1225	29	+EPZ	0340	54.9	
27	+EPZ	2034	20.0		29	-EPZ	0705	9.4	
27	+EPZ	2112	33.0		29	+EPZ	0705	15.0	
27	-EPZ	2146	20.0		29	+EPZ	0905	5.2	
27	+EPZ	2312	14.9		29	+EPZ	0905	9.0	
27	-EPZ	2351	8.9		29	+EPZ	0934	35.0	
28	+EPZ	0016	2.4		29	-EPZ	0934	40.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	-EXZ	0939	3.9	#-1233	30	+EPZ	1208	4.4	
29	-EPKpdfZ	0939	19.4	#-1233	30	-EPZ	1725	24.8	
29	+EpPKiKPZ	0941	18.7	#-1233	30	+EPZ	1804	17.9	
29	-EPZ	1019	37.2		30	+EPZ	2115	5.4	#-1238
29	+EPZ	1103	25.3		30	-EpPZ	2115	7.3	#-1238
29	+EPZ	1103	29.4		31	+EPZ	0113	1.7	
29	-EPZ	1304	41.8		31	+EPZ	0232	49.6	#-1239
29	-EPZ	1318	0.6		31	-EPcPZ	0232	51.4	#-1239
29	+EPZ	1432	57.1	#-1234	31	+EPZ	0333	16.2	
29	-EPZ	1521	10.0		31	-EPZ	0333	25.4	
29	-EPZ	1751	18.4		31	-EPZ	0409	12.8	
29	-EPZ	1751	24.2		31	+EPZ	0518	35.0	
29	+EPcPZ	1748	33.5	#-1235	31	+EXZ	0702	26.0	#-1240
29	+EPZ	1758	16.0		31	-EPZ	0809	9.3	
29	+EPZ	1802	18.0		31	+EPZ	0849	35.0	
29	-EPZ	1802	22.2		31	+EPZ	1221	19.6	
29	-EPZ	1802	33.0		31	-EPZ	1330	34.4	#-1241
29	+EPZ	1952	5.3		31	+EPcPZ	1330	36.2	#-1241
29	-EPZ	1952	10.5		31	+EpPnZ	1332	32.0	#-1242
29	+EPZ	2018	17.0		31	+EPZ	1332	37.0	#-1242
29	-EPZ	2018	20.4		31	+EPnPnZ	1332	43.6	#-1242
29	+EPZ	2018	27.5		31	+EPZ	1404	26.9	#-1243
29	+EPZ	2122	16.6		31	+EPcPZ	1404	39.0	#-1243
29	+EPdiffZ	2221	7.0	#-1236	31	+EPZ	1419	45.4	
29	-EPKpdfZ	2224	12.4	#-1236	31	-EPZ	1419	47.1	
29	+EXZ	2224	23.0	#-1236	31	-EPZ	1453	23.2	
30	-EPZ	0051	15.2		31	+EPZ	1529	42.9	
30	+EXZ	0159	31.0	#-1237	31	+EPZ	1620	11.7	
30	+EPcPZ	0159	34.6	#-1237	31	+EpPZ	1658	45.0	#-1244
30	+EPZ	0200	9.7		31	+EPZ	1658	50.2	#-1244
30	+EPZ	0810	50.4		31	+EPZ	1719	20.0	
30	+EPZ	0810	54.0		31	+EPZ	1719	22.4	
30	+EPZ	0842	26.5		31	+EPZ	1719	30.0	
30	+EPZ	0938	46.0		31	+EPZ	2247	17.6	
30	-EPZ	1106	2.5		31	+EPZ	2252	1.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
31	-EPZ	2335	0.0		1	ESH	2107	31.4	
31	+EPZ	2335	5.0		1	+EPZ	2216	12.0	
31	+EPZ	2335	8.9		2	-EPZ	0328	35.6	
Aug.					2	-EPZ	0328	48.6	
1	+EPZ	0033	29.0	#-1245	2	+EPZ	0329	3.1	
1	+EXZ	0033	40.0	#-1245	2	+EPZ	0402	40.3	
1	+EXZ	0045	46.0	#-1246	2	+EPZ	0509	12.0	#-1250
1	+EPZ	0121	21.4		2	-EpPZ	0509	24.0	#-1250
1	+EPZ	0137	27.0		2	+EPZ	0528	12.8	#-1251
1	+EPZ	0245	29.6		2	+EpPZ	0528	16.0	#-1251
1	+EPZ	0418	21.5		2	+EXZ	0750	5.9	#-1252
1	-EPZ	0517	38.6		2	+EPcPZ	0750	11.0	#-1252
1	-EPZ	0629	56.0		2	+EPZ	0821	35.0	
1	+EPZ	0824	25.8		2	+EPZ	0853	21.7	
1	+EPZ	0935	59.0	#-1247	2	+EPZ	0951	16.0	
1	+EpPZ	0936	8.4	#-1247	2	-IPZ	0951	19.0	
1	+EsPZ	0936	13.0	#-1247	2	-EPZ	1009	52.8	
1	+EPZ	1039	46.0		2	-IPZ	1009	55.6	
1	+EPZ	1150	11.0		2	+EPZ	1010	1.9	
1	+EPZ	1212	8.4		2	ESH	1020	21.0	
1	-EPZ	1312	42.6		2	-EPZ	1037	31.0	#-1253
1	+EPZ	1314	1.6		2	-IXZ	1037	39.8	#-1253
1	+EPZ	1408	30.0		2	-EPZ	1121	2.0	
1	-EPZ	1515	2.2		2	-EPZ	1238	4.4	
1	+EPZ	1626	9.0		2	+EPZ	1238	10.9	
1	+EPZ	1652	16.2		2	+EPZ	1420	15.9	
1	+EPZ	1652	29.0		2	+IPZ	1420	18.0	
1	+EPZ	1654	5.2	#-1248	2	+IpPZ	1439	22.5	#-1254
1	+EPZ	1705	21.4	#-1249	2	-EsPZ	1439	26.6	#-1254
1	+EPcPZ	1705	25.6	#-1249	2	+EPZ	1439	34.6	
1	+EPZ	1734	39.0		2	-EPZ	1537	16.0	#-1255
1	+EPZ	1827	21.6		2	+EXZ	1537	19.9	#-1255
1	+EPZ	1943	4.8		2	+EPZ	1705	38.7	
1	-IPZ	2056	40.1		2	+EPZ	1723	28.4	
1	-IPZ	2056	45.6		2	-EPZ	1916	38.9	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
2	+EPZ	2025	1.0		3	+EPZ	2055	35.5	#-1265
2	+EPZ	2112	14.7		3	-EPcP	2055	39.0	#-1265
2	-EPZ	2315	23.9		3	+EPZ	2059	22.6	#-1266
2	-EPZ	2315	32.4		3	+EPZ	2139	26.0	#-1267
3	-EPZ	0117	11.6	#-1256	3	+EPnPNZ	2140	31.6	#-1267
3	+EPZ	0202	2.0		3	+EPZ	2325	46.0	
3	+EPZ	0305	9.4	#-1257	3	+EPZ	2350	5.6	
3	+EPZ	0319	15.6		4	+EPZ	0054	26.4	#-1268
3	+IPZ	0422	4.4	#-1258	4	-EPZ	0114	0.0	
3	-IpPZ	0422	16.0	#-1258	4	+EPZ	0212	21.8	#-1269
3	-EPPZ	0425	45.0	#-1258	4	+EXZ	0212	27.2	#-1269
3	+EPZ	0511	8.4		4	-EPZ	0728	1.3	
3	+EPZ	0511	27.5		4	+EPZ	0849	36.4	#-1270
3	-IPZ	0522	23.0		4	+EPZ	0852	35.0	
3	-IPZ	0521	34.0	#-1259	4	-EPZ	0941	24.6	
3	-EPZ	0612	26.4	#-1260	4	+EsPZ	1007	41.4	#-1271
3	-EsPZ	0612	31.6	#-1260	4	-IXZ	1105	55.0	#-1272
3	+EPZ	0613	4.3		4	+EPZ	1136	38.0	#-1273
3	+EPZ	0613	8.0		4	+EPcPZ	1136	43.0	#-1273
3	+EPZ	0735	29.0	#-1261	4	-EPZ	1305	41.0	#-1274
3	-EpPZ	0735	35.2	#-1261	4	-EpPZ	1305	45.0	#-1274
3	-EPZ	0823	34.0		4	-EPZ	1322	27.4	#-1275
3	+EPZ	0823	43.0		4	+EPZ	1345	50.0	#-1276
3	+EPZ	0840	7.2		4	-EPZ	1916	18.8	#-1277
3	+EPZ	1022	39.6		4	+EPZ	1943	15.0	#-1278
3	+IPZ	1212	2.0	#-1262	4	+EPZ	2021	1.3	
3	-IPcPZ	1212	4.0	#-1262	4	+EpPZ	2228	56.0	#-1279
3	+EPZ	1310	23.4	#-1263	4	+EPZ	2229	5.4	
3	+EpPZ	1310	28.4	#-1263	4	+EPZ	2312	4.2	
3	+EPZ	1353	31.8	#-1264	5	+EXZ	0033	8.4	
3	-EPcPZ	1353	44.2	#-1264	5	+EPZ	0021	9.4	
3	-EpPZ	1353	46.8	#-1264	5	+EPZ	0027	18.0	
3	+EPZ	1716	26.0		5	+EPZ	0107	0.8	
3	-EPZ	1716	34.0		5	+EPZ	0201	23.0	
3	+EPZ	1716	43.0		5	+EPZ	0222	11.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
5	+EPZ	0303	34.4		6	+EPZ	1225	21.0	#-1284
5	+EPZ	0348	4.0		6	-EPnZ	1225	23.4	#-1284
5	+EPZ	0348	16.0		6	-IPZ	1225	27.1	#-1284
5	+EPZ	0528	24.0		6	+EPZ	1420	10.0	
5	-EPZ	0610	40.0	#-1280	6	+EPZ	1610	1.2	
5	+EPZ	0611	2.0		6	+EPZ	1610	4.6	
5	+EPZ	0803	8.2		6	-EPZ	1907	58.0	#-1285
5	+EPZ	0922	25.0		6	-EPcPZ	1907	58.7	#-1285
5	+EPZ	1144	12.0		6	+EPZ	1925	29.0	
5	+EPZ	1311	2.9		6	+EPZ	1925	31.6	
5	-EPZ	1406	58.4	#-1281	6	+EPZ	2008	21.2	
5	-IPcPZ	1407	0.8	#-1281	6	+EPZ	2320	4.0	
5	+EpPZ	1408	45.0	#-1281	6	+EPZ	2320	8.6	
5	ESH	1416	47.9	#-1281	7	+IPZ	0050	14.8	#-1286
5	-EPZ	1429	23.6		7	-IpPZ	0050	28.6	#-1286
5	-EPZ	1430	29.4		7	-EPcPZ	0215	38.2	#-1287
5	-IPZ	1430	38.2		7	+EXZ	0216	11.6	#-1287
5	-EPZ	1516	26.0		7	+EPZ	0614	12.0	
5	+EPZ	1610	18.4		7	-EPZ	0721	14.0	
5	+EPZ	1917	32.6		7	+EPZ	1225	25.6	
6	+EPZ	0016	39.7		7	+EPZ	1334	53.2	
6	+EPZ	0025	2.0		7	-EPZ	1342	2.0	
6	-EPZ	0025	19.0		7	-EPcPZ	1753	50.9	#-1288
6	-EPZ	0138	8.0		7	-EPZ	1821	26.6	
6	-EPZ	0340	46.7		7	-EPZ	1933	29.0	
6	+EPZ	0455	31.4	#-1282	7	+EPZ	2048	13.0	#-1289
6	-EPcPZ	0455	35.2	#-1282	7	-EpPZ	2048	24.9	#-1289
6	+EPZ	0520	37.6		7	+EPZ	2108	26.0	
6	+EPZ	0555	15.0		7	+EPZ	2301	5.0	#-1290
6	+EPZ	0705	44.8		7	+EPZ	2354	4.9	
6	+EPZ	0705	49.4		8	+EPZ	0116	23.0	
6	-EPZ	0755	25.6		8	-EPZ	0118	13.0	
6	+EPZ	1153	52.2	#-1283	8	+EPZ	0423	41.5	
6	-IPnZ	1153	56.0	#-1283	8	+EPZ	0528	19.0	
6	+EPZ	1157	32.4		8	-EPZ	0621	36.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
8	-EPZ	0943	8.6		9	+EPZ	1201	33.6	
8	+EPZ	1015	44.2	#-1291	9	+EPZ	1344	6.7	
8	-EPZ	1019	8.9		9	-IPZ	1508	51.9	#-1300
8	-EPZ	1043	8.0		9	+EPZ	1628	53.4	
8	+EPZ	1043	17.9		9	-EPZ	1735	56.6	
8	+EPZ	1110	41.2	#-1292	9	-EPZ	1736	13.9	
8	+EPcPZ	1110	44.2	#-1292	9	+EPZ	1942	28.9	#-1301
8	-EsPZ	1110	51.3	#-1292	9	-EpPZ	1942	43.2	#-1301
8	-EXZ	1221	16.4	#-1293	9	+EPZ	2003	30.0	
8	+EPKpabZ	1426	3.1	#-1294	9	+EPZ	2202	53.2	#-1302
8	+EPZ	1622	1.9		9	+EPZ	2303	28.2	
8	+EPZ	1622	6.6		10	-EPZ	0038	53.4	#-1303
8	-EPZ	1921	42.8		10	-EPZ	0045	40.0	#-1304
8	-EPZ	2007	48.0		10	+EPcPZ	0045	43.5	#-1034
8	+EPZ	2202	35.6		10	-EPcPZ	0149	26.4	#-1305
8	+EPZ	2202	38.4		10	+IPZ	0204	2.8	
8	+EPZ	2213	3.0		10	+EPZ	0204	10.6	
8	+EPZ	2248	30.6	#-1295	10	-EPZ	0232	15.2	#-1306
8	-IpPZ	2248	40.0	#-1295	10	-EPZ	0309	44.6	
8	+EPnPNZ	2249	32.0	#-1295	10	-EPZ	0453	53.2	#-1307
9	+EPZ	0335	4.0		10	+EpPZ	0453	55.2	#-1307
9	+EPZ	0407	54.2		10	+EPZ	0521	23.9	
9	+EPZ	0408	0.2		10	+EPZ	0707	12.0	
9	-EXZ	0552	39.4	#-1296	10	-IpPZ	1150	15.0	#-1308
9	+EPZ	0718	18.4	#-1297	10	+IPZ	1252	1.5	
9	+EpPZ	0718	20.8	#-1297	10	+EPZ	1252	9.1	
9	+EPZ	0728	19.0		10	+EPZ	1449	32.5	
9	+EPZ	0749	36.9		10	+EPZ	1743	21.9	
9	+EPZ	0822	12.4		10	-EPZ	1857	56.0	
9	+EPcPZ	0822	16.3		10	+IPZ	1858	4.7	
9	+EPZ	0848	38.0		10	+EPZ	1925	21.0	
9	+EXZ	0911	44.0	#-1298	10	+EPZ	1951	44.4	
9	+EPZ	1016	30.5		10	+EPZ	2018	22.2	
9	-IPZ	1116	6.2	#-1299	10	+EpPZ	2117	45.0	#-1309
9	ESH	1125	49.0	#-1299	10	-EPZ	2259	27.1	#-1310

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
10	+EPZ	2308	37.0		12	+IpPZ	1840	1.0	#-1316
11	+EPZ	0028	7.6	#-1311	12	+EsPZ	1840	3.8	#-1316
11	-EPZ	0035	4.0		12	+EPZ	2224	7.6	
11	-EpPZ	0215	44.0	#-1312	12	+EPZ	2308	34.2	#-1317
11	-EPZ	0334	17.8		13	+EPZ	0108	8.8	
11	-EPZ	0334	20.6		13	+EPZ	0543	24.4	
11	+EPZ	0451	2.0		13	-EPZ	0556	13.6	
11	+EPZ	0642	17.9		13	+EPZ	0704	0.6	
11	-EPZ	0654	44.9	#-1313	13	+EPZ	1404	18.0	
11	+EPcPZ	0654	49.0	#-1313	13	-EPZ	1424	11.2	
11	+EPZ	0853	8.6		13	+EPZ	1531	45.2	
11	-EPZ	0948	12.0		13	+EPZ	1531	47.0	
11	-EPZ	1236	27.8		13	-EPZ	1531	50.0	
11	-EXZ	1237	50.2	#-1314	13	+EPZ	1603	0.9	
11	+EPKiKPZ	1241	43.6	#-1314	13	+EPZ	1944	15.0	
11	+EPZ	1244	15.8		13	+EPZ	2124	38.4	#-1318
11	-EPZ	1252	50.2		14	-EPZ	0219	44.0	#-1319
11	+EPZ	1407	25.0		14	+EpPZ	0220	6.0	#-1319
11	+EXZ	1521	16.0	#-1315	14	+EPZ	0316	28.4	
11	+EPZ	1613	5.4		14	-IPZ	0317	54.2	
11	-EPZ	1806	20.4		14	ESH	0335	27.4	
11	+EPZ	2222	52.4		14	+EPZ	0402	27.2	
11	+EPZ	2222	57.2		14	-EPZ	0402	32.0	
12	+EPZ	0141	43.4		14	-EPZ	0402	37.4	
12	+EPZ	0141	49.0		14	-EPZ	0443	14.9	
12	+EPZ	0325	20.2		14	+EPZ	0708	5.0	
12	+EPZ	0517	6.6		14	+EPZ	0802	18.4	
12	+EPZ	0535	41.7		14	+EPZ	1107	26.8	
12	+EPZ	0538	45.0		14	+EPKpdFZ	1225	2.6	#-1320
12	-EXZ	1101	29.0		14	+EXZ	1416	41.8	#-1321
12	+EPZ	1116	42.5		14	-EPZ	1814	19.3	
12	+EPZ	1409	29.4		14	+EPZ	1814	22.4	
12	-EPZ	1724	55.0		14	+EPZ	2017	23.0	
12	-EPZ	1824	31.4		14	+IPZ	2017	25.0	
12	+EPZ	1839	59.4	#-1316	15	+EPZ	0116	52.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	+EPZ	0711	0.0		17	+EPZ	1915	5.9	
15	-IPZ	0807	29.4	#-1322	17	-EPZ	1915	9.0	
15	+EPZ	1014	15.4		17	-EPZ	2028	0.4	
15	+EPZ	1401	1.9		17	+EPZ	2030	26.5	#-1329
15	-EpPKiKPZ	1807	38.6	#-1323	17	+EPZ	2148	23.9	
15	-EPZ	2002	0.0		17	+EPZ	2319	23.0	
16	+EPZ	0256	22.2		18	+EPZ	0240	30.0	
16	-EPZ	0436	0.0		18	+EPZ	0417	37.6	
16	+EPZ	0525	22.0		18	-EPZ	0530	32.6	
16	+EPZ	0620	35.5		18	+EPZ	0819	20.0	
16	-EPZ	0647	31.0	#-1324	18	+EPZ	0837	35.0	
16	-EPcPZ	0647	35.0	#-1324	18	+EPZ	0847	9.0	
16	+EPZ	0816	32.6		18	+EPZ	0910	12.5	
16	+EPZ	0913	32.5	#-1325	18	+EPZ	0923	50.8	
16	-EPZ	1234	12.0	#-1325	18	-EPZ	0923	51.7	
16	+EPZ	1306	6.3		18	-IPZ	0954	28.0	#-1330
16	+EPZ	1335	6.7		18	-IXZ	0954	29.0	#-1330
16	+EPZ	1426	33.3	#-1326	18	+EPZ	1015	41.9	
16	-EpPZ	1426	36.9	#-1326	18	+EPZ	1036	33.0	#-1331
16	+EPZ	1620	21.6		18	-IPcPZ	1036	35.0	#-1331
16	+EPZ	1813	15.4		18	-IpPZ	1036	41.2	#-1331
16	+EPZ	1813	20.0		18	+EPZ	1517	23.4	
16	+EPZ	2014	41.5		18	-EPZ	1517	40.0	
17	-EpPZ	0024	15.0	#-1327	18	-EPZ	1628	13.0	
17	+EPZ	0024	55.6		18	-EPZ	1628	15.2	
17	+EPZ	0237	9.8		18	+EPZ	1758	11.6	#-1332
17	-EPZ	0237	12.0		18	-EpPZ	1758	15.0	#-1332
17	-EPZ	0816	32.4		18	+EPZ	2047	22.9	
17	+EPZ	0900	42.0	#-1328	18	-EPZ	2231	32.0	
17	+EPZ	1111	47.0		19	+EPcPZ	0209	28.4	#-1333
17	+EPZ	1219	30.2		19	-EpPZ	0209	34.8	#-1333
17	+EPZ	1612	5.4		19	+EPZ	0331	7.8	
17	+EPZ	1612	7.0		19	+EPZ	0605	34.8	
17	+EPZ	1642	49.7		19	+EPZ	0720	19.8	
17	+EPZ	1804	16.4		19	-EPZ	0826	10.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
19	+EPZ	1112	35.9		21	-EPZ	0720	3.6	
19	+EPZ	1303	51.1		21	+EPZ	0823	12.0	
19	-IPZ	1303	56.8		21	+EPZ	0843	10.0	
19	+EPZ	1430	39.0	#-1334	21	+EPZ	0843	16.3	
19	+EPZ	1440	3.0		21	-IPZ	0929	36.8	
19	+EPZ	1440	16.0		21	+EPZ	1033	26.4	
19	-EPZ	1726	9.4		21	+EPZ	1123	7.0	
19	-EPZ	2048	53.0		21	+EPZ	1315	4.4	
19	-IPZ	2049	7.6		21	+EPZ	1457	34.0	
19	-EPZ	2218	1.0		21	+EPZ	1641	13.0	
19	-EPZ	2254	44.0		21	+EPZ	1751	31.0	
19	-IPZ	2254	47.1		21	+IPZ	1751	49.0	
19	ESH	2305	10.4		21	+IPZ	1803	31.6	#-1339
20	+EPZ	0306	8.9	#-1335	21	+EPKiKPZ	1809	14.6	#-1339
20	+EPZ	0809	23.2	#-1336	21	+EXZ	1809	22.0	#-1339
20	+EPZ	1008	45.6		21	+EPZ	1920	18.0	
20	+EPZ	111	17.0		22	+EPZ	0027	15.0	
20	-EPZ	1130	40.0	#-1337	22	+EPZ	0027	22.0	
20	+EPZ	1201	42.4		22	+EPZ	0053	37.0	
20	+EPZ	1314	33.3		22	-EPZ	0053	41.0	
20	+EPZ	1316	18.8		22	+EPZ	0306	26.2	
20	-EPZ	1406	42.0		22	+IPZ	0324	1.4	
20	+EPZ	1423	7.6		22	-EPZ	0826	51.0	
20	-EPZ	1702	2.4		22	-EPZ	1026	42.8	#-1340
20	+EPZ	1807	11.0		22	-IPcPZ	1026	46.4	#-1340
20	-EPZ	1828	23.8		22	+EPZ	1126	37.1	
20	+EPZ	1837	52.0		22	-IPZ	1151	11.0	#-1341
20	+EPZ	1853	14.2		22	-IPcPZ	1151	14.0	#-1341
21	+EPZ	0216	38.6		22	+EPZ	1501	28.8	
21	+EPZ	0216	42.0		22	+EPZ	1501	31.0	
21	+EPZ	0321	20.0	#-1338	22	-EPZ	1830	57.2	
21	-EPcPZ	0321	31.0	#-1338	22	+EPZ	2149	6.4	#-1342
21	-EpPZ	0321	41.6	#-1338	22	-EPZ	2209	17.0	
21	-EPZ	0521	11.4		22	-EPZ	2209	25.0	
21	-EPZ	0705	47.0		22	-EPZ	2353	33.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
23	+EPZ	0412	9.2		25	-EPZ	1707	23.4	
23	-EPZ	0412	20.0		26	+EPZ	0408	27.2	
23	+EPZ	0610	31.4		26	-EPZ	0614	22.8	
23	-EPZ	1106	51.0	#-1343	26	+EPZ	1130	20.2	#-1346
23	+EPZ	1702	24.7		26	-EsPZ	1130	24.6	#-1346
23	+EPZ	2011	45.9		26	-EPZ	1214	25.8	
24	+EPZ	0053	9.5		26	+EPZ	1413	25.4	
24	+EPZ	0226	39.0		26	-IPZ	1518	31.6	#-1347
24	+EPZ	0401	41.6		26	+IPcPZ	1518	33.0	#-1347
24	+IPZ	0455	59.0	#-1344	26	ESH	1529	21.0	#-1347
24	+IpPZ	0456	4.4	#-1344	26	+EPZ	2216	26.6	
24	ESH	0506	11.0	#-1344	26	+EPZ	2319	20.4	#-1348
24	-EPZ	0518	8.0		27	-EPZ	0023	40.0	#-1349
24	+IpPZ	0711	13.0	#-1345	27	+IPZ	0051	24.4	#-1350
24	+IsPZ	0711	15.4	#-1345	27	+EPZ	0354	13.4	
24	+EPZ	0822	17.0		27	-EPZ	0400	12.2	#-1351
24	-EPZ	0822	35.6		27	+EXZ	0455	48.2	#-1352
24	-EPZ	0919	19.0		27	-EXZ	0913	37.2	#-1353
24	-EPZ	0919	22.0		27	+EPZ	1218	4.6	#-1354
24	+EPZ	1013	24.2		27	-EPZ	1612	58.0	#-1355
24	-IPZ	1013	25.6		27	-EPcPZ	1613	3.8	#-1355
24	ESH	1023	15.2		27	-EXZ	1807	30.2	#-1356
24	-EPZ	1327	7.8		27	+EpPZ	1807	37.0	#-1356
24	+EPZ	1417	30.5		28	-EPZ	0822	10.0	#-1357
24	-EPZ	1744	9.4		28	+EXZ	0822	25.0	#-1357
24	+EPZ	1828	8.7		28	+EPZ	0909	19.6	
24	-EPZ	1828	11.1		28	+EPZ	1107	21.8	
24	-EPZ	2017	40.6		28	-EPZ	1107	24.4	
24	-EPZ	2128	18.9		28	-EPZ	1206	12.0	
25	-EPZ	0219	44.2		28	+EPZ	1549	20.4	
25	+EPZ	0501	11.0		28	-EPZ	1603	25.2	#-1358
25	+EPZ	0501	16.2		28	+EXZ	1603	38.0	#-1358
25	+EPZ	1102	48.0		29	+EPZ	0001	17.0	
25	+EPZ	1102	52.2		29	+EPZ	0334	4.8	
25	-EPZ	1500	14.6		29	+EPZ	0515	38.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	-EPZ	1001	16.4	#-1359	30	+EPZ	1755	9.2	
29	+EPZ	1110	5.0		30	+EPZ	1840	11.6	
29	-EPZ	1145	9.8		30	+EPZ	1910	30.0	
29	+EPZ	1257	50.0		30	+EPZ	1910	37.4	
29	+IPZ	1309	40.0		30	+EPZ	1948	50.4	
29	+IPZ	1346	59.0		30	+IPZ	2127	10.0	
29	+IPcPZ	1347	0.6	#-1360	30	+IPZ	2127	15.0	
29	+EpPZ	1347	25.4	#-1360	31	+IPZ	0006	2.0	
29	+EPZ	1507	8.0		31	+EPZ	0121	1.7	
29	+EPZ	1924	11.4		31	+EPZ	0526	2.6	
29	+EPZ	2006	17.7		31	-EPZ	0718	37.7	#-1368
29	+EPZ	2102	34.0		31	+EPZ	0906	26.2	
30	-EPZ	0002	35.5		31	-EPZ	1228	41.6	
30	+EPZ	0210	11.0		31	-IPdiffZ	1301	10.0	#-1369
30	+EPZ	0210	19.4		31	+IPKKPbcZ	1317	37.4	#-1369
30	+EPZ	0314	11.2	#-1361	31	ESH	1326	13.4	#-1369
30	+EPZ	0523	32.4		31	-IPdiffZ	1328	35.0	#-1370
30	-EPZ	0523	54.8		31	+IPPdiffZ	1328	43.2	#-1370
30	+EPZ	0709	26.4	#-1362	31	+EPdiffZ	1341	8.2	#-1371
30	+IPcPZ	0709	30.4	#-1362	31	+EpPdiffZ	1341	19.2	#-1371
30	+EPZ	0726	12.9	#-1363	31	-EpPdiffZ	1345	25.0	#-1372
30	-EPZ	0815	5.0	#-1364	31	+EPZ	1706	55.2	#-1373
30	-EpPZ	0815	7.4	#-1364	31	-EpPZ	1707	1.8	#-1373
30	-EPZ	0934	26.4		31	+EPcPZ	1834	40.5	#-1374
30	+EPZ	1044	15.0		31	-EPcPZ	1851	25.5	#-1375
30	+IPZ	1101	26.4	#-1365	31	+EPZ	2015	9.4	
30	-EXZ	1101	33.2	#-1365	31	+EPdiffZ	2040	25.0	#-1376
30	+IPZ	1226	9.0	#-1366	31	-EpPdiffZ	2040	34.0	#-1376
30	-IpPZ	1226	10.4	#-1366	31	+EPZ	2215	34.2	
30	ESH	1232	8.0	#-1366	31	-EPdiffZ	2351	32.6	#-1377
30	+EPZ	1403	0.4		31	-EpPdiffZ	2351	44.4	#-1377
30	-IPZ	1403	6.2		Sep.				
30	-IPZ	1403	15.4		1	+EPZ	0014	16.0	#-1378
30	+EXZ	1408	0.6	#-1367	1	-EPcPZ	0014	18.6	#-1378
30	+EPZ	1755	3.5		1	+EPdiffZ	0038	39.8	#-1379

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
1	+EpPdiffZ	0038	47.8	#-1379	2	+EPZ	1047	31.6	
1	+EXZ	0129	52.5	#-1380	2	+EPZ	1108	25.4	
1	+EPdiffZ	0134	14.0	#-1381	2	+EPKPdfZ	1303	47.7	#-1389
1	+EpPdiffZ	0134	25.4	#-1381	2	-EpPKPdfZ	1303	49.6	#-1389
1	-EPZ	0507	30.0		2	-IpPKPbcZ	1303	54.0	#-1389
1	+EPZ	0507	37.3		2	-IPdiffZ	1455	54.4	#-1390
1	-EPZ	0520	2.0		2	+EPZ	1956	5.9	
1	+EPZ	0617	31.0		3	-EPZ	0042	22.8	
1	+EPZ	0617	45.0		3	-EPZ	0141	21.8	#-1391
1	+EXZ	0826	48.6	#-1382	3	+IpPZ	0141	24.8	#-1391
1	+EPZ	0918	44.1		3	+EPdiffZ	0228	18.4	#-1392
1	-EPZ	0918	46.1		3	+EXZ	0228	25.3	#-1392
1	-EPZ	1011	15.2		3	+EPZ	0333	30.4	
1	-IPZ	1049	58.0	#-1383	3	+EPZ	0357	24.8	
1	-IsPZ	1050	8.0	#-1383	3	+EPZ	0357	34.0	
1	+EPZ	1115	30.0	#-1384	3	+EPZ	0617	24.8	
1	-EPcPZ	1115	32.4	#-1384	3	+EXZ	0703	6.9	#-1393
1	-EPZ	1248	29.0		3	+EpPZ	0703	12.2	#-1393
1	-EPZ	1411	10.6		3	+EPZ	0944	25.1	
1	+EPZ	1614	19.4		3	-EPZ	1021	8.0	
1	+EPZ	1614	22.4		3	+EPZ	1252	27.0	
1	-EPZ	1722	11.6		3	+EPZ	1258	13.1	
1	+EXZ	1817	40.0	#-1385	3	-EPZ	1338	10.0	#-1394
1	+EPZ	1853	17.4		3	-EpPZ	1338	25.6	#-1394
1	+EPZ	1853	24.7		3	+EPZ	1438	18.5	#-1395
1	-EPZ	1914	9.0		3	-IpPZ	1438	25.0	#-1395
1	+EPZ	1958	45.3	#-1386	3	+EsPZ	1438	28.4	#-1395
1	+EPcPZ	1958	48.0	#-1386	3	+EPZ	1614	5.4	#-1396
1	+EPZ	2026	14.0		3	+EpPZ	1614	8.0	#-1396
1	+EXZ	2054	20.8	#-1387	3	+IPZ	1834	41.2	
2	+EPZ	0104	16.0		3	+IPZ	1834	42.8	
2	+EPZ	0319	24.5		3	ESH	1844	11.0	
2	+EPZ	0412	7.0		3	-EPZ	1902	55.0	
2	+EPZ	0804	41.6		3	-EpPZ	1957	52.2	#-1397
2	+EPcPZ	0825	48.0	#-1388	3	-EPZ	2239	9.0	#-1398

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
3	-EPcPZ	2239	20.2	#-1398	4	+EPZ	1851	20.0	
3	-EXZ	2239	40.4	#-1398	4	-EPZ	1851	30.7	#-1418
4	+EXZ	0020	1.0	#-1399	4	-EpPZ	1851	43.6	#-1418
4	+IPdiffZ	0104	28.0	#-1400	4	+EPZ	1919	17.0	
4	-EpPdiffZ	0104	38.4	#-1400	4	-EPZ	2011	20.0	
4	+EPZ	0204	6.0		4	-EPZ	2131	8.0	#-1419
4	+EPZ	0224	25.0	#-1401	4	+EpPZ	2131	10.4	#-1419
4	+EPZ	0322	7.4		4	-EPcPZ	2131	20.1	#-1419
4	+EPZ	0422	23.4		4	+EPZ	2227	20.7	
4	+EPZ	0438	48.7	#-1402	4	+EPZ	2324	7.9	
4	+EpPZ	0438	54.6	#-1402	5	+EPdiffZ	0049	10.0	#-1420
4	-EPZ	0540	53.6	#-1403	5	+EsPdiffZ	0049	25.0	#-1420
4	-EPZ	0656	37.4		5	+EXZ	0059	37.8	#-1421
4	+EPdiffZ	0708	35.4	#-1404	5	+EPZ	0112	13.8	#-1422
4	+EXZ	0708	39.0	#-1404	5	+EPZ	0112	27.2	
4	-IPdiffZ	0711	37.4	#-1405	5	+EPZ	0545	6.8	#-1423
4	-EpPdiffZ	0711	50.5	#-1405	5	+EPcPZ	0545	8.0	#-1423
4	+EPdiffZ	1011	45.4	#-1406	5	+EPZ	0715	2.6	
4	+EPZ	1149	51.8	#-1407	5	+EPZ	0929	28.0	
4	+EPZ	1219	2.7	#-1408	5	+EPZ	1011	26.6	
4	-EpPZ	1219	13.0	#-1408	5	+EPZ	1307	28.2	
4	-EPZ	1300	42.8	#-1409	5	+IPZ	1322	8.6	#-1424
4	+EXZ	1300	54.6	#-1409	5	-IPcPZ	1322	11.6	#-1424
4	+IPZ	1339	51.6	#-1410	5	ESH	1333	0.4	#-1424
4	+EXZ	1342	51.6	#-1411	5	-EPdiff	1456	35.0	#-1425
4	+EPZ	1343	1.2		5	+IPZ	1500	19.0	
4	-EXZ	1353	48.0	#-1412	5	+IPZ	1500	49.4	
4	+EPdiffZ	1456	55.8	#-1413	5	ESH	1512	2.2	
4	+EPdiffZ	1524	49.2	#-1414	5	+EPZ	1743	5.2	
4	+EPZ	1548	38.3		5	+EPZ	2048	49.8	#-1426
4	+EPZ	1628	12.2		5	-EPcPZ	2048	58.2	#-1426
4	-EpPZ	1628	29.7	#-1415	5	+EPZ	2218	4.0	
4	-EPZ	1643	27.0	#-1416	6	+EPZ	0027	18.9	
4	+EPZ	1644	9.8		6	+EPZ	0106	18.0	
4	-EPZ	1644	20.0	#-1417	6	+EXZ	0202	20.9	#-1427

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
6	-EPZ	0210	38.0	#-1428	7	+EPZ	0532	43.3	#-1439
6	-IPcPZ	0210	39.9	#-1428	7	+EXZ	0532	48.5	#-1439
6	-IPZ	0235	26.0	#-1429	7	+EPZ	0602	30.6	
6	-EPZ	0357	11.0	#-1430	7	+EPZ	0709	42.6	#-1440
6	+EPZ	0534	19.3		7	+EsPZ	0709	48.2	#-1440
6	-EPZ	0656	29.0	#-1431	7	-EPZ	0953	3.8	#-1441
6	+IPZ	0659	31.3	#-1432	7	+EpPZ	0953	6.1	#-1441
6	-EXZ	0659	37.1	#-1432	7	+EPZ	1056	31.8	
6	ESH	0710	22.0	#-1432	7	+EPZ	1112	4.5	
6	+EPZ	0721	47.0	#-1433	7	-EPZ	1243	21.0	#-1442
6	+EPZ	0816	12.7		7	+EsPZ	1244	20.0	#-1442
6	+EPZ	0816	28.4		7	+EPZ	1244	39.7	
6	-EPZ	0845	15.0		7	-EsPKiKPZ	1249	12.2	#-1442
6	-EPZ	0845	19.6		7	-EPZ	1343	25.0	
6	+EPZ	0903	31.4		7	-EPZ	1456	47.0	#-1443
6	-EPZ	1108	41.0		7	+EpPZ	1456	55.2	#-1443
6	+EPZ	1108	42.4		7	+EPZ	1520	1.1	
6	+EPZ	1211	12.0		7	+EPZ	1617	1.1	
6	-EPZ	1327	0.0		7	+IPZ	1752	39.6	#-1444
6	+EPZ	1428	43.0	#-1434	7	-EpPZ	1752	47.4	#-1444
6	+EPcPZ	1428	47.1	#-1434	7	-IsPZ	1752	51.0	#-1444
6	-EPZ	1639	4.6		7	-EPZ	1817	6.0	
6	+EPZ	1828	24.7		7	-EPKPdfZ	1902	8.9	#-1445
6	+EPZ	1853	40.5		7	+EPKiKPZ	1902	11.0	#-1445
6	+EPZ	2024	52.0		7	+EPZ	1910	2.6	
6	-EPZ	2116	41.3	#-1435	7	-EPZ	1951	10.2	
6	+EPZ	2333	0.0		7	+EPZ	2000	27.2	#-1446
7	+EPZ	0105	16.0	#-1436	7	+EPZ	2001	56.1	
7	+EPZ	0223	33.4		7	+EPZ	2112	40.5	
7	+IPZ	0248	33.3	#-1437	7	-EPZ	2208	56.7	#-1447
7	-EPcPZ	0248	43.1	#-1437	7	-EPcPZ	2209	6.0	#-1447
7	+EPZ	0308	14.4		7	+EPZ	2215	36.4	
7	+EPZ	0328	53.9		7	ESH	2218	13.6	#-1447
7	+EXZ	0338	23.1	#-1438	7	+EPZ	2254	3.6	
7	-EPZ	0343	10.2		7	+EPZ	2342	44.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
7	+EPZ	2342	49.8		8	-EPZ	2123	55.0	#-1459
8	+EPZ	0032	29.4		8	-EsPZ	2124	0.2	
8	-EPZ	0041	18.2		8	+EPZ	2247	1.1	
8	+EPZ	0118	47.8	#-1448	9	+EPZ	0025	59.2	#-1460
8	+EPZ	0203	41.2		9	+EPZ	0048	11.0	
8	-EPZ	0203	48.7		9	-EPZ	0123	31.9	
8	-EPZ	0259	12.4		9	+EPZ	0342	2.4	#-1461
8	+EPZ	0424	47.2	#-1449	9	+EPZ	0527	30.4	
8	+EPcPZ	0424	50.9	#-1449	9	-IPKpdfZ	0558	45.2	#-1462
8	+EPZ	0521	6.6	#-1450	9	+IpPKiKPZ	0559	4.8	#-1462
8	+EsPZ	0521	15.0	#-1450	9	-IPKpdfZ	0559	7.2	#-1463
8	+EPZ	0633	7.4		9	+EPZ	0815	20.2	
8	+EXZ	0714	0.0	#-1451	9	+EPZ	0956	1.8	
8	+EPZ	0730	23.6	#-1452	9	-EPZ	0956	3.4	
8	-EPcPZ	0730	25.4	#-1452	9	-EPZ	1014	4.0	
8	+EPZ	0748	12.7	#-1453	9	+EPZ	1245	23.0	
8	-EsPZ	0748	25.0	#-1453	9	+EPZ	1313	8.2	
8	+EPZ	0751	33.0		9	-IPZ	1448	22.8	#-1464
8	-EPZ	0751	37.6		9	-IPcPZ	1448	31.0	#-1464
8	-EPZ	0933	55.0	#-1454	9	-IpPZ	1448	38.4	#-1464
8	-EPZ	1104	36.0	#-1455	9	-EPPZ	1611	30.1	#-1465
8	+IPcPZ	1104	38.0	#-1455	9	+EPPZ	1705	42.8	#-1466
8	-IpPZ	1104	44.0	#-1455	9	+EPZ	1739	31.4	
8	ESH	1115	20.8	#-1455	9	+EPKpdfZ	1943	30.2	#-1467
8	+EXZ	1248	31.5	#-1456	9	-EPKpbcZ	1943	33.8	#-1467
8	+EPZ	1348	24.0		9	+EPKiKPZ	1943	38.4	#-1467
8	-EPZ	1532	30.6		9	-EPZ	2118	17.2	#-1468
8	+EPZ	1640	40.5	#-1457	9	+EPcPZ	2118	23.0	#-1468
8	-EPcPZ	1640	43.9	#-1457	9	+EXZ	2141	49.6	#-1469
8	-EPZ	1839	1.0	#-1458	9	+EPZ	2347	25.4	
8	-EsPZ	1839	5.4	#-1458	10	+EPZ	0017	1.0	#-1470
8	+EPcPZ	1839	13.8	#-1458	10	-IPZ	0050	3.0	#-1471
8	+EPZ	2016	6.4		10	+EPZ	0225	49.6	#-1472
8	-EPZ	2035	23.2		10	-IPZ	0239	46.8	
8	-EPZ	2035	25.8		10	+EpPZ	0632	28.6	#-1473

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
10	-EsPZ	0632	33.0	#-1473	12	+EPcPZ	0441	22.2	#-1482
10	-EPZ	0803	22.4	#-1474	12	-EPZ	0546	11.2	
10	+EPcPZ	0803	27.4	#-1474	12	-EPZ	0843	34.0	
10	-EPZ	1038	44.0		12	+EPZ	0931	28.5	#-1483
10	+EPZ	1136	35.8	#-1475	12	+EpPZ	0931	54.2	#-1483
10	-EPcPZ	1136	37.2	#-1475	12	+EPZ	1110	33.0	
10	+EpPZ	1136	47.2	#-1475	12	+IPZ	1140	45.0	#-1484
10	+EPZ	1221	36.2		12	-EPcPZ	1140	48.6	#-1484
10	+EPZ	1329	8.1	#-1476	12	+EPZ	1224	8.1	
10	-EPcPZ	1329	10.0	#-1476	12	+EPZ	1416	26.9	
10	+IPZ	1448	27.6	#-1477	12	+EPZ	1942	5.2	
10	-EPcPZ	1448	30.0	#-1477	12	+EPZ	2002	8.2	
10	+IpPZ	1448	40.0	#-1477	12	+EPZ	2201	24.6	
10	+EPZ	1543	4.8		12	+IpPZ	2201	28.9	#-1485
10	-EPZ	1920	45.0	#-1478	12	+EsPZ	2201	31.8	#-1485
10	+EsPZ	1920	53.0	#-1478	12	+EPZ	2324	43.8	
10	+EPZ	2219	31.0		13	+EPZ	0207	35.8	#-1486
10	+EPZ	2219	37.6		13	-IPcPZ	0207	41.0	#-1486
10	+EPZ	2326	37.3	#-1479	13	-EPZ	0411	32.4	
11	+EPZ	0023	18.0		13	+EPdiffZ	0608	24.6	#-1487
11	-EPZ	0306	31.6		13	+EpPdiffZ	0608	32.6	#-1487
11	+EPZ	0327	1.0		13	+EPZ	1727	8.0	
11	+IPZ	0437	25.0		13	+EPKPdfZ	1743	42.0	#-1488
11	-EPZ	0437	30.0		13	-EPZ	2129	14.0	#-1489
11	+IPZ	0646	15.2		13	+EXZ	2254	21.0	#-1490
11	-IPZ	0646	17.4		13	-EPZ	2351	40.0	#-1491
11	-IPZ	0646	26.0		14	+EPZ	0503	36.6	#-1492
11	+EPZ	1004	26.0		14	-IpPZ	0503	42.4	#-1492
12	+EPZ	0204	0.8		14	ESH	0513	24.6	#-1492
12	+EPZ	0303	28.2	#-1480	14	+EPZ	0704	2.0	#-1493
12	+EPdiffZ	0341	44.6	#-1481	14	-EPZ	0726	23.0	#-1494
12	+EPZ	0402	27.3		14	-EpPZ	0726	25.2	#-1494
12	-EPZ	0402	30.4		14	-EPZ	1626	42.2	#-1495
12	-IPZ	0402	56.8		14	+EPcPZ	1626	47.0	#-1495
12	-IPZ	0441	20.4	#-1482	14	+EPZ	1904	17.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	+IPZ	0339	0.5		16	-EPZ	1315	36.2	#-1503
15	+EPZ	0908	33.9		16	-EpPZ	1316	6.2	#-1503
15	+EXZ	1044	20.6	#-1496	16	-EXZ	1325	17.0	#-1504
15	+EPZ	1455	4.0		16	+EPZ	1401	1.2	
15	+EPZ	1455	6.6		16	-EXZ	1544	29.1	#-1505
15	+EPZ	1543	34.2		16	-EsPZ	1544	39.0	#-1505
15	+IPZ	1643	57.7	#-1497	16	+EPZ	1629	28.2	#-1506
15	-IsPZ	1644	4.9	#-1497	16	+EPZ	1719	1.8	
15	+IPcPZ	1644	14.8	#-1497	16	+EPZ	1813	30.7	
15	+EPZ	1712	4.7		16	+EPZ	1901	37.0	
15	+EPZ	1747	17.6	#-1498	16	+EPZ	1955	20.9	
15	-EpPZ	1747	25.6	#-1498	16	-EPdiffZ	2159	53.4	#-1507
15	+EpPZ	2351	15.4	#-1499	16	-EpPdiffZ	2200	10.0	#-1507
15	-IsPZ	2351	19.0	#-1499	16	+EPZ	2218	2.0	
16	-EPZ	0028	20.0		16	+EPZ	2218	12.4	
16	-EPZ	0101	32.0		16	+EPZ	2323	5.7	
16	+EXZ	0151	10.8	#-1500	17	+EPZ	0149	9.9	
16	+EPZ	0226	42.8		17	+EPZ	0657	2.9	
16	+EPZ	0323	0.4		17	+EPZ	0753	0.0	
16	+EPZ	0555	21.4		17	-EPZ	0753	5.7	
16	+EPZ	0555	28.0		17	-EPZ	0815	28.3	
16	+EPZ	0605	20.0		17	-EPZ	1208	44.5	
16	+EPZ	0617	3.8		17	-EPZ	1405	30.3	
16	+EPZ	0617	4.4		17	+EPZ	1431	0.0	#-1508
16	-EPZ	0619	36.2	#-1501	17	+EPZ	1624	3.4	
16	+EPcPZ	0619	45.0	#-1501	17	+EPZ	1724	31.5	
16	-EPZ	0702	51.7		17	-EPZ	1911	0.8	
16	+EPZ	0751	11.7		17	+EPZ	2020	52.6	
16	-EPZ	0810	34.3		17	+EXZ	2021	13.1	#-1509
16	-EPZ	0920	22.7		17	+EsPZ	2021	25.5	#-1509
16	+EPZ	0951	45.2		17	-EPZ	2028	42.7	
16	-EPZ	1015	25.3		17	ESH	2031	42.0	#-1509
16	+EPZ	1233	19.2		17	+EPZ	2128	12.0	
16	-EPZ	1247	17.4		17	+EPZ	2128	21.0	
16	+EPZ	1303	43.8	#-1502	17	+IPZ	2128	35.1	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
17	+EPZ	2309	19.6		19	-EPZ	1850	0.0	
18	+EPKPdfZ	0204	48.6	#-1510	20	+EPcPZ	0345	11.4	#-1520
18	-IpPKPdfZ	0205	5.0	#-1510	20	+EPZ	0407	36.8	
18	+EPZ	0159	40.0	#-1511	20	+EPZ	0413	15.5	
18	-EpPZ	0159	47.0	#-1511	20	+EPZ	0533	3.6	
18	+EXZ	0335	34.2	#-1512	20	+EPZ	0552	38.9	#-1521
18	-EPZ	0403	33.6	#-1513	20	+EPZ	0620	30.6	#-1522
18	+EPcPZ	0403	37.6	#-1513	20	-EPZ	0931	42.0	
18	-EpPZ	0403	43.4	#-1513	20	+EpPZ	1017	49.5	#-1523
18	-EPZ	0404	12.9	#-1514	20	+EXZ	1018	1.6	#-1523
18	+EPZ	0418	39.7		20	-EPZ	1211	23.0	
18	+EPZ	0426	42.0		20	+EPZ	1506	29.2	
18	+EPZ	0512	14.8		20	+EPZ	1605	29.6	#-1524
18	+EpPZ	0654	14.4	#-1515	20	+EPZ	1725	30.9	
18	+EPZ	0723	22.3		20	+EXZ	1757	42.7	#-1525
18	+EPZ	0724	59.0		20	-IPZ	2115	23.0	#-1526
18	-EPZ	0801	32.0		20	+IPcPZ	2115	26.4	#-1526
18	+EPZ	0801	39.8		20	-IpPZ	2117	27.0	#-1526
18	+EPZ	0817	22.8		20	ESH	2125	8.0	#-1526
18	-EPZ	0818	49.2	#-1516	20	+EXZ	2134	11.2	#-1527
18	+EPZ	0848	15.4		20	+EPZ	2254	3.4	
18	-EPZ	0911	29.0		20	-EPZ	2315	31.6	
18	-EXZ	1027	48.2	#-1517	21	+EPZ	0145	29.4	
18	+EsPZ	1028	14.6	#-1517	21	+EPZ	0145	30.2	
18	+EPZ	1331	40.0		21	-EXZ	0226	24.9	#-1528
18	+EPZ	1746	27.3		21	+IPZ	0337	4.1	#-1529
18	+EPZ	2158	45.9		21	+EPZ	0344	2.0	
19	+EPZ	0044	58.4	#-1518	21	-EPZ	0555	33.2	
19	-EpPZ	0045	27.0	#-1518	21	+EPZ	0739	9.4	
19	+EPZ	0448	45.0		21	+EPZ	0825	5.4	
19	+EPZ	0543	49.4		21	+EPZ	0825	14.0	
19	+EPZ	0656	17.8	#-1519	21	+EPZ	0933	1.8	#-1530
19	+EPcPZ	0656	25.0	#-1519	21	-EPZ	1229	14.6	#-1531
19	+EPZ	0718	11.0		21	+EPcPZ	1229	21.9	#-1531
19	+EPZ	0926	37.6		21	-EpPZ	1229	40.8	#-1531

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
21	ESH	1239	2.4	#-1531	24	+EPZ	2117	14.0	
21	+EPZ	2128	10.0		24	+EPZ	2230	17.2	
22	+EPZ	0021	25.4		24	+EPZ	2309	7.6	
22	+EPZ	0106	1.2		25	+IPnZ	0147	11.6	#-1542
22	+EPZ	0106	2.1		25	-EPZ	0319	49.8	
22	-EPZ	0429	46.6	#-1532	25	-IPZ	0319	54.0	
22	-EPZ	0520	7.6		25	+IpPZ	0320	23.0	#-1543
22	-IPZ	0711	10.9	#-1533	25	-EPZ	0511	1.0	
22	+EsPZ	0711	16.0	#-1533	25	+EPZ	0549	11.0	
22	-EPZ	1114	11.6		25	-EPcPZ	0549	11.0	#-1544
22	+EXZ	1245	44.0	#-1534	25	-EPcPZ	0549	14.3	#-1544
22	+EPZ	1344	5.4	#-1535	25	+EPZ	0813	2.8	
22	+EPZ	1446	41.3	#-1536	25	+EXZ	0821	15.4	#-1545
22	+EsPZ	1446	45.2	#-1536	25	+EPZ	0840	50.6	
22	+EPZ	1455	45.0		25	+EPZ	0848	41.9	
23	+EPZ	0008	1.0		25	-EPZ	0917	8.9	
23	-EPZ	0202	19.9		25	+EPZ	0917	30.4	
23	+EPZ	0326	51.7		25	+EPZ	1123	6.5	
23	+EPZ	0653	45.0	#-1537	25	+EPZ	1210	14.1	
23	+IPcPZ	0653	48.0	#-1537	25	+EPZ	1255	20.0	
23	+EXZ	0903	24.8	#-1538	25	+EPZ	1255	29.4	
23	-EXZ	0904	50.6	#-1538	25	+EsPdiffZ	1437	36.9	#-1546
23	+EXZ	1037	45.0	#-1539	25	-EPZ	1656	14.6	
23	+EPZ	1410	20.5		25	+EPZ	1845	44.0	#-1547
23	-EPZ	1447	15.2		25	+EPcPZ	1845	46.0	#-1547
23	-EPZ	1714	17.3		25	+EpPZ	1845	50.8	#-1547
23	+EPZ	1941	19.3		25	+EPZ	1916	29.4	
24	-IPZ	0041	14.0	#-1540	25	-EPZ	1946	39.8	
24	+EXZ	0041	21.0	#-1540	25	+EPZ	2037	20.8	
24	+EPZ	0128	23.5		25	+EPZ	2122	10.7	
24	-EXZ	0135	54.2	#-1541	26	+IPKPdfZ	0004	38.0	#-1548
24	+EPZ	0535	52.3		26	+IpPKPdfZ	0004	41.8	#-1548
24	-EPZ	1044	4.7		26	+EpPKiKPZ	0004	43.0	#-1548
24	+EPZ	1212	1.7		26	ESH	0008	10.0	#-1548
24	+EPZ	1722	21.0		26	+EPZ	0154	21.6	#-1549

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
26	+EPZ	0424	20.0		28	+EPZ	0006	55.3	#-1559
26	-EPZ	0507	51.0		28	+IpPZ	0006	57.9	#-1559
26	-EPZ	0536	23.6	#-1550	28	+EPZ	0221	21.0	#-1560
26	+EpPZ	0536	30.0	#-1550	28	+EpPZ	0221	37.8	#-1560
26	+EPZ	0602	13.6		28	+EPZ	0235	1.0	
26	+IPZ	0602	17.6		28	+EPZ	0247	23.9	
26	+EPZ	0602	24.8		28	+EPZ	0322	31.5	#-1561
26	+IPZ	0657	53.0	#-1551	28	+EPcPZ	0322	58.5	#-1561
26	-EPcPZ	0657	54.3	#-1551	28	+EPZ	0636	22.0	
26	+EPZ	1206	20.3	#-1552	28	+EPZ	0838	1.1	
26	+EXZ	1206	25.0	#-1552	28	+EPZ	1056	14.4	
26	-EpPZ	1324	52.2	#-1553	28	-EPZ	1119	6.8	
26	+EPZ	1334	24.5		28	+EPZ	1119	14.4	
26	-EPZ	1613	43.4		28	+EPZ	1119	35.5	
26	-EPZ	1727	57.2	#-1554	28	+EPZ	1246	43.0	
26	-EPcPZ	1728	4.0	#-1554	28	+EPZ	1646	25.0	
26	+IPZ	1756	32.6	#-1555	28	+EPZ	2209	5.3	
26	-IPcPZ	1756	43.6	#-1555	28	-EPZ	2335	35.0	#-1562
26	ESH	1806	3.0	#-1555	29	+EPZ	0313	34.3	
26	+EPZ	2326	8.2		29	+EPZ	0731	20.4	
26	+IPZ	2359	43.6		29	+EXZ	0731	30.7	#-1563
26	ESH	0010	32.0		29	-EPZ	0751	43.0	
27	-EPZ	0039	14.0		29	+EPZ	1044	38.0	
27	+EXZ	1040	25.5		29	-EPZ	1044	43.8	
27	+EPZ	1323	13.6		29	+EPZ	1136	58.4	#-1564
27	+EPZ	1413	29.0		29	+EPcPZ	1137	2.0	#-1564
27	+EPZ	1539	27.0		29	+EPZ	1237	4.4	
27	+EPZ	1650	48.4	#-1556	29	+EPZ	1334	41.0	
27	+EPZ	1816	19.2		29	+EPZ	1617	24.6	
27	+EPZ	192	9.0		29	-EPZ	1617	29.2	
27	+EPZ	1925	7.8		29	+EPZ	1619	39.9	#-1565
27	+EPZ	2229	53.4	#-1557	29	+EpPZ	1619	58.0	#-1565
27	-IpPZ	2230	21.0	#-1557	29	-EPZ	1636	57.2	#-1566
27	+IXZ	2318	30.0	#-1558	29	+EXZ	1637	9.8	#-1566
27	+EXZ	2318	57.0	#-1558	29	+EPZ	1800	55.2	#-1567

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	-IPZ	1801	0.0	#-1567	1	+EPZ	0503	10.6	
29	ESH	1810	49.0	#-1567	1	+EPZ	0602	2.1	
29	-EPZ	2311	26.4		1	-EPZ	0720	44.8	
30	+EPZ	0204	31.4	#-1568	1	+EPZ	0741	8.7	
30	+EPZ	0718	0.8		1	+EPZ	0937	23.8	
30	+EPZ	0720	25.0		1	+EPZ	1012	23.0	
30	+EPZ	0817	7.7		1	-EPZ	1135	29.8	
30	-EPZ	1113	43.7		1	+EPZ	1145	45.0	
30	+EPZ	1113	51.1		1	-EPZ	1308	15.0	
30	+EPZ	1113	54.0		1	+EPZ	1506	6.2	
30	-EPZ	1258	36.0		1	+EPZ	1615	21.8	
30	-EPZ	1314	18.0		1	-EPZ	1736	13.4	#-1571
30	+EPZ	1511	25.4		1	+EPZ	2041	39.8	
30	+EPZ	1511	27.0		1	+EPZ	2304	17.2	
30	-EPKpDfZ	1554	34.2	#-1569	2	-EPZ	0215	2.8	
30	+EpPKpDfZ	1554	44.5	#-1569	2	+EPZ	0346	12.4	#-1572
30	+EPdiffZ	1645	5.2	#-1570	2	+EPZ	0401	34.5	
30	+IpPdiffZ	1645	45.0	#-1570	2	+EPZ	0433	0.0	
30	ESH	1655	28.4	#-1570	2	+EPZ	0433	3.2	
30	-EPZ	1628	47.4		2	+EPZ	0655	20.0	
30	+EPZ	1701	16.5		2	+EPZ	0655	23.4	
30	+EPZ	1701	20.2		2	+EPZ	0825	22.0	
30	-EPZ	1709	13.0		2	+EPZ	0825	25.2	
30	-EPZ	1709	20.4		2	+EPZ	0943	25.0	
30	+EPZ	1712	23.0		2	+EPZ	0943	29.6	
30	+EPZ	1712	26.4		2	-EPZ	1035	24.4	
30	+EPZ	1750	14.0		2	+IPZ	1148	31.5	#-1573
30	+EPZ	2055	35.0		2	+EPcPZ	1148	34.4	#-1573
30	+EPZ	2135	51.8		2	-EPZ	1230	8.0	
30	-EPZ	2135	53.4		2	+EPZ	1325	28.2	
Oct.					2	+EPZ	1350	22.6	
1	+EPZ	0042	22.8		2	+EPZ	1350	29.2	
1	-EPZ	0245	13.4		2	-EPZ	1503	35.2	
1	+EPZ	0346	57.8		2	+EpPZ	0507	30.6	#-1574
1	+EPZ	0418	13.1		2	-EPZ	1749	8.0	#-1575

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
2	-EPcPZ	1749	17.2	#-1575	4	-EPZ	1716	18.0	
2	+EPZ	1801	27.0	#-1576	4	+EPZ	1833	20.2	
2	-EXZ	1850	40.0	#-1577	4	-EPZ	190	26.0	
2	+EPZ	1851	54.8	#-1578	4	+EPZ	2134	43.0	
2	-EPZ	1949	27.6	#-1579	4	+EPZ	2258	14.2	
2	+IsPZ	1949	35.0	#-1579	5	+EPZ	0321	25.0	
2	-EPPZ	1951	7.8	#-1579	5	-EPZ	0414	9.4	
2	+EPZ	2010	41.8		5	+EPZ	0509	8.0	
3	-EPZ	0449	52.6		5	+EPZ	0509	9.1	
3	+EPZ	0527	34.8		5	-EPZ	0608	30.0	
3	+EPZ	0607	6.0		5	+EPZ	0846	42.8	
3	+EXZ	0639	20.4	#-1580	5	+EPZ	0846	51.4	
3	-EPcPZ	0639	25.0	#-1580	5	+EPZ	0923	15.2	
3	+EPZ	0807	37.5		5	+EPZ	1046	19.7	#-1588
3	+EPZ	1344	40.8	#-1581	5	-EPZ	1119	42.0	
3	+EPcPZ	1344	46.6	#-1581	5	+EPZ	1642	23.6	
3	-EXZ	1841	34.2	#-1582	5	-EPZ	1716	33.2	
3	+EPcPZ	1841	36.8	#-1582	5	+EPZ	1750	41.8	
3	-EXZ	2115	48.0	#-1583	5	+EPZ	1750	45.0	
3	-EPZ	2041	7.4		5	+EXZ	1820	43.2	#-1589
3	+EPZ	2206	23.0		5	+EPZ	2109	25.0	
3	-EPZ	2301	31.6	#-1584	6	+EPZ	0033	7.0	
3	+EpPZ	2301	40.6	#-1584	6	-EPZ	0139	12.4	
4	+EPZ	0142	1.0		6	+EPZ	0139	14.3	
4	+EPZ	0403	11.0	#-1585	6	+EpPZ	0329	11.8	#-1590
4	+EXZ	0403	19.0	#-1585	6	+EPZ	0808	30.0	#-1591
4	+EPZ	0621	15.7		6	+EPcPZ	0808	34.6	#-1591
4	+EPZ	0621	19.0		6	+EPZ	1101	0.0	
4	-EPcPZ	0622	30.2	#-1586	6	+EPZ	1103	54.5	
4	-EpPZ	0622	54.8	#-1586	6	+EPZ	1853	20.9	
4	+EpPZ	0651	0.0	#-1587	6	+EPZ	1932	31.0	#-1592
4	+EPZ	0903	50.2		6	-EsPZ	1933	39.4	#-1592
4	+EPZ	0903	54.1		6	+EPZ	2228	19.4	
4	-EPZ	1104	24.4		6	+EPZ	2228	23.5	
4	+EPZ	1337	33.3		6	+EPZ	2247	22.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
7	-EPZ	0209	34.0	#-1593	9	+EPZ	0802	53.7	#-1604
7	+EPZ	0345	12.6		9	-IPcPZ	0802	55.0	#-1604
7	+EPZ	0437	25.6		9	+EpPZ	0803	6.4	#-1604
7	+EPZ	0724	25.2		9	+EPZ	0810	49.6	#-1605
7	-EPZ	0751	58.2	#-1594	9	+EPZ	0913	2.7	
7	+EPZ	0849	39.1	#-1595	9	-EPZ	0942	14.5	
7	+EPZ	1023	30.3		9	-EPZ	0942	17.4	
7	-EPZ	1218	18.6		9	+EPZ	1012	54.0	
7	+EPZ	1902	5.0		9	+EPZ	1225	53.5	#-1606
7	+EPZ	2021	46.2		9	-EPcPZ	1225	57.1	#-1606
7	+EPZ	2050	39.6		9	+EPZ	1239	55.4	
7	-EPZ	2227	42.2		9	-IPZ	1239	59.6	
7	-EPZ	2304	22.0		9	+EPZ	1309	10.0	
8	+EPZ	0137	32.8	#-1596	9	+EPZ	1309	16.5	
8	-IPZ	0201	59.1	#-1597	9	+EPZ	1525	36.0	
8	ESH	0211	33.8	#-1597	9	+EPZ	1720	18.9	
8	+EPZ	0244	10.0		9	+IPZ	1720	23.0	
8	+EPZ	0305	48.4	#-1598	9	+EPZ	1905	19.5	
8	+EPZ	0518	5.1		9	-EPZ	1905	23.6	
8	+EPZ	1145	56.2		9	+EPZ	1905	29.3	
8	-EPZ	1156	6.8		9	+EPZ	2024	15.0	
8	-IPZ	1156	15.0		9	-EPZ	2220	6.0	
8	+EXZ	1233	34.1	#-1599	9	+EPZ	2220	10.2	
8	+EpPZ	1233	37.3	#-1599	10	+EPZ	0208	8.2	
8	+EPZ	1617	5.2		10	+EPZ	0208	22.4	
8	+EPZ	1617	8.4		10	+EPZ	0923	38.1	
8	+EPZ	2205	29.5		10	-EPZ	0923	42.6	
9	+EPZ	0043	2.7	#-1600	10	+EPZ	1046	47.9	
9	-EPcPZ	0043	7.4	#-1600	10	-IPZ	1156	32.4	
9	-EPZ	0341	27.8	#-1601	10	+EPZ	1219	16.8	
9	+EPZ	0341	29.0		10	+EPZ	1414	19.2	
9	-EPZ	0341	36.0		10	+EPZ	1456	31.7	
9	-EPZ	0454	20.8	#-1602	10	+EPZ	1542	39.0	#-1607
9	-EPcPZ	0454	25.4	#-1602	10	+EPZ	1633	16.6	
9	+EPZ	0727	59.0	#-1603	10	+EPZ	1645	15.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
10	+EPZ	1711	34.4		12	+EPZ	0002	57.2	
10	+EPZ	1736	20.6		12	+EPZ	0002	59.4	
10	+EPZ	1922	31.4		12	+IPZ	0044	13.8	#-1615
10	-EPZ	2012	38.8		12	+IPcPZ	0044	15.6	#-1615
10	+EPZ	2255	20.4	#-1608	12	ESH	0054	52.0	#-1615
10	+EpPZ	2255	31.4	#-1608	12	-IPZ	0102	5.0	
10	+EPZ	2306	53.1		12	-EPZ	0102	9.0	
11	+EPZ	0137	5.2		12	+EPZ	0142	1.2	#-1616
11	+EPZ	0249	14.6		12	+EsPZ	0142	5.8	#-1616
11	-EPZ	0249	26.0		12	+EPZ	0142	8.6	
11	+EPZ	0449	9.0	#-1609	12	+EPZ	0142	12.8	
11	+EsPZ	0449	15.6	#-1609	12	+EPZ	0256	18.0	
11	+EPZ	0600	5.4	#-1610	12	-EPZ	0334	40.7	
11	+EPZ	0758	50.8		12	+EPZ	0344	47.0	
11	-EPZ	0758	55.4		12	-EPZ	0415	3.6	
11	-EPZ	0808	25.0		12	+EPZ	0514	9.0	
11	-EPZ	0913	42.0		12	+EPZ	0531	23.0	
11	+EPZ	0928	19.6		12	-EPZ	0531	33.2	
11	+EPZ	1513	3.0		12	+EPZ	0718	4.0	
11	-EPZ	1513	7.8		12	+EPZ	0718	10.0	
11	+EPZ	1719	54.8	#-1611	12	+EPZ	0918	1.0	
11	-EPcPZ	1720	3.4	#-1611	12	+EPZ	0955	30.3	
11	-IPZ	1732	49.0	#-1612	12	+EPZ	1025	28.6	
11	+IPcPZ	1733	18.0	#-1612	12	+EPZ	1111	49.6	
11	ESH	1741	29.4	#-1612	12	+EPZ	1317	8.0	
11	+EPZ	1920	8.0		12	+EPZ	1317	9.0	
11	+EPZ	1920	11.4		12	+EPZ	1317	12.5	
11	+EPZ	2009	36.0		12	+EPZ	1612	46.8	
11	-EPZ	2209	54.0	#-1613	12	+EPZ	1909	51.4	
11	-IpPZ	2210	1.0	#-1613	12	-EPZ	1923	33.4	
11	-EsPZ	2210	4.2	#-1613	12	-EPZ	2026	22.8	
11	-EPZ	2301	7.0		12	-EPZ	2125	4.0	
11	+EPZ	2301	19.0		12	+EPZ	2125	24.4	
11	+EXZ	2309	49.0	#-1614	12	+IPZ	2136	59.0	
11	-EXZ	2309	51.0	#-1614	12	-EPZ	2137	58.0	#-1617

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
12	+EPZ	2219	13.4		14	-EXZ	1436	14.0	#-1628
12	-EPZ	2219	31.6		14	+EPZ	1742	46.2	
12	+EPZ	2225	3.6		14	+EPZ	1839	0.0	
12	+EPZ	2346	14.0		14	+EPZ	1921	7.5	
13	+EPZ	0112	20.0		15	-EPZ	0016	20.0	#-1629
13	+EPZ	0140	40.4		15	+EPcPZ	0016	45.0	#-1629
13	-EPZ	0309	4.2		15	+EpPZ	0016	56.4	#-1629
13	+EsPZ	0348	35.0		15	+EPZ	0138	42.0	
13	+EsPZ	0727	32.4	#-1618	15	-EPZ	0138	46.0	
13	+EPZ	0727	32.4		15	+EPZ	0505	21.0	
13	+EPZ	0838	2.0		15	+EPZ	0525	3.1	
13	+EPcPZ	0838	6.5		15	-EPZ	0607	19.5	
13	+EPZ	1016	57.0	#-1619	15	+EPZ	0702	11.7	
13	+EpPZ	1017	15.0	#-1619	15	+EPZ	0710	29.3	
13	+EPZ	1326	14.0		15	+EPZ	0801	55.2	#-1630
13	+EPZ	1453	18.0		15	+EPcPZ	0801	57.4	#-1630
13	-EPZ	1514	43.6		15	-EPZ	1616	47.0	#-1631
13	-EPZ	1805	38.4	#-1620	15	+EsPZ	1616	58.4	#-1631
13	-EPZ	2249	28.0		15	+EPZ	1521	11.0	
13	+EPZ	2321	2.6	#-1621	15	-EPZ	1521	19.7	
13	+EXZ	2321	10.7	#-1621	15	+EPZ	2026	19.4	
14	+EPZ	0348	10.2	#-1622	15	+EPZ	2030	44.6	#-1632
14	+EsPZ	0348	17.0	#-1622	15	-IPcPZ	2030	49.6	#-1632
14	+EXZ	0355	29.0	#-1623	15	ESH	2040	34.4	#-1632
14	-IPZ	0511	10.8	#-1624	15	-IXZ	2115	11.6	#-1633
14	+IPcPZ	0511	13.4	#-1624	15	+IsPZ	2115	28.0	#-1633
14	-EpPZ	0511	24.4	#-1624	15	-EPKPdfZ	2304	40.0	#-1634
14	+EPZ	0758	22.7		16	-EPZ	0024	5.0	
14	+EPZ	1001	21.6		16	+EPZ	0145	2.0	
14	-IPKPdfZ	1001	26.8	#-1625	16	+EPZ	0145	6.0	
14	+EsPZ	1101	3.0	#-1626	16	+EXZ	0222	10.8	#-1635
14	+EXZ	1126	19.0	#-1627	16	+EXZ	0222	37.0	#-1635
14	+EPZ	1130	28.0		16	+EPZ	0240	29.2	
14	ESH	1134	5.0		16	+EPZ	0240	36.6	
14	+EPZ	1128	57.0		16	+EPZ	0348	21.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
16	+EPZ	0546	12.4		17	-EPZ	1736	33.4	#-1639
16	+EPZ	0721	10.3		17	-IPcPZ	1736	35.0	#-1639
16	-EPZ	0909	51.2		17	+EPZ	1906	3.6	
16	+EPZ	1221	23.0		17	+EPZ	1906	5.4	
16	+IPZ	1300	49.0		17	+EPZ	1951	3.4	#-1640
16	+IPZ	1300	56.7		17	+EPcPZ	1951	9.8	#-1640
16	-EPZ	1511	23.4		17	+EPZ	2229	6.0	
16	+EPZ	1511	32.5		17	-EPZ	2229	8.4	
16	+EPZ	1511	43.0		17	+EXZ	2303	20.0	#-1641
16	+EPZ	1640	47.0		18	-EPZ	0023	25.8	
16	-EPZ	1641	2.0		18	+EPZ	0116	6.8	
16	-EPZ	1801	56.0		18	+EPZ	0116	15.0	
16	-EPZ	1802	0.0		18	-EPZ	0135	31.4	
16	+EPZ	2117	24.0		18	+EPZ	0201	44.0	
16	+IPZ	2353	42.0		18	-EPZ	0224	21.0	
16	-IPZ	2353	52.0		18	-EPZ	0224	31.5	
17	+EPZ	0227	2.2		18	+EPZ	0307	16.2	
17	+EPZ	0227	5.4		18	+EPZ	0337	11.6	
17	+EPZ	0227	10.0		18	+IPZ	0426	39.5	#-1642
17	-EPcPZ	0238	26.8	#-1636	18	+EPcPZ	0426	45.8	#-1642
17	-IPZ	0455	1.5		18	+EPZ	0436	3.4	
17	ESH	0505	29.0		18	+EPZ	0436	8.0	
17	+EPZ	0602	19.0	#-1637	18	-EPZ	0533	29.3	
17	+EPZ	0612	7.1		18	+EPZ	0533	50.4	#-1643
17	+EPZ	0712	2.4		18	-EPZ	0617	0.8	
17	+EPZ	0712	4.0		18	+EPZ	0745	23.4	
17	+EPZ	0713	14.0		18	+EPZ	0745	28.4	
17	+EPZ	0812	0.6		18	-EPZ	0848	16.0	
17	+EPZ	0815	24.6		18	+EPZ	0914	5.0	
17	+EPZ	1035	24.6		18	-EPZ	1102	31.4	
17	+EPZ	1035	42.9		18	+EPZ	1102	35.4	
17	+EPZ	1212	21.0		18	+EPZ	1555	21.0	
17	+EPZ	1450	22.0		18	-EPZ	1555	29.4	
17	+EPZ	1611	41.7	#-1638	18	+EPZ	1709	11.0	
17	+EPZ	1611	44.4	#-1638	18	-EPZ	2132	4.9	#-1644

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
19	+IPZ	0224	25.1		20	+EPZ	0244	30.1	
19	-EPZ	0224	30.0		20	+EPZ	0244	38.6	
19	+IPZ	0520	35.1	#-1645	20	-EPZ	0341	46.8	
19	-IpPZ	0522	39.0	#-1645	20	+EPZ	0341	50.0	
19	-EPPZ	0524	10.0	#-1645	20	+EPZ	0404	26.8	
19	+EPZ	0618	21.6		20	+EPZ	0454	32.2	
19	+EPZ	0618	29.0		20	+EPZ	0454	35.0	
19	+EPZ	0653	1.0	#-1646	20	+EPZ	0617	36.6	
19	-EPcPZ	0653	25.8	#-1646	20	+EPZ	0641	14.6	
19	+EsPZ	0653	37.6	#-1646	20	+EPZ	1138	33.4	
19	+EPZ	0715	24.6		20	+EPZ	1224	19.0	
19	-EPZ	0715	32.0		20	+EPZ	1224	25.5	
19	+EPZ	0834	15.0		20	+EPZ	1323	3.0	
19	+EPZ	0842	37.6		20	+EPZ	1640	23.6	
19	+EPZ	1024	15.4	#-1647	20	+EXZ	1641	43.6	#-1652
19	+EPPZ	1024	19.4	#-1647	20	+EPZ	1816	23.0	
19	-EPcPZ	1024	56.6	#-1647	20	+EPZ	2006	40.2	
19	+EPZ	1208	11.8		20	+IPZ	2200	13.6	#-1653
19	-EPcPZ	1208	49.0	#-1648	20	+IXZ	2200	19.4	#-1653
19	-IPZ	1546	0.1	#-1649	20	+EPZ	2256	8.6	
19	+IpPZ	1546	10.0	#-1649	20	+EPZ	2256	13.0	
19	-EPZ	1557	22.4		20	+EPZ	2256	26.0	
19	-EPZ	1734	34.9	#-1650	20	+EPZ	2313	24.4	#-1654
19	-EPcPZ	1734	38.0	#-1650	20	-IPcPZ	2313	28.0	#-1654
19	-EpPZ	1734	47.0	#-1650	20	+IpPZ	2313	35.6	#-1654
19	-EPZ	1811	33.0		20	ESH	2324	13.0	#-1654
19	-EPZ	1811	35.0		20	-EPZ	2340	56.0	#-1655
19	-EPZ	1836	35.0		20	-EsPZ	2341	2.0	#-1655
19	-EPZ	2135	16.8		21	+EPZ	0027	14.0	
19	+EPZ	2259	16.0	#-1651	21	+EPZ	0110	47.2	
19	+EPcPZ	2259	39.0	#-1651	21	+EPZ	0137	45.7	
19	+EPZ	2342	33.4		21	+EPZ	0138	1.4	
20	+EPZ	0146	44.8		21	+EPZ	0142	26.8	
20	+EPZ	0146	47.4		21	+EPZ	0222	40.0	
20	-EPZ	0226	39.0		21	+EPZ	0250	15.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
21	+EPZ	0252	49.1	#-1656	22	+EpPdiffZ	1505	26.5	#-1658
21	-EPZ	0303	19.7		22	+EPZ	1617	12.2	
21	+EPZ	0427	34.0		22	+EPZ	1617	13.4	
21	+EPZ	0604	2.6		22	-EPZ	1617	24.0	
21	-EPZ	0701	17.5		22	+EPZ	1714	8.5	
21	-EPZ	0714	47.0		22	+EPZ	1714	11.0	
21	-IPZ	0714	51.0		22	+EPZ	2100	16.0	
21	+EPZ	0719	33.6		22	-EPZ	2257	18.5	
21	-EPZ	0828	24.8		23	+EPZ	0313	24.2	
21	+EPZ	0828	28.8		23	+EPZ	0447	33.5	#-1659
21	-EPZ	0837	9.5		23	-EPcPZ	0447	36.6	#-1659
21	+EPZ	0932	17.0		23	+IPKpdfZ	0911	36.9	#-1660
21	+EPZ	0932	21.9		23	+IPZ	0941	23.0	#-1661
21	-EPZ	1016	39.9		23	-EsPZ	0941	28.0	#-1661
21	-EPZ	1151	27.8		23	+IPZ	0951	38.6	
21	+EPZ	2108	24.0		23	-IPZ	0951	45.2	
21	+EPZ	1514	12.0		23	ESH	1001	42.4	
21	-EPZ	1514	21.0		23	-EPZ	1056	47.0	#-1662
21	+EPZ	1806	35.9		23	+EpPZ	1056	54.0	#-1662
21	+EPZ	2009	16.2		23	+EPZ	1517	34.8	
21	-EPZ	2048	9.0		23	+EPZ	1517	36.4	
21	+EPZ	2219	20.0		23	+EPZ	1616	7.4	
22	+EPZ	0019	38.4		23	+EPZ	1616	15.2	
22	+EPZ	0154	20.0		23	+EPZ	1627	6.2	
22	+EPZ	0506	4.6		23	+EXZ	1800	49.0	#-1663
22	+EPZ	1002	9.6	#-1657	23	+EPZ	2020	33.2	
22	+EpPZ	1002	19.8	#-1657	23	-EPZ	2117	31.8	
22	-EsPZ	1002	24.4	#-1657	23	+EPZ	2143	28.3	
22	-EPZ	1013	37.2		23	-EPZ	2227	15.0	
22	+EPZ	1217	52.6		23	-EPZ	2331	44.6	
22	-EPZ	1217	56.4		24	+EXZ	0015	56.0	#-1664
22	+EPZ	1403	6.0		24	-EpPZ	0016	7.3	#-1664
22	+EPZ	1404	14.2		24	+EPZ	0102	45.0	
22	+EPZ	1404	18.0		24	+EPZ	0115	1.0	
22	+EPdiffZ	1505	22.2	#-1658	24	-EPZ	0221	26.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
24	+EPZ	0321	36.0		25	+EPZ	2121	25.4	
24	-EPZ	0438	25.5		25	+EPZ	2241	16.0	#-1675
24	-EPZ	0556	13.6		25	+EPZ	2312	8.4	
24	+EPZ	0604	29.0		25	+EPZ	2319	23.0	
24	+EPZ	0823	48.0		26	+EPZ	0106	24.0	
24	+EPZ	1528	24.8		26	-EPcPZ	0132	30.4	#-1676
24	+EPZ	1728	22.0		26	+EPZ	0215	25.3	
24	+EPZ	1815	22.0		26	+EPZ	0422	12.0	
24	+EPZ	2216	27.0	#-1665	26	-EPZ	0422	16.2	
24	-EXZ	2216	46.8	#-1665	26	+EPZ	0618	18.6	
24	+EXZ	2225	23.5	#-1666	26	+EPZ	1021	12.4	
24	+EPZ	2243	22.0		26	+EPZ	1021	15.7	
24	+EPZ	2338	31.8		26	+EPZ	1021	39.0	
25	+EPcPZ	0152	0.5	#-1667	26	+EPZ	1121	1.2	
25	-EPZ	0548	32.6	#-1668	26	+EPZ	1304	8.0	
25	+EpPZ	0548	55.4	#-1668	26	+EPZ	1304	17.9	
25	+EPZ	0552	33.0	#-1669	26	-EPZ	1421	37.0	
25	+EPZ	0937	49.0	#-1670	26	+EPZ	1604	1.5	
25	+EPPZ	0937	49.9	#-1670	26	+EPZ	1604	4.4	
25	-IPZ	1022	19.0	#-1671	26	+EPZ	1604	10.2	
25	-EPcPZ	1022	22.0	#-1671	26	-EPZ	1727	15.2	
25	-EPZ	1050	33.8		26	-EPZ	2003	12.0	
25	+EPZ	1228	13.4		26	+EPZ	2003	17.9	
25	+EPZ	1852	21.2	#-1672	26	+EPZ	2151	19.6	#-1677
25	-IPcPZ	1852	23.9	#-1672	26	+EpPZ	2151	29.0	#-1677
25	-EpPZ	1854	30.6	#-1672	26	+EsPZ	2151	35.4	#-1677
25	ESH	1902	6.6	#-1672	26	+EPZ	2248	9.4	
25	+EPZ	1910	4.0	#-1673	26	+EPZ	2341	12.0	
25	+EpPZ	1910	18.6	#-1673	27	+IPZ	0100	31.6	#-1678
25	+EPZ	2002	39.0		27	-EPcPZ	0100	50.0	#-1678
25	+EPZ	2015	3.2		27	-EPZ	0221	9.4	
25	+EPZ	2015	9.2		27	+EPZ	0237	38.0	
25	-EPZ	2102	48.4	#-1674	27	+EPZ	0237	41.2	
25	-EsPZ	2102	53.0	#-1674	27	+EPZ	0318	6.4	
25	+EPZ	2121	20.0		27	+EPZ	0518	14.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
27	-EPZ	0518	21.2		28	+EXZ	0445	13.0	#-1689
27	-EPZ	0518	29.0		28	+IPZ	0610	4.4	
27	+EPZ	0623	43.0		28	+EPZ	0632	19.7	
27	+EPZ	0648	32.0		28	+EPZ	0748	2.0	
27	-IPZ	0648	42.0		28	-EPZ	0748	10.4	
27	+IPZ	0714	13.4	#-1679	28	-EPZ	0748	15.0	
27	-IPcPZ	0714	14.8	#-1679	28	-EPZ	0907	37.0	
27	+EPZ	0914	4.4		28	+EPZ	0938	5.2	
27	+EPZ	0914	8.0		28	+EPKpabZ	0938	19.2	#-1690
27	+EPZ	0914	20.4		28	+EPZ	1004	16.0	
27	-IPZ	0944	37.6	#-1680	28	-IPZ	1004	19.8	
27	+EsPZ	0944	43.8	#-1680	28	+EPZ	1153	8.0	
27	+EPZ	1044	19.0		28	+EPZ	1223	23.7	
27	-IPZ	1044	31.4		28	+EPZ	1417	40.2	
27	-EPZ	1114	24.0		28	-EPZ	1501	33.0	
27	-IPZ	1114	27.5		28	+EPZ	1641	24.2	
27	-EPZ	1253	4.2		28	+EPZ	1854	10.3	
27	-EPZ	1445	14.8		28	-EPZ	1914	26.2	
27	+EPdiffZ	1600	3.4	#-1681	28	+EPZ	1914	56.0	
27	+EPZ	1801	44.0		28	+EPZ	1923	2.0	
27	+IPZ	2026	7.0	#-1682	28	+EXZ	1924	11.0	#-1691
27	-IPcPZ	2026	10.0	#-1682	28	+EXZ	1924	30.0	#-1691
27	+IPZ	2027	18.4	#-1683	28	+EPZ	1928	40.4	
27	+EpPZ	2027	27.4	#-1683	28	+EPZ	1928	48.8	
27	+EPZ	2109	11.0	#-1684	28	+EPZ	1929	9.3	
27	+EPcPZ	2109	14.6	#-1684	28	-EPZ	1930	22.8	
27	+EPZ	2236	21.8	#-1685	28	+EPKpabZ	1930	45.0	#-1692
28	+EPdiffZ	0256	46.7	#-1686	29	+EPZ	0234	48.0	#-1693
28	+IpPdiffZ	0256	49.4	#-1686	29	-EPcPZ	0234	55.8	#-1693
28	+EPZ	0302	15.4		29	-EpPZ	0235	4.4	#-1693
28	-EPZ	0321	33.0	#-1687	29	+EPZ	0511	35.0	
28	+EPcPZ	0321	35.4	#-1687	29	+EPZ	0511	40.2	
28	+IXZ	0322	6.2	#-1687	29	+EPZ	0531	49.6	
28	+IPZ	0333	24.6		29	-EPZ	0613	35.0	
28	+IPKpafZ	0334	9.0	#-1688	29	-EPZ	0613	39.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	+EPZ	0640	27.2		30	+EXZ	1112	38.2	#-1705
29	+EPZ	0640	45.0	#-1694	30	+EPZ	1127	0.8	
29	-EPcPZ	0640	51.4	#-1694	30	+EPZ	1213	40.3	
29	+EsPZ	0640	55.0	#-1694	30	+EPZ	1304	30.2	#-1706
29	+EPZ	0940	48.7		30	-IPcPZ	1304	32.7	#-1706
29	+EPZ	0940	50.8		30	-EPZ	1323	28.4	#-1707
29	+EPZ	1042	8.8	#-1695	30	-IpPZ	1323	44.4	#-1707
29	+IPZ	1542	38.4	#-1696	30	+EPZ	1324	0.6	
29	-EPcPZ	1542	41.0	#-1696	30	+EPZ	1402	37.2	
29	+EpPZ	1542	56.0	#-1696	30	-EPZ	1534	40.8	#-1708
29	+EPZ	2002	6.4	#-1697	30	+EPcPZ	1534	44.0	#-1708
29	+EXZ	2002	12.0	#-1697	30	+EPZ	1703	18.0	
29	-EPZ	2210	23.0		30	+EPZ	2006	10.5	
29	+EPZ	2133	42.8	#-1698	30	+EPZ	2006	17.0	
29	+EPcPZ	2133	46.2	#-1698	30	+EPZ	2148	13.5	
29	+EPZ	2257	0.7		30	+EPZ	2155	40.4	#-1709
29	+EpPZ	2352	31.4	#-1699	30	+EPZ	2206	47.0	
29	-EPcPZ	2352	35.8	#-1699	30	-EPZ	2206	49.8	
30	+EPZ	0004	12.9		30	+EPZ	2342	54.8	
30	-EXZ	0052	42.6	#-1700	31	+EPZ	0017	53.0	
30	-EPZ	0309	5.4		31	-EPZ	0210	6.4	
30	-EPZ	0309	48.0		31	+EPZ	0514	21.5	
30	-IPZ	0310	3.0		31	+EPZ	0915	22.4	
30	-EXZ	0315	11.0	#-1701	31	-EPZ	0937	22.0	
30	+EPZ	0533	53.0	#-1702	31	+EPZ	1117	17.4	
30	-EPZ	0533	55.8		31	+EPZ	1525	39.4	#-1710
30	+EPZ	0610	6.2		31	-EpPZ	1325	41.8	#-1710
30	+IPZ	0725	26.6	#-1703	31	+EPZ	1551	10.2	
30	-EPZ	0728	11.6		31	-EPZ	1638	25.4	#-1711
30	+EPZ	0724	29.0	#-1704	31	-EPcPZ	1638	34.6	#-1711
30	+EPcPZ	0724	34.4	#-1704	31	+EpPZ	1638	40.5	#-1711
30	+EPZ	0728	11.6	#-1704	31	+EPZ	1809	39.4	
30	+EPZ	0820	47.0		31	-EPZ	1809	48.8	
30	-EPZ	0821	15.0		31	-EPZ	1815	54.4	
30	+EPZ	1112	28.4	#-1705	31	+EPZ	1851	3.9	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
31	-EPZ	1851	7.0		1	-EPZ	1523	16.0	
31	+EPZ	2107	12.9		1	+EPZ	1717	9.6	
31	+EPZ	2140	17.0	#-1712	1	+EPZ	1717	14.6	
31	-EPZ	2151	40.0		1	-EPZ	1717	18.0	
31	+EPZ	2346	15.6		1	+EPZ	1807	8.0	
31	-EPZ	2346	20.2		1	+EPZ	1807	12.0	
Nov.					1	+EPZ	2307	11.5	
1	-EPZ	0007	8.8		1	+EPcPZ	2350	8.4	#-1720
1	-EPZ	0007	10.2		1	+EpPZ	2350	19.4	#-1720
1	-EPZ	0020	15.0		1	-EXZ	2350	31.1	#-1720
1	+EPZ	0227	24.5		1	+EPZ	2354	14.3	#-1721
1	-EPZ	0306	10.8		2	+EPZ	0054	39.5	
1	+EPZ	0311	1.0		2	+EPZ	0109	19.0	
1	+EPZ	0323	7.5		2	+IPZ	0133	52.0	#-1722
1	+IPZ	0543	29.0	#-1713	2	+EPKPdFZ	0211	50.0	#-1723
1	-EPcPZ	0543	33.2	#-1713	2	+EpPKPdFZ	0211	55.2	#-1723
1	+EXZ	0716	47.0	#-1714	2	+EPZ	0228	17.4	
1	-IpPKiKPZ	0717	12.0	#-1714	2	+EPZ	0240	2.6	
1	+EPZ	0742	0.8		2	-EPZ	0259	6.3	
1	+EPZ	0742	6.9		2	+EPZ	0815	39.4	
1	+EPZ	0819	42.7		2	+EPZ	0815	42.8	
1	+EPZ	0859	25.8		2	+EPZ	0919	14.4	#-1724
1	+EPZ	0909	47.4		2	+EXZ	0919	20.0	#-1724
1	+EPZ	0959	54.8	#-1715	2	+EpPZ	0919	27.4	#-1724
1	+EXZ	1010	45.8	#-1716	2	+EPZ	0955	35.8	
1	-EPZ	1200	27.8		2	-EPZ	0955	39.4	
1	+EPZ	1200	29.4		2	-EPZ	1013	55.0	
1	+EPZ	1213	28.6	#-1717	2	+EPZ	1013	57.0	
1	+EXZ	1213	49.3	#-1717	2	-EPZ	1128	6.4	
1	+EPZ	1312	21.7		2	+EXZ	1152	8.8	#-1725
1	-EPZ	1339	4.6	#-1718	2	+EPZ	1311	33.0	
1	+EPZ	1339	11.2	#-1718	2	+EPZ	1415	40.7	#-1726
1	+EPZ	1423	29.7		2	+EPcPZ	1415	42.4	#-1726
1	-IPZ	1423	32.5	#-1719	2	-EPZ	1609	52.0	
1	-IXZ	1423	40.0	#-1719	2	-EPZ	1610	0.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
2	-IPZ	1830	1.4		4	+EpPZ	0029	45.0	#-1734
2	-IPZ	1831	3.1		4	+EPZ	0114	42.0	
2	ESH	1841	32.0		4	+EPZ	0146	1.6	
2	+EPZ	1907	18.8		4	+EPZ	0204	48.6	#-1735
2	+EPZ	1928	33.0		4	+EsPZ	0427	59.0	#-1736
2	-EPZ	2012	10.4		4	+EPZ	0428	34.2	#-1737
2	-EPZ	2121	24.6		4	+EpPZ	0428	42.0	#-1737
2	+EPZ	2215	25.7		4	+EPcPZ	0649	47.0	#-1738
2	+EPZ	2235	11.0		4	+EpPZ	0650	15.0	#-1738
2	+EPZ	2235	19.6		4	-EsPZ	0650	28.8	#-1738
2	-EXZ	2353	11.3	#-1727	4	+EPZ	1225	11.8	#-1739
2	+EXZ	2353	20.0	#-1727	4	+EPcPZ	1225	16.2	#-1739
3	+EXZ	0221	13.0	#-1728	4	-EXZ	1225	34.0	#-1739
3	+EpPZ	0221	29.0	#-1728	4	+EPZ	0547	18.3	
3	-EPZ	0410	17.0	#-1729	4	+EPZ	0547	20.6	
3	-EPcPZ	0410	22.2	#-1729	4	+EPZ	0719	35.0	
3	+EPZ	0622	37.0		4	+EPZ	0745	22.9	
3	+EPZ	0809	14.0		4	+EPZ	0745	32.5	
3	+EPZ	0809	21.2		4	+EPZ	0806	54.0	
3	+EPZ	0825	5.0		4	-EPZ	1248	23.2	
3	+EPdiffZ	1125	56.8	#-1730	4	+EPZ	1320	29.7	
3	+EPZ	1245	48.0		4	-EPZ	1405	51.0	
3	-EPZ	1251	30.4		4	+EPZ	1534	13.9	
3	+EPZ	1311	15.4	#-1731	4	+IPZ	1641	15.0	#-1740
3	+EpPZ	1311	17.2	#-1731	4	+EPZ	1641	24.0	
3	-EPZ	1408	30.6	#-1732	4	-EPZ	1718	50.6	#-1741
3	+EPZ	1517	59.0		4	-EPcPZ	1718	55.1	#-1741
3	+EPZ	1643	5.7		4	-EPZ	1806	27.0	
3	-EPZ	1920	36.0		4	+EPZ	1806	28.6	
3	-EPZ	2023	15.2		4	+EPZ	1806	33.0	
3	-EPZ	2101	36.4	#-1733	4	+EPZ	1920	1.1	#-1742
3	+EPcPZ	2101	40.7	#-1733	4	-EpPZ	1920	42.8	#-1742
3	+EPZ	2123	35.0		4	+EPZ	1949	18.2	
4	+EPZ	0029	8.8	#-1734	4	+EPZ	1949	22.2	
4	+EPcPZ	0029	10.1	#-1734	4	+EPZ	2139	28.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
4	+EPZ	2240	21.5		6	+EPZ	0217	36.9	
4	-EPZ	2345	25.8		6	+EPZ	0217	44.0	
4	+IPZ	2345	28.2		6	+EPZ	0244	31.0	
5	+EpPZ	0000	0.4	#-1743	6	+EPZ	0348	4.8	#-1750
5	+EsPZ	0000	3.0	#-1743	6	+EPcPZ	0348	7.4	#-1750
5	+EPZ	0032	37.0	#-1744	6	+EPZ	0411	18.4	
5	-IpPZ	0032	40.5	#-1744	6	+EPZ	0511	22.8	
5	+EsPZ	0109	5.0	#-1745	6	-EPZ	0511	25.4	
5	+EPZ	0250	38.2		6	+EPZ	0624	3.0	
5	+EPZ	0443	23.4	#-1746	6	+EPZ	0629	34.0	
5	+EPKpdfZ	0449	32.0	#-1746	6	+IPZ	0629	37.2	
5	ESH	0453	9.0	#-1746	6	+EPZ	0714	41.0	
5	+EPZ	0551	20.9		6	+EPZ	1108	31.4	
5	+EPZ	0552	1.2		6	+EPZ	1112	47.6	
5	+EPZ	0921	23.0		6	+EPZ	1117	15.6	
5	+EPZ	0921	39.0		6	-EPZ	1120	56.0	#-1751
5	-EPZ	0921	41.4		6	-EpPZ	1121	1.8	#-1751
5	+EPZ	0949	3.8		6	+EXZ	1121	11.2	#-1751
5	+EPZ	0949	13.4		6	+EPZ	1343	23.0	
5	-EPZ	1010	16.3		6	+EPZ	1412	36.0	
5	+EPZ	1212	21.9	#-1747	6	+EPZ	1433	37.4	
5	+EPZ	1335	7.0		6	+EPZ	1433	51.3	#-1752
5	+EPZ	1438	36.6		6	+EPZ	1622	4.0	
5	+EPZ	1438	42.8		6	+EPZ	1622	14.9	
5	-EPZ	1704	15.8		6	+EPZ	2011	40.9	
5	-EPZ	1850	45.8		6	+EPZ	2216	5.0	
5	-IPZ	1850	48.2		7	+EPZ	0258	46.0	
5	-IPZ	1850	58.6		7	+IPZ	0258	47.6	
5	+EPZ	1924	11.0		7	+EPZ	0419	26.8	
5	+EPZ	2330	3.0		7	-EPZ	0757	20.4	
6	-EPZ	0122	1.0		7	+EPZ	0914	39.0	
6	-IXZ	0149	10.0	#-1748	7	+EPZ	1123	52.0	
6	-IPcPZ	0149	13.9	#-1748	7	-EPZ	1236	10.8	
6	-IpPZ	0149	18.8	#-1748	7	+EPZ	1249	3.2	
6	-IXZ	0155	13.6	#-1749	7	+EPZ	1249	4.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
7	+EPZ	1249	8.0		8	+EPZ	0839	28.0	
7	-EPZ	1315	51.6		8	+EPZ	0839	42.0	
7	+EPKPdfZ	1654	27.0	#-1753	8	+EPZ	0922	30.0	
7	-IPKiKPZ	1654	29.0	#-1753	8	-EPZ	0922	36.3	
7	+EsPKPdfZ	1654	40.0	#-1753	8	+EPZ	1014	13.0	
7	ESH	1705	4.0	#-1753	8	+EPZ	1200	25.3	
7	+EPZ	2013	11.0		8	+EPZ	1626	5.6	
7	+EPZ	2013	16.8		8	-EPZ	1644	16.3	
7	+IPZ	2130	57.8	#-1754	8	-EPZ	1745	44.0	#-1762
7	+EPcPZ	2131	6.2	#-1754	8	+EXZ	1745	53.2	#-1762
7	+EpPZ	2131	21.4	#-1754	8	+EPZ	1746	20.0	
7	+EPZ	2251	53.4	#-1755	8	+EpPZ	1809	37.0	#-1763
7	-EpPZ	2252	3.2	#-1755	8	+EPZ	1915	35.4	
7	+EXZ	2252	5.8	#-1755	8	+EPZ	1915	38.4	
7	+EPZ	2354	57.0	#-1756	8	+EPZ	2018	27.4	
7	-IPcPZ	2355	0.0	#-1756	8	+EPZ	2211	15.2	
7	+IpPZ	2355	21.9	#-1756	8	+EPZ	2246	25.0	
8	+EPZ	0015	13.2		8	+EPZ	2246	30.0	
8	+EPZ	0222	4.4		8	+EPZ	2319	21.0	
8	+EPZ	0222	10.3		9	+EXZ	0008	36.7	#-1764
8	+EPZ	0222	14.8		9	-EPZ	0016	53.4	
8	-EPZ	0302	2.7		9	+EPZ	0022	31.0	
8	+EPZ	0336	1.1	#-1757	9	-EPZ	0022	34.7	
8	+EpPZ	0336	30.0	#-1757	9	-EPZ	0106	0.0	
8	-EPZ	0331	9.4	#-1758	9	-IPKPdfZ	0411	0.0	#-1765
8	-EpPZ	0331	11.4	#-1758	9	-EpPKPdfZ	0411	12.0	#-1765
8	-EPZ	0427	46.4		9	+IPZ	0600	29.0	#-1766
8	-EPZ	0433	31.8	#-1759	9	-EXZ	0600	30.6	#-1766
8	-EPZ	0437	0.0		9	+EPcPZ	0601	52.0	#-1766
8	-EXZ	0728	17.5	#-1760	9	+EPZ	0615	3.9	
8	-EPZ	0728	21.6		9	-EPZ	0651	47.6	#-1767
8	-EPZ	0752	23.9	#-1761	9	+EPZ	0714	38.2	
8	-EPcPZ	0752	27.8	#-1761	9	+EPZ	0805	16.0	
8	+EpPZ	0752	53.5	#-1761	9	-EPZ	0805	20.9	
8	+EPZ	0826	31.0		9	-IPZ	1000	47.8	#-1768

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
9	+EpPZ	1001	11.2	#-1768	10	+EPcPZ	0617	14.4	#-1773
9	+EScPZ	1007	10.0	#-1768	10	+EPZ	0918	54.5	
9	+EPZ	1007	14.0		10	+EPZ	0923	34.2	#-1774
9	-EPZ	1159	18.6		10	-EPZ	1021	1.8	
9	+EPZ	1309	21.0		10	+EPZ	1047	37.6	
9	+EPZ	1309	28.8		10	+EPZ	1217	40.4	
9	-EPZ	1407	15.1		10	+EPZ	1217	43.7	
9	-EPZ	1420	30.5		10	+EPZ	1317	27.2	
9	-EPZ	1441	42.0		10	-EPZ	1317	35.8	
9	-EPZ	1441	45.5		10	-IPZ	1356	19.0	#-1775
9	+EXZ	1456	34.0	#-1769	10	+IPZ	1510	36.4	#-1776
9	-EPZ	1519	47.8	#-1770	10	ESH	1521	17.0	#-1776
9	+EPcPZ	1519	56.0	#-1770	10	+EPZ	2002	21.2	
9	+EPZ	1732	38.6	#-1771	10	+EPZ	2308	6.3	
9	+EPZ	1843	4.8		10	-EPZ	2308	15.4	
9	+EPZ	1941	15.7		11	+IPZ	0308	38.7	#-1777
9	+EPZ	2011	55.2	#-1772	11	+EsPZ	0309	7.0	#-1777
9	-EsPZ	2012	0.9	#-1772	11	+EPZ	0423	36.7	#-1778
9	+EPZ	2106	35.0		11	-EXZ	0504	5.8	#-1779
9	+EPZ	2106	40.0		11	-IPcPZ	0513	17.0	#-1780
9	+EPZ	2106	45.0		11	+EpPZ	0521	43.2	#-1781
9	-EPZ	2110	19.9		11	+EPZ	0536	31.0	#-1782
9	+EPZ	2110	29.6		11	+EPcPZ	0536	39.4	#-1782
9	+EPZ	2157	18.0		11	+EPZ	0557	32.6	#-1783
9	+EPZ	2157	20.4		11	-EPcPZ	0558	2.0	#-1783
10	+EPZ	0219	4.4		11	-EPZ	0709	1.0	
10	+EPZ	0247	2.0		11	+EXZ	0741	39.4	#-1784
10	+EPZ	0339	0.0		11	+EPZ	0756	19.8	
10	-EPZ	0339	4.2		11	+EPZ	0805	11.2	#-1785
10	+EPZ	0339	12.6		11	-EXZ	0805	19.6	#-1785
10	+EPZ	0339	18.0		11	+EpPZ	0815	13.5	#-1786
10	+EPZ	0524	5.6		11	+EPZ	0840	2.0	
10	+EPZ	0524	12.0		11	+EPZ	0840	5.6	
10	-EPZ	0524	35.2		11	-EPZ	0840	20.3	
10	-EPZ	0617	2.0	#-1773	11	+EPZ	1037	16.5	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
11	+EPZ	1111	29.6		12	+EPZ	0516	54.0	#-1792
11	+EPZ	1136	7.4		12	-EpPZ	0516	58.0	#-1792
11	-EPZ	1509	12.0		12	-EsPZ	0517	0.0	#-1792
11	+EPZ	1509	15.4	#-1787	12	-EPZ	0523	32.6	
11	+EPcPZ	1509	18.6	#-1787	12	+EPZ	0523	43.4	
11	+EpPZ	1509	24.0	#-1787	12	+EPZ	0540	9.6	
11	+EPZ	1604	39.0		12	+EPZ	0805	39.0	
11	+EPZ	1632	20.6		12	+EPZ	0805	41.2	
11	+EPZ	1721	25.0		12	+EPZ	0807	10.5	
11	+EPdiffZ	1833	31.0	#-1788	12	+IPZ	1043	54.4	#-1793
11	+EpPdiffZ	1833	33.0	#-1788	12	-IPcPZ	1043	57.4	#-1793
11	-EPZ	1843	2.0		12	+EPZ	1053	2.0	
11	-EPZ	2049	0.0		12	-IPZ	1104	54.0	#-1794
11	+EPZ	2126	35.2		12	+EPZ	1120	31.8	
11	+EPZ	2126	37.0		12	+EPZ	1130	1.6	
11	-EPZ	2146	13.3	#-1789	12	-EPZ	1130	3.8	
11	+EPZ	2219	16.0		12	+EPZ	1134	29.0	
11	-EPZ	2233	50.5		12	+EPZ	1202	47.7	
11	-EPZ	2234	10.0		12	-EPZ	1210	44.6	
11	+EPZ	2318	25.8		12	+EPZ	1216	21.0	
11	-EPZ	2318	29.6		12	+EPZ	1307	38.4	
11	+EPdiffZ	2333	37.4	#-1790	12	+EPZ	1403	12.0	
11	+EPKpdfZ	2336	9.8	#-1790	12	+EPZ	1403	16.3	
11	+EPdiffZ	2336	6.2	#-1791	12	+EPZ	1405	3.0	#-1795
11	-EXZ	2336	25.2	#-1791	12	+EPZ	1422	52.2	
12	+EPZ	0025	21.6		12	-EPZ	1459	4.6	#-1796
12	+EPZ	0025	22.9		12	-IPcPZ	1459	6.0	#-1796
12	+EPZ	0126	51.6		12	-IPZ	1508	37.6	
12	+EPZ	0144	21.0		12	-IpPZ	1511	13.0	#-1797
12	+EPZ	0242	25.0		12	-IPZ	1511	28.0	
12	-EPZ	0242	28.4		12	+EPZ	1528	8.5	
12	+EPZ	0321	21.0		12	+EPZ	1635	13.0	
12	+EPZ	0333	6.4		12	+EPZ	1831	4.0	
12	+EPZ	0333	15.4		12	+EPZ	1851	28.0	
12	+EPZ	0438	19.8		12	+EPZ	1946	21.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
12	+EPKpdfZ	2102	21.6	#-1798	13	-EsPZ	2336	42.1	#-1804
12	+EXZ	2102	30.0	#-1798	14	-EPZ	0011	53.0	#-1805
12	-IXZ	2103	28.8	#-1798	14	+EPcPZ	0012	10.0	#-1805
12	+EXZ	2103	40.3	#-1798	14	-EpPZ	0012	15.1	#-1805
12	ESH	2114	0.0	#-1798	14	+EsPZ	0012	25.0	#-1805
12	+EPZ	2117	26.4		14	+EPZ	0212	14.9	
12	+EPZ	2229	20.0		14	+EPZ	0212	18.0	
12	+EPZ	2229	22.6		14	+EPZ	0452	27.1	
12	+EPZ	2254	28.0		14	-EPZ	0525	9.6	
12	-EPZ	2309	37.8	#-1799	14	+EXZ	0535	20.4	#-1806
12	-EpPZ	2309	41.0	#-1799	14	+EPZ	0549	1.8	
13	+EPZ	0204	17.2		14	-EPZ	0549	4.0	
13	+IPZ	0204	20.5		14	+EPZ	0549	13.0	
13	+EPdiffZ	0210	22.0	#-1800	14	-EPZ	0611	31.0	
13	+EPZ	0217	58.0		14	+IPZ	0659	33.0	
13	+EPZ	0323	10.8	#-1801	14	+IPZ	0659	37.6	
13	-EpPZ	0323	32.0	#-1801	14	+EPZ	0707	25.5	
13	-EPZ	0410	46.2		14	-IPZ	0754	39.3	#-1807
13	+EXZ	0516	31.0	#-1802	14	+IPcPZ	0754	42.4	#-1807
13	-EpPKPabZ	0516	44.6	#-1802	14	+EXZ	0800	7.6	#-1807
13	+EXZ	0657	40.0	#-1803	14	-EsPZ	0928	0.0	#-1808
13	+EPZ	0801	24.7		14	+EPZ	1004	48.0	
13	+EPZ	0836	15.0		14	+EPZ	1004	52.0	
13	-EPZ	1004	15.4		14	+EPZ	1153	41.0	#-1809
13	+EPZ	1004	19.8		14	+EPZ	1154	6.2	
13	+EPZ	1105	49.0		14	+EPZ	1220	5.2	
13	-EPZ	1105	50.6		14	+EPZ	1220	6.4	
13	-EPZ	1225	55.4		14	+EPZ	1321	16.8	
13	-EPZ	1321	7.2		14	-EPZ	1321	26.2	
13	+EPZ	1441	13.0		14	-IPZ	1321	29.0	
13	+EPZ	1441	19.8		14	+EPZ	1451	1.9	
13	+EPZ	1736	20.4		14	-EPZ	1632	17.0	
13	+EPZ	2120	43.0		14	-IPZ	1834	30.0	#-1810
13	-EPZ	2336	27.2	#-1804	14	-IPcPZ	1834	30.6	#-1810
13	+EpPZ	2336	35.0	#-1804	14	+EPZ	1913	10.0	#-1811

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
14	-IpPZ	1913	25.2	#-1811	16	-EPZ	0118	25.7	
14	ESH	1922	14.0	#-1811	16	+EPZ	0049	50.4	#-1820
14	-IPZ	1941	9.4		16	+IPcPZ	0049	57.8	#-1820
14	+IPZ	1941	12.0		16	-EPZ	0118	25.8	
14	+EPZ	1959	45.4		16	-EPZ	0215	18.0	
14	+EPZ	1959	47.0		16	+EPZ	0319	6.9	
14	+EPZ	2018	12.2		16	-EPZ	0319	10.7	
14	-EPZ	2311	47.0		16	-EPZ	0415	26.0	
14	+EPZ	2311	49.0		16	-EPZ	0618	24.2	#-1821
14	+IPZ	2355	3.2	#-1812	16	-IPZ	0634	29.0	#-1822
14	-EpPZ	2355	6.4	#-1812	16	+EPZ	0711	26.0	
15	+EPZ	0013	15.4	#-1813	16	-EPZ	0738	14.0	
15	-EPZ	0031	50.8		16	+EPdiffZ	0841	37.2	#-1823
15	+EPZ	0148	30.0		16	+EPZ	0913	12.0	
15	-EPZ	0223	8.4		16	-EPZ	0913	19.9	
15	+EPZ	0316	23.0		16	+EPZ	1413	27.4	
15	-EPZ	0316	28.6		16	+EXZ	1806	48.0	#-1824
15	-EPZ	0556	35.0		16	+EpPZ	1806	55.4	#-1824
15	-EPZ	0820	3.4		16	+EPZ	1918	41.6	
15	-EPZ	1053	16.7		16	-IPZ	1832	7.4	
15	-EXZ	1142	13.8	#-1814	16	-IPZ	1832	14.6	
15	+EpPKPdfZ	1142	21.5	#-1814	16	+EPZ	1918	41.6	
15	-IPZ	1445	23.6		17	-EPZ	0121	2.2	
15	-EPZ	1454	44.0		17	+EPZ	0216	17.2	
15	-EPZ	1558	16.0	#-1815	17	-IPZ	0304	0.8	#-1825
15	+EPZ	1819	34.6		17	-EPcPZ	0304	3.6	#-1825
15	+EPZ	2003	6.2		17	-IpPZ	0304	32.0	#-1825
15	-EPZ	2043	26.0	#-1816	17	-EXZ	0322	30.0	#-1826
15	+EXZ	2043	39.0	#-1816	17	-EPZ	0412	28.0	
15	+EPZ	2207	46.0	#-1817	17	+IPZ	0525	54.4	
15	+EpPZ	2208	51.6	#-1817	17	-IPZ	0525	58.0	
16	-EPZ	0015	24.0		17	+IPZ	0526	20.0	
16	+IPZ	0018	59.0	#-1818	17	-EPZ	0541	26.0	#-1827
16	+EPZ	0034	35.0	#-1819	17	-IPcPZ	0541	27.0	#-1827
16	+EPcPZ	0034	40.0	#-1819	17	ESH	0551	11.2	#-1827

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
17	+EPZ	0706	3.4		18	-IPZ	1316	50.0	
17	-EPZ	0837	18.0		18	+EPZ	1622	13.4	
17	+IPZ	0918	34.0	#-1828	18	+EPZ	1622	21.0	
17	+EPcPZ	0918	38.6	#-1828	18	+EPZ	1705	5.6	
17	-EpPZ	0919	6.8	#-1828	18	-EPZ	2014	30.0	#-1833
17	+EPZ	0921	26.8	#-1829	18	-EPZ	2118	18.8	
17	+EPZ	0954	44.0		18	+EPZ	2216	8.0	
17	+EPZ	1007	28.9		18	+EPZ	2344	17.6	
17	+EPZ	1133	4.6		18	+EPZ	2344	25.4	
17	+EPZ	1517	40.5		19	+EPZ	0019	3.4	
17	+EPZ	1725	4.0		19	+EPZ	0021	27.0	
17	+EPZ	1823	24.5	#-1830	19	-IPZ	0414	59.0	#-1834
17	+EPcPZ	1823	50.2	#-1830	19	+IpPZ	0415	2.0	#-1834
17	-EXZ	1854	55.7	#-1831	19	+EPZ	0505	14.5	
17	-IpPZ	1854	57.8	#-1831	19	+EPZ	0957	43.4	
17	-EPZ	1951	29.0		19	-EPZ	0957	45.9	
17	+EPZ	1951	32.0		19	+IPZ	0957	51.0	
17	+EPZ	2014	37.6		19	ESH	1008	13.1	
17	+EPZ	2213	8.5		19	-EPZ	1021	14.4	#-1835
17	+EPZ	2213	14.4		19	-EpPZ	1021	26.2	#-1835
17	+EPZ	2223	31.0		19	-EsPZ	1108	25.0	#-1836
17	-EPZ	2223	35.0		19	+EPZ	1228	8.8	
17	+EPZ	2255	6.4	#-1832	19	-EPZ	1255	45.0	
17	+EPcPZ	2255	11.8	#-1832	19	+EPZ	1333	25.2	
17	-EpPZ	2255	32.0	#-1832	19	+EPZ	1333	33.0	
17	+EPZ	2305	33.0		19	+EPZ	1354	3.7	
17	-EPZ	2305	34.6		19	-EPZ	1605	18.4	
18	-EPZ	0120	4.0		19	-EPZ	1605	30.2	
18	+EPZ	0224	33.5		19	+EPZ	1605	38.0	
18	-EPZ	0248	31.0		19	+EXZ	1646	32.4	#-1837
18	-EPZ	0403	20.6		19	-EPZ	1656	35.8	#-1838
18	+EPZ	0617	13.0		19	+EpPZ	1656	37.4	#-1838
18	-EPZ	0617	14.4		19	+EpPdiffZ	1808	5.4	#-1839
18	+EPZ	0903	14.0		19	-EPZ	1836	24.8	
18	-EPZ	1302	33.0		19	-EPZ	1836	28.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
19	+EPZ	2313	12.6		21	+EPZ	0905	6.2	
19	+EPZ	2313	17.6		21	-EPZ	0937	52.0	
19	+EPZ	2339	9.9		21	-EPZ	1011	7.8	
19	+EPZ	2339	15.8		21	-EPZ	1142	39.0	
19	-EPZ	2355	14.6		21	+EPZ	1252	19.6	
20	-EPZ	0009	3.4		21	+EPZ	1619	15.6	
20	-EPZ	0121	32.8	#-1840	21	+EPZ	1619	16.8	
20	+EpPZ	0121	49.4	#-1840	21	+EPZ	1658	20.0	#-1844
20	+EPZ	0312	12.0		21	+EpPZ	1658	23.0	#-1844
20	-IPZ	0312	14.6		21	+EPZ	1722	28.6	
20	+EPZ	0346	15.5		21	+EPZ	1827	21.1	#-1845
20	-EPZ	1023	17.4		21	-IpPZ	1827	30.0	#-1845
20	+EPZ	0547	11.2		21	+EPZ	2016	29.4	
20	-EPZ	0621	23.9		21	+EPZ	2117	10.0	#-1846
20	-EPZ	1323	6.6		21	+EXZ	2117	15.2	#-1846
20	+EPZ	1353	56.4		21	+IpPZ	2117	33.4	#-1846
20	+EPZ	1411	29.8		21	+EPZ	2302	11.6	
20	-EPZ	1411	41.2		21	+EsPZ	2303	16.5	#-1847
20	+EPZ	1540	54.6	#-1841	21	+EPZ	2343	5.0	
20	-EXZ	1541	0.0	#-1841	21	-EPZ	2343	6.2	
20	-EPZ	1634	9.4	#-1842	22	-EPZ	0155	18.0	#-1848
20	-EpPZ	1634	11.8	#-1842	22	+IPKpZ	0541	38.0	#-1849
20	-IPZ	1635	4.0		22	-IpPKPbcZ	0541	47.4	#-1849
20	-EPZ	1711	15.0		22	+EPZ	0606	49.8	#-1850
20	+EPZ	1836	35.2		22	-EPZ	0614	2.6	
20	-EPZ	1919	6.8		22	-EPZ	1317	49.2	
20	-EPZ	2227	16.6		22	-IXZ	1317	55.2	#-1851
20	-EPZ	2227	19.2		22	ESH	1326	36.6	#-1851
20	+EPZ	2346	32.3		22	-EPZ	1428	33.2	#-1852
21	-EPZ	0111	27.4		22	-EPZ	1810	30.4	
21	+EPZ	0219	5.0		22	-EPZ	1810	32.0	
21	-EPZ	0408	30.2		22	-EPcPZ	1813	10.0	#-1853
21	+EPZ	0625	3.2		22	+EPZ	2141	8.6	#-1854
21	-EXZ	0718	34.6	#-1843	22	+EXZ	2141	14.8	#-1854
21	+EPZ	0905	3.0		22	+EPZ	2214	20.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
22	-EXZ	2256	49.8	#-1855	24	+EPZ	1859	38.0	#-1865
23	-EPZ	0053	14.0	#-1856	24	ESH	1909	22.8	#-1865
23	+EPZ	0110	6.1		24	+EPZ	2043	19.0	
23	-EPZ	0442	18.1		24	-EPZ	2043	25.0	
23	+EXZ	0507	6.0	#-1857	24	-EPZ	2122	40.0	
23	+EXZ	0634	25.8	#-1858	24	+EPZ	2135	36.4	
23	-EPZ	0945	56.4		24	+EPZ	2226	20.2	#-1866
23	-EPZ	1004	55.2		24	-EPZ	2322	8.0	
23	+EPZ	1326	23.8		24	-EPZ	2355	39.0	
23	-EPZ	1415	30.0		25	-EPZ	0509	29.9	
23	+EPZ	1543	12.6		25	-EPZ	0728	4.0	#-1867
23	+EPZ	1605	58.4		25	+EPZ	1149	31.1	
23	-EPZ	1632	27.8	#-1859	25	-EPZ	1239	29.0	#-1868
23	-EXZ	1649	20.0	#-1860	25	+EPZ	1323	47.3	
23	+EPZ	1839	20.6		25	+EPZ	1623	15.0	
23	+EPZ	1926	22.8		25	+EPZ	1917	34.0	
23	-EPZ	2037	29.0		25	+EPZ	1932	11.7	
23	+EXZ	2103	44.8		25	+EPZ	2322	8.6	
23	+EPZ	2120	13.0		26	-EPZ	0003	13.0	
23	+EPZ	2311	34.4		26	+EPZ	0037	7.0	
24	+IPZ	0130	49.6	#-1861	26	-EPZ	0252	45.0	
24	+IsPZ	0131	25.0	#-1861	26	+EPZ	0425	22.0	
24	+EPZ	0142	8.2		26	+EPKpdfZ	0552	29.0	#-1869
24	-EXZ	0149	36.2	#-1862	26	+EPZ	0708	26.4	
24	-EPZ	0216	37.8		26	+EPZ	0722	13.4	
24	+EPZ	0602	20.0		26	+EPdiffZ	0737	12.0	#-1870
24	-EPZ	0602	23.8		26	-EPZ	0810	0.2	#-1871
24	+EPZ	0840	16.0		26	-EPZ	1423	32.0	
24	-EPZ	0840	19.4		26	-EPZ	1824	5.6	
24	-EPZ	1211	59.8		26	+EPZ	1824	7.8	
24	-EPZ	1301	55.2	#-1863	26	-EPZ	2326	51.4	#-1872
24	-EPZ	1405	38.6		26	-EpPZ	2327	5.2	#-1872
24	+EPZ	1502	48.2		26	+EPZ	2351	29.0	
24	-EXZ	1639	35.0	#-1864	26	-EPZ	2351	32.0	
24	-EPZ	1716	42.0		27	-EPZ	0108	18.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
27	+EPZ	0322	10.0		29	+IPZ	0042	12.8	#-1880
27	-EPZ	0417	18.0		29	-IPcPZ	0042	14.8	#-1880
27	+EPZ	0455	20.8		29	-EPZ	0102	51.0	
27	+EPZ	0747	10.8		29	+EPZ	0102	52.6	
27	+EPZ	0846	44.0		29	+EPZ	0421	30.8	
27	+EPZ	0846	50.2		29	+EPZ	0513	10.7	
27	+EPZ	1112	9.9		29	+IPZ	0553	44.0	#-1881
27	-EPZ	1211	17.6	#-1873	29	+EPcPZ	0553	48.9	#-1881
27	-EpPZ	1211	32.0	#-1873	29	+EPZ	0620	32.2	
27	+EPZ	1251	29.6	#-1874	29	+EPZ	0722	31.4	#-1882
27	-EPcPZ	1251	33.2	#-1874	29	+EsPZ	0722	36.0	#-1882
27	+EpPZ	1251	38.9	#-1874	29	-IPZ	0822	46.2	#-1883
27	+EXZ	1501	38.4	#-1875	29	-IPcPZ	0822	54.2	#-1883
27	-EPZ	1547	8.9	#-1876	29	ESH	0832	23.4	#-1883
27	-EPZ	1913	5.4		29	+EPZ	1010	11.4	
27	+EPZ	1913	7.0		29	+EPZ	1049	50.0	
27	+EPZ	2024	15.2		29	+EPZ	1049	56.4	
27	+EPZ	2043	39.6	#-1877	29	+EPZ	1123	34.5	
28	+EPZ	0219	24.0		29	+EPZ	1123	52.6	
28	+EPZ	0219	29.0		29	+EPZ	1735	42.6	
28	+IPZ	0322	55.8		29	+EPZ	1735	44.6	
28	ESH	0327	14.6		29	+EPZ	2323	2.0	
28	+EPZ	0604	13.0		29	-EpPKPdz	2342	32.0	#-1884
28	+EPZ	0604	21.6		29	+EpPKiKPZ	2342	42.2	#-1884
28	-EPZ	0604	24.2		30	+EPZ	0148	27.2	
28	+EPZ	0823	29.2		30	-EPZ	0149	25.8	
28	-IPZ	0908	48.4		30	+EPZ	0351	16.0	
28	ESH	0919	4.4		30	+EPZ	0531	25.0	
28	+EPZ	1303	7.4		30	+EPZ	0610	12.0	
28	+EPZ	1436	13.2		30	+EPZ	0752	48.8	
28	+EPZ	1816	22.0	#-1878	30	+EPZ	0815	10.4	
28	+EXZ	1816	40.0	#-1878	30	+EXZ	0838	19.0	#-1885
28	+EPZ	2251	1.6		30	+EPZ	0914	3.8	
29	-EPZ	0020	23.6	#-1879	30	+EPZ	0914	14.2	
29	+EpPZ	0020	26.4	#-1879	30	+EPZ	1056	23.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
30	+EPZ	1056	26.0		2	-IXZ	0107	24.8	#-1887
30	+EPZ	1120	23.4		2	ESH	0117	45.0	#-1887
30	+EPZ	1406	22.0		2	+EPZ	0311	3.4	
30	+EPZ	1916	35.9		2	+EXZ	0322	50.2	#-1888
Dec.					2	+EPZ	0403	11.5	
1	+EPZ	0019	30.0		2	+EPZ	0617	46.0	
1	+EPZ	0052	30.0		2	+EPZ	0617	55.0	
1	+EPZ	0141	38.4		2	+IPZ	0807	4.2	
1	-EPZ	0305	33.0		2	+EPZ	0813	33.0	
1	+EPZ	0305	36.6		2	-EPZ	0925	23.2	
1	+EPZ	0321	13.0		2	-EPZ	1002	29.0	
1	+EPZ	0524	3.7		2	+EPZ	1124	20.0	
1	-EPZ	0634	20.6		2	+IPZ	1345	31.0	#-1889
1	+EPZ	0710	30.6		2	+EsPZ	1345	35.4	#-1889
1	-EPZ	0809	16.0		2	+EPZ	1426	32.6	
1	-EPZ	0809	29.4		2	+EPZ	1456	35.4	
1	+EPZ	0915	0.8		2	+EPZ	1516	18.0	#-1890
1	+EPZ	1011	39.0		2	+IXZ	1516	33.3	#-1890
1	+EPZ	1124	27.6		2	-EPZ	1516	38.0	#-1890
1	+EPZ	1209	15.4		2	+IPZ	1547	18.2	
1	-EPZ	1228	11.4		2	+EPZ	1547	27.4	
1	+EPZ	1249	40.8		2	-EPZ	1621	0.0	
1	+EPZ	1407	30.0		2	+EPZ	2124	20.6	
1	+EPZ	1907	39.8		3	-EPdiffZ	0001	50.0	#-1891
1	+EXZ	1923	8.0	#-1886	3	+EPZ	0127	11.0	
1	+EPZ	1907	39.8		3	-EPZ	0210	24.2	
1	+EPZ	1945	1.8		3	-EPZ	0317	4.2	#-1892
1	+EPZ	1945	6.0		3	+EXZ	0317	31.6	#-1892
1	-EPZ	2213	36.0		3	+EPZ	0551	9.4	
1	+EPZ	2315	56.3		3	+EPZ	0915	6.6	
1	+EPZ	2341	50.0		3	-EPZ	0937	14.8	
1	-EPZ	2341	51.8		3	+IPZ	0942	57.4	#-1893
2	-EPZ	0028	7.8		3	-EPZ	1000	0.4	
2	-IPZ	0107	2.6	#-1887	3	-EPZ	1000	11.2	
2	-IPZ	0107	5.0	#-1887	3	+EPZ	1221	15.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
3	+EPZ	1416	45.0		5	-EPZ	1804	19.7	
3	+EPZ	1813	21.0		5	+EPZ	2019	19.1	
3	+EPZ	2050	27.6		5	+EPZ	2242	17.6	
3	-EPZ	2223	9.4		5	+EPZ	2320	12.2	
4	-EXZ	0202	44.0	#-1894	5	ESH	2329	51.8	
4	+EpPKPdfZ	0203	4.2	#-1894	5	+EPZ	2353	41.8	#-1900
4	+IXZ	0204	15.0	#-1894	5	+EpPZ	2353	46.2	#-1900
4	ESH	0214	33.2	#-1894	6	-EPZ	0012	11.6	
4	-EPZ	0319	25.0		6	+EPdiffZ	0057	1.8	#-1901
4	+EPZ	0428	14.5		6	+EPcPZ	0128	3.1	#-1902
4	+EPZ	0539	27.9		6	-EpPZ	0128	10.4	#-1902
4	-EPZ	0714	40.0		6	+EPZ	0236	29.8	#-1903
4	ESH	0721	49.0		6	+EpPZ	0236	36.2	#-1903
4	-EPZ	0804	7.0		6	+EPZ	0310	21.8	
4	+EPZ	0919	46.0		6	-EPZ	0311	7.1	
4	+IPZ	0937	2.4	#-1895	6	+EPZ	0424	25.6	
4	+EPcPZ	0937	31.6	#-1895	6	-EPZ	0619	25.0	
4	-EPZ	1007	16.0		6	+EPZ	0619	42.0	
4	+EPZ	1307	35.6		6	+EPZ	0624	34.1	#-1904
4	+EPZ	1418	21.0		6	-EPZ	0846	38.7	
4	+EPZ	2009	7.2		6	+EPZ	0923	29.6	
4	-EPZ	2009	10.0		6	+EPZ	1017	35.4	
4	+EPZ	2323	50.0	#-1896	6	+EPZ	1310	44.0	
4	+EPcPZ	2324	2.8	#-1896	6	+EPZ	1400	37.0	
4	+EPZ	2341	5.2		6	-IPZ	1400	40.4	
4	+EPZ	2341	9.7		6	+EPZ	1552	3.2	#-1905
5	+EPZ	0317	6.8		6	-EpPZ	1552	5.6	#-1905
5	+EPZ	0644	29.6	#-1897	6	+EPZ	1615	4.4	
5	+EXZ	0644	36.7	#-1897	6	+EPZ	1615	11.8	
5	+EPZ	0847	18.6		6	+EPZ	1656	8.8	
5	+EPZ	1135	14.2	#-1898	6	+EPZ	1656	15.2	
5	+EPZ	1148	2.0		6	+EPZ	1658	36.4	#-1906
5	-EPZ	1636	37.0	#-1899	6	-EpPZ	1658	57.4	#-1906
5	+EPZ	1712	21.0		6	+EXZ	1659	13.6	#-1906
5	+EPZ	1712	26.0		6	+EPZ	1736	32.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
6	-EPZ	1814	57.0		7	-EPZ	1750	3.4	
6	+EPZ	1910	51.2	#-1907	7	-EPZ	1829	48.9	
6	-EPcPZ	1910	56.0	#-1907	7	-IPZ	1829	50.0	
6	-EPZ	2010	35.5		7	ESH	1838	33.4	
6	-EPZ	2053	50.4	#-1908	7	-EPZ	1919	57.4	
6	-EPcPZ	2054	0.0	#-1908	7	-EPZ	1920	2.2	
6	+EPZ	2138	38.0	#-1909	7	+EPZ	2003	1.6	
6	-EpPZ	2138	41.2	#-1909	7	+EPZ	2113	48.4	
7	-IPZ	0140	21.0	#-1910	7	+EPZ	2152	37.4	
7	-IpPZ	0140	23.6	#-1910	7	+EPZ	2210	29.2	
7	-EPZ	0200	19.0		7	+EPZ	2210	33.6	
7	+EPZ	0200	28.0		7	-EPZ	2319	5.4	
7	-EPZ	0200	19.0		7	+EPZ	2319	12.0	
7	+EPZ	0200	28.0		8	+EPZ	0101	50.0	
7	+EPZ	0205	47.0		8	-EPZ	0324	2.7	
7	-EPZ	0317	14.7		8	+EPZ	0425	15.0	
7	+EPZ	0637	45.4		8	-EPZ	0513	55.0	
7	-EPZ	0837	9.2		8	+EPZ	0514	2.0	
7	+EPZ	0837	23.2		8	+EPZ	0603	28.0	
7	-IPZ	0851	5.4		8	+IPZ	0629	45.0	#-1913
7	+EPZ	0903	28.2		8	-IPcPZ	0629	47.6	#-1913
7	+EPZ	1015	37.0		8	+EPZ	0824	47.8	#-1914
7	+EPZ	1016	5.0		8	+EPZ	0851	33.0	
7	+EpPKPdfZ	1224	43.6		8	+EPZ	1040	19.0	#-1915
7	-EPZ	1226	9.6		8	-EPcPZ	1040	22.8	#-1915
7	+EpPdiffZ	1314	12.4	#-1911	8	-EPZ	1052	20.4	
7	+EPZ	1339	6.7		8	+EPZ	1238	20.3	
7	-EPZ	1339	13.4		8	-EPZ	1238	22.1	
7	+EPZ	1415	3.5		8	+EPZ	1438	8.8	
7	-EPZ	1523	51.6		8	+EPZ	1438	9.9	
7	+EPZ	1523	54.2		8	+IPZ	1648	7.2	#-1916
7	+EPZ	1541	5.0		8	+IPcPZ	1648	9.0	#-1916
7	-EPKiKPZ	1621	2.7	#-1912	8	+IpPZ	1648	11.6	#-1916
7	+EPPZ	1623	17.9	#-1912	8	ESH	1658	52.0	#-1916
7	+EPZ	1738	32.8		8	-EPZ	1913	1.4	#-1917

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
8	+EPZ	2012	52.6		10	ESH	1715	33.4	#-1926
8	+EPZ	2335	14.8		10	-EPZ	1948	30.6	
9	-EPKpdfZ	0253	23.2	#-1918	10	+EPZ	2041	12.2	
9	-EXZ	0303	49.6	#-1919	10	-EPZ	2041	14.0	
9	+EPZ	0721	20.2		10	-EPZ	2100	2.0	#-1927
9	+EPZ	1243	53.8	#-1920	10	+EPZ	2221	44.6	
9	-IPZ	1243	54.5	#-1920	10	+EPZ	2221	49.5	
9	-IsPZ	1243	58.3	#-1920	10	+EPZ	2221	53.6	
9	+EPZ	1244	3.6	#-1920	11	-EPZ	0059	48.2	
9	+EPZ	1436	31.8		11	-EPZ	0100	1.2	
9	+EPZ	1715	42.0		11	+EPZ	0211	25.0	
9	+EPZ	1715	45.0		11	+EPZ	0417	32.3	
9	-EPZ	1715	50.4		11	+EPcPZ	0549	39.8	#-1928
9	+EPcPZ	1843	8.9	#-1921	11	-EPZ	0608	37.2	
9	-EpPZ	1843	19.9	#-1921	11	-IPZ	0630	20.4	
9	-EPZ	2105	29.8	#-1922	11	-IPZ	0630	25.0	
9	-IPcPZ	2105	31.4	#-1922	11	-EPZ	0638	37.0	
9	-IPZ	2158	49.6	#-1923	11	+EPZ	0728	22.4	
9	-IPcPZ	2158	51.4	#-1923	11	+EPZ	0804	1.0	
9	+EPZ	2325	21.8	#-1924	11	+EPZ	0851	5.6	
10	-EPZ	0010	7.0		11	-EPZ	1209	55.4	
10	-EPZ	0122	22.6		11	+EPZ	1210	5.0	
10	+EPZ	0515	19.4		11	-IPZ	1230	51.8	#-1929
10	-EPZ	0719	20.4		11	+EPcPZ	1230	55.0	#-1929
10	+EPZ	0822	18.6		11	-EPZ	1311	5.0	
10	-EPZ	0822	37.6		11	+EPZ	1514	9.8	
10	-IPZ	1021	35.0		11	+EPZ	1639	29.4	#-1930
10	+EPZ	1311	17.6		11	+EPZ	1747	38.0	
10	+IPZ	1536	23.0		11	-EPZ	1917	7.0	
10	+EPZ	1614	16.0		11	-EPZ	2112	8.2	
10	-IPZ	1614	18.6		11	+EPZ	2328	53.4	#-1931
10	+IPcPZ	1639	59.0	#-1925	12	+EPZ	0105	24.0	
10	+EpPZ	1640	2.8	#-1925	12	-EPZ	0419	2.7	
10	+IsPZ	1640	9.0	#-1925	12	+EPZ	0419	10.6	
10	+IPZ	1705	21.9	#-1926	12	-EPZ	1012	50.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
12	+EPZ	1113	44.4		14	+EPZ	1036	29.0	
12	+EPZ	1208	49.0		14	+EPZ	1036	34.8	
12	+EPZ	1305	34.5		14	+EPZ	1216	10.0	
12	+EPZ	1524	2.6		14	+EPZ	1222	35.0	
12	+EPZ	1617	50.8		14	+EPZ	1328	20.4	
12	+EPZ	1829	46.4		14	+EPZ	1627	55.3	#-1936
12	+EPZ	2117	18.2		14	+EPcPZ	1628	12.0	#-1936
12	-EPZ	2323	33.7		14	-EPZ	1647	12.6	
12	-EPZ	2323	50.4		14	+EPZ	1706	1.4	
13	-EPZ	0045	37.8		14	-EPZ	1706	7.2	
13	-IPZ	0105	14.2	#-1932	14	-EPZ	1716	9.2	
13	+IPcPZ	0105	25.8		14	+EPZ	1814	33.6	
13	+EPZ	0325	29.6		14	+EPZ	1814	35.6	
13	-EPZ	0441	42.3		14	+EPZ	1919	8.2	
13	-EPZ	0553	20.8		14	+EPZ	1919	10.0	
13	+EPZ	0648	16.7		14	+EPZ	2101	19.0	
13	+EPZ	1543	10.4		14	+EPZ	2101	26.7	
13	+EPZ	1604	15.4		14	+EPZ	2346	0.6	
13	-IPZ	1947	49.6		14	+EPZ	2346	24.6	
13	-EPZ	2148	42.4		14	-EPZ	2249	41.6	#-1937
13	+IPZ	2300	44.0		14	+EPcPZ	2249	44.4	#-1937
13	+IPZ	2322	59.0		14	+EpPZ	2250	15.0	#-1937
13	+IPZ	2322	11.4		15	+EPZ	0115	25.4	#-1938
14	-EPZ	0019	9.0		15	+EPcPZ	0115	32.4	#-1938
14	+EPZ	0248	3.2	#-1933	15	+EPZ	0215	15.6	
14	+EpPZ	0248	17.0	#-1933	15	-EPZ	0215	18.0	
14	+EPZ	0419	52.2		15	+EPZ	0509	20.8	
14	+EPZ	0422	51.5		15	-EPZ	0509	35.1	
14	+EXZ	0513	56.4	#-1934	15	+EPZ	0606	2.6	
14	-EPZ	0522	4.8		15	+EPZ	0707	39.6	
14	+EPZ	0627	10.4		15	+EPZ	0707	41.8	
14	+EPZ	0627	21.4		15	-EPZ	0746	24.4	#-1939
14	+EPZ	0702	31.4		15	+EPZ	0821	27.4	
14	+EPcPZ	1008	24.0	#-1935	15	+EPZ	0838	33.4	
14	+EXZ	1008	30.0	#-1935	15	-EPZ	0903	36.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
15	+EPZ	1225	1.2		17	-EPZ	0209	41.2	
15	+EPZ	1235	2.0		17	+EPZ	0521	31.2	
15	+EPZ	1546	24.6		17	-EPZ	0929	12.3	
15	+EPZ	1854	15.0		17	+IPZ	0929	18.0	
15	+EPcPZ	1928	52.4	#-1940	17	ESH	0939	50.0	
15	-EPZ	1943	12.0	#-1941	17	-IPcPZ	1140	34.0	#-1946
15	-EpPZ	1943	29.8	#-1941	17	-EpPZ	1140	36.2	#-1946
16	-EPZ	0119	41.2		17	-EPZ	1207	6.0	
16	+EPZ	0204	34.2		17	+EPZ	1211	48.5	
16	-EPZ	0323	46.8		17	+EPZ	1800	33.4	
16	+EPZ	0450	20.4		17	-EPZ	2058	15.2	
16	+EPZ	0603	35.2	#-1942	17	+EPZ	2247	56.8	
16	-EpPZ	0603	48.2	#-1942	18	+EPZ	0315	29.6	
16	-EPZ	0617	9.2	#-1943	18	-EPZ	0315	31.8	
16	-EPZ	0848	25.0		18	+EPZ	0444	25.6	
16	+EPZ	0848	29.4		18	+EPZ	0718	15.6	
16	+EPZ	0927	4.0		18	-EPZ	0740	0.8	
16	-EPZ	1015	44.4		18	+EPZ	1039	21.4	
16	+EPcPZ	1158	9.6	#-1944	18	+EPZ	1109	25.6	
16	ESH	1207	27.8	#-1944	18	+EPZ	1627	8.4	
16	-EPZ	1223	29.0		18	+IPZ	1708	21.8	
16	-EPZ	1244	37.8		18	+EPZ	1738	46.0	
16	+EPZ	1404	1.2		18	+EPZ	1907	57.0	
16	+EPZ	1531	23.0		18	+EPZ	2319	36.0	
16	-EpPdiffZ	1606	31.8	#-1945	19	NIL			
16	+EPZ	1619	1.8		20	-EPZ	0009	29.8	
16	+EPZ	1810	44.7		20	+EPZ	0109	4.2	
16	+EPZ	2010	33.2		20	+EPZ	0206	30.0	
16	+EPZ	2102	15.0		20	+EPZ	0223	27.0	#-1947
16	+EPZ	2102	29.6		20	+EPZ	0313	43.0	
17	+IPZ	0048	23.2		20	-IPZ	0441	36.8	
17	-EPZ	0048	26.0		20	+EPZ	0618	19.4	
17	+EPZ	0059	32.4		20	+EPZ	0919	54.4	
17	-EPZ	0059	36.6		20	+EPZ	1144	42.0	
17	+EPZ	0209	35.4		20	-EPcPZ	1350	18.3	#-1948

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
20	+EPZ	1510	57.2	#-1949	22	+EPdiffZ	1655	12.4	#-1957
20	-EPZ	1549	23.4		22	+EpPdiffZ	1655	45.4	#-1957
20	+EPZ	1745	15.0		22	+EPZ	1713	22.0	
20	+EPZ	1858	34.1		22	+EPZ	1822	30.0	
20	+EPZ	1951	26.0		22	+EPZ	2214	9.0	
20	-IPZ	2200	22.8	#-1950	22	+EPZ	2245	42.6	#-1958
20	-IPcPZ	2200	28.1	#-1950	22	+EPZ	2246	20.4	
20	-EPZ	2342	13.0		23	+EPZ	0022	17.2	
20	+EPZ	2342	20.0		23	-IPZ	0042	30.4	#-1959
21	-IPZ	0158	1.0	#-1951	23	+EPcPZ	0042	32.4	#-1959
21	-IPcPZ	0158	3.0	#-1951	23	-EPZ	0200	57.0	
21	+EpPZ	0158	8.0	#-1951	23	+EPZ	0524	18.7	
21	+EPZ	0639	36.0		23	+EPZ	0524	29.3	
21	+EPdiffZ	0823	12.8	#-1952	23	+EPZ	0653	43.8	
21	+EPZ	0917	48.6		23	+EPZ	0658	1.8	
21	+EPZ	0940	45.2		23	-EPZ	0706	26.0	
21	+EPZ	1218	9.6		23	-EPZ	0707	41.6	
21	+IPZ	2240	40.0	#-1953	23	+IPZ	0957	44.1	
21	-IPcPZ	2240	41.3	#-1953	23	+EPZ	1104	14.6	
21	ESH	2251	12.0	#-1953	23	+EPZ	1129	40.0	
22	+EPZ	0223	17.4		23	-EPZ	1242	16.8	
22	-EPZ	0302	19.0		23	+EPZ	1305	17.2	
22	+EPZ	0302	25.0		23	+IPZ	1305	32.6	#-1960
22	-EPZ	0402	25.4	#-1954	23	+EpPZ	1305	45.0	#-1960
22	+EPZ	0501	54.6		23	+EXZ	1350	44.4	#-1961
22	-IPZ	0501	56.5		23	+EPZ	1416	21.5	
22	+EPZ	0522	0.0		23	-EPZ	1728	23.0	
22	+EPZ	0616	15.2		23	+EPZ	1728	42.0	#-1962
22	-EPZ	0717	45.0		23	+EPZ	2232	6.1	#-1963
22	+EPZ	0726	14.2		23	-EsPZ	2232	13.0	#-1963
22	+EPZ	0805	15.0	#-1955	23	-EPZ	2243	13.0	
22	+EPZ	1313	23.0		24	+EPZ	0015	15.6	
22	+EPZ	1328	7.0		24	+EPZ	0254	16.9	
22	+EPZ	1407	15.8		24	+EPZ	0320	31.9	
22	+EXZ	1615	58.0	#-1956	24	+EPZ	0320	49.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
24	+EpPZ	0519	22.2	#-1964	25	+EPZ	0747	31.7	#-1971
24	+EPZ	0543	34.2	#-1965	25	-EPZ	0815	36.0	
24	+EPZ	0620	28.0		25	-EPZ	0857	59.9	#-1972
24	+EPZ	0620	34.0		25	+IpPZ	0858	7.0	#-1972
24	+EPZ	0642	20.6		25	+IsPZ	0858	13.6	#-1972
24	+EPZ	0813	45.1		25	+EPZ	0917	28.1	
24	+EPKPdfZ	0813	55.6	#-1966	25	+EPZ	0945	19.8	
24	+EpPKPdfZ	0814	0.2	#-1966	25	+EPZ	0945	30.0	
24	+EpPKPbcZ	0814	5.6	#-1966	25	+EPZ	1007	39.0	
24	+EPZ	0852	17.0		25	+EPZ	1007	42.0	
24	+EPZ	0927	15.4		25	+EPZ	1208	10.0	
24	+EPZ	1215	0.0		25	+EPZ	1415	33.6	
24	+EPZ	1215	11.4		25	+EPZ	1618	11.0	
24	-EPZ	1223	45.8	#-1967	25	-EPKPdfZ	1726	26.0	#-1973
24	-EpPZ	1223	55.0	#-1967	25	+EPdiffZ	1750	10.4	#-1974
24	+EPZ	1301	12.4		25	+EpPdiffZ	1750	13.6	#-1974
24	+EPZ	1415	22.2		25	+EPZ	1959	49.3	
24	+EPZ	1415	30.0		25	+EPZ	2016	1.6	
24	-EPZ	1415	39.2		25	+EPZ	2037	43.0	#-1975
24	+EPZ	1446	16.0	#-1968	25	+EPZ	2234	32.0	
24	-EsPZ	1446	20.1	#-1968	25	+EPZ	2321	2.0	
24	+EPZ	1521	20.0		25	+EPZ	2321	4.1	
24	+EPZ	1713	28.0		26	-EPZ	0005	30.8	
24	+IPZ	1847	17.0		26	-EPZ	0005	33.2	
24	+EPZ	1851	20.0		26	-EPZ	0128	25.0	
24	+EPZ	2014	10.4		26	+EPZ	0237	24.8	#-1976
24	+EPZ	2233	23.6		26	-EpPZ	0237	50.0	#-1976
24	+EPZ	2333	4.8	#-1969	26	+IPZ	0310	3.2	#-1977
24	+IpPZ	2333	6.4	#-1969	26	-IPcPZ	0310	5.0	#-1977
25	-EPZ	0111	21.6		26	ESH	0319	48.6	#-1977
25	+EPZ	0111	23.2		26	+EPZ	0348	11.6	
25	+EpPZ	0117	14.2	#-1970	26	+EPZ	0529	0.4	#-1978
25	+EPZ	0400	26.6		26	-EPcPZ	0529	2.8	#-1978
25	-EPZ	0439	13.8		26	-EPZ	0722	5.4	
25	-EPZ	0615	30.0		26	+EPZ	0825	43.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
26	+EPZ	0958	20.6	#-1979	27	+EPZ	1644	47.6	#-1991
26	+EPZ	1328	18.1	#-1980	27	+EsPZ	1644	51.2	#-1991
26	-EXZ	1328	25.9	#-1980	27	+EPZ	2316	14.0	
26	-EPZ	1510	24.0		28	+EPZ	0105	37.6	
26	+EPZ	1520	25.7		28	-EPZ	0523	22.4	
26	+EPZ	1920	6.2	#-1981	28	-EPZ	0534	3.6	#-1992
26	-EPcPZ	1920	12.0	#-1981	28	+EsPZ	0534	13.0	#-1992
26	-EPZ	2003	9.2		28	+EPZ	0713	32.0	
26	-EPZ	2024	37.8		28	+EPZ	0900	51.2	#-1993
26	+EPZ	2035	22.5	#-1982	28	-EXZ	0901	20.0	#-1993
26	+EPZ	2108	50.8		28	+EPPZ	0903	17.8	#-1993
26	+EpPZ	2311	29.8	#-1983	28	+EPZ	0950	51.0	
26	-IsPZ	2311	31.2	#-1983	28	-IPZ	0950	55.0	#-1994
27	+IPZ	0047	44.2	#-1984	28	+EPZ	1025	28.4	#-1995
27	+EPZ	0127	53.0		28	+EPcPZ	1025	35.0	#-1995
27	+EPZ	0128	41.6	#-1985	28	-EPZ	1047	45.0	#-1996
27	+EsPZ	0128	48.3	#-1985	28	+IpPZ	1047	47.2	#-1996
27	+EPZ	0310	21.2		28	-EXZ	1119	7.0	#-1997
27	-EsPZ	0313	44.0	#-1986	28	+EPZ	1147	56.0	
27	+EPZ	0415	32.4		28	-EPZ	1224	8.0	
27	-EPZ	0510	14.0		28	-EPKpdFZ	1402	19.0	#-1998
27	+EPZ	0612	28.8		28	-EPZ	1401	40.0	#-1999
27	-EXZ	0709	26.0	#-1987	28	+EpPZ	1401	49.8	#-1999
27	-EPKiKPZ	0714	44.4	#-1987	28	+EPZ	1437	14.4	
27	+EPZ	0821	10.2		28	-EPZ	1438	20.6	
27	+EPZ	0821	29.6		28	+EPZ	1438	31.2	#-2000
27	-IPZ	0954	55.0	#-1988	28	+EPZ	1515	33.2	
27	-IPcPZ	0954	57.0	#-1988	28	-EPZ	1515	44.8	
27	+EPZ	1001	54.6	#-1989	28	+EPZ	1521	27.6	
27	+EPZ	1148	40.2	#-1990	28	+IPZ	1744	52.2	
27	-IPZ	1208	44.2		28	-IPZ	1744	55.6	
27	+EPZ	1353	14.7		29	+IPZ	0210	20.0	#-2001
27	+EPZ	1353	18.6		29	-IpPZ	0210	45.4	#-2001
27	+EPZ	1515	44.6		29	+IPZ	1005	11.0	
27	-EPZ	1515	46.2		29	+IPZ	1054	19.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks	Date	Phase	Time H M	S	Remarks
29	-EPZ	2113	14.4		31	+EPZ	2112	8.4	
29	+EPZ	2218	20.8		31	+EPZ	2315	38.0	
29	+EPZ	2321	47.4		31	+EPZ	2315	40.8	
29	+EPZ	2321	50.0						
30	-EXZ	0650	55.4	#-2002	(end)				
30	+EXZ	0651	8.1	#-2002					
30	-EPZ	0808	28.0	#-2003					
30	-EXZ	0808	52.2	#-2003					
30	-EPZ	1146	36.4						
30	-EPcPZ	1146	38.5	#-2004					
30	-EpPZ	1146	53.8	#-2004					
30	+EPZ	1246	29.0						
30	+EPZ	1337	35.0						
30	-EPZ	1337	37.8						
30	-EXZ	1710	50.0	#-2005					
30	+IPZ	1710	55.6	#-2005					
30	-EPZ	1754	12.7						
30	-EXZ	1938	0.4	#-2006					
30	+EPZ	2101	47.0	#-2007					
30	+IPZ	2206	50.0						
30	-EPZ	2206	58.0						
30	-EPZ	2349	6.0						
31	+EPZ	0035	47.2						
31	-IPZ	0035	53.0						
31	+EPZ	0110	40.2						
31	+EPdiffZ	0130	10.4	#-2008					
31	+EXZ	0133	54.6	#-2008					
31	+EPZ	0342	30.0						
31	-EPZ	0342	32.0						
31	-EPZ	0901	33.6	#-2009					
31	+EsPZ	0901	40.0	#-2009					
31	-EPcPZ	1427	40.2	#-2010					
31	-EPZ	2009	51.6	#-2011					
31	-EpPZ	2009	55.4	#-2011					
31	-EPZ	2028	10.2						

Table 2. List of hypocenters of teleseismic events detected at Syowa Station.
The total number of events is 2011.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1	1/1	0	50	8.0	-11.372	166.224	67	5.3	-	91.62	SANTA CRUZ ISLANDS
#-2	1/1	4	56	41.1	-58.260	-149.196	10	5.0	-	52.59	PACIFIC-ANTARCTIC RIDGE
#-3	1/1	5	19	39.0	10.729	92.037	25	4.6	-	87.83	ANDAMAN ISL, INDIA REGION
#-4	1/1	5	27	55.7	31.443	138.111	361	6.2	-	122.37	IZU ISLANDS, JAPAN REGION
#-5	1/1	11	59	0.7	-33.726	-178.358	10	4.9	-	73.65	SOUTH OF KERMADEC ISLANDS
#-6	1/1	12	27	57.2	-43.470	172.852	13	5.1	-	62.47	SOUTH ISLAND OF NEW ZEALAND
#-7	1/1	16	45	4.3	-43.428	172.891	11	5.2	-	62.52	SOUTH ISLAND OF NEW ZEALAND
#-8	1/1	18	9	6.4	4.548	96.425	35	5.3	-	83.21	NORTHERN SUMATRA, INDONESIA
#-9	1/1	21	7	28.7	2.123	128.343	87	5.0	-	91.74	HALMAHERA, INDONESIA
#-10	1/1	22	59	13.3	-14.353	166.887	32	5.1	-	88.95	VANUATU
#-11	1/2	5	59	14.5	-43.453	172.897	13	4.5	-	62.49	SOUTH ISLAND OF NEW ZEALAND
#-12	1/2	13	7	8.0	-3.406	150.723	10	4.7	-	94.41	NEW IRELAND REG, P.N.G.
#-13	1/4	4	41	6.3	-11.202	119.057	27	4.8	-	75.99	SOUTH OF SUMBA, INDONESIA
#-14	1/4	4	47	35.0	-14.781	167.450	233	5.2	-	88.69	VANUATU
#-15	1/4	15	35	51.1	-7.361	128.748	150	5.2	-	83.04	KEPULAUAN BARAT DAYA, IND.
#-16	1/4	18	57	0.9	-10.606	166.405	102	5.2	-	92.41	SANTA CRUZ ISLANDS
#-17	1/4	19	53	36.5	-10.375	166.241	43	5.1	-	92.58	SANTA CRUZ ISLANDS
#-18	1/5	0	54	30.0	-45.797	-76.278	8	5.3	-	55.76	OFF CST AISEN, CHILE
#-19	1/5	1	13	40.0	-17.736	-173.465	30	5.3	-	90.20	TONGA
#-20	1/5	16	47	5.0	38.760	142.321	21	5.1	-	130.45	NEAR E COAST HONSHU, JAPAN
#-21	1/5	16	53	39.7	27.894	52.080	33	5.0	-	97.38	SOUTHERN IRAN
#-22	1/5	21	55	21.5	-56.148	-143.945	10	5.3	-	54.82	PACIFIC-ANTARCTIC RIDGE
#-23	1/6	0	38	48.4	-14.076	-14.299	10	5.1	-	64.23	SOUTHERN MID-ATLANTIC RIDGE
#-24	1/6	1	20	59.1	-43.486	172.804	7	4.5	-	62.44	SOUTH ISLAND OF NEW ZEALAND
#-25	1/6	4	10	54.6	-37.518	-179.813	33	4.8	-	69.68	E N ISL, NEW ZEALAND
#-26	1/6	4	31	14.3	-4.529	153.386	80	4.8	-	94.22	NEW IRELAND REG, P.N.G.
#-27	1/6	7	4	16.5	-43.508	172.825	11	4.3	-	62.43	S ISL NEW ZEALAND
#-28	1/6	8	8	40.6	-37.955	-75.058	29	5.0	-	62.67	OFF THE COAST OF BIO-BIO, CHILE
#-29	1/6	12	21	35.5	-43.547	172.982	10	4.5	-	62.42	SOUTH ISLAND OF NEW ZEALAND
#-30	1/7	3	21	27.7	-3.765	138.052	108	5.0	-	89.71	PAPUA, INDONESIA
#-31	1/7	4	30	32.4	-4.344	152.536	121	5.0	-	94.12	NEW BRITAIN REG, P.N.G.
#-32	1/7	4	44	56.1	-10.790	165.997	47	4.8	-	92.12	SANTA CRUZ ISLANDS
#-33	1/7	7	6	47.0	-10.728	165.713	73	4.9	-	92.10	SANTA CRUZ ISLANDS
#-34	1/7	7	31	44.1	1.702	127.442	127	5.5	-	91.03	HALMAHERA, INDONESIA
#-35	1/7	10	15	49.4	-18.478	-174.703	120	4.8	-	89.24	TONGA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-36	1/7	18	1	0.4	19.275	121.154	35	5.0	-	105.19	BABUYAN ISL REG, PHILIPPINES
#-37	1/7	18	22	19.7	-63.630	-166.691	14	5.1	-	46.12	PACIFIC-ANTARCTIC RIDGE
#-38	1/7	18	38	13.8	-28.494	-176.903	48	5.7	-	79.02	KERMADEC ISLANDS REGION
#-39	1/7	22	13	3.6	-21.779	178.014	567	5.1	-	84.53	SOUTH OF THE FIJI ISLANDS
#-40	1/8	0	35	52.2	-17.896	-178.531	551	5.2	-	89.05	FIJI REGION
#-41	1/8	6	20	6.5	42.212	87.481	16	5.0	-	116.83	NORTHERN XINJIANG, CHINA
#-42	1/8	17	5	47.3	-2.730	99.761	26	4.8	-	77.33	KEPULAUAN MENTAWAI REG, IND.
#-43	1/8	21	51	50.0	-17.470	167.934	40	5.3	-	86.24	VANUATU
#-44	1/8	23	40	58.1	-23.331	-179.907	525	5.0	-	83.46	SOUTH OF THE FIJI ISLANDS
#-45	1/9	2	38	7.0	-29.527	-176.119	35	5.0	-	78.16	KERMADEC ISLANDS REGION
#-46	1/9	19	53	37.1	27.135	55.603	15	5.2	-	96.91	SOUTHERN IRAN
#-47	1/9	20	13	10.0	-0.736	133.172	33	5.1	-	90.80	NR N CST PAPUA, IND.
#-48	1/9	21	30	51.0	-32.573	-71.594	21	5.2	-	66.65	OFFSHORE VALPARAISO, CHILE
#-49	1/10	1	45	39.9	-17.022	171.487	16	5.2	-	87.59	VANUATU REGION
#-50	1/10	4	6	16.7	-22.246	-67.393	175	4.9	-	74.94	POTOSI, BOLIVIA
#-51	1/10	13	8	38.9	-17.404	-172.794	10	5.2	-	90.64	TONGA REGION
#-52	1/10	18	7	13.6	-0.725	-80.216	55	5.0	-	99.39	NEAR THE COAST OF ECUADOR
#-53	1/10	18	36	59.4	2.454	93.208	21	6.6	7.0	80.25	OFF THE WEST COAST OF NORTHERN SUMATRA
#-54	1/10	19	58	15.5	2.461	92.903	30	4.7	-	80.17	OFF WEST COAST OF N SUMATRA
#-55	1/10	21	0	54.8	2.414	93.359	35	4.9	-	80.25	OFF WEST COAST OF N SUMATRA
#-56	1/11	0	20	22.8	-8.163	125.631	59	4.8	-	81.17	EAST TIMOR REGION
#-57	1/11	3	29	38.8	-17.156	168.800	219	4.9	-	86.77	VANUATU
#-58	1/11	14	28	29.3	-21.116	-174.095	28	4.8	-	86.77	TONGA
#-59	1/12	0	57	17.8	-5.029	151.712	42	4.5	-	93.20	NEW BRITAIN REG, P.N.G.
#-60	1/12	2	20	23.9	-53.319	23.402	10	4.9	-	17.28	SOUTH OF AFRICA
#-61	1/12	2	24	59.2	-53.241	23.628	10	4.8	-	17.31	SOUTH OF AFRICA
#-62	1/12	2	52	37.9	-53.279	23.494	10	4.9	-	17.30	SOUTH OF AFRICA
#-63	1/12	5	37	28.8	38.336	142.453	36	5.2	-	130.12	NEAR E COAST HONSHU, JAPAN
#-64	1/12	7	8	13.3	-18.061	-173.107	35	5.2	-	89.94	TONGA
#-65	1/12	14	11	8.1	-52.100	28.128	10	5.5	-	17.67	SOUTH OF AFRICA
#-66	1/12	17	12	9.2	-17.974	-172.346	39	5.0	-	90.16	TONGA REGION
#-67	1/12	22	8	11.3	-52.056	28.168	10	5.3	-	17.71	SOUTH OF AFRICA
#-68	1/12	22	31	2.2	-16.516	-173.236	99	5.3	-	91.44	TONGA
#-69	1/13	4	34	10.4	2.347	93.019	8	4.9	-	80.09	OFF WEST COAST OF N SUMATRA
#-70	1/13	5	13	22.8	-14.386	-75.347	17	4.8	-	84.90	NEAR THE COAST OF CENTRAL PERU
#-71	1/13	15	54	48.6	-60.560	-27.276	67	5.1	-	27.88	SOUTH SANDWICH ISL REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-72	1/13	16	2	28.5	-60.591	-27.072	54	5.3	-	27.79	SOUTH SANDWICH ISL REGION
#-73	1/13	17	49	12.9	-32.589	-178.508	25	5.1	-	74.72	SOUTH OF KERMADEC ISLANDS
#-74	1/13	20	3	47.2	2.376	96.280	43	5.2	-	81.09	SIMEULUE, INDONESIA
#-75	1/14	0	46	45.5	-18.458	-171.819	10	5.3	-	89.78	TONGA REGION
#-76	1/14	11	34	56.6	-60.750	-26.121	10	5.0	-	27.35	SOUTH SANDWICH ISL REGION
#-77	1/14	18	38	29.6	-18.022	-172.286	47	4.8	-	90.13	TONGA REGION
#-78	1/15	9	24	49.5	-60.736	-23.408	7	4.9	-	26.42	SOUTH SANDWICH ISL REGION
#-79	1/15	13	40	17.9	-60.766	-55.855	8	6.4	6.4	36.88	SOUTH SHETLAND ISLANDS
#-80	1/15	14	21	31.1	-60.861	-55.943	10	6.2	5.8	36.83	SOUTH SHETLAND ISLANDS
#-81	1/15	18	41	10.8	-61.213	-53.528	16	5.1	-	35.84	SOUTH SHETLAND ISLANDS
#-82	1/15	19	6	47.0	-15.532	-13.283	16	5.1	-	62.54	SOUTHERN MID-ATLANTIC RIDGE
#-83	1/16	3	59	44.6	-60.705	-56.030	10	5.6	5.4	36.98	SOUTH SHETLAND ISLANDS
#-84	1/16	8	26	16.4	-0.025	123.127	156	5.2	-	87.87	SULAWESI, INDONESIA
#-85	1/16	10	26	46.2	-0.249	125.460	55	5.3	-	88.50	MOLUCCA SEA
#-86	1/16	12	50	14.7	-56.707	-24.883	16	5.1	-	29.90	SOUTH SANDWICH ISLANDS REGION
#-87	1/16	15	6	2.3	-56.685	-24.912	8	5.1	-	29.92	SOUTH SANDWICH ISL REGION
#-88	1/16	17	53	12.8	-2.239	-12.612	10	5.1	-	75.01	NORTH OF ASCENSION ISLAND
#-89	1/16	18	39	54.2	-19.292	-172.897	29	4.9	-	88.77	TONGA REGION
#-90	1/17	9	23	18.8	-4.479	133.290	10	4.9	-	87.35	NR S CST PAPUA, IND.
#-91	1/17	10	0	20.8	6.627	126.108	94	5.0	-	95.15	MINDANAO, PHILIPPINES
#-92	1/17	11	53	22.6	-8.703	-74.271	145	4.5	-	89.92	CENTRAL PERU
#-93	1/17	23	21	34.5	-31.649	-71.506	29	5.6	-	67.48	COQUIMBO, CHILE
#-94	1/18	1	19	36.4	-0.920	126.853	40	5.2	-	88.37	MOLUCCA SEA
#-95	1/18	11	35	50.6	-31.730	-68.076	10	5.0	-	66.33	SAN JUAN, ARGENTINA
#-96	1/18	12	50	20.9	-0.868	126.824	22	5.6	5.0	88.41	MOLUCCA SEA
#-97	1/18	13	44	22.2	-0.904	126.789	37	4.9	-	88.36	MOLUCCA SEA
#-98	1/18	14	18	2.4	-1.001	126.771	24	4.8	-	88.26	KEPULAUAN SULA, INDONESIA
#-99	1/18	16	9	12.7	-0.921	126.819	42	5.1	-	88.36	MOLUCCA SEA
#-100	1/18	17	1	25.5	-11.084	165.363	30	5.2	-	91.66	SANTA CRUZ ISLANDS
#-101	1/18	17	2	56.7	-11.170	165.356	34	5.3	-	91.57	SANTA CRUZ ISL.
#-102	1/18	17	26	2.9	-11.030	165.475	32	5.2	-	91.74	SANTA CRUZ ISLANDS
#-103	1/18	22	35	24.0	27.749	140.049	479	4.1	-	119.70	BONIN ISLANDS, JAPAN REGION
#-104	1/19	4	6	41.7	-11.035	165.506	43	5.1	-	91.74	SANTA CRUZ ISLANDS
#-105	1/19	5	58	38.9	-10.965	165.561	12	5.5	5.5	91.83	SANTA CRUZ ISLANDS
#-106	1/19	6	48	48.7	-46.686	165.778	20	6.0	5.8	57.84	OFF WEST COAST OF THE SOUTH ISLAND, N.Z.
#-107	1/19	7	10	21.7	-31.614	-71.639	43	4.8	-	67.55	OFFSHORE COQUIMBO, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-108	1/19	9	1	56.3	-46.730	165.653	16	5.2	-	57.77	OFF WEST COAST OF THE SOUTH ISLAND, N.Z.
#-109	1/19	12	46	48.4	-46.791	165.542	10	4.8	-	57.69	OFF W CST S ISL, N.Z.
#-110	1/19	23	35	36.7	-17.849	-172.492	23	5.0	-	90.26	TONGA REGION
#-111	1/20	11	54	12.5	-0.925	126.746	10	4.1	-	88.33	MOLUCCA SEA
#-112	1/20	13	30	50.6	37.816	143.295	21	5.2	-	129.96	OFF E CST HONSHU, JAPAN
#-113	1/20	20	32	55.2	-8.421	119.690	141	5.7	-	78.81	FLORES REGION, INDONESIA
#-114	1/20	22	50	53.2	4.808	125.322	51	5.4	-	93.17	KEPULAUAN SANGIHE, INDONESIA
#-115	1/21	3	19	50.9	-65.066	177.625	10	4.8	-	42.84	BALLENY ISLANDS REGION
#-116	1/21	11	53	7.8	-15.055	167.180	125	4.5	-	88.35	VANUATU
#-117	1/21	13	24	21.3	-16.966	168.010	31	4.5	-	86.74	VANUATU
#-118	1/22	5	53	42.2	-56.748	-25.223	13	5.5	6.1	29.98	SOUTH SANDWICH ISLANDS REGION
#-119	1/22	11	24	9.0	-28.682	-71.030	59	5.0	-	70.10	ATACAMA, CHILE
#-120	1/22	17	46	17.5	-43.471	172.880	15	4.9	-	62.47	SOUTH ISLAND OF NEW ZEALAND
#-121	1/22	21	3	36.7	3.623	36.038	15	5.3	-	72.66	LAKE RUDOLF REGION, KENYA
#-122	1/23	3	27	2.5	-19.805	-178.411	587	4.7	-	87.21	FIJI REGION
#-123	1/23	12	40	29.0	4.952	96.284	50	4.8	-	83.55	N SUMATRA, INDONESIA.
#-124	1/23	16	4	52.9	-36.409	-73.026	20	5.8	6.0	63.51	OFFSHORE BIO-BIO, CHILE
#-125	1/23	17	22	10.7	-36.343	-73.223	28	4.9	-	63.63	OFFSHORE BIO-BIO, CHILE
#-126	1/23	20	50	14.9	19.568	-70.092	10	5.1	-	115.03	DOMINICAN REPUBLIC
#-127	1/23	21	55	16.0	-36.324	-73.098	31	5.0	-	63.61	OFFSHORE BIO-BIO, CHILE
#-128	1/23	23	41	9.4	-1.909	100.286	57	4.7	-	78.28	SOUTHERN SUMATRA, INDONESIA
#-129	1/24	1	45	27.9	-34.535	-71.886	34	4.6	-	64.91	LIBERTADOR O'HIGGINS, CHILE
#-130	1/24	16	31	8.0	-56.331	-27.894	8	5.4	5.2	31.25	SOUTH SANDWICH ISLANDS REGION
#-131	1/24	16	48	22.4	-41.234	-85.970	10	4.9	-	62.55	WEST CHILE RISE
#-132	1/24	17	7	0.4	46.014	143.054	339	4.8	-	137.07	SAKHALIN, RUSSIA
#-133	1/24	21	33	47.5	-20.023	-177.779	457	4.8	-	87.13	FIJI REGION
#-134	1/24	22	38	34.9	-0.915	126.814	10	4.5	-	88.36	MOLUCCA SEA
#-135	1/25	0	45	59.9	52.798	-167.081	39	5.1	-	159.75	FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-136	1/25	6	2	31.3	-46.940	165.765	10	5.1	-	57.60	OFF WEST COAST OF THE SOUTH ISLAND, N.Z.
#-137	1/25	7	17	3.0	-5.250	152.162	52	5.2	-	93.14	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-138	1/25	8	6	35.4	44.868	10.470	10	5.1	-	115.82	NORTHERN ITALY
#-139	1/25	14	58	37.8	-23.973	-66.657	199	4.8	-	73.08	JUJUJY, ARGENTINA
#-140	1/25	15	56	49.1	-18.472	-175.525	141	4.9	-	89.09	TONGA
#-141	1/25	16	4	9.0	-6.706	-122.222	10	5.2	-	103.17	SOUTH PACIFIC OCEAN
#-142	1/25	17	47	12.9	-6.724	153.409	48	4.9	-	92.16	NEW BRITAIN REG, P.N.G.
#-143	1/25	20	42	56.3	38.220	141.624	52	5.3	-	129.72	NEAR THE EAST COAST OF HONSHU, JAPAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-144	1/26	3	37	9.9	-22.933	179.894	648	4.8	-	83.81	SOUTH OF THE FIJI ISLANDS
#-145	1/26	4	42	5.8	14.293	145.110	117	5.3	-	109.07	ROTA REGION, NORTHERN MARIANA ISLANDS
#-146	1/26	15	47	19.1	6.543	125.749	159	4.9	-	94.94	MINDANAO, PHILIPPINES
#-147	1/26	15	52	54.4	-60.621	-51.332	12	5.4	-	35.66	SCOTIA SEA
#-148	1/26	22	4	6.8	21.644	142.855	313	5.5	-	115.09	MARIANA ISLANDS REGION
#-149	1/27	9	54	34.6	2.743	93.065	28	5.1	-	80.48	OFF W CST N SUMATRA
#-150	1/27	14	53	13.3	44.515	9.992	64	5.2	-	115.54	NORTHERN ITALY
#-151	1/27	17	16	29.4	-10.465	116.034	38	5.0	-	75.60	SOUTH OF LOMBOK, INDONESIA
#-152	1/28	0	22	18.0	40.185	142.218	47	5.6	-	131.68	NR E CST HONSHU, JAPAN
#-153	1/28	4	43	42.1	-36.622	-110.544	10	5.1	-	72.00	SOUTHERN EAST PACIFIC RISE
#-154	1/28	4	46	22.1	19.251	121.175	10	5.1	-	105.17	BABUYAN ISL REG, PHILIPPINES
#-155	1/28	4	56	16.7	-31.903	-178.165	159	4.8	-	75.46	KERMADEC ISLANDS REGION
#-156	1/28	8	51	34.6	-21.442	-66.292	183	5.1	-	75.33	POTOSI, BOLIVIA
#-157	1/28	14	17	40.2	5.007	93.980	35	4.8	-	82.91	OFF W CST N SUMATRA
#-158	1/28	14	47	19.2	2.050	96.691	35	5.2	-	80.91	SIMEULUE, INDONESIA
#-159	1/28	17	42	52.3	-29.282	-177.116	21	5.8	-	78.21	KERMADEC ISLANDS, NEW ZEALAND
#-160	1/28	17	45	46.2	-29.425	-177.284	7	5.3	-	78.04	KERMADEC ISL, NEW ZEALAND
#-161	1/28	17	47	37.0	-29.497	-177.099	18	5.3	-	78.01	KERMADEC ISL, NEW ZEALAND
#-162	1/28	18	17	51.7	-29.692	-177.169	26	5.2	-	77.80	KERMADEC ISL, NEW ZEALAND
#-163	1/28	18	49	2.5	-29.466	-177.090	16	5.4	-	78.04	KERMADEC ISL, NEW ZEALAND
#-164	1/28	19	5	18.3	-29.391	-174.376	14	5.3	-	78.60	KERMADEC ISLANDS REGION
#-165	1/28	19	5	40.3	-29.458	-177.311	28	5.4	-	78.00	KERMADEC ISL, NEW ZEALAND
#-166	1/28	19	37	31.2	-4.087	140.818	82	5.3	-	90.38	PAPUA, INDONESIA
#-167	1/28	20	0	35.5	-29.539	-177.096	15	5.0	-	77.97	KERMADEC ISL, NEW ZEALAND
#-168	1/29	0	6	51.7	5.948	124.735	383	5.2	-	94.03	MINDANAO, PHILIPPINES
#-169	1/29	2	58	52.0	19.505	-155.559	0	6.1	-	129.68	ISL HAWAII, HAWAII
#-170	1/29	16	44	39.3	-21.529	-68.202	125	4.4	-	75.88	ANTOFAGASTA, CHILE
#-171	1/29	17	1	46.4	34.556	136.868	338	4.7	-	124.74	WESTERN HONSHU, JAPAN
#-172	1/29	18	36	35.2	-24.360	179.913	548	4.3	-	82.42	SOUTH OF THE FIJI ISLANDS
#-173	1/29	21	43	25.7	16.482	-46.637	10	5.2	-	103.82	NORTHERN MID-ATLANTIC RIDGE
#-174	1/29	21	54	20.3	16.627	-46.509	10	5.0	-	103.91	NORTHERN MID-ATLANTIC RIDGE
#-175	1/30	2	18	14.5	-22.865	-66.251	242	4.7	-	73.98	JUJUJY, ARG.
#-176	1/30	13	20	35.2	2.030	96.611	39	5.2	-	80.87	SIMEULUE, INDONESIA
#-177	1/30	18	25	20.7	-2.841	129.546	43	4.9	-	87.54	SERAM, INDONESIA
#-178	1/30	19	38	22.8	-1.335	137.808	38	4.7	-	91.89	NEAR N COAST PAPUA, IND.
#-179	1/31	3	40	30.7	3.901	126.877	53	4.8	-	92.88	KEPULAUAN TALAUD, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-180	1/31	7	26	12.5	-22.102	-179.538	619	4.8	-	84.74	SOUTH OF THE FIJI ISLANDS
#-181	2/1	21	43	46.8	-31.538	-111.537	10	5.3	-	77.14	EASTER ISLAND REGION
#-182	2/2	4	50	48.2	-16.221	-73.615	70	5.0	-	82.62	NR CST S PERU
#-183	2/2	6	46	31.8	-6.642	149.801	69	5.4	-	91.05	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-184	2/2	7	59	54.1	-9.947	120.497	52	4.9	-	77.67	SUMBA REG, INDONESIA
#-185	2/2	9	16	18.3	-5.294	153.550	74	5.0	-	93.56	NEW IRELAND REG, P.N.G.
#-186	2/2	9	32	15.5	-6.608	149.813	29	5.4	-	91.09	NEW BRITAIN REG, P.N.G.
#-187	2/2	10	44	7.9	-17.872	168.434	147	4.8	-	85.99	VANUATU
#-188	2/2	10	56	50.3	-20.902	-68.916	109	4.5	-	76.70	ANTOFAGASTA, CHILE
#-189	2/2	13	34	44.6	-17.834	167.110	55	-	6.8	85.67	VANUATU
#-190	2/2	13	57	7.5	-17.462	167.169	10	5.3	-	86.04	VANUATU
#-191	2/2	16	4	44.9	-17.786	167.252	29	5.0	-	85.75	VANUATU
#-192	2/2	17	27	7.4	-17.963	167.209	23	5.5	-	85.57	VANUATU
#-193	2/2	17	28	47.8	-17.596	167.340	21	5.2	-	85.96	VANUATU
#-194	2/2	19	20	45.9	-17.996	167.828	10	4.9	-	85.71	VANUATU
#-195	2/2	19	44	35.5	-17.457	167.229	32	5.1	-	86.06	VANUATU
#-196	2/2	20	26	31.4	-17.519	167.359	17	5.1	-	86.04	VANUATU
#-197	2/2	21	38	34.3	-16.738	-173.957	10	4.8	-	91.08	TONGA
#-198	2/3	3	46	23.8	-17.389	167.256	25	5.9	5.8	86.14	VANUATU
#-199	2/3	4	33	8.6	-17.465	167.173	22	5.4	-	86.04	VANUATU
#-200	2/3	6	1	42.6	-17.402	167.214	35	5.6	5.3	86.11	VANUATU
#-201	2/3	7	18	30.8	-23.495	-66.624	184	4.4	-	73.52	JUJUY, ARGENTINA
#-202	2/3	8	13	16.0	-17.923	167.837	10	4.8	-	85.78	VANUATU
#-203	2/3	10	58	42.7	1.733	127.848	208	4.8	-	91.20	HALMAHERA, INDONESIA
#-204	2/3	11	26	47.6	-6.722	150.082	13	5.1	-	91.07	NEW BRITAIN REG, P.N.G.
#-205	2/3	14	25	31.7	-17.884	167.789	33	4.8	-	85.80	VANUATU
#-206	2/3	15	5	59.9	-17.858	167.952	35	4.7	-	85.87	VANUATU
#-207	2/3	17	40	1.8	-0.436	99.118	59	4.9	-	79.30	SOUTHERN SUMATRA, INDONESIA
#-208	2/4	0	54	28.9	51.697	152.935	416	4.2	-	145.36	NORTHWEST OF KURIL ISLANDS
#-209	2/4	2	54	22.1	24.692	122.599	118	5.1	-	110.71	TAIWAN REG.
#-210	2/4	4	9	35.2	42.296	105.604	10	5.4	-	121.54	CENTRAL MONGOLIA
#-211	2/4	18	1	46.9	0.853	-26.731	14	5.1	-	82.34	CENTRAL MID-ATLANTIC RIDGE
#-212	2/4	19	29	18.0	11.960	125.711	26	5.4	-	99.98	SAMAR, PHILIPPINES
#-213	2/4	20	5	30.9	48.879	-127.956	11	5.5	-	158.88	VANCOUVER ISLAND, CANADA REGION
#-214	2/4	21	50	50.8	13.055	57.568	10	5.3	-	83.11	OWEN FRACTURE ZONE REGION
#-215	2/4	22	43	4.1	-56.134	-27.328	86	4.8	-	31.20	SOUTH SANDWICH ISL REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-216	2/5	0	5	56.9	-5.492	133.955	21	5.2	-	86.64	KEPULAUAN KAI, INDONESIA
#-217	2/5	0	15	40.7	-18.913	168.906	163	5.4	-	85.11	VANUATU
#-218	2/5	2	16	36.2	-17.435	167.130	21	5.0	-	86.06	VANUATU
#-219	2/5	2	27	17.1	-17.219	167.165	19	4.9	-	86.27	VANUATU
#-220	2/5	3	27	48.2	3.171	126.958	69	4.7	-	92.23	KEPULAUAN TALAUD, INDONESIA
#-221	2/5	3	42	5.5	-36.662	-73.323	21	4.7	-	63.37	OFFSHORE BIO-BIO, CHILE
#-222	2/5	5	10	40.8	2.476	93.072	29	4.5	-	80.23	OFF W CST N SUMATRA
#-223	2/5	6	10	39.7	28.568	51.472	10	5.0	-	98.01	SOUTHERN IRAN
#-224	2/5	7	10	18.3	41.434	74.807	21	5.2	-	113.58	KYRGYZSTAN
#-225	2/5	12	15	58.3	-21.600	-179.364	597	4.7	-	85.26	FIJI REGION
#-226	2/5	15	5	54.3	-4.826	100.646	6	4.8	-	75.63	SW OF SUMATRA, INDONESIA
#-227	2/5	15	52	2.0	-8.212	108.213	77	4.4	-	74.98	JAVA, INDONESIA
#-228	2/5	16	40	39.1	-17.947	167.214	8	5.9	5.7	85.59	VANUATU
#-229	2/5	16	46	44.3	5.912	124.131	503	4.8	-	93.78	MINDANAO, PHILIPPINES
#-230	2/5	19	8	59.0	-5.409	133.892	34	4.5	-	86.69	KEPULAUAN KAI, INDONESIA
#-231	2/5	20	15	37.6	-17.716	167.236	17	4.8	-	85.82	VANUATU
#-232	2/5	20	58	46.9	-15.719	-70.760	189	4.7	-	82.17	SOUTHERN PERU
#-233	2/5	23	50	40.6	-20.400	-177.991	518	5.1	-	86.72	FIJI REGION
#-234	2/6	2	14	26.2	1.687	127.552	115	4.4	-	91.05	HALMAHERA, INDONESIA
#-235	2/6	3	14	46.8	-17.745	167.225	38	4.7	-	85.79	VANUATU
#-236	2/6	4	20	0.0	10.113	123.242	10	5.7	-	97.38	NEGROS - CEBU REGION, PHILIPPINES
#-237	2/6	11	40	19.7	9.845	123.041	37	5.2	-	97.06	NEGROS - CEBU REGION, PHILIPPINES
#-238	2/6	13	49	24.6	-21.938	-66.897	173	4.5	-	75.06	POTOSI, BOLIVIA
#-239	2/7	0	33	40.2	-3.493	123.297	30	4.6	-	84.69	SULAWESI, INDONESIA
#-240	2/7	8	31	22.5	12.677	48.682	10	4.9	-	81.97	GULF OF ADEN
#-241	2/7	12	2	11.1	-37.964	-75.175	16	4.9	-	62.70	OFF CST BIO-BIO, CHILE
#-242	2/7	13	30	4.8	45.560	142.212	316	5.0	-	136.38	HOKKAIDO, JAPAN REGION
#-243	2/7	19	9	30.1	19.694	121.528	39	5.0	-	105.71	BABUYAN ISL REG, PHILIPPINES
#-244	2/7	19	45	27.4	-9.693	122.306	43	4.5	-	78.56	SAVU SEA
#-245	2/7	20	37	44.2	10.154	123.353	11	5.3	-	97.46	NEGROS - CEBU REGION, PHILIPPINES
#-246	2/8	0	41	3.3	10.255	123.428	10	5.2	-	97.58	NEGROS - CEBU REGION, PHILIPPINES
#-247	2/8	1	58	43.7	-29.536	-177.330	55	5.3	-	77.92	KERMADEC ISLANDS, NEW ZEALAND
#-248	2/8	8	52	25.6	-0.386	119.993	23	5.1	-	86.42	MINAHASA, SULAWESI, IND.
#-249	2/8	10	54	43.0	0.682	-79.187	70	5.6	-	100.39	NEAR THE COAST OF ECUADOR
#-250	2/9	2	39	37.8	-3.266	130.816	9	5.0	-	87.60	SERAM, INDONESIA
#-251	2/9	5	9	11.7	-3.336	130.691	35	5.1	-	87.49	SERAM, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-252	2/9	5	18	44.9	-15.182	167.633	96	5.0	-	88.36	VANUATU
#-253	2/9	5	59	2.4	-7.050	155.639	79	5.3	-	92.57	SOLOMON ISLANDS
#-254	2/9	8	49	24.9	-56.371	-25.836	10	5.6	-	30.49	S SANDWICH ISL REG.
#-255	2/9	19	21	2.0	-58.303	158.022	14	5.1	-	45.33	MACQUARIE ISLAND REGION
#-256	2/10	15	49	50.0	-30.289	-177.128	72	4.9	-	77.23	KERMADEC ISLANDS, NEW ZEALAND
#-257	2/12	4	41	0.8	38.534	144.293	15	5.1	-	130.96	OFF E CST HONSHU, JAPAN
#-258	2/12	9	28	17.3	-15.596	-74.048	75	5.1	-	83.35	NR CST S PERU
#-259	2/12	14	13	35.4	-30.334	-176.920	54	4.7	-	77.22	KERMADEC ISLANDS REGION
#-260	2/12	18	9	21.2	-7.132	-13.031	10	5.0	-	70.45	ASCENSION ISLAND REGION
#-261	2/13	0	49	31.4	-13.904	40.873	10	5.0	-	55.12	MOZAMBIQUE
#-262	2/13	5	58	49.5	-34.069	-177.036	13	4.8	-	73.56	S KERMADEC ISL.
#-263	2/13	5	59	17.4	2.572	95.778	28	4.7	-	81.13	SIMEULUE, INDONESIA
#-264	2/13	7	50	32.0	-33.935	-178.011	10	4.9	-	73.51	S KERMADEC ISL.
#-265	2/13	9	9	13.0	-18.139	-172.437	26	5.2	-	89.99	TONGA REGION
#-266	2/13	10	12	15.9	-33.011	-178.897	113	5.0	-	74.24	S KERMADEC ISL.
#-267	2/13	14	47	4.3	-6.412	124.303	32	4.8	-	82.33	BANDA SEA
#-268	2/14	3	27	47.4	36.195	141.407	9	5.4	-	127.84	NEAR E COAST HONSHU, JAPAN
#-269	2/14	4	12	23.9	-49.674	-116.224	13	5.1	-	59.92	SOUTHERN EAST PACIFIC RISE
#-270	2/14	5	58	2.0	-32.115	-69.715	91	4.4	-	66.49	SAN JUAN, ARGENTINA
#-271	2/14	7	6	8.7	-9.679	117.383	66	4.4	-	76.81	SUMBAWA REGION, INDONESIA
#-272	2/14	14	8	40.6	-18.257	-69.408	126	4.6	-	79.34	TARAPACA, CHILE
#-273	2/14	18	7	58.1	-18.055	167.075	49	5.0	-	85.45	VANUATU
#-274	2/14	23	39	16.4	0.868	-29.237	10	5.3	-	83.19	CENTRAL MID-ATLANTIC RIDGE
#-275	2/15	1	49	36.5	-19.299	-177.324	317	5.2	-	87.93	FIJI REGION
#-276	2/15	5	53	56.1	-22.576	-66.876	180	4.5	-	74.46	JUJUY, ARG.
#-277	2/15	14	7	51.2	-7.506	146.929	8	5.8	5.1	89.27	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-278	2/15	21	59	27.3	-7.926	105.825	41	4.7	-	74.43	JAVA, INDONESIA
#-279	2/16	2	20	28.0	-17.851	65.596	10	5.1	-	53.76	MAURITIUS - REUNION REGION
#-280	2/16	11	12	46.8	-8.325	118.367	86	4.7	-	78.43	SUMBAWA REGION, INDONESIA
#-281	2/17	1	57	29.6	-19.365	168.843	35	5.1	4.8	84.66	VANUATU
#-282	2/17	8	1	17.6	-37.171	-73.911	11	4.8	-	63.07	OFFSHORE BIO-BIO, CHILE
#-283	2/17	11	26	48.7	-14.816	166.860	34	5.0	-	88.50	VANUATU
#-284	2/17	12	30	46.0	-21.106	-68.733	99	4.2	-	76.45	TARAPACA, CHILE
#-285	2/17	12	52	39.9	-17.689	167.251	6	4.6	-	85.85	VANUATU
#-286	2/18	2	6	29.7	-34.759	-71.876	46	4.7	-	64.70	LIBERTADOR O'HIGGINS, CHILE
#-287	2/18	4	50	22.0	-5.275	151.412	70	5.1	-	92.87	NEW BRITAIN REG, P.N.G.

Table 2. Continued.

No.	Date	Origin time UTC			Geographic	Coordinates	Dep	Magnitude		Epicentral distance	Region
		h	m	s	Latitude	Longitude		Mb	Ms		
					(deg)	(deg)	(km)			(deg)	
#-288	2/18	19	15	17.7	-20.913	-173.490	4	5.5	-	87.07	TONGA
#-289	2/18	22	58	47.9	2.401	126.831	43	5.0	-	91.46	MOLUCCA SEA
#-290	2/19	3	18	22.9	-19.764	-177.890	392	4.5	-	87.36	FIJI REGION
#-291	2/19	5	54	54.0	36.767	140.332	39	5.2	-	127.97	NEAR THE EAST COAST OF HONSHU, JAPAN
#-292	2/19	8	28	41.8	-6.486	129.815	110	4.3	-	84.23	BANDA SEA
#-293	2/19	14	21	56.1	-4.157	129.797	47	4.3	-	86.40	BANDA SEA
#-294	2/19	15	17	28.9	-41.048	44.580	10	5.0	-	28.12	CROZET ISLANDS REGION
#-295	2/19	16	6	7.5	30.224	138.441	435	4.4	-	121.38	IZU ISLANDS, JAPAN REGION
#-296	2/19	23	33	8.2	-17.640	-178.730	549	5.0	-	89.26	FIJI REGION
#-297	2/20	2	28	17.7	1.855	99.557	192	5.2	-	81.62	NORTHERN SUMATRA, INDONESIA
#-298	2/20	13	55	30.1	4.636	126.358	90	4.7	-	93.38	KEPULAUAN TALAUD, INDONESIA
#-299	2/20	19	9	43.8	14.394	-92.882	63	5.3	-	117.63	OFFSHORE CHIAPAS, MEXICO
#-300	2/20	20	59	8.0	-4.749	151.471	177	5.1	-	93.39	NEW BRITAIN REG, P.N.G.
#-301	2/20	23	54	20.5	-17.652	-172.930	35	5.1	-	90.38	TONGA REGION
#-302	2/21	4	36	27.1	-19.110	-177.447	592	4.7	-	88.09	FIJI REGION
#-303	2/21	9	10	34.0	-16.155	-174.034	82	4.9	-	91.64	TONGA
#-304	2/21	19	40	59.9	-5.005	-11.355	10	4.8	-	72.00	ASCENSION ISLAND REGION
#-305	2/22	0	50	43.6	-17.858	167.040	56	5.1	-	85.63	VANUATU
#-306	2/22	10	45	22.8	-5.177	133.566	19	5.8	-	86.80	KEPULAUAN KAI, INDONESIA
#-307	2/22	12	2	44.4	4.976	94.360	26	5.2	-	83.00	OFF W CST N SUMATRA
#-308	2/22	14	13	8.6	3.676	126.816	14	4.7	-	92.65	KEPULAUAN TALAUD, INDONESIA
#-309	2/22	15	14	17.7	-15.952	-175.750	27	4.7	-	91.51	TONGA
#-310	2/23	4	5	32.6	-20.554	-178.572	578	5.3	-	86.45	FIJI REGION
#-311	2/23	5	8	12.6	-17.724	-13.188	10	5.3	-	60.44	SOUTHERN MID-ATLANTIC RIDGE
#-312	2/23	13	8	35.6	-20.447	-177.342	629	4.7	-	86.80	FIJI REGION
#-313	2/23	13	25	30.5	-5.255	151.995	69	5.3	-	93.08	NEW BRITAIN REG, P.N.G.
#-314	2/23	14	9	15.2	14.489	-93.095	61	5.0	-	117.78	OFFSHORE CHIAPAS, MEXICO
#-315	2/23	18	26	24.8	-29.247	-176.149	44	5.1	-	78.43	KERMADEC ISLANDS REGION
#-316	2/24	2	2	45.7	-15.321	-174.202	35	4.9	-	92.43	TONGA
#-317	2/24	2	40	53.6	-26.064	-177.666	159	4.9	-	81.25	SOUTH OF THE FIJI ISLANDS
#-318	2/24	6	50	9.0	-15.712	-72.821	119	4.7	-	82.84	S PERU
#-319	2/24	13	0	14.1	37.885	135.900	329	4.4	-	127.39	SEA OF JAPAN
#-320	2/24	14	13	1.8	-4.935	102.912	35	5.1	-	76.27	SOUTHERN SUMATRA, INDONESIA
#-321	2/24	19	12	20.7	1.511	126.377	29	5.3	-	90.47	MOLUCCA SEA
#-322	2/25	2	1	6.3	14.548	51.077	10	4.7	-	84.00	GULF OF ADEN
#-323	2/25	3	31	54.5	-7.166	129.066	171	4.5	-	83.33	KEPULAUAN BABAR, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-324	2/25	5	6	21.5	-25.699	179.529	507	5.1	-	81.04	SOUTH OF THE FIJI ISLANDS
#-325	2/25	6	15	12.8	49.194	155.936	23	5.3	-	144.36	KURIL ISLANDS
#-326	2/25	6	18	4.1	49.221	155.988	27	5.2	-	144.40	KURIL ISLANDS
#-327	2/25	7	1	50.8	11.717	125.731	51	5.1	-	99.76	SAMAR, PHILIPPINES
#-328	2/25	16	51	56.7	49.172	156.192	16	5.0	-	144.43	KURIL ISLANDS
#-329	2/25	21	6	4.0	-18.038	-179.306	604	4.7	-	88.75	FIJI REGION
#-330	2/26	0	29	28.9	-21.422	-66.659	211	4.6	-	75.47	POTOSI, BOLIVIA
#-331	2/26	2	46	28.6	-24.715	-177.460	67	5.1	-	82.61	SOUTH OF THE FIJI ISLANDS
#-332	2/26	5	24	59.1	-32.491	-177.737	38	5.6	6.2	74.97	SOUTH OF KERMADEC ISLANDS
#-333	2/26	5	59	19.6	-24.807	-177.491	10	4.9	-	82.51	SOUTH OF THE FIJI ISLANDS
#-334	2/26	6	17	19.8	51.719	95.982	12	6.4	6.6	127.73	SOUTHWESTERN SIBERIA, RUSSIA
#-335	2/26	8	8	52.8	-18.804	-69.207	109	5.4	-	78.76	TARAPACA, CHILE
#-336	2/26	9	23	9.7	-24.730	-177.242	10	5.0	-	82.64	SOUTH OF THE FIJI ISLANDS
#-337	2/26	11	7	41.3	51.708	96.088	10	5.1	-	127.74	SOUTHWESTERN SIBERIA, RUSSIA
#-338	2/26	11	17	3.0	-24.859	-177.230	10	5.1	-	82.51	SOUTH OF THE FIJI ISLANDS
#-339	2/26	12	12	24.0	-24.689	-177.444	10	5.0	-	82.64	SOUTH OF THE FIJI ISLANDS
#-340	2/26	13	13	4.8	-19.375	169.001	86	4.8	-	84.69	VANUATU
#-341	2/26	13	49	59.1	-24.626	-177.226	15	5.1	-	82.74	SOUTH OF THE FIJI ISLANDS
#-342	2/26	16	13	16.9	-24.483	-177.287	21	4.9	-	82.87	SOUTH OF THE FIJI ISLANDS
#-343	2/26	19	37	8.8	-24.946	-177.247	10	5.1	-	82.42	SOUTH OF THE FIJI ISLANDS
#-344	2/27	1	11	48.5	23.855	123.340	41	5.2	-	110.20	SW RYUKYU ISLANDS, JAPAN
#-345	2/27	1	35	4.9	-24.796	-177.212	10	4.8	-	82.58	SOUTH OF THE FIJI ISLANDS
#-346	2/27	3	1	55.3	-24.930	-177.793	10	5.0	-	82.33	SOUTH OF THE FIJI ISLANDS
#-347	2/27	3	35	14.5	-52.928	10.342	10	5.0	-	20.87	SOUTHWEST OF AFRICA
#-348	2/27	3	43	8.6	49.738	155.147	61	5.0	-	144.53	KURIL ISLANDS
#-349	2/27	11	58	3.4	3.215	128.252	96	4.5	-	92.73	NORTH OF HALMAHERA, INDONESIA
#-350	2/27	13	54	53.5	-20.493	-177.941	539	4.8	-	86.63	FIJI REGION
#-351	2/27	14	34	21.9	-24.778	-177.122	10	5.1	-	82.61	SOUTH OF THE FIJI ISLANDS
#-352	2/27	14	54	44.0	-24.695	-177.224	10	5.1	-	82.67	SOUTH OF THE FIJI ISLANDS
#-353	2/27	20	12	11.2	-20.307	-178.699	591	4.9	-	86.66	FIJI REGION
#-354	2/28	5	33	32.0	49.387	156.063	37	5.1	-	144.57	KURIL ISLANDS
#-355	2/28	13	2	30.1	-7.014	156.002	85	4.8	-	92.71	SOLOMON ISLANDS
#-356	2/28	23	52	33.8	-7.403	128.154	154	5.1	-	82.78	KEPULAUAN BARAT DAYA, INDONESIA
#-357	2/29	1	22	50.6	49.252	156.213	30	5.1	-	144.51	KURIL ISLANDS
#-358	2/29	7	5	11.8	-12.534	166.498	78	4.9	-	90.58	SANTA CRUZ ISL.
#-359	2/29	9	0	4.7	37.298	141.517	39	5.2	-	128.86	NEAR THE EAST COAST OF HONSHU, JAPAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-360	2/29	11	36	35.4	49.270	156.104	40	5.1	-	144.48	KURIL ISLANDS
#-361	2/29	21	59	38.1	-17.760	167.367	10	5.0	-	85.81	VANUATU
#-362	2/29	22	32	36.0	36.426	140.437	79	5.4	-	127.70	NEAR E COAST HONSHU, JAPAN
#-363	3/1	0	43	29.5	7.271	-36.015	10	4.8	-	91.51	CENTRAL MID-ATLANTIC RIDGE
#-364	3/1	1	0	1.5	-17.881	167.462	16	5.0	-	85.72	VANUATU
#-365	3/1	16	40	13.7	49.035	156.151	22	5.0	-	144.31	KURIL ISLANDS
#-366	3/1	18	41	45.0	-31.553	-69.357	74	4.6	-	66.90	SAN JUAN, ARGENTINA
#-367	3/2	5	9	59.3	-8.040	146.269	45	5.5	-	88.55	E NEW GUINEA REG, P.N.G.
#-368	3/2	16	48	31.2	52.280	178.547	168	5.1	-	154.86	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-369	3/3	6	0	44.9	32.121	137.908	362	4.4	-	122.91	IZU ISLANDS, JAPAN REGION
#-370	3/3	11	1	47.3	-30.329	-71.118	49	5.5	-	68.59	COQUIMBO, CHILE
#-371	3/3	12	19	55.1	-22.145	170.340	14	6.5	6.4	82.37	SOUTHEAST OF THE LOYALTY ISLANDS
#-372	3/3	22	12	58.0	-35.678	-72.763	30	5.0	-	64.11	OFFSHORE MAULE, CHILE
#-373	3/4	12	49	2.5	-21.528	169.763	14	5.4	5.4	82.82	SOUTHEAST OF THE LOYALTY ISLANDS
#-374	3/4	16	5	14.9	-22.256	-174.844	11	5.1	-	85.51	TONGA REGION
#-375	3/4	16	27	20.9	-21.561	-69.850	46	5.2	-	76.38	ANTOFAGASTA, CHILE
#-376	3/4	23	17	6.2	-4.377	102.654	65	5.5	-	76.71	SOUTHERN SUMATRA, INDONESIA
#-377	3/5	5	14	14.8	-21.668	170.363	10	5.0	-	82.83	SE LOYALTY ISL
#-378	3/5	6	24	25.1	40.212	142.457	33	5.1	-	131.79	NR E CST HONSHU, JAPAN
#-379	3/5	6	55	27.0	4.167	96.965	17	5.1	-	83.01	NORTHERN SUMATRA, INDONESIA
#-380	3/5	7	46	9.8	-28.227	-63.242	550	6.1	-	68.00	SANTIAGO DEL ESTERO, ARGENTINA
#-381	3/5	9	38	12.2	-18.752	-170.751	16	4.6	-	89.68	TONGA REGION
#-382	3/5	23	6	31.1	12.348	123.685	39	5.2	-	99.62	MASBATE REGION, PHILIPPINES
#-383	3/6	2	52	45.8	8.640	93.792	42	5.5	-	86.33	NICOBAR ISL, INDIA REG.
#-384	3/6	11	36	23.4	-0.835	100.199	103	5.2	-	79.27	SOUTHERN SUMATRA, INDONESIA
#-385	3/6	22	34	59.4	-18.168	-174.116	30	4.9	-	89.65	TONGA
#-386	3/7	7	19	45.0	-19.254	-175.778	253	5.0	-	88.27	TONGA
#-387	3/7	12	0	46.0	-2.799	138.879	54	5.5	-	90.90	PAPUA, INDONESIA
#-388	3/7	12	2	52.3	-57.923	-25.330	57	5.6	-	29.13	SOUTH SANDWICH ISL REGION
#-389	3/7	22	28	59.5	-2.158	127.938	40	4.5	-	87.60	CERAM SEA, INDONESIA
#-390	3/7	22	45	54.2	-22.448	169.965	10	4.8	-	81.98	SOUTHEAST OF LOYALTY ISLANDS
#-391	3/8	0	1	3.7	-24.139	-67.043	166	4.7	-	73.06	SALTA, ARG.
#-392	3/8	3	51	34.6	-18.075	166.856	13	5.1	-	85.37	VANUATU REGION
#-393	3/8	22	50	8.5	39.397	81.337	38	5.8	-	112.82	SOUTHERN XINJIANG, CHINA
#-394	3/9	7	9	50.9	-19.124	169.607	16	6.1	6.7	85.09	VANUATU
#-395	3/9	7	36	39.6	-19.073	169.300	10	4.9	-	85.06	VANUATU

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-396	3/10	2	26	57.0	-19.738	-69.250	101	5.3	-	77.90	TARAPACA, CHILE		
#-397	3/10	16	0	52.7	-6.039	103.882	35	4.5	-	75.55	SW SUMATRA, INDONESIA		
#-398	3/10	18	26	24.4	-35.299	178.710	190	4.9	-	71.55	OFF E COAST OF N ISL, N.Z.		
#-399	3/10	20	58	10.1	8.626	93.991	72	4.6	-	86.38	NICOBAR ISL, INDIA REGION		
#-400	3/10	21	53	56.7	30.603	137.752	458	4.6	-	121.48	IZU ISLANDS, JAPAN REGION		
#-401	3/11	7	45	12.2	-24.433	-179.306	507	4.7	-	82.51	SOUTH OF THE FIJI ISLANDS		
#-402	3/11	11	10	52.2	-24.944	-176.933	92	5.0	-	82.49	SOUTH OF THE FIJI ISLANDS		
#-403	3/11	16	8	6.3	-17.033	168.581	263	4.7	-	86.83	VANUATU		
#-404	3/11	18	11	9.1	3.044	65.118	10	5.2	-	74.24	CARLSBERG RIDGE		
#-405	3/11	19	2	59.2	51.696	-173.241	64	5.0	-	156.99	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA		
#-406	3/11	22	30	26.2	-41.044	-16.681	10	5.2	-	40.06	SOUTHERN MID-ATLANTIC RIDGE		
#-407	3/12	1	29	41.0	-24.158	-67.047	201	4.1	-	73.04	SALTA, ARGENTINA		
#-408	3/12	12	32	49.0	45.239	147.680	132	5.6	-	138.05	KURIL ISLANDS		
#-409	3/12	17	55	10.6	3.022	127.005	35	5.0	-	92.10	KEPULAUAN TALAUD, INDONESIA		
#-410	3/12	19	37	36.5	-34.930	-71.563	65	4.9	-	64.44	MAULE, CHILE		
#-411	3/13	2	39	56.3	-10.972	43.310	15	4.9	-	58.10	COMOROS REGION		
#-412	3/13	18	23	43.5	-23.675	-179.966	551	5.0	-	83.12	SOUTH OF THE FIJI ISLANDS		
#-413	3/13	19	16	6.4	-4.700	102.096	59	4.6	-	76.23	SOUTHERN SUMATRA, INDONESIA		
#-414	3/13	19	43	31.9	-13.123	166.932	188	4.9	-	90.14	VANUATU		
#-415	3/13	23	6	44.4	15.002	-92.902	56	5.4	-	118.22	OFFSHORE CHIAPAS, MEXICO		
#-416	3/13	23	16	20.7	-17.680	166.911	35	5.1	-	85.76	VANUATU		
#-417	3/14	5	8	28.0	-10.272	161.105	107	4.9	-	91.19	SOLOMON ISLANDS		
#-418	3/14	6	53	1.0	18.467	145.303	479	4.5	-	113.02	PAGAN REGION, N MARIANA ISL		
#-419	3/14	7	46	40.6	-59.770	-26.441	82	4.8	-	28.16	SOUTH SANDWICH ISLANDS REGION		
#-420	3/14	9	8	35.1	40.894	144.935	12	6.7	6.9	133.28	OFF THE EAST COAST OF HONSHU, JAPAN.		
#-421	3/14	10	49	24.6	40.789	144.757	10	5.8	-	133.12	OFF E CST HONSHU, JAPAN		
#-422	3/14	10	52	37.9	-10.308	-75.943	136	5.4	-	88.95	CENTRAL PERU		
#-423	3/14	10	57	40.1	40.759	144.796	12	5.6	-	133.11	OFF THE EAST COAST OF HONSHU, JAPAN		
#-424	3/14	11	40	17.1	40.913	144.844	10	5.4	-	133.26	OFF THE EAST COAST OF HONSHU, JAPAN		
#-425	3/14	12	5	4.5	35.691	140.686	10	5.7	5.6	127.13	NR E CST HONSHU, JAPAN		
#-426	3/14	19	7	43.0	-45.163	166.740	11	5.0	-	59.50	OFF WEST COAST OF THE SOUTH ISLAND, N.Z.		
#-427	3/14	21	13	8.0	-5.605	151.029	28	5.7	6.0	92.43	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-428	3/15	11	15	20.2	-45.183	166.718	10	4.6	-	59.48	OFF W CST S ISL, N.Z.		
#-429	3/16	0	38	8.7	49.298	156.051	45	5.3	-	144.49	KURIL ISLANDS		
#-430	3/16	13	35	58.4	-60.927	-20.861	11	4.8	-	25.39	EAST OF SOUTH SANDWICH ISL		
#-431	3/16	18	37	56.3	37.812	133.602	441	4.9	-	126.52	SEA OF JAPAN		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#432	3/16	23	31	54.0	-33.606	-72.038	46	4.7	-	65.82	OFFSHORE VALPARAISO, CHILE
#433	3/17	1	49	28.5	-7.037	123.412	632	4.8	-	81.43	BANDA SEA
#434	3/17	2	55	33.4	7.300	-35.534	10	4.5	-	91.37	CENTRAL MID-ATLANTIC RIDGE
#435	3/17	6	21	2.8	-23.187	179.850	551	4.9	-	83.55	SOUTH OF THE FIJI ISLANDS
#436	3/17	15	49	16.8	3.738	63.451	10	5.0	-	74.66	CARLSBERG RIDGE
#437	3/17	17	0	57.1	3.858	63.387	11	5.5	-	74.77	CARLSBERG RIDGE
#438	3/17	19	50	24.3	-34.794	-107.558	32	5.1	-	73.31	SOUTHERN EAST PACIFIC RISE
#439	3/18	1	59	56.7	-35.100	-111.059	10	4.7	-	73.57	SOUTHERN EAST PACIFIC RISE
#440	3/19	2	30	21.8	-4.570	152.963	63	5.0	-	94.05	NEW BRITAIN REG, P.N.G.
#441	3/19	5	4	59.5	-0.812	119.846	35	5.0	-	85.97	MINAHASA, SULAWESI, IND.
#442	3/19	13	42	34.6	-4.356	143.880	114	5.6	-	91.19	NEW GUINEA, PAPUA NEW GUINEA
#443	3/19	19	59	9.8	-5.783	-80.482	85	4.8	-	94.67	NR CST N PERU
#444	3/19	21	52	39.0	-24.555	-69.219	73	4.9	-	73.38	ANTOFAGASTA, CHILE
#445	3/19	23	46	34.2	-14.560	-175.589	12	5.5	-	92.91	SAMOA ISLANDS REGION
#446	3/20	7	1	30.8	-3.481	123.385	44	4.6	-	84.74	SULAWESI, INDONESIA
#447	3/20	10	18	52.6	9.550	93.373	54	4.9	-	87.08	NICOBAR ISLANDS, INDIA REGION
#448	3/20	15	6	1.4	-19.780	169.282	124	5.0	-	84.37	VANUATU
#449	3/20	17	56	18.7	-3.821	140.252	66	6.2	-	90.43	PAPUA, INDONESIA
#450	3/20	18	2	47.8	16.539	-98.215	20	6.6	-	121.19	OAXACA, MEXICO
#451	3/20	18	14	39.7	15.346	-97.571	23	5.0	-	119.87	OFFSHORE OAXACA, MEXICO
#452	3/20	18	35	37.2	16.266	-98.139	10	5.1	-	120.90	OAXACA, MEXICO
#453	3/20	19	2	45.0	16.315	-98.352	33	5.1	-	121.01	OAXACA, MEXICO
#454	3/20	21	7	11.8	-23.870	-175.658	55	5.1	-	83.78	TONGA REGION
#455	3/20	23	0	25.3	-28.172	-66.344	136	4.3	-	69.07	CATAMARCA, ARGENTINA
#456	3/21	0	6	38.9	-21.892	-67.272	174	4.2	-	75.23	POTOSI, BOLIVIA
#457	3/21	2	54	39.7	16.736	-98.214	21	5.0	-	121.38	GUERRERO, MEXICO
#458	3/21	22	15	6.1	-6.244	145.953	118	6.3	-	90.13	NEW GUINEA, PAPUA NEW GUINEA
#459	3/22	0	21	34.0	3.485	125.697	92	5.2	-	92.07	KEPULAUAN SANGIHE, INDONESIA
#460	3/22	12	59	29.4	-15.276	167.439	149	5.0	-	88.21	VANUATU
#461	3/22	18	40	20.5	-27.817	-178.308	294	4.9	-	79.41	KERMADEC ISLANDS REGION
#462	3/23	9	25	14	-26.163	131.955	7	5.3	0.0	66.73	SOUTH AUSTRALIA
#463	3/23	9	25	31.9	-31.691	-69.025	94.6	4.3	0.0	66.66	SAN JUAN, ARGENTINA
#464	3/23	11	32	44.07	0.308	126.198	45.3	4.6	0.0	89.28	MOLUCCA SEA
#465	3/23	15	4	3.49	-17.64	167.562	35	4.8	0.0	85.98	VANUATU
#466	3/23	15	34	44.7	-17.678	167.546	35	4.9	0.0	85.94	VANUATU
#467	3/24	4	43	51.68	-20.184	14.451	10	4.8	0.0	51.1	NAMIBIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#468	3/24	6	52	12.97	-6.299	-79.905	82.5	4.0	0.0	94	NEAR THE COAST OF NORTHERN PERU
#469	3/24	7	28	33	-33.052	-71.063	68.8	5.0	0.0	66.04	VALPARAISO, CHILE
#470	3/24	14	39	25.72	-15.543	-70.654	163.6	4.6	0.0	82.3	SOUTHERN PERU
#471	3/24	22	18	38.25	-54.367	-136.157	10	5.5	0.0	56.57	PACIFIC-ANTARCTIC RIDGE
#472	3/25	1	5	34.53	-54.576	-135.923	10	5.7	0.0	56.36	PACIFIC-ANTARCTIC RIDGE
#473	3/25	6	43	51.62	-20.134	-176.375	276.9	4.7	0.0	87.3	FIJI REGION
#474	3/25	10	26	54.06	-60.835	-23.863	40.4	5.2	0.0	26.51	SOUTH SANDWICH ISLANDS REGION
#475	3/25	13	22	41.65	37.692	141.603	62.2	5.2	0.0	129.25	NEAR THE EAST COAST OF HONSHU, JAPAN
#476	3/25	13	59	22.57	-18.638	-178.774	507.5	5.1	0.0	88.27	FIJI REGION
#477	3/25	14	58	59.19	-7.3	129.306	82.2	4.2	0.0	83.29	KEPULAUAN BABAR, INDONESIA
#478	3/25	17	6	0.75	-58.887	-25.642	35	4.5	0.0	28.53	SOUTH SANDWICH ISLANDS REGION
#479	3/25	17	7	22.34	1.55	126.51	40.4	4.6	0.0	90.55	MOLUCCA SEA
#480	3/25	20	45	45.7	-19.108	168.75	40.4	5.0	0.0	84.88	VANUATU
#481	3/25	21	48	16.43	0.871	-29.994	10	4.8	0.0	83.45	CENTRAL MID-ATLANTIC RIDGE
#482	3/25	22	37	6	-35.2	-72.217	40.7	7.1	0.0	64.39	MAULE, CHILE
#483	3/25	23	1	1.2	-12.693	-77.731	24.5	4.6	0.0	87.25	NEAR THE COAST OF CENTRAL PERU
#484	3/26	1	35	52.65	-19.183	169.606	275.5	4.6	0.0	85.03	VANUATU
#485	3/26	2	7	41	-34.994	-72.092	34.7	4.4	0.0	64.55	MAULE, CHILE
#486	3/26	5	29	12	-29.275	-69.602	100	4.5	0.0	69.09	SAN JUAN, ARGENTINA
#487	3/26	9	30	18.74	66.363	-174.648	10	5.3	0.0	167.12	CHUKOTKA, RUSSIA
#488	3/26	10	35	32.64	39.171	42.33	5	5.2	0.0	108.21	EASTERN TURKEY
#489	3/26	11	21	56.97	-9.314	107.834	15.4	4.5	0.0	73.81	SOUTH OF JAVA, INDONESIA
#490	3/26	13	10	17.9	-38.577	175.686	184.6	4.8	0.0	67.76	NORTH ISLAND OF NEW ZEALAND
#491	3/26	13	48	44.42	-7.228	155.123	10	4.1	0.0	92.23	SOLOMON ISLANDS
#492	3/26	14	4	13.74	-44.527	-78.652	41.6	4.9	0.0	57.58	OFF THE COAST OF AISEN, CHILE
#493	3/26	16	58	10.63	-30.04	60.653	10	5.6	0.0	40.92	SOUTHWEST INDIAN RIDGE
#494	3/26	16	58	52.77	-17.357	167.263	10	4.5	0.0	86.17	VANUATU
#495	3/26	17	48	9.27	-35.689	-179.075	10	5.3	0.0	71.6	EAST OF THE NORTH ISLAND, NEW ZEALAND
#496	3/26	17	56	18.91	9.581	-104.373	10	5.2	0.0	116.03	NORTHERN EAST PACIFIC RISE
#497	3/26	17	58	25.76	10.001	-104.337	10	5.0	0.0	116.43	NORTHERN EAST PACIFIC RISE
#498	3/26	18	12	52.85	10.071	-104.16	10	6.0	0.0	116.46	NORTHERN EAST PACIFIC RISE
#499	3/26	21	2	24.21	-4.13	130.27	60	4.9	0.0	86.6	BANDA SEA
#500	3/26	22	21	7.22	4.035	126.369	70.9	4.8	0.0	92.82	KEPULAUAN TALAUD, INDONESIA
#501	3/26	23	41	57	-28.822	-68.056	113	4.1	0.0	69.02	LA RIOJA, ARGENTINA
#502	3/27	0	9	3.72	-35.65	-179.097	10	4.2	0.0	71.63	EAST OF THE NORTH ISLAND, NEW ZEALAND
#503	3/27	9	1	44.57	-5.753	146.732	89.3	4.8	0.0	90.85	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-504	3/27	11	0	44.5	39.859	142.017	15	6.1	0.0	131.32	NEAR THE EAST COAST OF HONSHU, JAPAN
#-505	3/27	13	58	24.49	-57.481	-25.018	35	4.7	0.0	29.36	SOUTH SANDWICH ISLANDS REGION
#-506	3/27	14	46	37.4	-19.534	-69.098	99.1	4.6	0.0	78.04	TARAPACA, CHILE
#-507	3/27	17	43	31.05	-5.076	153.533	84.1	4.9	0.0	93.76	NEW IRELAND REGION, PAPUA NEW GUINEA
#-508	3/27	23	40	12.6	26.087	87.777	28.8	5.0	0.0	101.45	NEPAL-INDIA BORDER REGION
#-509	3/28	8	25	51.35	-57.331	-140.014	10	5.5	0.0	53.66	PACIFIC-ANTARCTIC RIDGE
#-510	3/29	0	36	40.36	-40.957	44.605	10	5.3	0.0	28.21	SOUTHWEST INDIAN RIDGE
#-511	3/29	1	35	11.22	-18.135	-172.542	22.1	4.9	0.0	89.97	TONGA REGION
#-512	3/29	2	52	37.05	-6.029	130.088	35	4.8	0.0	84.76	BANDA SEA
#-513	3/29	15	14	5.05	-23.769	-177.433	249.4	4.9	0.0	83.54	SOUTH OF THE FIJI ISLANDS
#-514	3/30	5	15	56.46	-4.713	102.383	41.4	4.6	0.0	76.31	SOUTHERN SUMATRA, INDONESIA
#-515	3/30	6	19	33.17	-35.843	-101.463	10	5.0	0.0	71.17	SOUTHEAST OF EASTER ISLAND
#-516	3/30	8	55	52.03	-14.799	167.434	139.5	4.9	0.0	88.67	VANUATU
#-517	3/30	9	38	59.79	-21.177	-178.97	609.7	5.0	0.0	85.76	FIJI REGION
#-518	3/30	13	25	14.64	-18.324	-174.825	69.1	4.6	0.0	89.37	TONGA
#-519	3/30	19	51	5.98	-6.583	154.659	62.4	5.2	0.0	92.69	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#-520	3/30	22	2	11.96	4.616	95.115	59.3	5.2	0.0	82.88	NORTHERN SUMATRA, INDONESIA
#-521	3/30	22	41	36.57	-54.818	-29.064	35	4.9	0.0	32.84	SOUTH SANDWICH ISLANDS REGION
#-522	3/30	23	5	16.68	-5.845	147.748	52.1	4.8	0.0	91.11	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-523	3/31	9	4	39.27	-23.63	179.299	534.5	5.2	0.0	83.01	SOUTH OF THE FIJI ISLANDS
#-524	3/31	12	38	44.18	5.411	94.567	35	4.9	0.0	83.47	NORTHERN SUMATRA, INDONESIA
#-525	3/31	13	1	50.21	-31.21	-179.012	110.7	4.5	0.0	75.97	KERMADEC ISLANDS REGION
#-526	3/31	17	6	48.94	-20.326	-175.234	142.6	5.1	0.0	87.33	TONGA
#-527	3/31	19	0	16.22	-6.528	153.222	10	4.3	0.0	92.28	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-528	4/1	0	6	36.82	-7.027	155.061	46.8	4.0	0.0	92.4	SOLOMON ISLANDS
#-529	4/1	4	6	10.97	-36.568	177.224	2.7	4.8	0.0	70.02	OFF EAST COAST OF THE NORTH ISLAND, N.Z.
#-530	4/1	7	31	36.98	-23.045	-69.025	94.5	4.9	0.0	74.73	ANTOFAGASTA, CHILE
#-531	4/1	7	41	13.74	-19.988	-174.049	35	4.9	0.0	87.88	TONGA
#-532	4/1	13	14	32.67	-35.191	-14.877	10	5.4	0.0	44.72	TRISTAN DA CUNHA REGION
#-533	4/1	14	4	24.91	37.116	140.957	48	5.7	0.0	128.5	EASTERN HONSHU, JAPAN
#-534	4/1	19	9	57	-31.908	-71.322	65	4.9	0.0	67.18	COQUIMBO, CHILE
#-535	4/1	21	44	4.13	-4.516	153.427	117.9	5.7	0.0	94.25	NEW IRELAND REGION, PAPUA NEW GUINEA
#-536	4/1	22	23	48	16.46	-98.54	20	5.3	0.0	121.2	GUERRERO, MEXICO
#-537	4/2	6	37	1	-29.089	-71.155	67.7	4.5	0.0	69.76	COQUIMBO, CHILE
#-538	4/2	8	17	6.95	-16.935	-173.514	42.7	5.4	0.0	90.97	TONGA
#-539	4/2	18	15	39.63	-48.845	121.079	10	4.4	0.0	42.65	WESTERN INDIAN-ANTARCTIC RIDGE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-540	4/2	22	47	46	-22.676	-66.339	249	4.2	0.0	74.19	JUJUY, ARGENTINA
#-541	4/2	23	55	0.12	16.281	-98.572	10	5.0	0.0	121.04	OFFSHORE GUERRERO, MEXICO
#-542	4/3	2	11	3	-33.847	-72.757	31.6	5.0	0.0	65.81	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#-543	4/3	3	8	8.02	-5.18	-80.583	63.9	5.4	0.0	95.27	NEAR THE COAST OF NORTHERN PERU
#-544	4/3	7	25	8	-19.638	-69.093	117	5.2	0.0	77.94	TARAPACA, CHILE
#-545	4/3	10	42	34.27	-4.397	153.442	104	5.3	0.0	94.37	NEW IRELAND REGION, PAPUA NEW GUINEA
#-546	4/3	11	26	59.61	-7.035	125.367	472.8	5.0	0.0	82.13	KEPULAUAN BARAT DAYA, INDONESIA
#-547	4/3	13	27	5.39	-54.1	-2.526	10	4.2	0.0	24	SOUTHERN MID-ATLANTIC RIDGE
#-548	4/3	15	21	7.26	-24.836	-178.634	350.8	4.7	0.0	82.26	SOUTH OF THE FIJI ISLANDS
#-549	4/3	23	42	19.37	-5.654	133.876	10	5.4	0.0	86.46	KEPULAUAN KAI, INDONESIA
#-550	4/4	6	52	40.9	-5.645	103.784	65.7	4.8	0.0	75.89	SOUTHERN SUMATRA, INDONESIA
#-551	4/4	16	20	54.81	-3.131	139.789	130	4.8	0.0	90.91	PAPUA, INDONESIA
#-552	4/4	22	41	23.99	-16.358	177.858	35	4.8	0.0	89.76	FIJI
#-553	4/5	23	5	0.96	-44.156	169.707	5	4.5	0.0	61.13	SOUTH ISLAND OF NEW ZEALAND
#-554	4/6	1	52	44.92	-37.949	176.018	207.9	4.6	0.0	68.44	NORTH ISLAND OF NEW ZEALAND
#-555	4/6	6	28	40.71	2.005	97.879	59.1	4.9	0.0	81.23	NORTHERN SUMATRA, INDONESIA
#-556	4/6	12	11	41.4	-28.73	-178.234	111.8	4.6	0.0	78.54	KERMADEC ISLANDS REGION
#-557	4/6	13	25	4.84	-38.226	-75.019	35	4.9	0.0	62.41	OFF THE COAST OF ARAUCANIA, CHILE
#-558	4/6	16	15	58.01	-4.551	153.457	108.5	6.1	0.0	94.23	NEW IRELAND REGION, PAPUA NEW GUINEA
#-559	4/6	17	44	43.59	-22.75	-12.764	10	4.9	0.0	55.57	SOUTHERN MID-ATLANTIC RIDGE
#-560	4/6	19	24	13.94	-3.345	100.426	13.6	5.5	0.0	76.96	KEPULAUAN MENTAWAI REGION, INDONESIA
#-561	4/6	19	26	15.43	-3.346	100.452	10	5.1	0.0	76.97	KEPULAUAN MENTAWAI REGION, INDONESIA
#-562	4/6	22	29	29.77	-6.606	154.644	94.7	4.3	0.0	92.67	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#-563	4/7	8	44	49.05	-20.856	-178.19	560.2	4.8	0.0	86.23	FIJI REGION
#-564	4/7	11	58	4.8	-6.746	149.555	20	5.3	0.0	90.87	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-565	4/7	16	40	24	-19.166	-70.257	18	4.2	0.0	78.76	TARAPACA, CHILE
#-566	4/7	19	13	28.93	-37.408	-73.87	43.8	4.4	0.0	62.84	OFFSHORE BIO-BIO, CHILE
#-567	4/7	20	9	40.55	-6.057	130.684	79.7	5.2	0.0	84.95	BANDA SEA
#-568	4/7	20	37	51.16	1.053	-28.091	10	5.0	0.0	82.98	CENTRAL MID-ATLANTIC RIDGE
#-569	4/7	23	54	42.59	-3.834	-81.215	42.3	4.2	0.0	96.75	NEAR THE COAST OF NORTHERN PERU
#-570	4/8	10	37	31.27	4.745	127.603	55.8	4.8	0.0	93.93	KEPULAUAN TALAUD, INDONESIA
#-571	4/8	12	57	36.72	0.81	96.835	11.2	4.4	0.0	79.77	NIAS REGION, INDONESIA
#-572	4/8	15	11	48.53	5.096	94.216	49.2	4.5	0.0	83.07	NORTHERN SUMATRA, INDONESIA
#-573	4/8	16	20	37.29	-5.839	133.725	10	4.1	0.0	86.23	KEPULAUAN KAI, INDONESIA
#-574	4/9	3	54	32.66	5.716	124.98	66.2	4.1	0.0	93.9	MINDANAO, PHILIPPINES
#-575	4/9	5	16	11.71	-0.817	131.44	35	4.2	0.0	90.11	NEAR THE NORTH COAST OF PAPUA, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)		Dep (km)	Magnitude Mb Ms		Epicentral distance (deg)	Region
		h	m	s		(deg)	(deg)		(km)	Mb		
#576	4/9	6	1	4.85	-15.506	167.526	82.2	4.8	0.0	88.02	VANUATU	
#577	4/9	7	2	45.16	-4.621	153.813	102.6	4.7	0.0	94.28	NEW IRELAND REGION, PAPUA NEW GUINEA	
#578	4/9	8	38	38.76	-4.211	129.562	35	4.2	0.0	86.27	BANDA SEA	
#579	4/9	11	54	43.97	-25.634	-177.072	133.1	4.5	0.0	81.78	SOUTH OF THE FIJI ISLANDS	
#580	4/9	21	25	43.48	-37.921	179.062	38.6	4.4	0.0	69.08	OFF EAST COAST OF THE NORTH ISLAND, N.Z.	
#581	4/9	23	36	54	-36.859	-73.591	18.2	4.1	0.0	63.26	OFFSHORE BIO-BIO, CHILE	
#582	4/10	1	42	34.77	4.225	67.557	10	4.8	0.0	75.82	CARLSBERG RIDGE	
#583	4/10	1	50	22.6	3.342	96.818	75.3	4.7	0.0	82.18	NORTHERN SUMATRA, INDONESIA	
#584	4/10	3	9	8.27	-58.196	-23.075	35	4.4	0.0	28.13	SOUTH SANDWICH ISLANDS REGION	
#585	4/10	5	9	8.41	-1.261	-13.972	10	5.8	0.0	76.34	NORTH OF ASCENSION ISLAND	
#586	4/10	11	54	9.94	1.455	97.077	33.7	4.5	0.0	80.46	NIAS REGION, INDONESIA	
#587	4/10	13	0	41.13	-0.262	125.267	49.1	4.5	0.0	88.42	MOLUCCA SEA	
#588	4/10	14	56	23.29	-1.766	-16.447	10	4.9	0.0	76.6	NORTH OF ASCENSION ISLAND	
#589	4/10	19	42	39.32	-38.48	176.208	104.7	4.7	0.0	67.96	NORTH ISLAND OF NEW ZEALAND	
#590	4/11	4	53	26.38	-16.856	-14.397	9.2	5.2	0.0	61.63	SOUTHERN MID-ATLANTIC RIDGE	
#591	4/11	5	44	41.52	-16.877	-14.397	10	4.9	0.0	61.61	SOUTHERN MID-ATLANTIC RIDGE	
#592	4/11	6	14	32.45	6.986	125.254	35	4.7	0.0	95.18	MINDANAO, PHILIPPINES	
#593	4/11	6	54	35.52	-22.753	-66.348	199.8	4.4	0.0	74.12	JUJUY, ARGENTINA	
#594	4/11	7	41	46.76	-6.236	130.261	145.6	5.0	0.0	84.63	BANDA SEA	
#595	4/11	8	38	36.72	2.327	93.063	20	8.6	0.0	80.08	OFF THE WEST COAST OF NORTHERN SUMATRA	
#596	4/11	10	8	28.97	2.594	90.062	10	5.1	0.0	79.47	OFF THE WEST COAST OF NORTHERN SUMATRA	
#597	4/11	10	21	15.38	2.822	92.482	13.9	5.3	0.0	80.39	OFF THE WEST COAST OF NORTHERN SUMATRA	
#598	4/11	10	25	2.27	0.564	91.882	10	4.9	0.0	78.05	NORTH INDIAN OCEAN	
#599	4/11	10	36	54.28	1.167	91.87	10	5.4	0.0	78.63	NORTH INDIAN OCEAN	
#600	4/11	10	40	20.15	1.044	92.037	10	4.3	0.0	78.56	OFF THE WEST COAST OF NORTHERN SUMATRA	
#601	4/11	10	43	10.85	0.802	92.463	25.1	8.2	0.0	78.45	OFF THE WEST COAST OF NORTHERN SUMATRA	
#602	4/11	10	56	26.05	0.77	92.472	10	4.8	0.0	78.42	OFF THE WEST COAST OF NORTHERN SUMATRA	
#603	4/11	11	34	1.33	0.734	92.855	10	5.4	0.0	78.5	OFF THE WEST COAST OF NORTHERN SUMATRA	
#604	4/11	11	41	26.3	2.675	89.552	10	4.5	0.0	79.41	NORTH INDIAN OCEAN	
#605	4/11	11	45	28.47	0.242	92.137	10	4.7	0.0	77.82	OFF THE WEST COAST OF NORTHERN SUMATRA	
#606	4/11	11	52	28.64	1.084	91.958	10	5.3	0.0	78.57	NORTH INDIAN OCEAN	
#607	4/11	11	53	36.16	2.913	89.544	10	5.7	0.0	79.63	NORTH INDIAN OCEAN	
#608	4/11	11	59	24.54	1.938	92.16	10	4.5	0.0	79.45	OFF THE WEST COAST OF NORTHERN SUMATRA	
#609	4/11	12	0	35.28	2.235	92.493	10	5.1	0.0	79.83	OFF THE WEST COAST OF NORTHERN SUMATRA	
#610	4/11	12	10	52.77	1.347	92.631	10	5.1	0.0	79.02	OFF THE WEST COAST OF NORTHERN SUMATRA	
#611	4/11	12	21	59.15	3.163	92.797	15.8	5.1	0.0	80.81	OFF THE WEST COAST OF NORTHERN SUMATRA	

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-612	4/11	12	37	48.38	2.583	92.626	10	5.1	0.0	80.2	OFF THE WEST COAST OF NORTHERN SUMATRA
#-613	4/11	12	53	10.23	1.299	91.953	10	4.6	0.0	78.78	NORTH INDIAN OCEAN
#-614	4/11	13	15	30.07	4.601	90.78	17.3	5.0	0.0	81.6	OFF THE WEST COAST OF NORTHERN SUMATRA
#-615	4/11	13	19	37.38	2.533	90.201	10	4.9	0.0	79.45	OFF THE WEST COAST OF NORTHERN SUMATRA
#-616	4/11	13	58	4.72	1.495	90.854	5	5.5	0.0	78.65	NORTH INDIAN OCEAN
#-617	4/11	14	34	17.96	1.477	90.833	10	5.3	0.0	78.62	NORTH INDIAN OCEAN
#-618	4/11	14	35	33.09	3.377	93.186	10	4.3	0.0	81.12	OFF THE WEST COAST OF NORTHERN SUMATRA
#-619	4/11	14	54	28.46	1.276	91.9	10	5.3	0.0	78.74	NORTH INDIAN OCEAN
#-620	4/11	15	6	39.81	1.269	92.311	10	5.0	0.0	78.85	OFF THE WEST COAST OF NORTHERN SUMATRA
#-621	4/11	15	9	25.71	2.674	90.164	26.3	5.1	0.0	79.58	OFF THE WEST COAST OF NORTHERN SUMATRA
#-622	4/11	15	41	37.01	0.894	92.375	10.5	4.8	0.0	78.51	OFF THE WEST COAST OF NORTHERN SUMATRA
#-623	4/11	15	41	50.91	0.952	92.41	10	4.3	0.0	78.58	OFF THE WEST COAST OF NORTHERN SUMATRA
#-624	4/11	15	57	15.12	2.075	92.368	10	4.7	0.0	79.64	OFF THE WEST COAST OF NORTHERN SUMATRA
#-625	4/11	15	57	29.1	2.085	92.619	10	4.3	0.0	79.72	OFF THE WEST COAST OF NORTHERN SUMATRA
#-626	4/11	16	9	37.23	1.156	89.915	10	4.3	0.0	78.05	NORTH INDIAN OCEAN
#-627	4/11	16	13	37.66	0.915	92.669	10	4.8	0.0	78.62	OFF THE WEST COAST OF NORTHERN SUMATRA
#-628	4/11	16	56	19.87	2.767	91.431	10	4.3	0.0	80.03	OFF THE WEST COAST OF NORTHERN SUMATRA
#-629	4/11	16	58	9.36	2.668	90.249	10	4.9	0.0	79.6	OFF THE WEST COAST OF NORTHERN SUMATRA
#-630	4/11	17	13	6.15	2.513	90.475	10	4.5	0.0	79.51	OFF THE WEST COAST OF NORTHERN SUMATRA
#-631	4/11	18	54	45.16	2.475	92.694	10	5.4	0.0	80.12	OFF THE WEST COAST OF NORTHERN SUMATRA
#-632	4/11	19	4	20.01	1.19	92.092	14.5	5.5	0.0	78.71	OFF THE WEST COAST OF NORTHERN SUMATRA
#-633	4/11	19	14	28.65	1.173	92.199	10	4.8	0.0	78.73	OFF THE WEST COAST OF NORTHERN SUMATRA
#-634	4/11	21	2	39.41	0.306	91.662	10	5.2	0.0	77.74	NORTH INDIAN OCEAN
#-635	4/11	21	9	43.27	1.828	89.645	10	4.5	0.0	78.62	NORTH INDIAN OCEAN
#-636	4/11	22	35	33.7	2.534	90.195	10	4.9	0.0	79.45	OFF THE WEST COAST OF NORTHERN SUMATRA
#-637	4/11	22	51	57.33	2.865	89.556	6.6	5.4	0.0	79.59	NORTH INDIAN OCEAN
#-638	4/11	22	55	10.25	18.229	-102.689	20	6.5	0.0	123.99	MICHOACAN, MEXICO
#-639	4/11	23	17	53.37	-0.309	125.337	53.5	4.0	0.0	88.4	MOLUCCA SEA
#-640	4/11	23	56	32.93	1.841	89.685	10	5.8	0.0	78.64	NORTH INDIAN OCEAN
#-641	4/12	0	1	15.34	0.252	92.158	10	5.1	0.0	77.83	OFF THE WEST COAST OF NORTHERN SUMATRA
#-642	4/12	1	24	8.84	1.333	91.555	10	4.9	0.0	78.69	NORTH INDIAN OCEAN
#-643	4/12	1	54	42.76	1.152	91.972	10	4.9	0.0	78.64	NORTH INDIAN OCEAN
#-644	4/12	2	15	42.71	2.465	90.165	10	4.8	0.0	79.38	OFF THE WEST COAST OF NORTHERN SUMATRA
#-645	4/12	3	28	18.45	1.435	90.869	10	4.6	0.0	78.59	NORTH INDIAN OCEAN
#-646	4/12	7	1	44	1.983	93.9	10	5.0	0.0	80	OFF THE WEST COAST OF NORTHERN SUMATRA
#-647	4/12	7	6	0.57	28.837	-113.027	9	6.0	0.0	136.68	GULF OF CALIFORNIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-648	4/12	7	15	48.5	28.696	-113.104	13	7.0	0.0	136.55	GULF OF CALIFORNIA
#-649	4/12	10	18	56.51	2.708	92.458	10	4.7	0.0	80.27	OFF THE WEST COAST OF NORTHERN SUMATRA
#-650	4/12	13	9	45.56	2.396	93.401	10	5.2	0.0	80.25	OFF THE WEST COAST OF NORTHERN SUMATRA
#-651	4/12	16	7	51.34	0.897	92.766	10	4.9	0.0	78.63	OFF THE WEST COAST OF NORTHERN SUMATRA
#-652	4/12	18	26	26.91	2.453	92.862	10	4.7	0.0	80.15	OFF THE WEST COAST OF NORTHERN SUMATRA
#-653	4/12	20	8	32.67	2.839	91.361	10	4.5	0.0	80.08	OFF THE WEST COAST OF NORTHERN SUMATRA
#-654	4/12	20	21	52.91	3.753	92.746	10	5.3	0.0	81.35	OFF THE WEST COAST OF NORTHERN SUMATRA
#-655	4/12	20	27	14.35	3.321	92.781	10	4.8	0.0	80.95	OFF THE WEST COAST OF NORTHERN SUMATRA
#-656	4/12	20	44	27.74	3.751	92.619	10	4.8	0.0	81.32	OFF THE WEST COAST OF NORTHERN SUMATRA
#-657	4/12	23	15	47.48	-44.491	94.209	10	4.8	0.0	36.86	SOUTHEAST INDIAN RIDGE
#-658	4/13	2	49	3.01	0.902	95.549	10	4.0	0.0	79.47	OFF THE WEST COAST OF NORTHERN SUMATRA
#-659	4/13	3	12	13.25	2.028	93.168	10	4.0	0.0	79.83	OFF THE WEST COAST OF NORTHERN SUMATRA
#-660	4/13	4	15	10.45	-18.25	168.086	40.7	5.0	0.0	85.53	VANUATU
#-661	4/13	4	49	48.63	1.551	91.043	10	4.7	0.0	78.75	NORTH INDIAN OCEAN
#-662	4/13	5	8	14.01	1.214	91.588	23.9	4.8	0.0	78.59	NORTH INDIAN OCEAN
#-663	4/13	5	40	2.98	1.609	91.75	10	4.6	0.0	79.01	NORTH INDIAN OCEAN
#-664	4/13	6	13	16	-35.21	-72.02	40.3	4.7	0.0	64.32	MAULE, CHILE
#-665	4/13	10	10	1.2	36.988	141.152	11	5.7	0.0	128.46	NEAR THE EAST COAST OF HONSHU, JAPAN
#-666	4/13	10	10	4.62	16.236	-98.138	15.1	5.2	0.0	120.88	OAXACA, MEXICO
#-667	4/13	12	12	5.66	37.022	141.151	28.1	5.1	0.0	128.49	NEAR THE EAST COAST OF HONSHU, JAPAN
#-668	4/13	12	29	57.07	-3.64	149.833	42.2	4.5	0.0	93.89	BISMARCK SEA
#-669	4/13	14	29	2.17	2.223	90.265	10	4.7	0.0	79.18	OFF THE WEST COAST OF NORTHERN SUMATRA
#-670	4/13	15	52	47.89	-19.153	169.51	267.8	4.5	0.0	85.04	VANUATU
#-671	4/13	16	42	34.76	-20.399	-177.515	494.7	4.8	0.0	86.81	FIJI REGION
#-672	4/13	18	3	24.67	2.485	128.732	10	4.7	0.0	92.22	HALMAHERA, INDONESIA
#-673	4/13	18	51	3.87	-16.488	177.65	35	4.7	0.0	89.59	FIJI
#-674	4/13	19	9	30.45	-3.773	149.915	10	4.8	0.0	93.79	BISMARCK SEA
#-675	4/13	20	12	48.11	-35.157	-15.815	11.3	4.8	0.0	45.06	TRISTAN DA CUNHA REGION
#-676	4/14	2	3	56.75	0.455	92.243	10	4.5	0.0	78.05	OFF THE WEST COAST OF NORTHERN SUMATRA
#-677	4/14	6	48	29.32	3.814	92.672	10	4.6	0.0	81.39	OFF THE WEST COAST OF NORTHERN SUMATRA
#-678	4/14	8	15	56.68	3.473	92.768	10	4.7	0.0	81.09	OFF THE WEST COAST OF NORTHERN SUMATRA
#-679	4/14	10	56	19.38	-57.679	-65.308	15	6.2	0.0	42.13	DRAKE PASSAGE
#-680	4/14	12	18	25.93	2.589	90.347	10	5.1	0.0	79.55	OFF THE WEST COAST OF NORTHERN SUMATRA
#-681	4/14	15	13	14.14	49.38	155.651	90.3	5.6	0.0	144.41	KURIL ISLANDS
#-682	4/14	15	21	56.33	0.244	92.141	22.9	5.4	0.0	77.82	OFF THE WEST COAST OF NORTHERN SUMATRA
#-683	4/14	18	59	7.35	2.593	89.857	10	4.6	0.0	79.41	NORTH INDIAN OCEAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)		Mb	Ms		
#-684	4/14	19	26	43.25	-6.81	105.457	62.7	5.8	0.0	75.35	SUNDA STRAIT, INDONESIA
#-685	4/14	19	31	50	-6.777	105.444	68.1	5.3	0.0	75.38	SUNDA STRAIT, INDONESIA
#-686	4/14	20	53	55.91	-56.845	-25.209	23.3	5.3	0.0	29.91	SOUTH SANDWICH ISLANDS REGION
#-687	4/14	21	10	34.64	2.835	94.079	10	5.0	0.0	80.87	OFF THE WEST COAST OF NORTHERN SUMATRA
#-688	4/14	22	5	26.43	-18.972	168.741	11	6.2	0.0	85.01	VANUATU
#-689	4/14	22	24	43.36	-18.93	168.743	10	4.7	0.0	85.05	VANUATU
#-690	4/14	23	49	24.84	-36.3	-97.183	10	5.0	0.0	69.86	WEST CHILE RISE
#-691	4/15	5	57	40.06	2.581	90.269	25	6.2	0.0	79.52	OFF THE WEST COAST OF NORTHERN SUMATRA
#-692	4/15	14	15	56.14	-58.355	-14.554	21.3	4.6	0.0	24.98	EAST OF THE SOUTH SANDWICH ISLANDS
#-693	4/15	14	52	6.43	-14.962	-173.74	10	4.2	0.0	92.87	SAMOA ISLANDS REGION
#-694	4/16	2	17	50.34	-2.64	121.855	13	5.8	0.0	84.98	SULAWESI, INDONESIA
#-695	4/16	4	54	50.7	-4.489	153.623	119.1	4.5	0.0	94.34	NEW IRELAND REGION, PAPUA NEW GUINEA
#-696	4/16	11	23	43.38	36.632	21.475	29	5.8	0.0	106.44	SOUTHERN GREECE
#-697	4/17	3	50	15.61	-32.625	-71.365	29	6.7	0.0	66.53	VALPARAISO, CHILE
#-698	4/17	7	13	49	-5.462	147.117	198	6.8	0.0	91.26	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-699	4/17	7	50	41.49	-0.339	132.361	35	4.6	0.0	90.88	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-700	4/17	7	58	15.96	3.747	92.7	10	4.9	0.0	81.34	OFF THE WEST COAST OF NORTHERN SUMATRA
#-701	4/17	8	51	24.92	-31.894	-177.236	10	5.6	0.0	75.64	KERMADEC ISLANDS REGION
#-702	4/17	12	26	34.16	-15.19	-74.341	72.4	4.4	0.0	83.82	NEAR THE COAST OF SOUTHERN PERU
#-703	4/17	17	6	32.67	2.061	92.426	13.8	4.8	0.0	79.64	OFF THE WEST COAST OF NORTHERN SUMATRA
#-704	4/17	18	21	42.99	-5.256	150.103	265.2	4.7	0.0	92.46	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-705	4/17	19	3	56.37	-59.016	-16.612	12	6.2	0.0	25.24	EAST OF THE SOUTH SANDWICH ISLANDS
#-706	4/17	19	23	39.69	-2.732	139.411	35	4.2	0.0	91.15	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-707	4/17	19	45	36.76	2.584	92.61	10	5.0	0.0	80.2	OFF THE WEST COAST OF NORTHERN SUMATRA
#-708	4/18	5	37	55.94	28.689	138.772	493.8	5.5	0.0	120.1	BONIN ISLANDS, JAPAN REGION
#-709	4/18	14	54	47.56	-2.885	141.441	35.9	4.7	0.0	91.72	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#-710	4/18	16	8	23.98	1.169	92.898	10	4.7	0.0	78.93	OFF THE WEST COAST OF NORTHERN SUMATRA
#-711	4/18	17	50	27.05	2.619	90.317	15.4	4.7	0.0	79.57	OFF THE WEST COAST OF NORTHERN SUMATRA
#-712	4/18	19	7	58.02	3.586	92.766	10	5.0	0.0	81.2	OFF THE WEST COAST OF NORTHERN SUMATRA
#-713	4/18	19	52	38.96	-0.501	131.909	29.2	5.3	0.0	90.57	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-714	4/19	1	14	6	-30.868	-71.188	65.1	4.7	0.0	68.11	COQUIMBO, CHILE
#-715	4/19	1	58	8.6	24.13	121.67	29.1	5.0	0.0	109.87	TAIWAN
#-716	4/19	3	33	27.36	36.976	141.181	31.9	5.2	0.0	128.46	NEAR THE EAST COAST OF HONSHU, JAPAN
#-717	4/19	10	55	32.18	1.986	93.525	10	4.7	0.0	79.89	OFF THE WEST COAST OF NORTHERN SUMATRA
#-718	4/19	13	49	9.35	-8.89	106.072	35	4.0	0.0	73.61	SOUTH OF JAVA, INDONESIA
#-719	4/19	17	23	39.33	1.199	126.434	38.5	5.3	0.0	90.2	MOLUCCA SEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-720	4/19	23	2	45.3	-14.949	-71.721	110.2	4.9	0.0	83.2	CENTRAL PERU
#-721	4/19	23	40	11.35	-4.853	153.969	35	4.2	0.0	94.11	NEW IRELAND REGION, PAPUA NEW GUINEA
#-722	4/20	3	37	23	-34.323	-70.309	125.6	4.0	0.0	64.62	LIBERTADOR O'HIGGINS, CHILE
#-723	4/20	7	51	23.75	2.564	91.901	10	5.0	0.0	79.97	OFF THE WEST COAST OF NORTHERN SUMATRA
#-724	4/20	10	17	11.94	2.025	92.334	10	5.0	0.0	79.58	OFF THE WEST COAST OF NORTHERN SUMATRA
#-725	4/20	18	2	27.76	-55.256	158.668	10	4.8	0.0	48.23	MACQUARIE ISLAND REGION
#-726	4/20	18	58	5.45	1.346	91.55	10	4.6	0.0	78.7	NORTH INDIAN OCEAN
#-727	4/20	19	56	2.84	13.032	57.819	10	4.4	0.0	83.12	OWEN FRACTURE ZONE REGION
#-728	4/20	20	18	34.76	25.447	142.688	45.9	5.0	0.0	118.53	VOLCANO ISLANDS, JAPAN REGION
#-729	4/20	22	19	46.81	3.256	93.853	24.6	5.7	0.0	81.2	OFF THE WEST COAST OF NORTHERN SUMATRA
#-730	4/20	22	28	59.18	3.269	93.821	21.9	5.9	0.0	81.21	OFF THE WEST COAST OF NORTHERN SUMATRA
#-731	4/21	1	16	52.74	-1.617	134.276	16	6.7	0.0	90.37	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-732	4/21	1	19	28.46	-35.229	-16.181	10	5.7	0.0	45.12	SOUTHERN MID-ATLANTIC RIDGE
#-733	4/21	1	25	13.2	-1.635	134.197	17.4	6.0	0.0	90.33	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-734	4/21	1	31	28.28	-1.623	134.406	13.2	4.8	0.0	90.41	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-735	4/21	2	1	17.7	-1.694	134.631	10	4.6	0.0	90.43	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-736	4/21	7	12	14.34	-29.664	-176.207	6.6	4.9	0.0	78.01	KERMADEC ISLANDS REGION
#-737	4/21	11	4	30.4	3.268	93.723	10	5.2	0.0	81.18	OFF THE WEST COAST OF NORTHERN SUMATRA
#-738	4/21	11	36	5.37	-14.82	-71.481	111.2	5.3	0.0	83.25	CENTRAL PERU
#-739	4/21	11	53	55.01	3.344	92.997	10	4.6	0.0	81.04	OFF THE WEST COAST OF NORTHERN SUMATRA
#-740	4/21	12	36	11.02	-21.825	170.183	42.5	5.2	0.0	82.64	SOUTHEAST OF THE LOYALTY ISLANDS
#-741	4/21	13	23	39.58	1.696	120.974	55.9	4.6	0.0	88.72	MINAHASA, SULAWESI, INDONESIA
#-742	4/21	13	41	4.47	-38.727	176.301	81	4.3	0.0	67.74	NORTH ISLAND OF NEW ZEALAND
#-743	4/21	21	51	17.05	-28.427	-176.6	35	4.4	0.0	79.15	KERMADEC ISLANDS REGION
#-744	4/22	3	17	28.98	1.379	91.745	6.1	4.9	0.0	78.79	NORTH INDIAN OCEAN
#-745	4/22	4	8	34.55	-21.006	-68.213	125.4	4.4	0.0	76.37	POTOSI, BOLIVIA
#-746	4/22	9	19	0.15	-49.573	-8.046	10	4.8	0.0	29.66	SOUTHERN MID-ATLANTIC RIDGE
#-747	4/22	12	20	46.12	-52.753	140.329	9.2	5.2	0.0	45.52	WEST OF MACQUARIE ISLAND
#-748	4/22	13	4	15.14	-5.911	105.504	28.9	4.8	0.0	76.22	SUNDA STRAIT, INDONESIA
#-749	4/22	13	11	19.7	-52.867	140.29	12.2	5.1	5.3	45.41	WEST OF MACQUARIE ISLAND
#-750	4/22	13	50	40.75	1.148	91.898	11.2	4.7	0.0	78.62	NORTH INDIAN OCEAN
#-751	4/22	15	37	34.57	-6.472	131.691	53.5	4.7	0.0	84.92	KEPULAUAN TANIMBAR REGION, INDONESIA
#-752	4/22	23	5	10.16	7.801	93.946	45.6	4.8	0.0	85.57	NICOBAR ISLANDS, INDIA REGION
#-753	4/23	0	12	26.31	2.693	89.632	9.6	4.5	0.0	79.45	NORTH INDIAN OCEAN
#-754	4/23	2	14	18.82	-24.008	-175.993	10	5.1	0.0	83.58	SOUTH OF TONGA
#-755	4/23	2	57	50.79	-55.517	-27.674	25.5	5.0	0.0	31.8	SOUTH SANDWICH ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-756	4/23	3	8	3.9	-17.966	-175.17	213.2	5.0	0.0	89.65	TONGA
#-757	4/23	7	21	58.08	-23.917	-175.899	45	4.8	0.0	83.69	TONGA REGION
#-758	4/23	10	57	19.65	-24.007	-175.934	20.1	5.0	0.0	83.59	SOUTH OF TONGA
#-759	4/23	14	54	54.62	-7.22	129.226	127.6	5.2	0.0	83.34	KEPULAUAN BABAR, INDONESIA
#-760	4/23	17	36	21.17	-28.556	-177.412	114	5.8	0.0	78.87	KERMADEC ISLANDS REGION
#-761	4/23	20	1	55.08	3.892	92.554	10	4.3	0.0	81.43	OFF THE WEST COAST OF NORTHERN SUMATRA
#-762	4/23	21	21	44.86	0.374	125.293	48	5.7	0.0	89.02	MOLUCCA SEA
#-763	4/24	1	5	47.81	-32.704	-178.561	11.6	4.9	0.0	74.6	SOUTH OF THE KERMADEC ISLANDS
#-764	4/24	9	50	58.39	5.649	61.511	10	5.6	0.0	76.26	CARLSBERG RIDGE
#-765	4/24	14	57	10.11	8.868	93.949	14.1	5.5	5.6	86.6	NICOBAR ISLANDS, INDIA REGION
#-766	4/24	15	1	48.22	-18.421	-177.899	513.6	4.5	0.0	88.67	FIJI REGION
#-767	4/24	15	2	21.17	9.032	93.987	10	4.6	0.0	86.76	NICOBAR ISLANDS, INDIA REGION
#-768	4/24	15	2	33.35	-22.239	-70.238	10	4.6	0.0	75.87	OFFSHORE ANTOFAGASTA, CHILE
#-769	4/24	15	15	38.16	-24.228	-175.95	10	5.3	5.6	83.37	SOUTH OF TONGA
#-770	4/24	19	14	40.46	8.855	93.931	15.3	4.8	0.0	86.58	NICOBAR ISLANDS, INDIA REGION
#-771	4/24	21	37	33.38	-17.727	-178.653	547.7	4.9	0.0	89.19	FIJI REGION
#-772	4/24	23	48	49.79	-1.73	134.43	5.5	4.6	0.0	90.32	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-773	4/25	5	2	0.58	-44.721	-79.388	35	4.9	0.0	57.59	OFF THE COAST OF AISEN, CHILE
#-774	4/25	7	42	23.38	9.011	93.945	9	5.7	5.7	86.73	NICOBAR ISLANDS, INDIA REGION
#-775	4/25	7	53	21.27	8.945	93.906	11.6	5.3	0.0	86.66	NICOBAR ISLANDS, INDIA REGION
#-776	4/25	11	52	51.54	8.81	93.869	10	4.3	0.0	86.52	NICOBAR ISLANDS, INDIA REGION
#-777	4/25	13	27	20.98	-12.771	-14.631	10	5.2	0.0	65.57	SOUTHERN MID-ATLANTIC RIDGE
#-778	4/25	19	53	54.08	-3.542	87.319	10	4.6	0.0	72.81	SOUTH INDIAN OCEAN
#-779	4/25	20	17	55.08	-4.114	151.694	254.1	5.0	0.0	94.06	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-780	4/25	23	43	17.96	-23.83	-176.013	88.8	4.8	0.0	83.75	SOUTH OF THE FIJI ISLANDS
#-781	4/26	6	38	32.26	-18.802	-177.879	615.9	5.0	0.0	88.3	FIJI REGION
#-782	4/26	19	21	42.61	2.696	94.459	7.9	5.5	5.4	80.85	OFF THE WEST COAST OF NORTHERN SUMATRA
#-783	4/26	20	12	10.05	2.57	94.468	17.4	4.1	0.0	80.73	OFF THE WEST COAST OF NORTHERN SUMATRA
#-784	4/27	0	32	47.89	2.003	90.681	10	4.2	0.0	79.08	OFF THE WEST COAST OF NORTHERN SUMATRA
#-785	4/27	1	40	53.83	2.197	89.762	22.7	4.8	0.0	79.01	NORTH INDIAN OCEAN
#-786	4/27	7	49	44.36	-4.804	145.037	128.6	4.3	0.0	91.17	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#-787	4/27	8	9	33.99	-9.183	107.315	51.1	4.3	0.0	73.76	SOUTH OF JAVA, INDONESIA
#-788	4/27	10	29	37.98	-2.662	121.913	10	5.1	0.0	84.98	SULAWESI, INDONESIA
#-789	4/27	12	20	6.31	-23.899	-66.677	197.2	4.2	0.0	73.16	JUJUY, ARGENTINA
#-790	4/27	15	22	58.64	-14.494	166.954	50.5	4.6	0.0	88.83	VANUATU
#-791	4/27	21	36	7.98	-17.214	-66.092	45.1	4.0	0.0	79.21	COCHABAMBA, BOLIVIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)		Dep (km)	Magnitude Mb Ms		Epicentral distance (deg)	Region
		h	m	s								
#-792	4/27	21	51	22.94	-41.09	43.47	10	4.9	0.0	28.02	PRINCE EDWARD ISLANDS REGION	
#-793	4/28	10	8	8.09	-18.685	-174.705	134.7	6.4	0.0	89.04	TONGA	
#-794	4/28	18	0	32.88	-3.338	100.439	7.4	5.3	5.0	76.97	KEPULAUAN MENTAWAI REGION, INDONESIA	
#-795	4/28	19	21	3.11	-5.328	152.11	35	5.3	5.2	93.05	NEW BRITAIN REGION, PAPUA NEW GUINEA	
#-796	4/29	1	57	51.9	-3.059	136.109	18.4	5.2	0.0	89.68	PAPUA, INDONESIA	
#-797	4/29	3	0	43.19	1.911	93.73	10	4.9	0.0	79.88	OFF THE WEST COAST OF NORTHERN SUMATRA	
#-798	4/29	3	52	25.59	1.903	92.38	10	4.8	0.0	79.48	OFF THE WEST COAST OF NORTHERN SUMATRA	
#-799	4/29	8	9	4.34	2.704	94.509	14.1	5.4	5.9	80.87	OFF THE WEST COAST OF NORTHERN SUMATRA	
#-800	4/29	10	28	51.87	35.596	140.349	44	5.6	5.2	126.92	NEAR THE EAST COAST OF HONSHU, JAPAN	
#-801	4/29	15	2	18.42	39.745	142.037	10	5.8	5.1	131.23	NEAR THE EAST COAST OF HONSHU, JAPAN	
#-802	4/29	22	35	54.84	-30.591	-177.474	18.5	4.8	0.0	76.87	KERMADEC ISLANDS, NEW ZEALAND	
#-803	4/30	6	3	38.15	-7.703	127.476	164.4	4.5	0.0	82.26	KEPULAUAN BARAT DAYA, INDONESIA	
#-804	4/30	7	39	45.56	-29.868	-71.46	37	5.6	5.1	69.13	OFFSHORE COQUIMBO, CHILE	
#-805	4/30	8	0	10	1.757	89.598	10	5.5	5.6	78.54	NORTH INDIAN OCEAN	
#-806	4/30	10	23	16	-23.122	-70.489	10	4.7	0.0	75.13	ANTOFAGASTA, CHILE	
#-807	4/30	10	29	55	-23.089	-70.489	43	4.6	0.0	75.16	ANTOFAGASTA, CHILE	
#-808	4/30	13	6	58.74	14.405	93.327	35	5.4	0.0	91.71	ANDAMAN ISLANDS, INDIA REGION	
#-809	4/30	16	56	42.11	-8.354	105.422	18.7	5.0	0.0	73.89	SOUTH OF JAVA, INDONESIA	
#-810	4/30	18	11	44.42	-5.689	128.511	356.1	5.4	0.0	84.51	BANDA SEA	
#-811	4/30	20	17	43.43	-30.038	-176.231	35	5.0	0.0	77.64	KERMADEC ISLANDS REGION	
#-812	4/30	20	52	23.64	-23.89	-175.856	53.5	4.9	0.0	83.72	TONGA REGION	
#-813	5/1	0	9	12.96	-2.449	140.295	35	4.2	0.0	91.73	NEAR THE NORTH COAST OF PAPUA, INDONESIA	
#-814	5/1	4	59	21.81	-7.697	106.479	35	4.8	0.0	74.87	JAVA, INDONESIA	
#-815	5/1	5	33	51.12	25.404	141.207	132.1	5.4	0.0	117.96	VOLCANO ISLANDS, JAPAN REGION	
#-816	5/1	5	58	50.64	-24.432	-179.97	500	4.5	0.0	82.38	SOUTH OF THE FIJI ISLANDS	
#-817	5/1	8	55	9	-27.505	-71.04	48.5	4.8	0.0	71.2	OFFSHORE ATACAMA, CHILE	
#-818	5/1	13	57	46.01	-26.826	-177.174	108.2	4.9	0.0	80.6	SOUTH OF THE FIJI ISLANDS	
#-819	5/1	13	59	39.6	-2.613	121.906	10	5.4	0.0	85.02	SULAWESI, INDONESIA	
#-820	5/1	14	16	3.27	-24.881	-175.901	10	4.9	0.0	82.74	SOUTH OF TONGA	
#-821	5/1	15	44	37.8	21.951	-108.44	11.4	5.0	5.0	128.98	OFF THE COAST OF BAJA CALIFORNIA SUR.	
#-822	5/1	16	37	58.8	18.251	-101.085	51.1	5.5	0.0	123.6	GUERRERO, MEXICO	
#-823	5/1	20	52	13.6	-30.813	-71.935	22.2	4.8	0.0	68.39	OFFSHORE COQUIMBO, CHILE	
#-824	5/1	22	13	18.6	-30.267	-175.874	10	5.1	0.0	77.48	KERMADEC ISLANDS REGION	
#-825	5/2	0	16	9.64	-7.996	116.759	269.5	4.4	0.0	78.16	BALI SEA	
#-826	5/2	3	6	32.29	-33.286	-179.431	43.9	4.8	0.0	73.87	SOUTH OF THE KERMADEC ISLANDS	
#-827	5/2	5	14	5.93	-24.331	-176.175	84	5.1	0.0	83.23	SOUTH OF THE FIJI ISLANDS	

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)		Dep (km)	Magnitude Mb Ms		Epicentral distance (deg)	Region
		h	m	s		(deg)	(deg)		(km)	Mb		
#828	5/2	5	23	48.75	3.326	125.728	140.3	4.8	0.0	91.93	KEPULAUAN SANGIHE, INDONESIA	
#829	5/2	9	57	26.44	8.88	93.821	10	4.9	0.0	86.57	NICOBAR ISLANDS, INDIA REGION	
#830	5/2	12	17	59.36	-54.565	143.836	10	5.5	5.5	44.96	WEST OF MACQUARIE ISLAND	
#831	5/2	13	48	12.6	23.352	-44.95	10	5.0	0.0	109.6	NORTHERN MID-ATLANTIC RIDGE	
#832	5/2	17	6	5.53	-35.883	-102.728	10	4.7	4.9	71.38	SOUTHEAST OF EASTER ISLAND	
#833	5/2	20	59	14.33	-9.375	158.762	35	4.3	0.0	91.34	SOLOMON ISLANDS	
#834	5/2	21	56	16.45	-24.195	-176.176	66.2	4.9	0.0	83.36	SOUTH OF THE FIJI ISLANDS	
#835	5/3	4	59	31.48	8.929	93.903	23.7	4.9	0.0	86.64	NICOBAR ISLANDS, INDIA REGION	
#836	5/3	4	59	54.5	21.21	-108.779	10	4.6	0.0	128.34	OFF THE COAST OF BAJA CALIFORNIA SUR.	
#837	5/3	10	9	35.64	32.747	47.726	10	5.6	0.0	101.96	IRAN-IRAQ BORDER REGION	
#838	5/3	11	10	42.04	-23.695	179.019	549.5	4.8	0.0	82.88	SOUTH OF THE FIJI ISLANDS	
#839	5/3	14	28	59.24	-4.822	144.993	114.3	4.6	0.0	91.14	NEAR NORTH COAST OF NEW GUINEA, P.N.G.	
#840	5/3	16	14	16.63	-5.466	152.085	31.1	5.3	0.0	92.91	NEW BRITAIN REGION, PAPUA NEW GUINEA	
#841	5/3	22	53	25.71	0.549	96.664	35	4.3	0.0	79.47	NIAS REGION, INDONESIA	
#842	5/4	1	8	41.08	-56.014	-27.453	129	4.2	0.0	31.34	SOUTH SANDWICH ISLANDS REGION	
#843	5/4	2	31	31.92	-5.359	152.013	58.7	4.5	0.0	92.99	NEW BRITAIN REGION, PAPUA NEW GUINEA	
#844	5/4	6	0	18.3	-32.349	-178.011	8.9	4.7	0.0	75.05	SOUTH OF THE KERMADEC ISLANDS	
#845	5/4	23	43	38.25	-43.036	-20.861	10	4.5	0.0	39.77	SOUTHERN MID-ATLANTIC RIDGE	
#846	5/5	20	12	35.06	38.182	141.628	65.5	5.1	0.0	129.69	NEAR THE EAST COAST OF HONSHU, JAPAN	
#847	5/5	20	23	31.16	-21.477	-174.227	8.5	5.7	0.0	86.39	TONGA	
#848	5/6	4	29	40.53	-31.582	-179.153	153.3	4.3	0.0	75.58	KERMADEC ISLANDS REGION	
#849	5/6	10	23	40.74	2.078	126.114	73.8	4.6	0.0	90.9	MOLUCCA SEA	
#850	5/6	12	40	59.05	-13.82	-75.801	54.4	5.1	0.0	85.58	CENTRAL PERU	
#851	5/7	3	27	21.49	-25.445	179.706	491.7	4.6	0.0	81.33	SOUTH OF THE FIJI ISLANDS	
#852	5/7	17	49	40.83	-17.021	-177.466	406.2	4.7	0.0	90.12	FIJI REGION	
#853	5/7	19	26	4.67	-55.471	-28.216	35	4.3	0.0	32.03	SOUTH SANDWICH ISLANDS REGION	
#854	5/8	0	32	55.5	-14.384	167.196	161	4.8	-	89.00	VANUATU	
#855	5/9	4	35	0.4	6.276	127.544	40	5.5	-	95.33	PHILIPPINE ISLANDS REGION	
#856	5/9	14	49	50.7	-0.968	-13.580	10	5.4	5.0	76.50	NORTH OF ASCENSION ISLAND	
#857	5/9	22	14	39.2	3.781	92.803	10	4.5	-	81.40	OFF THE WEST COAST OF NORTHERN SUMATRA	
#858	5/10	7	31	30.6	0.184	122.315	172	4.9	-	87.78	MINAHASA, SULAWESI, INDONESIA	
#859	5/10	16	15	31.1	-20.110	-178.344	604	4.6	-	86.93	FIJI REGION	
#860	5/11	19	26	30.7	-23.547	-63.670	544	4.4	-	72.49	SALTA, ARGENTINA	
#861	5/11	20	34	26.5	30.665	138.761	400	5.1	-	121.89	IZU ISLANDS, JAPAN REGION	
#862	5/11	22	7	36.5	-46.222	167.241	12	4.6	-	58.62	OFF WEST COAST OF THE SOUTH ISLAND, N.Z.	
#863	5/12	10	30	25.4	2.380	90.464	10	4.5	-	79.38	OFF THE WEST COAST OF NORTHERN SUMATRA	

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#864	5/12	13	23	15.1	2.230	126.119	56	5.3	-	91.05	MOLUCCA SEA
#865	5/12	14	34	42.0	-23.752	-175.771	10	4.9	-	83.87	TONGA REGION
#866	5/12	23	28	43.7	38.625	70.384	10	6.0	5.7	110.11	TAJIKISTAN
#867	5/13	1	19	10.2	-3.314	89.419	12	5.4	5.3	73.63	SOUTH INDIAN OCEAN
#868	5/13	2	0	12.5	3.775	92.702	10	4.9	-	81.36	OFF THE WEST COAST OF NORTHERN SUMATRA
#869	5/13	2	35	35.6	-2.709	138.818	45	4.5	-	90.96	PAPUA, INDONESIA
#870	5/13	4	42	48.1	-58.437	157.836	10	4.9	-	45.16	MACQUARIE ISLAND REGION
#871	5/13	4	46	6.2	-0.128	123.010	94	5.3	-	87.73	SULAWESI, INDONESIA
#872	5/13	7	8	49.7	-30.667	-177.957	52	4.5	-	76.70	KERMADEC ISLANDS, NEW ZEALAND
#873	5/13	9	10	22.1	-1.201	100.261	81	4.6	-	78.94	SOUTHERN SUMATRA, INDONESIA
#874	5/13	11	29	39.9	-58.970	-26.181	139	4.8	-	28.66	SOUTH SANDWICH ISLANDS REGION
#875	5/13	11	55	0.5	-20.981	-177.901	495	4.5	-	86.17	FIJI REGION
#876	5/13	12	42	49.0	-32.791	-74.767	13	4.8	-	67.40	OFF THE COAST OF VALPARAISO, CHILE
#877	5/13	18	21	17.6	27.104	53.916	46	4.9	-	96.73	SOUTHERN IRAN
#878	5/13	23	10	31.8	-7.186	129.254	167	4.7	-	83.38	KEPULAUAN BABAR, INDONESIA
#879	5/14	2	45	22.2	51.639	-174.999	27	5.0	-	156.40	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#880	5/14	4	50	27.5	-17.429	-177.429	359	4.8	-	89.73	FIJI REGION
#881	5/14	19	28	43.0	1.290	126.320	18	5.0	-	90.24	MOLUCCA SEA
#882	5/15	5	19	56.0	2.733	89.591	10	5.1	-	79.47	NORTH INDIAN OCEAN
#883	5/15	9	3	58.1	-53.224	23.441	10	4.7	-	17.37	SOUTH OF AFRICA
#884	5/16	1	28	21.2	-24.456	-175.933	27	5.2	-	83.15	SOUTH OF TONGA
#885	5/16	9	2	1.0	-36.894	-70.610	140	4.3	-	62.33	NEUQUEN, ARGENTINA
#886	5/17	19	49	33.2	-12.633	166.212	58	5.0	-	90.41	SANTA CRUZ ISLANDS
#887	5/17	21	58	57.0	3.384	92.866	17	4.9	-	81.04	OFF THE WEST COAST OF NORTHERN SUMATRA
#888	5/17	23	50	8.9	-2.626	122.013	47	4.8	-	85.05	SULAWESI, INDONESIA
#889	5/18	2	0	40.3	-44.633	-80.097	10	5.5	5.7	57.86	OFF THE COAST OF AISEN, CHILE
#890	5/18	15	31	31.5	-32.638	179.712	300	4.6	-	74.33	SOUTH OF THE KERMADEC ISLANDS
#891	5/18	17	6	5.0	3.290	122.988	537	4.6	-	90.92	CELEBES SEA
#892	5/19	8	35	10.7	-25.729	-70.557	28	5.7	5.5	72.71	ANTOFAGASTA, CHILE
#893	5/19	12	21	53.0	-25.320	-175.786	35	4.8	-	82.34	SOUTH OF THE FIJI ISLANDS
#894	5/19	13	1	32.2	0.405	125.335	61	4.4	-	89.06	MOLUCCA SEA
#895	5/19	15	51	44.5	-20.210	-176.274	256	4.6	-	87.24	FIJI REGION
#896	5/19	19	5	22.1	39.721	143.362	30	5.6	5.5	131.68	OFF THE EAST COAST OF HONSHU, JAPAN
#897	5/19	20	14	26.5	-24.211	-66.848	171	4.3	-	72.93	SALTA, ARGENTINA
#898	5/19	22	23	24.7	52.181	-171.867	63	5.0	-	157.83	FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA
#899	5/20	5	6	56.2	-43.582	172.953	11	4.2	-	62.38	SOUTH ISLAND OF NEW ZEALAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#900	5/20	6	44	35.2	-20.159	-68.950	101	4.4	-	77.40	TARAPACA, CHILE
#901	5/20	7	20	37.0	39.685	143.060	11	5.9	6.2	131.54	OFF THE EAST COAST OF HONSHU, JAPAN
#902	5/20	8	20	59.2	39.650	143.147	17	5.3	-	131.54	OFF THE EAST COAST OF HONSHU, JAPAN
#903	5/20	12	37	38.4	-8.362	107.770	23	4.8	-	74.68	JAVA, INDONESIA
#904	5/20	20	39	54.3	-22.174	-68.303	100	4.3	-	75.31	ANTOFAGASTA, CHILE
#905	5/20	21	15	18.3	-19.052	169.392	48	4.9	-	85.10	VANUATU
#906	5/20	22	15	45.1	-3.210	143.940	21	5.1	-	92.29	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#907	5/20	22	21	3.5	39.603	143.602	30	5.1	-	131.66	OFF THE EAST COAST OF HONSHU, JAPAN
#908	5/20	22	45	24.9	-20.845	-178.902	591	4.3	-	86.10	FIJI REGION
#909	5/21	3	39	44.9	-15.453	-171.864	10	4.6	-	92.73	SOUTH OF THE FIJI ISLANDS
#910	5/21	23	50	54.8	-7.162	129.752	157	4.6	-	83.58	KEPULAUAN BABAR, INDONESIA
#911	5/22	9	2	40.4	-23.525	-179.314	560	4.9	-	83.40	SOUTH OF THE FIJI ISLANDS
#912	5/23	1	4	32.4	-16.806	-70.886	101	4.9	-	81.18	SOUTHERN PERU
#913	5/23	5	32	46.9	-6.950	35.837	10	4.4	-	62.09	TANZANIA
#914	5/23	6	37	42.1	-29.887	-177.138	10	4.8	-	77.62	KERMADEC ISLANDS, NEW ZEALAND
#915	5/23	9	28	55.3	-23.869	-66.665	195	4.2	-	73.18	JUJUJY, ARGENTINA
#916	5/23	15	2	25.3	41.350	142.065	46	6.2	5.5	132.65	HOKKAIDO, JAPAN REGION
#917	5/23	17	50	28.1	0.844	-27.635	14	5.2	4.6	82.63	CENTRAL MID-ATLANTIC RIDGE
#918	5/23	20	25	58.2	46.516	152.715	34	5.3	4.7	140.94	KURIL ISLANDS
#919	5/23	23	19	18.3	-50.399	139.469	10	5.6	5.8	47.32	WESTERN INDIAN-ANTARCTIC RIDGE
#920	5/24	4	51	23.4	-27.804	-70.854	36	4.7	-	70.86	ATACAMA, CHILE
#921	5/24	19	18	55.0	-36.945	-70.621	151	5.1	-	62.29	NEUQUEN, ARGENTINA
#922	5/24	19	39	28.0	14.430	93.309	46	4.9	-	91.73	ANDAMAN ISLANDS, INDIA REGION
#923	5/24	22	47	46.9	72.964	5.655	10	5.7	6.1	143.61	NORWEGIAN SEA
#924	5/25	2	44	49.7	-43.442	172.859	8	4.8	-	62.50	SOUTH ISLAND OF NEW ZEALAND
#925	5/25	12	10	20.2	-30.650	-176.554	37	4.7	-	76.98	KERMADEC ISLANDS REGION
#926	5/26	0	51	25.7	-20.856	168.643	10	5.1	-	83.17	LOYALTY ISLANDS
#927	5/26	3	27	3.8	85.946	32.108	10	5.1	4.7	154.98	NORTH OF SVALBARD
#928	5/26	20	41	50.3	-24.362	-69.240	72	4.5	-	73.56	ANTOFAGASTA, CHILE
#929	5/26	21	48	9.7	26.900	140.092	481	5.5	-	118.94	BONIN ISLANDS, JAPAN REGION
#930	5/27	3	50	19.6	-2.832	100.161	22	5.2	5.2	77.36	KEPULAUAN MENTAWAI REGION, INDONESIA
#931	5/27	5	21	36.2	-13.660	-76.133	72	4.7	-	85.84	NEAR THE COAST OF CENTRAL PERU
#932	5/27	9	27	11.9	-40.680	155.911	15	4.7	-	60.94	SOUTHEAST OF AUSTRALIA
#933	5/27	17	12	31.5	-30.389	-177.947	35	4.5	-	76.98	KERMADEC ISLANDS, NEW ZEALAND
#934	5/27	23	5	25.2	-30.026	-176.034	19	4.1	-	77.69	KERMADEC ISLANDS REGION
#935	5/28	13	15	3.6	-0.017	123.476	149	4.9	-	88.00	MINAHASA, SULAWESI, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#936	5/28	15	39	46.0	-25.267	-179.884	506	4.9	-	81.58	SOUTH OF THE FIJI ISLANDS		
#937	5/28	21	47	10.1	-19.983	-175.947	220	5.3	-	87.53	TONGA		
#938	5/29	1	56	5.5	39.159	144.654	41	5.2	-	131.64	OFF THE EAST COAST OF HONSHU, JAPAN		
#939	5/29	11	0	25.5	44.916	10.934	10	5.1	-	115.81	NORTHERN ITALY		
#940	5/30	6	57	5.9	-6.185	130.266	146	5.0	-	84.68	BANDA SEA		
#941	5/30	21	20	57.1	43.396	78.773	23	5.7	-	116.19	EASTERN KAZAKHSTAN		
#942	5/30	21	22	32.7	54.744	161.399	48	5.2	-	150.83	NEAR THE EAST COAST OF KAMCHATKA, RUSSIA		
#943	5/30	21	59	5.4	-10.223	-74.494	43	4.8	-	88.56	CENTRAL PERU		
#944	5/31	4	57	25.0	-8.471	-74.131	162	4.6	-	90.10	CENTRAL PERU		
#945	5/31	6	6	49.5	-23.220	-176.840	123	4.6	-	84.19	SOUTH OF THE FIJI ISLANDS		
#946	5/31	15	55	34.8	-20.358	-178.150	537	4.6	-	86.72	FIJI REGION		
#947	5/31	23	1	2.0	-0.880	133.260	19	5.5	5.1	90.70	NEAR THE NORTH COAST OF PAPUA, INDONESIA		
#948	6/1	5	7	1.8	-77.160	-148.919	12	5.5	5.2	33.75	ANTARCTICA		
#949	6/1	6	18	50.1	2.532	126.127	64	4.9	-	91.33	MOLUCCA SEA		
#950	6/1	6	56	20.2	-0.720	133.269	25	5.8	5.6	90.85	NEAR THE NORTH COAST OF PAPUA, INDONESIA		
#951	6/2	5	1	2.5	-49.279	120.490	10	4.7	-	42.08	WESTERN INDIAN-ANTARCTIC RIDGE		
#952	6/2	6	18	24.4	-27.769	-66.667	155	4.5	-	69.55	CATAMARCA, ARGENTINA		
#953	6/2	7	31	9.0	-22.073	-63.560	515	4.4	-	73.82	SALTA, ARGENTINA		
#954	6/2	7	52	53.9	-22.059	-63.555	527	5.8	-	73.83	SALTA, ARGENTINA		
#955	6/2	13	50	29.1	0.329	126.343	68	4.6	-	89.35	MOLUCCA SEA		
#956	6/2	18	16	58.8	-5.569	141.392	36	4.9	-	89.19	NEW GUINEA, PAPUA NEW GUINEA		
#957	6/2	21	28	32.7	-31.965	-177.782	35	4.3	-	75.47	KERMADEC ISLANDS REGION		
#958	6/3	1	13	30.5	-20.983	-174.687	10	4.7	-	86.79	TONGA		
#959	6/3	11	14	47.7	-16.235	67.210	10	5.0	4.9	55.66	MID-INDIAN RIDGE		
#960	6/3	11	39	24.3	-21.326	-68.013	105	5.0	-	76.00	POTOSI, BOLIVIA		
#961	6/3	21	0	58.3	-60.496	-25.686	31	5.3	-	27.38	SOUTH SANDWICH ISLANDS REGION		
#962	6/4	0	15	44.7	-21.727	169.133	55	5.0	-	82.46	SOUTHEAST OF THE LOYALTY ISLANDS		
#963	6/4	0	45	15.2	5.305	-82.625	7	5.9	5.9	105.87	SOUTH OF PANAMA		
#964	6/5	7	20	52.5	-18.126	168.311	79	5.2	-	85.71	VANUATU		
#965	6/5	11	1	17.9	5.452	94.650	36	5.6	-	83.54	NORTHERN SUMATRA, INDONESIA		
#966	6/5	19	31	33.7	34.963	141.174	14	6.2	6.0	126.65	OFF THE EAST COAST OF HONSHU, JAPAN		
#967	6/5	23	8	15.6	-57.943	-25.274	56	4.7	-	29.10	SOUTH SANDWICH ISLANDS REGION		
#968	6/5	23	22	57.9	-18.742	168.953	219	4.9	-	85.29	VANUATU		
#969	6/6	2	24	47.5	-10.735	161.365	33	4.9	-	90.83	SOLOMON ISLANDS		
#970	6/6	9	35	34.7	-27.432	-63.295	576	4.4	-	68.75	SANTIAGO DEL ESTERO, ARGENTINA		
#971	6/6	16	11	14.5	-27.034	-177.443	111	5.0	-	80.35	KERMADEC ISLANDS REGION		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#972	6/7	0	2	28.1	-22.876	-174.722	10	5.0	-	84.93	TONGA REGION
#973	6/7	1	10	30.7	1.606	126.623	52	5.1	-	90.65	MOLUCCA SEA
#974	6/7	7	40	55.7	-31.621	-71.416	52	4.7	-	67.48	COQUIMBO, CHILE
#975	6/7	16	3	18.1	-15.945	-72.529	103	6.1	-	82.53	SOUTHERN PERU
#976	6/7	17	6	46.3	-22.410	-65.923	252	4.8	-	74.30	JUJUY, ARGENTINA
#977	6/7	18	2	42.1	-15.063	-173.682	29	4.8	-	92.78	TONGA
#978	6/8	6	29	15.8	3.663	127.264	62	4.9	-	92.79	KEPULAUAN TALAUD, INDONESIA
#979	6/8	7	4	24.0	-5.867	107.419	308	4.5	-	76.91	JAVA, INDONESIA
#980	6/8	10	47	9.5	-22.955	-175.415	34	4.6	-	84.72	TONGA REGION
#981	6/9	8	49	30.1	-2.968	127.661	39	5.1	-	86.75	OFF THE COAST OF CHIAPAS, MEXICO
#982	6/9	12	2	46.5	51.717	159.197	16	5.0	-	147.61	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#983	6/9	14	23	18.3	48.822	154.946	32	5.2	-	143.69	KURIL ISLANDS
#984	6/9	21	0	18.0	24.573	122.234	70	6.0	-	110.48	TAIWAN REGION
#985	6/10	8	18	4.4	-55.937	-27.545	111	5.1	-	31.43	SOUTH SANDWICH ISLANDS REGION
#986	6/10	13	32	56.8	18.663	145.626	166	5.0	-	113.32	PAGAN REGION, NORTHERN MARIANA ISLANDS
#987	6/10	15	12	7.6	4.741	96.087	19	4.7	-	83.29	NORTHERN SUMATRA, INDONESIA
#988	6/11	11	12	47.9	-27.505	-176.764	38	4.5	-	80.02	KERMADEC ISLANDS REGION
#989	6/11	23	37	36.3	-17.826	-69.804	88	4.9	-	79.87	TARAPACA, CHILE
#990	6/12	5	59	39.6	-5.675	105.474	173	5.5	-	76.43	SUNDA STRAIT, INDONESIA
#991	6/12	13	48	34.5	-31.732	-178.680	45	5.1	-	75.53	KERMADEC ISLANDS REGION
#992	6/13	7	6	42.5	-55.804	-28.407	63	5.5	-	31.84	SOUTH SANDWICH ISLANDS REGION
#993	6/14	2	17	29.5	-3.682	128.825	58	4.8	-	86.50	SERAM, INDONESIA
#994	6/14	4	47	47.8	-22.803	-63.810	532	4.1	-	73.23	SALTA, ARGENTINA
#995	6/14	11	4	3.5	-22.239	179.706	562	5.4	-	84.45	SOUTH OF THE FIJI ISLANDS
#996	6/14	21	51	25.9	42.164	84.290	11	5.4	5.1	116.10	NORTHERN XINJIANG, CHINA
#997	6/15	1	14	6.7	5.715	126.396	34	5.8	5.2	94.40	MINDANAO, PHILIPPINES
#998	6/15	5	43	13.0	-38.188	-74.702	22	4.7	-	62.35	OFF THE COAST OF ARAUCANIA, CHILE
#999	6/15	8	43	32.7	-3.386	146.321	36	5.2	-	92.94	BISMARCK SEA
#1000	6/15	11	4	22.4	6.562	123.276	639	4.6	-	94.08	MORO GULF, MINDANAO, PHILIPPINES
#1001	6/16	13	5	27.5	20.657	145.407	82	5.1	-	115.09	MAUG ISLANDS REG., NORTHERN MARIANA ISL.
#1002	6/16	22	18	47.6	15.583	119.593	28	6.1	5.7	101.21	LUZON, PHILIPPINES
#1003	6/17	0	29	40.9	-21.974	-178.849	589	4.6	-	85.00	FIJI REGION
#1004	6/17	3	12	7.5	-6.470	-80.706	43	4.3	-	94.08	NEAR THE COAST OF NORTHERN PERU
#1005	6/17	3	43	8.4	-8.503	160.357	37	6.0	5.2	92.65	SOLOMON ISLANDS
#1006	6/17	17	26	27.0	-20.559	-174.342	10	5.3	-	87.27	TONGA
#1007	6/17	23	43	39.5	-56.872	-26.416	13	5.1	-	30.31	SOUTH SANDWICH ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1008	6/18	3	52	24.5	-37.538	51.096	10	4.8	-	32.16	SOUTH INDIAN OCEAN
#-1009	6/18	8	29	3.2	-32.995	-68.529	14	5.3	-	65.30	MENDOZA, ARGENTINA
#-1010	6/18	12	50	38.9	2.066	129.312	9	5.1	-	92.04	HALMAHERA, INDONESIA
#-1011	6/18	14	4	43.8	-33.220	179.535	250	4.8	-	73.73	SOUTH OF THE KERMADEC ISLANDS
#-1012	6/19	4	27	57.4	-2.922	100.884	58	5.1	-	77.51	KEPULAUAN MENTAWAI REGION, INDONESIA
#-1013	6/19	4	37	35.7	-20.481	-178.536	619	5.0	-	86.53	FIJI REGION
#-1014	6/19	10	53	29.9	-38.244	146.194	10	5.2	-	60.34	NEAR THE SOUTHEAST COAST OF AUSTRALIA
#-1015	6/19	13	40	57.2	43.444	-127.268	10	5.2	-	153.47	OFF THE COAST OF OREGON
#-1016	6/19	15	56	32.5	53.364	171.593	14	6.2	5.7	153.36	NEAR ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-1017	6/19	20	14	4.8	23.630	70.230	22	5.0	-	95.37	GUJARAT, INDIA
#-1018	6/19	20	56	41.7	53.367	171.707	13	5.9	5.2	153.40	NEAR ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-1019	6/19	21	13	37.1	-2.941	99.807	22	4.7	-	77.15	KEPULAUAN MENTAWAI REGION, INDONESIA
#-1020	6/20	0	41	48.6	-0.783	133.239	46	5.5	4.9	90.78	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1021	6/20	6	33	22.6	-28.538	-70.564	87	4.7	-	70.09	ATACAMA, CHILE
#-1022	6/20	9	59	4.4	-4.927	103.198	68	5.6	-	76.37	SOUTHERN SUMATRA, INDONESIA
#-1023	6/20	21	55	53.5	0.104	123.446	139	5.4	-	88.11	MINAHASA, SULAWESI, INDONESIA
#-1024	6/21	3	25	53.5	-38.230	176.493	173	4.5	-	68.26	NORTH ISLAND OF NEW ZEALAND
#-1025	6/21	16	22	47.0	-20.477	-69.055	93	4.6	-	77.14	TARAPACA, CHILE
#-1026	6/21	22	17	11.0	-11.554	-76.665	92	4.6	-	88.00	CENTRAL PERU
#-1027	6/21	22	34	36.4	-17.954	-178.175	534	5.2	-	89.07	FIJI REGION
#-1028	6/21	23	52	53.2	-32.829	-178.622	14	5.2	-	74.47	SOUTH OF THE KERMADEC ISLANDS
#-1029	6/22	0	0	31.3	-32.899	-178.351	32	4.6	-	74.45	SOUTH OF THE KERMADEC ISLANDS
#-1030	6/22	0	3	3.8	-32.621	-178.520	35	4.9	-	74.69	SOUTH OF THE KERMADEC ISLANDS
#-1031	6/22	0	56	36.7	-32.757	-178.287	35	4.6	-	74.60	SOUTH OF THE KERMADEC ISLANDS
#-1032	6/22	2	20	7.2	-32.951	-178.684	17	5.3	5.4	74.34	SOUTH OF THE KERMADEC ISLANDS
#-1033	6/22	4	31	17.2	-54.342	158.827	14	5.9	5.5	49.10	MACQUARIE ISLAND REGION
#-1034	6/22	5	2	6.7	-32.979	-178.330	7	5.1	-	74.38	SOUTH OF THE KERMADEC ISLANDS
#-1035	6/22	5	14	47.5	1.231	92.509	38	4.8	-	78.87	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1036	6/22	5	22	42.4	-17.843	167.715	54	4.9	-	85.82	VANUATU
#-1037	6/22	12	12	49.9	-33.060	-178.246	15	4.9	-	74.32	SOUTH OF THE KERMADEC ISLANDS
#-1038	6/22	12	30	19.3	-30.364	-175.593	10	4.8	-	77.44	KERMADEC ISLANDS, NEW ZEALAND
#-1039	6/23	1	18	58.0	-23.866	-13.520	10	4.7	-	54.76	SOUTHERN MID-ATLANTIC RIDGE
#-1040	6/23	3	29	36.3	-4.624	129.980	53	4.6	-	86.03	BANDA SEA
#-1041	6/23	4	34	53.3	3.027	97.927	95	6.3	-	82.22	NORTHERN SUMATRA, INDONESIA
#-1042	6/23	7	42	45.7	-7.371	128.847	150	4.7	-	83.06	KEPULAUAN BARAT DAYA, INDONESIA
#-1043	6/23	7	43	49.1	51.489	-177.760	63	5.0	-	155.40	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1044	6/23	10	51	39.3	-5.196	152.773	35	4.6	-	93.39	NEW IRELAND REGION, PAPUA NEW GUINEA
#-1045	6/23	18	37	18.7	-21.252	-179.294	598	4.7	-	85.62	FIJI REGION
#-1046	6/23	21	27	29.6	2.631	90.513	16	5.3	5.0	79.64	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1047	6/24	1	20	46.9	-7.155	129.210	157	4.6	-	83.39	KEPULAUAN BABAR, INDONESIA
#-1048	6/24	3	15	1.3	57.595	163.207	10	5.8	5.8	153.66	NEAR THE EAST COAST OF KAMCHATKA, RUSSIA
#-1049	6/24	4	9	41.6	-32.782	-178.239	10	4.1	-	74.59	SOUTH OF THE KERMADEC ISLANDS
#-1050	6/24	10	25	54.7	-22.444	-66.702	190	5.4	-	74.53	JUJUJY, ARGENTINA
#-1051	6/24	15	40	12.5	-7.169	106.027	67	4.9	-	75.21	JAVA, INDONESIA
#-1052	6/24	19	28	5.7	-60.285	-27.762	127	5.1	-	28.25	SOUTH SANDWICH ISLANDS REGION
#-1053	6/25	3	30	10.8	-32.626	-178.046	35	5.1	-	74.78	SOUTH OF THE KERMADEC ISLANDS
#-1054	6/25	13	38	16.6	-37.970	-74.821	10	4.6	-	62.59	OFF THE COAST OF BIO-BIO, CHILE
#-1055	6/25	23	58	2.4	-55.952	-27.617	113	4.7	-	31.44	SOUTH SANDWICH ISLANDS REGION
#-1056	6/26	8	4	10.7	-31.162	-179.710	331	4.3	-	75.88	KERMADEC ISLANDS REGIO
#-1057	6/26	12	32	37.3	-21.807	-176.666	188	5.0	-	85.60	FIJI REGION
#-1058	6/26	14	17	40.7	56.159	160.522	160	5.2	-	151.61	KAMCHATKA PENINSULA, RUSSIA
#-1059	6/26	15	18	23.0	7.258	126.519	150	4.4	-	95.88	MINDANAO, PHILIPPINES
#-1060	6/26	17	19	6.9	15.485	-91.983	181	5.4	-	118.41	GUATEMALA
#-1061	6/27	0	53	3.3	-7.684	128.879	104	4.5	-	82.78	KEPULAUAN BARAT DAYA, INDONESIA
#-1062	6/27	3	39	3.4	-7.005	129.400	201	4.6	-	83.60	KEPULAUAN BABAR, INDONESIA
#-1063	6/27	4	55	29.0	-7.318	107.311	76	4.6	-	75.51	JAVA, INDONESIA
#-1064	6/27	6	56	44.4	-15.537	-173.820	33	4.8	-	92.29	TONGA
#-1065	6/27	12	56	59.7	-8.292	119.970	43	5.2	-	79.03	FLORES REGION, INDONESIA
#-1066	6/27	13	6	34.1	-31.701	-67.692	41	4.5	-	66.23	SAN JUAN, ARGENTINA
#-1067	6/27	13	55	34.8	-26.197	-179.879	473	4.5	-	80.68	SOUTH OF THE FIJI ISLANDS
#-1068	6/27	20	39	18.3	-15.174	-173.259	24	5.3	5.1	92.75	TONGA
#-1069	6/27	21	14	1.5	-15.197	-173.410	10	4.9	-	92.70	TONGA
#-1070	6/27	21	20	56.6	-15.138	-173.341	10	5.2	5.0	92.77	TONGA
#-1071	6/28	1	51	55.3	-21.855	168.857	17	4.9	-	82.27	LOYALTY ISLANDS
#-1072	6/28	10	18	59.5	-15.183	-175.059	246	4.0	-	92.40	TONGA
#-1073	6/28	11	49	13.4	-31.449	-66.760	132	4.6	-	66.17	LA RIOJA, ARGENTINA
#-1074	6/28	12	10	5.5	-9.681	113.000	50	4.6	-	75.26	SOUTH OF JAVA, INDONESIA
#-1075	6/29	10	1	43.0	-25.795	-177.509	164	4.9	-	81.54	SOUTH OF THE FIJI ISLANDS
#-1076	6/29	13	15	23.4	-23.841	179.815	553	4.8	-	82.91	SOUTH OF THE FIJI ISLANDS
#-1077	6/29	20	3	41.5	-11.996	166.232	32	4.9	-	91.03	SANTA CRUZ ISLANDS
#-1078	6/29	21	7	33.8	43.430	84.698	18	6.2	6.4	117.39	NORTHERN XINJIANG, CHINA
#-1079	6/29	22	2	15.8	-33.695	178.793	42	4.8	-	73.12	SOUTH OF THE KERMADEC ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1080	6/29	22	37	7.2	-33.412	-178.361	35	4.8	-	73.95	SOUTH OF THE KERMADEC ISLANDS		
#-1081	6/29	23	15	26.5	8.534	126.189	36	4.3	-	96.96	MINDANAO, PHILIPPINES		
#-1082	6/30	0	9	9.8	28.134	143.386	41	5.2	-	121.24	BONIN ISLANDS, JAPAN REGION		
#-1083	6/30	0	14	59.9	-33.444	-178.340	35	4.9	-	73.92	SOUTH OF THE KERMADEC ISLANDS		
#-1084	6/30	15	26	32.4	-33.491	-177.793	35	4.7	-	73.98	SOUTH OF THE KERMADEC ISLANDS		
#-1085	6/30	16	24	37.5	-22.135	170.996	96	5.0	-	82.54	SOUTHEAST OF THE LOYALTY ISLANDS		
#-1086	7/1	0	44	31.7	-22.538	-68.282	111	4.7	-	74.96	ANTOFAGASTA, CHILE		
#-1087	7/1	4	13	52.2	25.567	94.663	59	5.5	-	102.74	MYANMAR-INDIA BORDER REGION		
#-1088	7/1	4	23	31.7	-7.799	128.617	90	4.5	-	82.58	KEPULAUAN BARAT DAYA, INDONESIA		
#-1089	7/1	7	49	53.7	5.647	125.573	146	4.7	-	94.04	MINDANAO, PHILIPPINES		
#-1090	7/1	12	51	13.9	1.211	97.093	35	4.6	-	80.23	NIAS REGION, INDONESIA		
#-1091	7/1	16	19	13.1	13.351	41.779	10	4.8	-	82.38	ERITREA - ETHIOPIA REGION		
#-1092	7/1	17	44	53.7	-20.568	-70.815	2	4.7	-	77.63	OFF THE COAST OF TARAPACA, CHILE		
#-1093	7/2	10	16	0.6	-22.523	173.017	67	4.8	-	82.66	SOUTHEAST OF THE LOYALTY ISLANDS		
#-1094	7/2	20	23	16.6	-59.254	-25.722	50	4.9	-	28.29	SOUTH SANDWICH ISLANDS REGION		
#-1095	7/2	23	31	37.5	-14.407	-75.587	35	6.0	5.2	84.96	NEAR THE COAST OF CENTRAL PERU		
#-1096	7/3	5	47	36.0	-28.104	-70.446	68	4.4	-	70.45	ATACAMA, CHILE		
#-1097	7/3	12	7	30.1	-19.291	-178.007	544	4.6	-	87.80	FIJI REGION		
#-1098	7/4	0	3	59.8	-59.062	149.530	10	4.6	-	42.59	WEST OF MACQUARIE ISLAND		
#-1099	7/4	3	15	24.7	-4.144	152.741	32	4.9	-	94.38	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1100	7/4	8	33	3.8	-37.978	-72.709	10	4.7	-	61.96	BIO-BIO, CHILE		
#-1101	7/4	14	36	34.1	-30.774	-178.160	36	5.1	-	76.56	KERMADEC ISLANDS, NEW ZEALAND		
#-1102	7/4	22	57	16.0	-37.631	-74.077	21	4.6	-	62.69	OFFSHORE BIO-BIO, CHILE		
#-1103	7/5	8	14	19.4	5.130	126.599	62	5.3	-	93.93	MINDANAO, PHILIPPINES		
#-1104	7/6	0	40	37.1	-14.621	-177.841	10	4.9	-	92.39	FIJI REGION		
#-1105	7/6	2	28	22.3	-14.657	167.336	161	5.7	-	88.78	VANUATU		
#-1106	7/6	2	52	24.6	-17.630	-178.535	583	4.6	-	89.31	FIJI REGION		
#-1107	7/6	6	16	47.0	-42.646	-74.015	32	5.0	-	58.03	ISLA CHILOE, LOS LAGOS, CHILE		
#-1108	7/6	17	50	13.8	-10.451	161.449	89	4.8	-	91.12	SOLOMON ISLANDS		
#-1109	7/6	22	59	45.0	-11.860	-76.370	24	4.0	-	87.61	CENTRAL PERU		
#-1110	7/7	0	50	25.8	-39.146	175.691	83	5.3	-	67.21	NORTH ISLAND OF NEW ZEALAND		
#-1111	7/7	3	35	28.7	-4.652	153.296	35	5.6	5.3	94.08	NEW IRELAND REGION, PAPUA NEW GUINEA		
#-1112	7/7	8	11	36.9	-56.195	-27.417	100	5.4	-	31.18	SOUTH SANDWICH ISLANDS REGION		
#-1113	7/7	10	52	14.9	-32.487	-71.621	29	4.8	-	66.73	OFFSHORE VALPARAISO, CHILE		
#-1114	7/7	14	26	2.7	-3.646	100.843	36	5.0	-	76.81	KEPULAUAN MENTAWAI REGION, INDONESIA		
#-1115	7/7	22	49	20.6	-17.030	66.961	10	5.0	-	54.83	MAURITIUS - REUNION REGION		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1116	7/7	23	31	46.2	-55.706	-27.425	39	4.7	-	31.57	SOUTH SANDWICH ISLANDS REGION		
#-1117	7/7	23	42	42.9	33.746	136.025	405	4.4	-	123.71	NEAR S. COAST OF WESTERN HONSHU, JAPAN		
#-1118	7/7	23	48	21.5	-33.464	-179.682	86	4.7	-	73.65	SOUTH OF THE KERMADEC ISLANDS		
#-1119	7/8	0	11	15.5	-30.411	-176.789	44	4.7	-	77.17	KERMADEC ISLANDS, NEW ZEALAND		
#-1120	7/8	14	41	23.0	-56.404	-24.085	10	5.2	-	29.84	SOUTH SANDWICH ISLANDS REGION		
#-1121	7/8	22	39	8.1	-6.565	155.023	99	4.6	-	92.83	BOUGAINVILLE REGION, PAPUA NEW GUINEA		
#-1122	7/9	13	55	0.6	35.623	28.925	57	5.6	-	104.90	EASTERN MEDITERRANEAN SEA		
#-1123	7/10	2	28	12.7	-25.224	-176.291	18	5.1	-	82.33	SOUTH OF THE FIJI ISLANDS		
#-1124	7/10	9	5	18.2	-21.464	-179.172	572	4.6	-	85.44	FIJI REGION		
#-1125	7/10	10	27	0.0	-1.663	134.186	32	5.2	-	90.30	NEAR THE NORTH COAST OF PAPUA, INDONESIA		
#-1126	7/10	10	43	51.9	-59.568	-26.241	16	4.6	-	28.24	SOUTH SANDWICH ISLANDS REGION		
#-1127	7/10	10	46	39.1	-16.670	167.158	41	4.7	-	86.80	VANUATU		
#-1128	7/10	18	6	6.4	-5.061	103.382	71	4.5	-	76.31	SOUTHERN SUMATRA, INDONESIA		
#-1129	7/10	18	9	42.9	-23.448	-179.722	541	4.9	-	83.39	SOUTH OF THE FIJI ISLANDS		
#-1130	7/11	0	16	10.0	-8.442	156.275	10	5.2	-	91.45	SOLOMON ISLANDS		
#-1131	7/11	1	11	40.3	-2.041	127.303	34	5.0	-	87.48	CERAM SEA, INDONESIA		
#-1132	7/11	2	50	2.9	45.344	151.519	49	5.1	-	139.51	KURIL ISLANDS		
#-1133	7/11	10	17	14.3	-23.676	-179.366	506	4.6	-	83.24	SOUTH OF THE FIJI ISLANDS		
#-1134	7/11	11	12	39.7	-26.042	-177.361	85	5.3	-	81.33	SOUTH OF THE FIJI ISLANDS		
#-1135	7/11	20	52	37.7	-15.330	-75.392	19	5.1	-	84.02	NEAR THE COAST OF CENTRAL PERU		
#-1136	7/11	21	41	53.1	-15.273	-75.270	35	4.9	-	84.04	NEAR THE COAST OF CENTRAL PERU		
#-1137	7/12	4	11	19.5	-10.779	165.914	159	5.2	-	92.10	SANTA CRUZ ISLANDS		
#-1138	7/12	7	5	35.5	-36.613	-179.481	60	4.7	-	70.62	EAST OF THE NORTH ISLAND, NEW ZEALAND		
#-1139	7/12	15	40	12.9	-2.825	129.331	12	5.5	5.1	87.48	SERAM, INDONESIA		
#-1140	7/12	16	25	47.2	-29.046	74.890	15	4.9	-	45.01	MID-INDIAN RIDGE		
#-1141	7/13	0	38	24.4	-56.292	-27.508	101	4.8	-	31.14	SOUTH SANDWICH ISLANDS REGION		
#-1142	7/13	4	50	42.7	-18.243	-178.546	622	5.1	-	88.71	FIJI REGION		
#-1143	7/13	14	1	19.8	-38.754	176.938	82	4.7	-	67.85	NORTH ISLAND OF NEW ZEALAND		
#-1144	7/13	17	57	5.8	-7.996	109.060	70	4.9	-	75.47	JAVA, INDONESIA		
#-1145	7/13	21	26	14.2	-15.232	-73.124	99	5.1	-	83.39	SOUTHERN PERU		
#-1146	7/13	22	37	24.8	45.285	151.851	13	5.0	-	139.58	KURIL ISLANDS		
#-1147	7/14	8	5	27.9	-16.291	-177.745	413	4.8	-	90.78	FIJI REGION		
#-1148	7/14	12	14	23.8	4.799	126.790	74	4.6	-	93.69	KEPULAUAN TALAUD, INDONESIA		
#-1149	7/14	22	34	40.0	-36.077	-71.050	11	4.8	-	63.22	MAULE, CHILE		
#-1150	7/15	14	10	56.4	-3.032	139.631	68	4.7	-	90.95	PAPUA, INDONESIA		
#-1151	7/16	16	33	9.9	-1.313	137.049	13	5.6	5.3	91.64	NEAR THE NORTH COAST OF PAPUA, INDONESIA		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1152	7/16	21	18	10.0	-23.233	-69.068	103	4.6	-	74.56	ANTOFAGASTA, CHILE		
#-1153	7/17	2	35	34.0	-20.196	-68.949	94	4.6	-	77.37	TARAPACA, CHILE		
#-1154	7/17	7	58	45.6	41.162	135.496	361	4.4	-	130.16	SEA OF JAPAN		
#-1155	7/17	8	45	47.7	-31.023	-179.105	17	4.8	-	76.13	KERMADEC ISLANDS REGION		
#-1156	7/17	11	28	38.0	-31.139	-179.139	17	4.7	-	76.01	KERMADEC ISLANDS REGION		
#-1157	7/17	12	38	31.1	-31.700	-176.073	35	5.2	-	76.04	KERMADEC ISLANDS REGION		
#-1158	7/17	16	56	46.6	-7.312	128.701	186	4.8	-	83.07	KEPULAUAN BARAT DAYA, INDONESIA		
#-1159	7/17	20	6	55.3	-23.423	-115.150	20	4.9	-	85.68	KERMADEC ISLANDS REGION		
#-1160	7/18	4	25	29.5	-55.604	-127.536	14	5.1	-	55.00	PACIFIC-ANTARCTIC RIDGE		
#-1161	7/18	4	33	59.1	-4.437	102.734	68	5.3	-	76.68	SOUTHERN SUMATRA, INDONESIA		
#-1162	7/18	6	36	48.5	11.305	126.076	10	5.2	-	99.50	PHILIPPINE ISLANDS REGION		
#-1163	7/18	10	55	54.2	-9.320	123.230	114	4.4	-	79.23	TIMOR REGION, INDONESIA		
#-1164	7/18	13	13	47.9	-37.774	179.541	54	4.7	-	69.31	OFF EAST COAST OF THE NORTH ISLAND, N.Z.		
#-1165	7/18	18	24	9.9	-20.748	-70.491	18	5.1	4.5	77.35	OFFSHORE TARAPACA, CHILE		
#-1166	7/18	22	6	58.4	-26.395	-69.800	84	4.6	-	71.84	ATACAMA, CHILE		
#-1167	7/19	5	14	26.5	-56.004	-27.757	91	5.4	-	31.45	SOUTH SANDWICH ISLANDS REGION		
#-1168	7/19	6	11	39.9	-5.745	148.683	145	4.9	-	91.52	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1169	7/19	7	36	35.5	37.248	71.368	98	5.5	-	108.92	HINDU KUSH REGION, AFGHANISTAN		
#-1170	7/20	1	26	5.6	-5.420	146.779	161	4.4	-	91.18	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA		
#-1171	7/20	3	40	12.2	49.495	155.601	16	5.3	5.0	144.49	KURIL ISLANDS		
#-1172	7/20	6	10	25.1	49.407	155.907	19	5.7	5.7	144.53	KURIL ISLANDS		
#-1173	7/20	6	32	56.0	49.354	156.132	10	5.8	5.5	144.57	KURIL ISLANDS		
#-1174	7/20	9	11	31.0	-38.282	146.164	13	4.6	-	60.30	NEAR THE SOUTHEAST COAST OF AUSTRALIA		
#-1175	7/20	11	35	52.7	-24.275	-66.970	160	4.6	-	72.91	SALTA, ARGENTINA		
#-1176	7/20	14	3	12.2	-21.125	-179.149	613	5.6	-	85.77	FIJI REGION		
#-1177	7/20	17	44	55.8	-8.079	123.668	11	4.9	-	80.55	FLORES REGION, INDONESIA		
#-1178	7/20	18	14	53.4	-7.983	123.697	43	5.4	-	80.65	FLORES REGION, INDONESIA		
#-1179	7/20	18	54	14.0	56.406	-153.373	11	5.1	-	166.24	KODIAK ISLAND REGION, ALASKA		
#-1180	7/20	20	24	19.1	3.369	125.800	88	5.0	-	92.00	KEPULAUAN SANGIHE, INDONESIA		
#-1181	7/21	1	52	1.6	40.385	-125.528	25	5.0	-	150.22	OFFSHORE NORTHERN CALIFORNIA		
#-1182	7/21	4	54	6.8	-37.820	179.678	17	5.7	5.5	69.29	EAST OF THE NORTH ISLAND, NEW ZEALAND		
#-1183	7/21	6	11	57.9	-19.190	173.789	10	5.5	5.5	86.07	VANUATU REGION		
#-1184	7/21	12	46	30.8	-5.388	129.260	240	5.3	-	85.06	BANDA SEA		
#-1185	7/21	16	1	4.8	-8.085	123.715	33	4.2	-	80.56	FLORES REGION, INDONESIA		
#-1186	7/21	23	31	36.7	-21.199	-178.970	602	4.7	-	85.74	FIJI REGION		
#-1187	7/22	2	11	12.2	24.998	96.427	23	5.1	-	102.69	MYANMAR		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1188	7/22	5	39	11.9	-4.171	153.389	24	5.4	-	94.56	NEW IRELAND REGION, PAPUA NEW GUINEA
#-1189	7/22	7	2	12.2	-4.884	149.525	10	5.5	5.3	92.61	BISMARCK SEA
#-1190	7/22	9	26	2.9	37.546	36.384	8	5.0	-	106.57	CENTRAL TURKEY
#-1191	7/22	9	39	12.8	2.618	95.846	22	4.9	-	81.19	SIMEULUE, INDONESIA
#-1192	7/22	11	35	1.9	13.254	50.144	10	4.6	-	82.64	GULF OF ADEN
#-1193	7/22	13	36	58.7	-14.852	167.358	132	4.8	-	88.60	VANUATU
#-1194	7/22	16	56	2.5	-21.795	-175.055	10	5.3	-	85.92	TONGA
#-1195	7/22	18	2	12.2	11.699	-87.157	49	5.0	-	113.35	NEAR THE COAST OF NICARAGUA
#-1196	7/22	18	15	12.3	-30.390	-177.430	29	4.9	-	77.07	KERMADEC ISLANDS, NEW ZEALAND
#-1197	7/23	0	22	4.7	-2.537	135.414	10	5.2	-	89.92	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1198	7/23	6	54	38.4	52.239	173.370	43	5.0	-	153.06	NEAR ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-1199	7/23	7	4	25.8	-22.505	173.116	44	4.6	-	82.70	SOUTHEAST OF THE LOYALTY ISLANDS
#-1200	7/23	8	8	14.7	-22.429	173.077	54	4.5	-	82.77	SOUTHEAST OF THE LOYALTY ISLANDS
#-1201	7/23	19	47	9.5	-30.581	-177.474	4	5.0	-	76.88	KERMADEC ISLANDS, NEW ZEALAND
#-1202	7/23	21	41	15.6	2.440	118.900	35	4.2	-	88.68	CELEBES SEA
#-1203	7/23	21	49	39.9	-28.676	-175.901	35	4.3	-	79.03	KERMADEC ISLANDS REGION
#-1204	7/23	22	58	33.1	-58.176	-24.109	26	4.8	-	28.51	SOUTH SANDWICH ISLANDS REGION
#-1205	7/24	3	2	59.7	7.655	126.688	79	4.7	-	96.31	MINDANAO, PHILIPPINES
#-1206	7/24	5	25	29.5	16.531	-98.094	13	5.2	-	121.15	OAXACA, MEXICO
#-1207	7/24	6	50	6.4	31.735	50.933	10	5.2	-	101.13	WESTERN IRAN
#-1208	7/24	13	45	29.0	-16.167	-173.410	45	4.6	-	91.75	TONGA
#-1209	7/25	0	27	45.2	2.707	96.046	22	5.9	6.5	81.34	SIMEULUE, INDONESIA
#-1210	7/25	0	40	4.9	-33.750	-178.879	15	4.3	-	73.52	SOUTH OF THE KERMADEC ISLANDS
#-1211	7/25	6	1	14.8	-28.043	-66.574	167	4.6	-	69.27	CATAMARCA, ARGENTINA
#-1212	7/25	11	9	37.1	-20.231	-177.869	505	4.6	-	86.91	FIJI REGION
#-1213	7/25	11	20	27.2	-9.692	159.723	20	6.4	6.5	91.33	SOLOMON ISLANDS
#-1214	7/25	13	27	53.3	5.531	126.459	144	4.8	-	94.25	MINDANAO, PHILIPPINES
#-1215	7/25	13	44	18.0	-7.712	127.026	232	4.6	-	82.09	KEPULAUAN BARAT DAYA, INDONESIA
#-1216	7/26	2	38	58.1	-31.427	-178.975	34	4.9	-	75.77	KERMADEC ISLANDS REGION
#-1217	7/26	5	33	31.4	-17.606	66.367	10	5.8	6.3	54.15	MAURITIUS - REUNION REGION
#-1218	7/26	6	12	12.1	-26.423	-178.615	347	5.2	-	80.71	SOUTH OF THE FIJI ISLANDS
#-1219	7/26	6	57	48.4	-40.498	176.144	28	4.9	-	66.00	NORTH ISLAND OF NEW ZEALAND
#-1220	7/26	10	48	23.1	-21.126	169.514	38	5.2	5.4	83.14	SOUTHEAST OF THE LOYALTY ISLANDS
#-1221	7/26	23	58	37.4	-4.228	152.267	174	4.9	-	94.14	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1222	7/27	3	37	56.7	21.671	142.985	303	5.4	-	115.16	MARIANA ISLANDS REGION
#-1223	7/27	6	10	49.7	-24.192	-66.967	157	4.4	-	72.98	SALTA, ARGENTINA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1224	7/27	13	25	28.7	0.314	100.004	165	4.3	-	80.29	NORTHERN SUMATRA, INDONESIA
#-1225	7/27	19	20	45.4	-17.796	-172.803	27	4.9	-	90.26	TONGA REGION
#-1226	7/28	0	35	40.8	-30.516	-177.419	10	4.7	-	76.95	KERMADEC ISLANDS, NEW ZEALAND
#-1227	7/28	11	23	43.8	81.297	-3.976	10	5.0	-	152.03	NORTH OF SVALBARD
#-1228	7/28	16	1	11.6	4.575	-32.623	10	4.9	-	87.82	CENTRAL MID-ATLANTIC RIDGE
#-1229	7/28	16	18	45.5	4.432	-32.517	10	4.8	-	87.65	CENTRAL MID-ATLANTIC RIDGE
#-1230	7/28	17	0	40.2	-5.198	152.606	63	4.8	-	93.34	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1231	7/29	2	21	12.6	22.935	94.299	75	5.8	-	100.14	MYANMAR
#-1232	7/29	3	4	42.8	7.943	126.567	91	4.8	-	96.54	MINDANAO, PHILIPPINES
#-1233	7/29	9	20	55.1	47.375	139.065	505	5.6	-	136.83	PRIMOR'YE, RUSSIA
#-1234	7/29	14	21	17.1	-6.094	104.337	58	5.2	-	75.65	SOUTHERN SUMATRA, INDONESIA
#-1235	7/29	17	35	50.0	-12.213	-77.186	61	4.5	-	87.54	NEAR THE COAST OF CENTRAL PERU
#-1236	7/29	22	5	9.0	39.126	142.503	43	5.4	4.9	130.84	NEAR THE EAST COAST OF HONSHU, JAPAN
#-1237	7/30	1	47	53.6	-21.572	-68.615	136	4.3	-	75.97	ANTOFAGASTA, CHILE
#-1238	7/30	21	2	42.8	-22.726	173.182	10	4.4	-	82.50	SOUTHEAST OF THE LOYALTY ISLANDS
#-1239	7/31	2	20	11.1	-20.804	-175.445	35	4.7	-	86.82	TONGA
#-1240	7/31	6	50	14.2	-4.866	102.970	58	5.2	-	76.36	SOUTHERN SUMATRA, INDONESIA
#-1241	7/31	13	19	5.5	-23.578	-179.943	544	4.3	-	83.22	SOUTH OF THE FIJI ISLANDS
#-1242	7/31	13	28	7.7	-52.773	18.433	10	4.7	-	18.86	SOUTHWEST OF AFRICA
#-1243	7/31	13	52	51.0	-33.170	-179.110	10	4.7	-	74.04	SOUTH OF THE KERMADEC ISLANDS
#-1244	7/31	16	54	22.5	-52.771	18.728	10	4.7	-	18.80	SOUTHWEST OF AFRICA
#-1245	8/1	0	20	37.9	1.307	124.587	51	4.7	-	89.64	MINAHASA, SULAWESI, INDONESIA
#-1246	8/1	0	32	47.5	1.410	124.696	35	4.6	-	89.77	MINAHASA, SULAWESI, INDONESIA
#-1247	8/1	9	24	41.5	-35.752	-179.613	39	5.1	-	71.44	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1248	8/1	16	41	24.4	-3.160	130.203	61	4.3	-	87.48	SERAM, INDONESIA
#-1249	8/1	16	52	3.2	7.236	126.636	75	4.6	-	95.91	MINDANAO, PHILIPPINES
#-1250	8/2	4	58	13.6	-37.918	178.766	60	4.7	-	69.02	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1251	8/2	5	17	4.6	-37.839	-179.417	10	5.1	-	69.45	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1252	8/2	7	37	43.2	-6.925	131.106	47	5.4	-	84.29	KEPULAUAN TANIMBAR REGION, INDONESIA
#-1253	8/2	10	26	14.8	-35.555	-179.830	35	5.2	-	71.59	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1254	8/2	14	32	9.2	-61.416	-58.175	17	5.0	-	37.02	SOUTH SHETLAND ISLANDS
#-1255	8/2	15	25	18.0	1.755	89.474	16	4.8	-	78.50	NORTH INDIAN OCEAN
#-1256	8/3	1	6	1.7	-22.914	-66.174	225	4.3	-	73.91	JUJUY, ARGENTINA
#-1257	8/3	2	52	18.8	-16.773	-174.168	111	4.6	-	91.01	TONGA
#-1258	8/3	4	8	58.5	-6.941	155.702	40	5.4	5.1	92.69	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#-1259	8/3	5	8	38.5	-17.032	-176.916	35	4.8	-	90.22	FIJI REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1260	8/3	6	6	10.0	-76.308	164.063	10	5.1	-	30.86	ROSS SEA
#-1261	8/3	7	22	30.5	-16.919	-176.916	20	5.0	5.1	90.33	FIJI REGION
#-1262	8/3	11	58	58.3	-11.484	165.048	10	5.4	-	91.18	SANTA CRUZ ISLANDS
#-1263	8/3	13	1	7.7	-25.784	-13.850	10	5.1	-	53.07	SOUTHERN MID-ATLANTIC RIDGE
#-1264	8/3	13	42	17.7	-36.008	-179.704	78	4.7	-	71.17	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1265	8/3	20	43	57.5	-19.662	-179.110	648	4.6	-	87.21	FIJI REGION
#-1266	8/3	20	48	2.6	-25.888	-69.689	64	4.6	-	72.28	OFFSHORE ANTOFAGASTA, CHILE
#-1267	8/3	21	32	55.4	-55.153	-28.511	10	4.9	-	32.38	SOUTH SANDWICH ISLANDS REGION
#-1268	8/4	0	41	44.3	-3.150	130.096	46	4.5	-	87.45	SERAM, INDONESIA
#-1269	8/4	2	0	30.0	-1.758	100.471	72	5.1	-	78.48	SOUTHERN SUMATRA, INDONESIA
#-1270	8/4	8	43	42.4	-58.157	-25.342	35	4.1	-	28.96	SOUTH SANDWICH ISLANDS REGION
#-1271	8/4	9	56	16.0	-35.906	-179.079	10	4.9	-	71.39	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1272	8/4	10	54	58.4	-5.796	110.638	563	4.4	-	78.08	JAVA SEA
#-1273	8/4	11	24	15.0	4.889	96.333	35	5.3	-	83.50	NORTHERN SUMATRA, INDONESIA
#-1274	8/4	12	54	19.9	-35.729	-179.097	10	5.1	-	71.56	EAST OF THE NORTH ISLAND, NEW ZEALAND
#-1275	8/4	13	11	46.0	-32.888	-68.979	46	4.3	-	65.54	MENDOZA, ARGENTINA
#-1276	8/4	13	33	41.6	2.442	92.564	30	4.5	-	80.05	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1277	8/4	19	5	38.7	-31.945	-69.375	113	5.0	-	66.54	SAN JUAN, ARGENTINA
#-1278	8/4	19	31	34.9	-6.927	126.958	412	4.5	-	82.80	BANDA SEA
#-1279	8/4	22	23	33.4	-44.480	37.398	10	4.6	-	24.54	PRINCE EDWARD ISLANDS REGION
#-1280	8/5	5	57	58.5	-5.579	133.927	10	4.7	-	86.55	KEPULAUAN KAI, INDONESIA
#-1281	8/5	13	55	10.4	-21.151	-178.358	485	5.5	-	85.91	FIJI REGION
#-1282	8/6	4	43	26.7	-21.445	170.345	173	5.0	-	83.04	SOUTHEAST OF THE LOYALTY ISLANDS
#-1283	8/6	11	49	14.8	-52.337	13.427	10	5.0	-	20.53	SOUTHWEST OF AFRICA
#-1284	8/6	12	20	45.2	-52.415	13.499	10	5.1	-	20.44	SOUTHWEST OF AFRICA
#-1285	8/6	18	55	13.8	2.707	128.392	216	5.4	-	92.31	HALMAHERA, INDONESIA
#-1286	8/7	0	39	2.0	-27.801	-70.803	68	5.2	-	70.85	ATACAMA, CHILE
#-1287	8/7	2	2	50.3	-9.119	-75.893	124	4.8	-	90.06	CENTRAL PERU
#-1288	8/7	17	41	2.1	-4.404	135.263	41	4.8	-	88.12	NEAR THE SOUTH COAST OF PAPUA, INDONESIA
#-1289	8/7	20	36	45.9	-22.550	-63.904	42	4.6	-	73.49	SALTA, ARGENTINA
#-1290	8/7	22	48	6.0	-0.614	133.884	33	4.6	-	91.17	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1291	8/8	10	9	17.3	-54.983	-27.889	10	4.7	-	32.30	SOUTH SANDWICH ISLANDS REGION
#-1292	8/8	10	57	44.4	-15.974	178.052	13	5.6	5.5	90.18	FIJI
#-1293	8/8	12	8	19.2	-15.959	177.807	10	4.9	-	90.14	FIJI
#-1294	8/8	14	5	19.1	54.980	-161.222	56	5.6	-	163.23	ALASKA PENINSULA
#-1295	8/8	22	42	14.2	-55.750	-26.145	35	5.2	-	31.08	SOUTH SANDWICH ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#1296	8/9	5	41	4.5	-22.620	-68.340	103	4.1	-	74.90	ANTOFAGASTA, CHILE
#1297	8/9	7	9	46.7	-33.139	-15.884	10	5.2	-	46.93	SOUTHERN MID-ATLANTIC RIDGE
#1298	8/9	8	59	23.2	-1.230	-24.111	10	4.9	-	79.52	CENTRAL MID-ATLANTIC RIDGE
#1299	8/9	11	4	25.6	-8.798	116.343	117	5.3	-	77.27	LOMBOK REGION, INDONESIA
#1300	8/9	15	3	7.2	-59.748	-28.144	155	5.4	-	28.77	SOUTH SANDWICH ISLANDS REGION
#1301	8/9	19	31	30.0	-38.010	177.796	59	4.5	-	68.74	OFF EAST COAST OF THE NORTH ISLAND, N.Z.
#1302	8/9	21	51	47.0	-28.740	-71.419	42	4.0	-	70.17	OFFSHORE ATACAMA, CHILE
#1303	8/10	0	30	9.0	-19.825	41.250	10	4.7	-	49.20	MOZAMBIQUE CHANNEL
#1304	8/10	0	33	10.4	-14.187	167.276	218	4.7	-	89.21	VANUATU
#1305	8/10	1	36	25.9	-15.526	178.870	35	4.7	-	90.80	FIJI
#1306	8/10	2	19	21.5	1.374	126.943	70	4.9	-	90.54	MOLUCCA SEA
#1307	8/10	4	41	40.2	1.901	96.965	8	5.2	4.8	80.85	NIAS REGION, INDONESIA
#1308	8/10	11	40	3.6	-42.778	-83.244	10	5.2	-	60.41	WEST CHILE RISE
#1309	8/10	21	4	31.4	1.729	126.350	58	4.5	-	90.66	MOLUCCA SEA
#1310	8/10	22	48	4.4	-21.498	-66.581	208	4.4	-	75.37	POTOSI, BOLIVIA
#1311	8/11	0	16	56.8	-23.946	-66.632	195	4.5	-	73.10	JUJUUY, ARGENTINA
#1312	8/11	2	4	16.4	-35.471	-179.483	30	4.5	-	71.73	EAST OF THE NORTH ISLAND, NEW ZEALAND
#1313	8/11	6	43	17.4	-23.784	179.957	549	4.4	-	82.99	SOUTH OF THE FIJI ISLANDS
#1314	8/11	12	23	18.2	38.358	46.812	10	6.2	6.7	107.52	NORTHWESTERN IRAN
#1315	8/11	15	9	21.1	-17.914	-69.193	140	4.4	-	79.59	LA PAZ, BOLIVIA
#1316	8/12	18	31	26.1	-63.168	-157.364	10	5.0	5.0	47.31	PACIFIC-ANTARCTIC RIDGE
#1317	8/12	22	55	38.2	1.492	127.297	74	4.4	-	90.78	HALMAHERA, INDONESIA
#1318	8/13	21	12	28.7	2.733	92.068	10	4.7	-	80.18	OFF THE WEST COAST OF NORTHERN SUMATRA
#1319	8/14	2	13	59.9	-59.162	-26.167	88	5.2	-	28.51	SOUTH SANDWICH ISLANDS REGION
#1320	8/14	12	6	15.6	28.726	142.562	44	5.3	-	121.49	BONIN ISLANDS, JAPAN REGION
#1321	8/14	14	2	25.6	38.351	46.749	10	5.1	-	107.51	NORTHWESTERN IRAN
#1322	8/15	7	54	37.1	-16.792	-173.909	93	4.7	-	91.04	TONGA
#1323	8/15	17	49	6.0	38.403	46.687	10	5.3	-	107.56	NORTHWESTERN IRAN
#1324	8/16	6	35	38.2	-18.444	-177.840	548	5.0	-	88.66	FIJI REGION
#1325	8/16	12	21	55.7	-17.688	-177.423	344	4.4	-	89.48	FIJI REGION
#1326	8/16	14	14	30.3	-0.331	-18.813	10	5.1	-	78.69	CENTRAL MID-ATLANTIC RIDGE
#1327	8/17	0	12	10.4	-0.343	-18.702	10	5.2	-	78.64	CENTRAL MID-ATLANTIC RIDGE
#1328	8/17	8	47	36.9	-6.733	154.542	55	5.0	-	92.51	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#1329	8/17	20	19	52.7	-35.690	-73.700	11	4.7	-	64.38	OFFSHORE MAULE, CHILE
#1330	8/18	9	41	52.7	-1.319	120.101	11	5.8	6.1	85.59	SULAWESI, INDONESIA
#1331	8/18	10	23	31.3	-13.499	172.396	25	5.3	5.7	91.22	VANUATU REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#1332	8/18	17	45	2.4	-15.562	-173.036	15	5.4	5.4	92.41	TONGA
#1333	8/19	1	57	3.2	5.070	94.730	37	5.2	-	83.20	NORTHERN SUMATRA, INDONESIA
#1334	8/19	14	17	51.5	-4.317	143.806	148	4.6	-	91.20	NEW GUINEA, PAPUA NEW GUINEA
#1335	8/20	2	54	5.4	2.384	122.463	503	4.7	-	89.89	CELEBES SEA
#1336	8/20	7	56	57.0	-6.907	131.304	48	4.2	-	84.37	KEPULAUAN TANIMBAR REGION, INDONESIA
#1337	8/20	11	18	29.4	3.341	92.919	27	5.0	-	81.01	OFF THE WEST COAST OF NORTHERN SUMATRA
#1338	8/21	3	9	40.3	-4.802	102.971	77	5.5	-	76.42	SOUTHERN SUMATRA, INDONESIA
#1339	8/21	17	51	37.6	-0.175	92.029	15	5.1	-	77.39	SOUTHWEST OF SUMATRA, INDONESIA
#1340	8/22	10	13	56.4	-19.942	-173.615	25	5.1	-	88.00	TONGA
#1341	8/22	11	38	19.4	-6.103	147.235	87	5.3	-	90.70	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#1342	8/22	21	36	4.9	-7.034	155.598	85	4.6	-	92.57	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#1343	8/23	10	55	0.8	-17.894	-179.435	584	4.7	-	88.86	FIJI REGION
#1344	8/24	4	43	48.3	-27.315	-176.809	16	5.5	5.2	80.19	KERMADEC ISLANDS REGION
#1345	8/24	7	3	7.3	-63.119	170.714	10	5.2	5.1	43.53	BALLENY ISLANDS REGION
#1346	8/26	11	22	22.4	-65.461	-179.843	10	5.4	5.1	42.82	PACIFIC-ANTARCTIC RIDGE
#1347	8/26	15	5	37.1	2.197	126.835	92	6.3	-	91.27	MOLUCCA SEA
#1348	8/26	23	6	14.2	2.645	128.814	54	5.0	-	92.40	HALMAHERA, INDONESIA
#1349	8/27	0	12	13.0	-23.669	-69.142	121	4.4	-	74.18	ANTOFAGASTA, CHILE
#1350	8/27	0	39	55.0	-23.739	-69.414	100	5.0	-	74.20	ANTOFAGASTA, CHILE
#1351	8/27	3	47	19.0	2.171	126.844	95	5.0	-	91.25	MOLUCCA SEA
#1352	8/27	4	37	18.9	12.092	-88.590	28	6.0	6.9	114.16	OFF THE COAST OF EL SALVADOR
#1353	8/27	9	1	23.2	2.378	99.002	151	5.2	-	81.94	NORTHERN SUMATRA, INDONESIA
#1354	8/27	12	5	23.0	10.346	92.937	45	5.2	-	87.72	ANDAMAN ISLANDS, INDIA REGION
#1355	8/27	16	0	49.9	-27.140	-176.752	40	4.9	-	80.37	KERMADEC ISLANDS REGION
#1356	8/27	17	54	23.8	3.639	126.675	20	5.3	-	92.56	KEPULAUAN TALAUD, INDONESIA
#1357	8/28	8	11	25.0	-32.418	-71.169	44	4.8	-	66.66	VALPARAISO, CHILE
#1358	8/28	15	51	6.4	4.366	92.944	23	5.4	5.0	82.00	OFF THE WEST COAST OF NORTHERN SUMATRA
#1359	8/29	9	49	12.2	3.448	122.693	538	4.9	-	90.96	CELEBES SEA
#1360	8/29	13	34	30.4	-17.608	168.327	105	5.1	-	86.21	VANUATU
#1361	8/30	3	1	25.8	-8.528	-74.826	138	4.8	-	90.27	CENTRAL PERU
#1362	8/30	6	56	44.1	-3.455	130.984	35	5.2	-	87.48	CERAM SEA, INDONESIA
#1363	8/30	7	13	29.1	-3.513	130.955	35	4.4	-	87.42	SERAM, INDONESIA
#1364	8/30	8	4	37.8	-37.181	-73.463	8	5.0	-	62.93	OFFSHORE BIO-BIO, CHILE
#1365	8/30	10	53	58.7	-50.255	114.140	10	5.1	-	39.05	WESTERN INDIAN-ANTARCTIC RIDGE
#1366	8/30	12	18	43.2	-50.224	114.178	10	5.4	5.3	39.08	WESTERN INDIAN-ANTARCTIC RIDGE
#1367	8/30	13	51	6.4	70.927	-8.055	12	5.2	-	143.38	JAN MAYEN ISLAND REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1368	8/31	7	8	9.0	-34.258	-70.393	109	4.6	-	64.71	LIBERTADOR O'HIGGINS, CHILE
#-1369	8/31	12	47	33.3	10.819	126.627	28	7.2	7.6	99.24	PHILIPPINE ISLANDS REGION
#-1370	8/31	13	14	58.0	10.549	126.844	24	5.3	-	99.07	PHILIPPINE ISLANDS REGION
#-1371	8/31	13	27	32.5	10.522	126.797	35	5.4	-	99.03	PHILIPPINE ISLANDS REGION
#-1372	8/31	13	31	38.7	10.413	126.838	47	5.2	-	98.94	PHILIPPINE ISLANDS REGION
#-1373	8/31	17	0	33.7	-55.751	-27.524	23	5.0	-	31.57	SOUTH SANDWICH ISLANDS REGION
#-1374	8/31	18	21	34.8	-4.973	151.848	88	5.2	-	93.30	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1375	8/31	18	38	54.8	13.261	50.461	9	5.3	-	82.67	GULF OF ADEN
#-1376	8/31	20	26	49.7	10.719	126.714	35	5.2	-	99.18	PHILIPPINE ISLANDS REGION
#-1377	8/31	23	37	57.9	10.405	126.724	35	5.7	5.1	98.89	PHILIPPINE ISLANDS REGION
#-1378	9/1	0	1	57.6	-22.002	170.151	43	4.9	-	82.46	SOUTHEAST OF THE LOYALTY ISLANDS
#-1379	9/1	0	25	2.7	10.235	126.449	35	5.3	-	98.64	PHILIPPINE ISLANDS REGION
#-1380	9/1	1	16	8.7	10.443	126.672	35	5.5	-	98.91	PHILIPPINE ISLANDS REGION
#-1381	9/1	1	20	38.2	10.532	126.816	29	5.3	-	99.04	PHILIPPINE ISLANDS REGION
#-1382	9/1	8	13	16.4	10.357	126.884	35	5.0	-	98.90	PHILIPPINE ISLANDS REGION
#-1383	9/1	10	38	39.3	-27.210	-71.118	28	5.0	-	71.50	OFFSHORE ATACAMA, CHILE
#-1384	9/1	11	2	58.4	-0.082	123.401	155	4.7	-	87.92	SULAWESI, INDONESIA
#-1385	9/1	18	1	48.9	16.401	-92.440	252	5.3	-	119.41	CHIAPAS, MEXICO
#-1386	9/1	19	46	9.6	-21.597	-174.564	55	5.2	-	86.21	TONGA
#-1387	9/1	20	41	40.5	-6.504	143.637	57	5.0	-	89.09	NEW GUINEA, PAPUA NEW GUINEA
#-1388	9/2	8	13	31.0	-19.220	169.234	175	4.6	-	84.90	VANUATU
#-1389	9/2	12	44	3.4	78.435	6.753	10	5.2	-	148.64	SVALBARD REGION
#-1390	9/2	14	42	15.4	11.309	126.647	35	5.4	-	99.71	PHILIPPINE ISLANDS REGION
#-1391	9/3	1	31	55.7	-56.719	-141.791	10	4.9	-	54.27	PACIFIC-ANTARCTIC RIDGE
#-1392	9/3	2	14	43.4	10.332	126.391	35	5.1	-	98.71	PHILIPPINE ISLANDS REGION
#-1393	9/3	6	49	49.7	6.610	123.875	12	5.7	5.4	94.34	MORO GULF, MINDANAO, PHILIPPINES
#-1394	9/3	13	25	7.5	-10.631	165.503	55	4.8	-	92.13	SANTA CRUZ ISLANDS
#-1395	9/3	14	26	42.7	-10.780	113.891	16	4.9	-	74.55	SOUTH OF JAVA, INDONESIA
#-1396	9/3	16	7	4.6	-47.641	99.759	10	4.4	-	36.12	SOUTHEAST INDIAN RIDGE
#-1397	9/3	19	44	22.2	7.946	125.118	10	5.6	5.4	96.03	MINDANAO, PHILIPPINES
#-1398	9/3	22	27	36.2	-7.509	106.189	73	4.6	-	74.94	JAVA, INDONESIA
#-1399	9/4	0	8	25.0	-10.831	113.957	10	4.7	-	74.53	SOUTH OF JAVA, INDONESIA
#-1400	9/4	0	50	53.0	10.428	126.894	35	5.4	4.9	98.97	PHILIPPINE ISLANDS REGION
#-1401	9/4	2	12	54.2	-22.095	179.919	589	5.0	-	84.63	SOUTH OF THE FIJI ISLANDS
#-1402	9/4	4	27	13.2	-10.854	113.999	11	5.0	-	74.52	SOUTH OF JAVA, INDONESIA
#-1403	9/4	5	30	17.8	-32.678	-69.851	114	4.5	-	66.01	MENDOZA, ARGENTINA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1404	9/4	6	55	0.1	10.678	126.946	35	5.3	-	99.23	PHILIPPINE ISLANDS REGION
#-1405	9/4	6	58	2.5	10.555	126.716	35	5.6	4.9	99.03	PHILIPPINE ISLANDS REGION
#-1406	9/4	9	58	10.6	10.483	126.825	35	5.4	5.0	99.00	PHILIPPINE ISLANDS REGION
#-1407	9/4	11	38	18.2	-10.880	113.832	31	4.6	-	74.44	SOUTH OF JAVA, INDONESIA
#-1408	9/4	12	7	29.1	-10.793	113.792	30	5.2	-	74.50	SOUTH OF JAVA, INDONESIA
#-1409	9/4	12	49	6.6	-10.939	113.806	18	4.8	-	74.37	SOUTH OF JAVA, INDONESIA
#-1410	9/4	13	27	24.8	-2.666	119.143	43	4.6	-	83.99	SULAWESI, INDONESIA
#-1411	9/4	13	31	3.3	-10.680	113.906	10	5.2	-	74.65	SOUTH OF JAVA, INDONESIA
#-1412	9/4	13	39	5.8	-0.530	119.971	48	4.7	-	86.28	MINAHASA, SULAWESI, INDONESIA
#-1413	9/4	14	43	17.1	10.511	126.907	17	5.3	-	99.06	PHILIPPINE ISLANDS REGION
#-1414	9/4	15	11	13.6	10.612	126.711	38	5.5	4.8	99.08	PHILIPPINE ISLANDS REGION
#-1415	9/4	16	17	43.3	-35.776	-71.253	100	4.4	-	63.57	MAULE, CHILE
#-1416	9/4	16	31	43.4	-21.566	-178.941	503	4.7	-	85.38	FIJI REGION
#-1417	9/4	16	32	52.3	-23.218	-68.959	104	4.5	-	74.54	ANTOFAGASTA, CHILE
#-1418	9/4	18	39	9.0	4.809	96.187	37	4.7	-	83.38	NORTHERN SUMATRA, INDONESIA
#-1419	9/4	21	19	30.0	-10.798	113.974	7	4.9	-	74.56	SOUTH OF JAVA, INDONESIA
#-1420	9/5	0	35	30.3	11.602	126.700	34	5.0	-	100.00	PHILIPPINE ISLANDS REGION
#-1421	9/5	0	48	5.0	-10.815	113.838	21	4.9	-	74.50	SOUTH OF JAVA, INDONESIA
#-1422	9/5	0	59	42.0	-11.200	-73.560	139	4.2	-	87.34	CENTRAL PERU
#-1423	9/5	5	32	11.2	-12.377	166.515	50	4.4	-	90.74	SANTA CRUZ ISLANDS
#-1424	9/5	13	9	11.1	-12.484	166.501	35	5.6	5.7	90.63	SANTA CRUZ ISLANDS
#-1425	9/5	14	42	8.2	10.086	-85.305	40	6.8	7.7	111.24	COSTA RICA
#-1426	9/5	20	36	33.3	12.065	46.280	10	5.1	-	81.24	GULF OF ADEN
#-1427	9/6	1	48	59.4	-15.687	178.899	54	4.9	-	90.65	FIJI
#-1428	9/6	1	57	14.1	27.178	54.015	40	5.2	-	96.81	SOUTHERN IRAN
#-1429	9/6	2	22	18.7	4.499	126.855	58	5.3	-	93.43	KEPULAUAN TALAUD, INDONESIA
#-1430	9/6	3	43	45.7	27.130	54.063	34	5.0	-	96.77	SOUTHERN IRAN
#-1431	9/6	6	45	57.3	-33.810	-70.012	104	4.6	-	65.01	REGION METROPOLITANA, CHILE
#-1432	9/6	6	46	33.4	-3.654	140.244	35	5.4	5.3	90.58	PAPUA, INDONESIA
#-1433	9/6	7	10	7.8	-20.360	-178.796	599	4.6	-	86.59	FIJI REGION
#-1434	9/6	14	16	17.5	-22.129	-176.220	98	4.9	-	85.38	SOUTH OF THE FIJI ISLANDS
#-1435	9/6	21	4	19.9	-16.091	-73.502	35	4.8	-	82.70	NEAR THE COAST OF SOUTHERN PERU
#-1436	9/7	0	52	40.2	-14.342	167.361	161	4.6	-	89.09	VANUATU
#-1437	9/7	2	36	59.4	-22.316	-68.183	89	4.8	-	75.13	ANTOFAGASTA, CHILE
#-1438	9/7	3	19	42.4	27.541	103.973	10	5.6	5.4	107.29	SICHUAN-YUNNAN-GUIZHOU REGION, CHINA
#-1439	9/7	5	21	9.4	-10.809	113.873	24	4.6	-	74.52	SOUTH OF JAVA, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1440	9/7	6	58	58.8	-6.877	72.179	10	5.2	-	65.83	CHAGOS ARCHIPELAGO REGION
#-1441	9/7	9	41	26.4	-10.881	113.788	10	4.5	-	74.42	SOUTH OF JAVA, INDONESIA
#-1442	9/7	12	30	31.5	2.453	128.257	164	5.3	-	92.02	HALMAHERA, INDONESIA
#-1443	9/7	14	45	11.7	-10.819	113.856	20	4.3	-	74.50	SOUTH OF JAVA, INDONESIA
#-1444	9/7	17	41	5.4	-10.820	113.874	25	5.4	4.6	74.51	SOUTH OF JAVA, INDONESIA
#-1445	9/7	18	44	1.1	21.598	143.353	267	5.0	-	115.23	MARIANA ISLANDS REGION
#-1446	9/7	19	48	51.9	-10.954	113.729	28	4.7	-	74.33	SOUTH OF JAVA, INDONESIA
#-1447	9/7	21	57	41.2	-22.817	-66.432	204	4.5	-	74.09	JUJUY, ARGENTINA
#-1448	9/8	1	5	33.8	7.122	126.713	89	4.5	-	95.83	MINDANAO, PHILIPPINES
#-1449	9/8	4	11	47.8	-9.819	160.382	41	5.2	-	91.41	SOLOMON ISLANDS
#-1450	9/8	5	9	54.7	-7.110	-12.584	10	4.6	-	70.34	ASCENSION ISLAND REGION
#-1451	9/8	6	54	18.5	21.529	145.923	5	5.6	5.4	116.08	MARIANA ISLANDS REGION
#-1452	9/8	7	18	17.0	6.572	95.572	243	4.6	-	84.88	NICOBAR ISLANDS, INDIA REGION
#-1453	9/8	7	36	37.2	-10.781	113.968	16	4.5	-	74.58	SOUTH OF JAVA, INDONESIA
#-1454	9/8	9	22	17.7	-10.950	113.803	10	4.6	-	74.36	SOUTH OF JAVA, INDONESIA
#-1455	9/8	10	51	44.2	-3.176	135.110	21	6.2	5.9	89.21	PAPUA, INDONESIA
#-1456	9/8	12	35	42.6	1.091	120.735	71	4.8	-	88.07	MINAHASA, SULAWESI, INDONESIA
#-1457	9/8	16	27	39.1	2.405	126.732	35	5.1	-	91.43	MOLUCCA SEA
#-1458	9/8	18	27	13.1	-6.574	106.721	7	4.8	-	76.00	JAVA, INDONESIA
#-1459	9/8	21	11	41.0	11.915	43.415	10	4.4	-	80.98	GOLFE DE TADJOURA, DJIBOUTI
#-1460	9/9	0	13	50.3	-28.113	-176.548	12	5.0	-	79.46	KERMADEC ISLANDS REGION
#-1461	9/9	3	30	25.9	-10.739	113.968	12	4.4	-	74.61	SOUTH OF BALI, INDONESIA
#-1462	9/9	5	39	17.4	49.401	155.546	31	5.2	-	144.39	KURIL ISLANDS
#-1463	9/9	5	39	37.1	49.265	155.717	31	5.5	5.5	144.34	KURIL ISLANDS
#-1464	9/9	14	36	36.5	-30.378	-177.959	57	5.0	-	76.98	KERMADEC ISLANDS, NEW ZEALAND
#-1465	9/9	15	56	56.9	-21.004	-68.763	120	4.3	-	76.55	TARAPACA, CHILE
#-1466	9/9	16	49	20.9	-3.167	135.036	50	4.7	-	89.20	PAPUA, INDONESIA
#-1467	9/9	19	23	51.4	52.819	174.936	121	5.3	-	154.08	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-1468	9/9	21	6	10.5	-7.328	128.600	151	4.5	-	83.01	KEPULAUAN BARAT DAYA, INDONESIA
#-1469	9/9	21	29	50.7	-27.470	-67.283	167	4.4	-	70.03	CATAMARCA, ARGENTINA
#-1470	9/10	0	4	44.2	-20.421	-176.522	244	4.8	-	86.99	FIJI REGION
#-1471	9/10	0	38	25.6	-10.741	113.959	10	4.8	-	74.61	SOUTH OF JAVA, INDONESIA
#-1472	9/10	2	14	5.0	-20.423	-68.954	104	4.5	-	77.16	TARAPACA, CHILE
#-1473	9/10	6	19	20.4	13.646	92.842	29	4.9	-	90.85	ANDAMAN ISLANDS, INDIA REGION
#-1474	9/10	7	51	9.6	-6.585	129.705	144	4.7	-	84.10	BANDA SEA
#-1475	9/10	11	23	29.2	3.993	126.189	42	5.1	-	92.72	KEPULAUAN TALAUD, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1476	9/10	13	16	25.1	10.488	93.545	62	4.5	-	88.03	ANDAMAN ISLANDS, INDIA REGION
#-1477	9/10	14	35	42.7	10.465	93.611	38	5.2	-	88.02	ANDAMAN ISLANDS, INDIA REGION
#-1478	9/10	19	8	45.5	0.905	92.783	15	4.8	-	78.64	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1479	9/10	23	14	31.3	0.540	98.470	54	4.8	-	80.03	NIAS REGION, INDONESIA
#-1480	9/12	2	57	26.2	-40.013	46.035	10	5.0	-	29.24	SOUTHWEST INDIAN RIDGE
#-1481	9/12	3	27	45.2	34.811	24.064	27	5.7	5.0	104.41	CRETE, GREECE
#-1482	9/12	4	28	14.8	-5.067	152.131	66	5.6	5.1	93.31	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1483	9/12	9	20	55.2	-32.549	-68.508	113	4.6	-	65.71	MENDOZA, ARGENTINA
#-1484	9/12	11	27	50.6	-10.112	161.020	84	5.2	-	91.32	SOLOMON ISLANDS
#-1485	9/12	21	52	17.4	-23.915	82.951	10	5.4	4.5	52.10	SOUTH INDIAN OCEAN
#-1486	9/13	1	55	2.3	-18.762	175.780	89	5.4	5.1	86.95	FIJI REGION
#-1487	9/13	5	54	49.0	10.245	126.917	23	5.4	-	98.81	PHILIPPINE ISLANDS REGION
#-1488	9/13	17	23	47.4	82.878	116.960	10	5.1	-	156.51	NORTH OF SEVERNAYA ZEMLYA
#-1489	9/13	21	16	43.5	-15.547	-175.666	326	4.8	-	91.92	TONGA
#-1490	9/13	22	41	14.3	-11.208	162.671	35	4.9	-	90.76	SOLOMON ISLANDS
#-1491	9/13	23	40	2.9	-10.775	113.747	10	5.4	-	74.50	SOUTH OF JAVA, INDONESIA
#-1492	9/14	4	51	47.0	-3.313	100.596	19	6.1	6.3	77.05	KEPULAUAN MENTAWAI REGION, INDONESIA
#-1493	9/14	6	56	16.9	-39.644	-16.057	10	5.1	-	41.09	SOUTHERN MID-ATLANTIC RIDGE
#-1494	9/14	7	18	38.4	-39.673	-16.032	10	5.1	5.2	41.06	SOUTHERN MID-ATLANTIC RIDGE
#-1495	9/14	16	14	58.6	-23.512	-179.109	387	4.6	-	83.45	SOUTH OF THE FIJI ISLANDS
#-1496	9/15	10	26	26.0	12.558	125.466	35	5.3	-	100.45	SAMAR, PHILIPPINES
#-1497	9/15	16	32	21.5	-10.733	113.856	10	5.6	5.3	74.58	SOUTH OF JAVA, INDONESIA
#-1498	9/15	17	35	43.5	-10.790	113.876	26	5.3	-	74.53	SOUTH OF JAVA, INDONESIA
#-1499	9/15	23	44	51.5	-55.931	-27.660	12	4.8	-	31.48	SOUTH SANDWICH ISLANDS REGION
#-1500	9/16	1	38	6.6	-10.780	165.748	95	4.6	-	92.06	SANTA CRUZ ISLANDS
#-1501	9/16	6	7	26.2	3.588	90.138	10	4.9	-	80.45	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1502	9/16	12	50	48.4	-2.749	138.705	71	4.9	-	90.89	PAPUA, INDONESIA
#-1503	9/16	13	2	53.7	-18.425	-174.693	125	5.0	-	89.29	TONGA
#-1504	9/16	13	13	29.8	-10.945	113.669	10	4.3	-	74.32	SOUTH OF JAVA, INDONESIA
#-1505	9/16	15	32	54.9	-10.734	113.860	15	4.9	-	74.58	SOUTH OF JAVA, INDONESIA
#-1506	9/16	16	17	24.5	0.496	96.928	25	4.8	-	79.50	NIAS REGION, INDONESIA
#-1507	9/16	21	46	19.7	10.591	126.676	50	5.3	-	99.05	PHILIPPINE ISLANDS REGION
#-1508	9/17	14	19	23.5	-10.785	113.812	12	4.8	-	74.52	SOUTH OF JAVA, INDONESIA
#-1509	9/17	20	7	55.3	-5.717	150.119	93	5.4	-	92.03	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1510	9/18	1	44	51.9	57.063	-154.257	53	5.5	4.7	166.69	KODIAK ISLAND REGION, ALASKA
#-1511	9/18	1	46	42.2	1.405	126.003	22	5.2	-	90.24	MOLUCCA SEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1512	9/18	3	23	41.6	-6.173	103.788	10	5.2	-	75.40	SOUTHWEST OF SUMATRA, INDONESIA		
#-1513	9/18	3	51	35.8	-29.215	-176.820	58	4.8	-	78.33	KERMADEC ISLANDS REGION		
#-1514	9/18	3	53	32.4	-31.896	-69.203	65	4.4	-	66.53	SAN JUAN, ARGENTINA		
#-1515	9/18	6	42	29.6	-10.771	114.033	39	4.8	-	74.61	SOUTH OF BALI, INDONESIA		
#-1516	9/18	8	5	40.0	4.490	126.427	45	5.0	-	93.27	KEPULAUAN TALAUD, INDONESIA		
#-1517	9/18	10	15	36.1	-20.740	167.406	35	4.9	-	82.96	LOYALTY ISLANDS		
#-1518	9/19	0	32	9.3	1.503	127.352	118	4.7	-	90.81	HALMAHERA, INDONESIA		
#-1519	9/19	6	44	23.5	-29.381	-177.017	60	4.7	-	78.14	KERMADEC ISLANDS, NEW ZEALAND		
#-1520	9/20	3	32	40.5	-20.259	167.190	32	4.8	-	83.36	LOYALTY ISLANDS		
#-1521	9/20	5	40	19.6	-20.537	-176.155	210	4.8	-	86.95	FIJI REGION		
#-1522	9/20	6	8	6.5	-13.889	-72.516	87	4.9	-	84.46	CENTRAL PERU		
#-1523	9/20	10	7	5.5	-34.271	-72.226	18	4.5	-	65.26	LIBERTADOR O'HIGGINS, CHILE		
#-1524	9/20	15	52	35.1	2.179	126.818	92	5.0	-	91.25	MOLUCCA SEA		
#-1525	9/20	17	44	51.4	-5.735	149.821	121	5.1	-	91.91	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1526	9/20	21	3	42.0	-20.749	-178.520	569	5.3	-	86.27	FIJI REGION		
#-1527	9/20	21	21	5.4	5.995	126.379	106	5.3	-	94.66	MINDANAO, PHILIPPINES		
#-1528	9/21	2	14	53.0	-10.800	113.981	30	4.5	-	74.56	SOUTH OF BALI, INDONESIA		
#-1529	9/21	3	25	48.5	-25.757	178.544	558	4.7	-	80.78	SOUTH OF THE FIJI ISLANDS		
#-1530	9/21	9	22	25.9	-32.940	-69.725	101	4.4	-	65.72	MENDOZA, ARGENTINA		
#-1531	9/21	12	17	26.4	-19.585	-68.993	107	5.4	-	77.96	TARAPACA, CHILE		
#-1532	9/22	4	18	12.0	-22.017	-68.822	117	4.5	-	75.62	ANTOFAGASTA, CHILE		
#-1533	9/22	6	58	26.1	-20.896	-174.194	11	5.4	5.1	86.96	TONGA		
#-1534	9/22	12	29	58.0	16.262	-98.281	6	5.4	-	121.22	OAXACA, MEXICO		
#-1535	9/22	13	31	4.0	-6.289	151.101	59	4.9	-	91.81	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1536	9/22	14	38	7.4	-32.345	-14.239	10	4.9	-	47.11	SOUTHERN MID-ATLANTIC RIDGE		
#-1537	9/23	6	40	57.1	-16.922	175.178	34	5.3	-	88.59	FIJI REGION		
#-1538	9/23	8	47	17.7	-13.214	-77.116	72	4.1	-	86.57	NEAR THE COAST OF CENTRAL PERU		
#-1539	9/23	10	28	3.6	-16.792	66.382	10	4.7	-	54.95	MID-INDIAN RIDG		
#-1540	9/24	0	27	58.4	5.681	126.592	35	5.1	-	94.44	MINDANAO, PHILIPPINES		
#-1541	9/24	1	18	52.3	-20.470	-177.998	455	4.2	-	86.65	FIJI REGION		
#-1542	9/25	1	43	14.4	-53.252	25.399	16	5.2	-	16.98	SOUTH OF AFRICA		
#-1543	9/25	3	8	13.9	-9.420	124.717	21	4.8	-	79.67	TIMOR REGION		
#-1544	9/25	5	37	52.4	-25.144	178.860	565	5.2	-	81.44	SOUTH OF THE FIJI ISLANDS		
#-1545	9/25	8	8	27.2	1.858	127.387	117	4.7	-	91.15	HALMAHERA, INDONESIA		
#-1546	9/25	14	21	39.3	36.105	142.312	22	5.0	-	128.08	OFF THE EAST COAST OF HONSHU, JAPAN		
#-1547	9/25	18	33	1.7	-21.192	-174.313	10	5.4	5.3	86.67	TONGA		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1548	9/25	23	45	24.9	24.665	-110.170	10	5.9	6.1	132.00	GULF OF CALIFORNIA
#-1549	9/26	1	41	43.9	-21.214	-174.271	43	5.1	-	86.64	TONGA
#-1550	9/26	5	24	44.4	-32.388	-178.076	35	4.9	-	75.00	SOUTH OF THE KERMADEC ISLANDS
#-1551	9/26	6	45	18.4	-18.851	-175.444	162	5.0	-	88.73	TONGA
#-1552	9/26	11	52	53.5	27.329	52.904	40	4.2	-	96.87	SOUTHERN IRAN
#-1553	9/26	13	14	21.6	-5.769	35.886	10	4.5	-	63.27	TANZANIA
#-1554	9/26	17	15	53.5	-26.045	-177.407	110	5.0	-	81.32	SOUTH OF THE FIJI ISLANDS
#-1555	9/26	17	45	0.4	-22.259	-68.502	108	5.3	-	75.29	ANTOFAGASTA, CHILE
#-1556	9/27	16	39	0.0	-20.076	-69.254	100	4.7	-	77.57	TARAPACA, CHILE
#-1557	9/27	22	18	23.0	-22.883	-68.947	102	4.8	-	74.85	ANTOFAGASTA, CHILE
#-1558	9/27	23	7	26.0	-28.475	-70.084	99	4.6	-	69.99	ATACAMA, CHILE
#-1559	9/27	23	53	49.2	-8.844	157.480	10	5.6	5.4	91.44	SOLOMON ISLANDS
#-1560	9/28	2	8	33.3	-19.328	-173.496	54	4.2	-	88.63	TONGA
#-1561	9/28	3	11	50.3	-31.430	-67.915	96	4.1	-	66.55	SAN JUAN, ARGENTINA
#-1562	9/28	23	22	31.5	-8.939	157.443	13	5.2	-	91.34	SOLOMON ISLANDS
#-1563	9/29	7	11	13.0	16.311	-98.386	12	5.3	4.9	121.02	OAXACA, MEXICO
#-1564	9/29	11	24	32.5	6.098	92.790	23	5.3	-	83.61	NICOBAR ISLANDS, INDIA REGION
#-1565	9/29	16	13	30.1	-56.192	-26.913	82	4.7	-	31.01	SOUTH SANDWICH ISLANDS REGION
#-1566	9/29	16	25	41.6	-7.055	124.158	587	4.8	-	81.68	BANDA SEA
#-1567	9/29	17	48	57.9	-17.483	-69.671	131	5.1	-	80.15	LA PAZ, BOLIVIA
#-1568	9/30	1	52	25.7	2.610	89.701	10	4.9	-	79.39	NORTH INDIAN OCEAN
#-1569	9/30	15	35	53.6	22.992	146.050	35	5.4	-	117.47	EAST OF THE VOLCANO ISLANDS
#-1570	9/30	16	31	35.8	1.920	-76.355	170	7.0	-	100.64	COLOMBIA
#-1571	10/1	17	24	42.2	-24.588	-179.380	462	5.0	-	82.35	SOUTH OF THE FIJI ISLANDS
#-1572	10/2	3	33	30.2	-18.820	-174.836	97	5.0	-	88.88	TONGA
#-1573	10/2	11	35	51.8	-21.109	-174.474	35	5.1	-	86.70	TONGA
#-1574	10/2	14	55	30.7	-3.632	101.476	58	4.5	-	77.03	SOUTHERN SUMATRA, INDONESIA
#-1575	10/2	17	37	22.2	-2.871	101.905	107	5.3	-	77.89	SOUTHERN SUMATRA, INDONESIA
#-1576	10/2	17	50	19.5	-27.482	-68.967	84	4.3	-	70.56	ATACAMA, CHILE
#-1577	10/2	18	37	40.8	26.837	92.784	56	5.2	-	103.45	ASSAM, INDIA
#-1578	10/2	18	39	8.2	-20.609	-174.236	3	5.0	-	87.24	TONGA
#-1579	10/2	19	41	29.6	-65.000	177.927	17	5.4	5.1	42.94	BALLENY ISLANDS REGION
#-1580	10/3	6	26	17.4	-6.277	152.746	31	5.3	-	92.36	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1581	10/3	13	32	34.7	-0.452	97.646	9	5.6	5.5	78.83	KEPULAUAN BATU, INDONESIA
#-1582	10/3	18	28	33.4	5.860	126.955	145	5.4	-	94.74	MINDANAO, PHILIPPINES
#-1583	10/3	21	2	38.6	-5.754	151.181	55	5.0	-	92.34	NEW BRITAIN REGION, PAPUA NEW GUINEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1584	10/3	22	48	57.9	-14.292	-76.037	35	4.9	-	85.21	NEAR THE COAST OF CENTRAL PERU
#-1585	10/4	3	51	33.5	-10.781	113.981	8	4.8	-	74.58	SOUTH OF BALI, INDONESIA
#-1586	10/4	6	11	3.7	-24.057	-66.877	159	4.8	-	73.08	SALTA, ARGENTINA
#-1587	10/4	6	38	45.0	-8.224	123.452	10	4.9	-	80.34	FLORES REGION, INDONESIA
#-1588	10/5	10	34	6.9	-8.197	123.512	10	4.4	-	80.38	FLORES REGION, INDONESIA
#-1589	10/5	18	8	19.0	-6.636	129.530	152	5.0	-	83.99	BANDA SEA
#-1590	10/6	3	18	13.9	-32.143	-72.169	1	4.6	-	67.22	OFFSHORE COQUIMBO, CHILE
#-1591	10/6	7	56	29.4	-25.573	-177.618	155	4.5	-	81.74	SOUTH OF THE FIJI ISLANDS
#-1592	10/6	19	19	53.5	-17.393	-174.966	191	4.5	-	90.25	TONGA
#-1593	10/7	1	56	50.4	-20.662	-174.129	22	4.7	-	87.20	TONGA
#-1594	10/7	7	38	45.9	-15.439	-172.044	10	4.8	-	92.71	SAMOA ISLANDS REGION
#-1595	10/7	8	36	32.6	-5.528	151.744	39	5.3	-	92.74	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1596	10/8	1	25	56.5	-21.301	-178.636	587	4.5	-	85.71	FIJI REGION
#-1597	10/8	1	50	22.9	-21.718	-68.133	92	6.0	-	75.68	ANTOFAGASTA, CHILE
#-1598	10/8	2	54	13.0	-21.804	-68.574	131	4.1	-	75.68	ANTOFAGASTA, CHILE
#-1599	10/8	12	20	52.3	-4.447	129.231	10	4.9	-	85.90	BANDA SEA
#-1600	10/9	0	30	20.6	-20.897	-174.074	28	4.8	-	86.98	TONGA
#-1601	10/9	3	30	33.2	-29.393	-69.211	97	4.8	-	68.88	SAN JUAN, ARGENTINA
#-1602	10/9	4	41	57.5	4.781	96.425	44	4.7	-	83.54	NORTHERN SUMATRA, INDONESIA
#-1603	10/9	7	14	59.8	-2.701	139.107	35	5.1	-	91.07	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1604	10/9	7	49	51.8	-2.720	139.224	20	5.6	5.4	91.10	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1605	10/9	7	57	49.0	-2.654	139.314	25	4.8	-	91.10	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#-1606	10/9	12	14	24.4	-23.393	-179.820	549	4.5	-	83.38	SOUTH OF THE FIJI ISLANDS
#-1607	10/10	15	29	32.6	-6.478	153.729	36	4.8	-	92.49	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1608	10/10	22	49	33.0	-60.326	-26.573	35	5.4	-	27.85	SOUTH SANDWICH ISLANDS REGION
#-1609	10/11	4	38	24.0	-33.996	-72.442	35	4.7	-	65.49	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#-1610	10/11	5	47	11.4	4.561	125.674	164	4.9	-	93.05	KEPULAUAN SANGIHE, INDONESIA
#-1611	10/11	17	7	54.7	1.471	92.585	35	5.3	5.1	79.12	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1612	10/11	17	22	9.9	-32.865	-70.310	82	5.5	-	66.00	VALPARAISO, CHILE
#-1613	10/11	22	3	43.9	-56.316	-25.710	21	5.1	-	30.49	SOUTH SANDWICH ISLANDS REGION
#-1614	10/11	22	58	57.8	-19.563	-64.064	602	4.6	-	76.33	CHUQUISACA, BOLIVIA
#-1615	10/12	0	31	28.2	-4.892	134.030	13	6.3	6.6	87.23	NEAR THE SOUTH COAST OF PAPUA, INDONESIA
#-1616	10/12	1	29	15.6	-4.939	133.916	10	4.7	-	87.14	NEAR THE SOUTH COAST OF PAPUA, INDONESIA
#-1617	10/12	21	26	34.4	-23.627	-67.805	108	4.9	-	73.80	ANTOFAGASTA, CHILE
#-1618	10/13	3	35	21.1	1.767	127.260	35	4.4	-	91.02	HALMAHERA, INDONESIA
#-1619	10/13	10	3	59.7	-11.106	162.831	52	5.1	-	90.91	SOLOMON ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1620	10/13	17	52	49.9	-19.963	-173.991	24	5.1	-	87.98	TONGA
#-1621	10/13	23	7	54.6	-2.583	142.326	23	5.3	-	92.36	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#-1622	10/14	3	37	30.0	-34.606	-72.209	15	4.5	-	64.94	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#-1623	10/14	3	42	26.2	4.552	125.124	51	4.8	-	92.83	KEPULAUAN SANGIHE, INDONESIA
#-1624	10/14	4	58	4.9	-7.145	156.048	37	5.8	5.5	92.61	SOLOMON ISLANDS
#-1625	10/14	9	41	58.9	48.308	154.428	35	5.7	5.2	143.08	KURIL ISLANDS
#-1626	10/14	10	50	17.1	-35.310	-73.932	21	4.8	-	64.83	OFF THE COAST OF MAULE, CHILE
#-1627	10/14	11	9	34.4	48.345	154.429	35	5.1	-	143.12	KURIL ISLANDS
#-1628	10/14	14	16	53.3	48.380	154.453	62	5.0	-	143.17	KURIL ISLANDS
#-1629	10/15	0	5	36.1	-38.311	175.990	195	4.9	-	67.99	NORTH ISLAND OF NEW ZEALAND
#-1630	10/15	7	49	1.8	-13.114	165.506	35	5.3	-	89.72	VANUATU
#-1631	10/15	16	5	11.9	-10.843	113.728	22	4.3	-	74.42	SOUTH OF JAVA, INDONESIA
#-1632	10/15	20	19	0.5	-20.446	-178.251	534	5.2	-	86.73	FIJI REGION
#-1633	10/15	21	4	20.6	-31.814	-71.787	24	5.2	-	67.52	OFFSHORE COQUIMBO, CHILE
#-1634	10/15	22	45	2.6	51.810	159.519	35	5.1	-	147.83	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#-1635	10/16	2	3	28.7	31.277	140.222	101	5.4	-	123.01	IZU ISLANDS, JAPAN REGION
#-1636	10/17	2	25	58.9	-13.556	-70.255	47	4.7	-	84.11	CENTRAL PERU
#-1637	10/17	5	49	23.8	-4.853	15.163	160	4.9	-	93.31	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1638	10/17	15	58	56.4	-1.127	126.881	42	4.7	-	88.18	KEPULAUAN SULA, INDONESIA
#-1639	10/17	17	23	42.9	-19.042	-174.187	35	5.5	5.0	88.82	TONGA
#-1640	10/17	19	38	55.8	1.265	97.229	33	5.0	-	80.36	NIAS REGION, INDONESIA
#-1641	10/17	22	52	2.9	-24.163	-66.953	158	4.3	-	73.01	SALTA, ARGENTINA
#-1642	10/18	4	14	32.3	-8.059	123.671	43	5.1	-	80.50	FLORES REGION, INDONESIA
#-1643	10/18	5	23	14.0	-34.689	-71.906	43	4.2	-	64.77	LIBERTADOR O'HIGGINS, CHILE
#-1644	10/18	21	24	21.9	-62.782	155.877	10	4.9	-	40.87	BALLENY ISLANDS REGION
#-1645	10/19	5	8	46.0	-19.305	-177.564	560	4.5	-	87.89	FIJI REGION
#-1646	10/19	6	42	13.8	-38.858	176.112	10.8	4.9	-	67.57	NORTH ISLAND OF NEW ZEALAND
#-1647	10/19	10	13	54.9	-9.288	67.057	10	4.8	-	62.26	MID-INDIAN RIDGE
#-1648	10/19	11	55	54.1	-10.296	161.252	112	4.5	-	91.25	SOLOMON ISLANDS
#-1649	10/19	15	34	9.7	-30.809	-176.800	35	5.5	4.8	76.73	KERMADEC ISLANDS REGION
#-1650	10/19	17	22	8.5	-21.039	176.649	74	5.1	-	84.89	SOUTH OF THE FIJI ISLANDS
#-1651	10/19	22	48	18.2	-31.758	-71.950	10	4.6	-	67.52	OFFSHORE COQUIMBO, CHILE
#-1652	10/20	16	29	49.8	-3.455	100.620	26	4.8	-	76.82	KEPULAUAN MENTAWAI REGION, INDONESIA
#-1653	10/20	21	48	50.4	-21.514	-66.671	205	4.6	-	75.39	POTOSI, BOLIVIA
#-1654	10/20	23	0	32.4	-13.552	166.564	36	5.9	6.1	89.63	VANUATU
#-1655	10/20	23	30	6.3	-5.295	68.619	10	4.8	-	66.70	CHAGOS ARCHIPELAGO REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1656	10/21	2	41	16.2	-7.883	108.309	79	4.3	-	75.21	JAVA, INDONESIA
#-1657	10/22	9	55	55.1	-56.301	-25.590	14	5.2	-	30.48	SOUTH SANDWICH ISLANDS REGION
#-1658	10/22	14	46	41.9	2.893	147.678	10	5.1	-	99.27	FEDERATED STATES OF MICRONESIA REGION
#-1659	10/23	4	36	7.7	-24.789	179.928	508	4.8	-	82.22	SOUTH OF THE FIJI ISLANDS
#-1660	10/23	8	53	38.2	29.057	139.251	436	6.0	-	120.61	IZU ISLANDS, JAPAN REGION
#-1661	10/23	9	33	19.6	-57.512	148.206	10	5.2	5.3	43.50	WEST OF MACQUARIE ISLAND
#-1662	10/23	10	45	206.0	-25.767	-70.550	33	5.1	-	72.72	ANTOFAGASTA, CHILE
#-1663	10/23	17	47	57.5	-6.670	147.961	62	4.6	-	90.45	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-1664	10/24	0	2	52.8	-4.752	145.243	55	4.6	-	91.30	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#-1665	10/24	22	5	50.5	-22.787	63.742	527	4.5	-	73.24	SALTA, ARGENTINA
#-1666	10/24	22	12	3.2	0.115	123.579	152	4.6	-	88.17	MINAHASA, SULAWESI, INDONESIA
#-1667	10/25	1	39	42.3	-6.405	130.218	133	4.6	-	84.61	BANDA SEA
#-1668	10/25	5	37	58.0	-32.773	-70.165	105	4.8	-	65.86	VALPARAISO, CHILE
#-1669	10/25	5	39	32.2	-6.966	155.484	96	4.6	-	92.59	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#-1670	10/25	9	25	59.8	-18.003	-178.420	612	4.3	-	88.99	FIJI REGION
#-1671	10/25	10	9	45.0	0.690	124.550	174	5.0	-	89.02	MINAHASA, SULAWESI, INDONESIA
#-1672	10/25	18	40	38.8	-19.857	-178.259	598	5.3	-	87.23	FIJI REGION
#-1673	10/25	18	57	6.1	-3.907	140.348	28	5.0	-	90.33	PAPUA, INDONESIA
#-1674	10/25	20	49	35.7	-5.919	-76.074	25	5.4	-	93.17	NORTHERN PERU
#-1675	10/25	22	33	50.1	-50.186	114.063	10	4.7	-	39.06	WESTERN INDIAN-ANTARCTIC RIDGE
#-1676	10/26	1	19	35.1	-13.555	166.647	58	4.2	-	89.63	VANUATU
#-1677	10/26	21	38	18.6	-11.580	165.484	31	5.1	-	91.21	SANTA CRUZ ISLANDS
#-1678	10/27	0	49	36.9	-27.807	-66.631	144	4.5	-	69.51	CATAMARCA, ARGENTINA
#-1679	10/27	7	2	40.8	-22.337	179.899	562	4.8	-	84.45	SOUTH OF THE FIJI ISLANDS
#-1680	10/27	9	32	30.2	9.820	57.091	10	5.2	-	79.92	CARLSBERG RIDGE
#-1681	10/27	15	46	28.3	10.415	126.812	35	5.2	-	99.02	PHILIPPINE ISLANDS REGION
#-1682	10/27	20	13	3.3	-6.141	151.532	39	5.4	4.8	92.11	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1683	10/27	20	14	57.4	-21.494	169.829	23	5.0	-	82.82	SOUTHEAST OF THE LOYALTY ISLANDS
#-1684	10/27	20	56	45.5	-16.277	-176.031	345	4.6	-	91.18	FIJI REGION
#-1685	10/27	22	23	14.7	-6.133	154.360	61	4.8	-	93.01	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#-1686	10/28	2	43	8.6	10.431	126.635	10	5.3	-	98.89	PHILIPPINE ISLANDS REGION
#-1687	10/28	3	8	52.4	10.345	92.575	58	5.0	-	87.63	ANDAMAN ISLANDS, INDIA REGION
#-1688	10/28	3	14	10.0	52.629	-132.243	10	5.8	-	163.11	QUEEN CHARLOTTE
#-1689	10/28	4	25	28.5	52.624	-132.490	10	5.2	-	162.57	HAIDA GWAI REGION, BR. COLUMBIA, CANADA
#-1690	10/28	9	17	27.7	52.243	-132.010	10	5.1	-	162.71	HAIDA GWAI REGION, BR. COLUMBIA, CANADA
#-1691	10/28	19	3	21.8	52.834	-132.667	10	5.4	-	163.30	HAIDA GWAI REGION, BR. COLUMBIA, CANADA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic	Coordinates		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	Latitude (deg)	Longitude (deg)	Mb		Ms			
#-1692	10/28	19	9	53.9	52.294	-132.082	10	5.6	-	162.76	HAIDA GWAI REGION, BR. COLUMBIA, CANADA	
#-1693	10/29	2	22	44.5	0.880	98.381	59	5.4	-	80.34	NIAS REGION, INDONESIA	
#-1694	10/29	6	28	33.1	-8.185	123.465	10	5.2	5.1	80.38	FLORES REGION, INDONESIA	
#-1695	10/29	10	30	42.3	-24.584	179.371	508	4.8	-	82.06	SOUTH OF THE FIJI ISLANDS	
#-1696	10/29	15	29	50.3	-0.142	125.185	35	5.6	5.1	88.51	MOLUCCA SEA	
#-1697	10/29	19	49	7.4	-0.457	132.789	39	5.1	-	90.91	NEAR THE NORTH COAST OF PAPUA, INDONESIA	
#-1698	10/29	21	20	33.3	-4.762	153.216	61	4.9	-	93.95	NEW IRELAND REGION, PAPUA NEW GUINEA	
#-1699	10/29	23	40	18.3	-8.210	123.417	17	4.7	-	80.30	FLORES REGION, INDONESIA	
#-1700	10/30	0	41	33.6	-36.192	-100.219	10	4.7	-	70.60	SOUTHEAST OF EASTER ISLAND	
#-1701	10/30	2	55	8.0	52.222	-132.117	19	5.0	-	162.88	HAIDA GWAI REGION, BR. COLUMBIA, CANADA	
#-1702	10/30	5	22	17.0	-22.989	-69.699	69	4.2	-	74.99	ANTOFAGASTA, CHILE	
#-1703	10/30	7	12	31.0	-4.563	151.873	168	5.1	-	93.64	NEW BRITAIN REGION, PAPUA NEW GUINEA	
#-1704	10/30	7	12	34.8	-17.916	-178.589	559	4.9	-	89.02	FIJI REGION	
#-1705	10/30	10	59	32.8	-18.275	-174.714	10	5.1	-	89.47	TONGA	
#-1706	10/30	12	53	4.8	-24.817	179.992	490	4.5	-	82.15	SOUTH OF THE FIJI ISLANDS	
#-1707	10/30	13	12	29.9	-37.895	177.733	75	5.1	-	68.79	OFF EAST COAST OF THE NORTH ISLAND, N.Z.	
#-1708	10/30	15	22	52.6	-18.012	-178.547	624	4.6	-	88.96	FIJI REGION	
#-1709	10/30	21	44	14.0	-24.644	-70.087	79	4.1	-	73.57	ANTOFAGASTA, CHILE	
#-1710	10/31	15	15	7.0	-5.362	34.788	10	4.6	-	63.74	TANZANIA	
#-1711	10/31	16	26	37.7	-30.218	-177.784	56	4.6	-	77.23	KERMADEC ISLANDS, NEW ZEALAND	
#-1712	10/31	21	27	4.0	-4.609	153.415	35	4.8	-	94.13	NEW IRELAND REGION, PAPUA NEW GUINEA	
#-1713	11/1	3	31	24.9	-5.612	129.137	251	5.0	-	84.82	BANDA SEA	
#-1714	11/1	6	57	23.5	49.399	155.489	60	5.2	-	144.40	KURIL ISLANDS	
#-1715	11/1	9	48	4.2	-20.284	-177.638	502	5.0	-	86.94	FIJI REGION	
#-1716	11/1	9	50	59.0	51.011	-179.699	9	5.1	-	154.60	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA	
#-1717	11/1	12	2	3.3	-23.945	-64.956	31	4.2	-	72.51	JUJUY, ARGENTINA	
#-1718	11/1	13	26	12.2	-5.280	145.559	93	5.0	-	90.92	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA	
#-1719	11/1	14	12	1.8	-6.762	107.529	142	5.8	-	76.02	JAVA, INDONESIA	
#-1720	11/1	23	37	18.2	1.229	122.105	35	5.3	-	88.65	MINAHASA, SULAWESI, INDONESIA	
#-1721	11/1	23	43	38.2	-31.794	-67.119	109	4.3	-	65.94	SAN JUAN, ARGENTINA	
#-1722	11/2	1	22	14.0	-7.788	121.640	275	5.3	-	80.10	FLORES SEA	
#-1723	11/2	1	52	3.3	55.887	162.799	9	5.5	5.4	152.21	NEAR THE EAST COAST OF KAMCHATKA, RUSSIA	
#-1724	11/2	9	7	25.0	-21.273	-70.359	61	4.4	-	76.87	OFFSHORE ANTOFAGASTA, CHILE	
#-1725	11/2	11	38	56.5	-4.366	153.722	97	4.5	-	94.53	NEW IRELAND REGION, PAPUA NEW GUINEA	
#-1726	11/2	14	2	49.3	4.713	125.670	190	4.9	-	93.26	KEPULAUAN SANGIHE, INDONESIA	
#-1727	11/2	23	42	36.0	-34.848	-71.789	60	4.5	-	64.59	LIBERTADOR O'HIGGINS, CHILE	

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1728	11/3	2	8	25.3	-5.546	142.027	44	4.5	-	89.45	NEW GUINEA, PAPUA NEW GUINEA
#-1729	11/3	3	58	29.3	-6.331	127.960	360	4.7	-	83.73	BANDA SEA
#-1730	11/3	11	12	21.6	10.515	126.930	35	5.5	-	99.10	PHILIPPINE ISLANDS REGION
#-1731	11/3	12	58	12.2	7.048	-34.073	10	5.5	5.2	90.64	CENTRAL MID-ATLANTIC RIDGE
#-1732	11/3	13	56	19.8	-15.507	-71.576	114	4.9	-	82.63	SOUTHERN PERU
#-1733	11/3	20	49	14.2	-22.033	-176.319	142	4.8	-	85.54	SOUTH OF THE FIJI ISLANDS
#-1734	11/4	0	16	32.6	-14.826	167.335	142	4.9	-	88.62	VANUATU
#-1735	11/4	1	52	12.4	-12.030	-75.690	102	4.9	-	87.24	CENTRAL PERU
#-1736	11/4	4	14	2.7	5.837	126.209	148	4.7	-	94.46	MINDANAO, PHILIPPINES
#-1737	11/4	4	16	40.7	-29.874	-177.736	26	4.7	-	77.50	KERMADEC ISLANDS, NEW ZEALAND
#-1738	11/4	6	37	38.2	-15.874	-71.878	138	5.4	-	82.34	SOUTHERN PERU
#-1739	11/4	12	13	3.5	-22.265	171.388	119	5.0	-	82.51	SOUTHEAST OF THE LOYALTY ISLANDS
#-1740	11/4	16	28	22.3	5.474	125.478	204	4.7	-	93.90	MINDANAO, PHILIPPINES
#-1741	11/4	17	7	12.5	-24.694	-179.205	412	4.8	-	82.62	SOUTH OF THE FIJI ISLANDS
#-1742	11/4	19	8	24.0	-20.352	-67.799	158	4.9	-	76.87	POTOSI, BOLIVIA
#-1743	11/4	23	46	38.7	4.600	125.076	37	5.3	-	92.89	KEPULAUAN SANGIHE, INDONESIA
#-1744	11/5	0	24	43.5	-28.775	61.983	10	5.2	-	42.41	SOUTHWEST INDIAN RIDGE
#-1745	11/5	0	55	39.8	4.684	125.144	43	5.1	-	92.98	KEPULAUAN SANGIHE, INDONESIA
#-1746	11/5	4	30	26.7	37.791	143.610	19	5.7	5.2	130.06	OFF THE EAST COAST OF HONSHU, JAPAN
#-1747	11/5	11	59	28.6	1.493	128.319	89	4.7	-	91.16	HALMAHERA, INDONESIA
#-1748	11/6	1	36	21.6	1.374	122.200	25	5.7	5.2	88.84	MINAHASA, SULAWESI, INDONESIA
#-1749	11/6	1	42	26.3	1.357	122.167	35	5.4	-	88.79	MINAHASA, SULAWESI, INDONESIA
#-1750	11/6	3	36	22.5	-21.571	-178.806	523	4.8	-	85.53	FIJI REGION
#-1751	11/6	11	9	31.9	-35.465	-104.800	10	4.7	4.9	72.12	SOUTHEAST OF EASTER ISLAND
#-1752	11/6	14	20	36.1	-3.836	148.846	10	4.8	-	93.36	BISMARCK SEA
#-1753	11/7	16	35	46.9	13.988	-91.895	24	6.6	7.4	116.94	OFFSHORE GUATEMALA
#-1754	11/7	21	19	24.5	-22.471	-68.461	101	4.7	-	75.14	ANTOFAGASTA, CHILE
#-1755	11/7	22	41	33.1	-37.512	-72.985	39	4.8	-	62.45	BIO-BIO, CHILE
#-1756	11/7	23	42	19.4	-8.652	148.034	118	5.5	-	88.56	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-1757	11/8	3	23	36.6	-18.652	168.724	105	4.7	-	85.32	VANUATU
#-1758	11/8	3	24	28.3	-36.132	53.497	6	5.1	-	33.68	SOUTH INDIAN OCEAN
#-1759	11/8	4	27	16.6	-55.942	-27.384	94	4.6	-	31.38	SOUTH SANDWICH ISLANDS REGION
#-1760	11/8	7	13	5.8	-18.167	-178.025	618	4.4	-	88.90	FIJI REGION
#-1761	11/8	7	39	42.8	-14.663	167.194	101	5.1	-	88.68	VANUATU
#-1762	11/8	17	38	5.3	-49.699	117.354	10	5.2	-	40.58	WESTERN INDIAN-ANTARCTIC RIDGE
#-1763	11/8	17	56	38.4	-18.807	-173.330	11	5.1	-	89.20	TONGA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1764	11/8	23	57	57.2	-31.882	-69.070	107	4.6	-	66.63	SAN JUAN, ARGENTINA		
#-1765	11/9	3	51	57.8	36.838	141.246	37	5.2	4.7	128.36	NEAR THE EAST COAST OF HONSHU, JAPAN		
#-1766	11/9	5	51	42.2	-42.732	124.723	10	5.3	-	49.21	SOUTH OF AUSTRALIA		
#-1767	11/9	6	40	16.0	-22.982	-68.924	98	4.3	-	74.66	ANTOFAGASTA, CHILE		
#-1768	11/9	9	54	39.8	-56.391	-27.344	116	5.2	-	31.03	SOUTH SANDWICH ISLANDS REGION		
#-1769	11/9	14	42	42.5	14.063	-92.250	35	4.6	-	96.22	OFFSHORE GUATEMALA		
#-1770	11/9	15	7	51.0	-7.947	117.614	35	5.3	-	78.53	BALI SEA		
#-1771	11/9	17	20	25.3	-20.695	-177.005	274	4.8	-	86.73	FIJI REGION		
#-1772	11/9	19	59	45.9	0.886	97.464	22	5.2	-	80.10	NIAS REGION, INDONESIA		
#-1773	11/10	6	5	26.6	-7.472	106.668	51	5.1	-	75.14	JAVA, INDONESIA		
#-1774	11/10	9	10	27.2	-15.307	-173.238	35	4.5	-	92.61	TONGA		
#-1775	11/10	13	43	31.6	-4.955	134.022	10	4.9	-	87.22	NEAR THE SOUTH COAST OF PAPUA, INDONESIA		
#-1776	11/10	14	57	50.7	-8.866	-75.071	129	5.9	-	90.03	CENTRAL PERU		
#-1777	11/11	2	55	43.0	-11.617	166.228	82	4.9	-	91.38	SANTA CRUZ ISLANDS		
#-1778	11/11	4	11	37.3	-17.791	-178.428	511	4.5	-	89.24	FIJI REGION		
#-1779	11/11	4	51	14.5	-4.990	133.917	13	4.2	-	87.08	NEAR THE SOUTH COAST OF PAPUA, INDONESIA		
#-1780	11/11	5	1	16.5	-17.272	-177.816	579	4.8	-	89.81	FIJI REGION		
#-1781	11/11	5	10	55.9	-33.962	-72.132	13	4.6	-	65.53	OFFSHORE LIBERTADOR O'HIGGINS, CHILE		
#-1782	11/11	5	24	46.5	-8.531	118.423	131	4.5	-	78.17	SUMBAWA REGION, INDONESIA		
#-1783	11/11	5	46	48.1	-33.977	-72.183	16	4.8	-	65.53	OFFSHORE LIBERTADOR O'HIGGINS, CHILE		
#-1784	11/11	7	24	21.0	-33.973	-72.272	38	4.4	-	65.55	OFFSHORE LIBERTADOR O'HIGGINS, CHILE		
#-1785	11/11	7	52	36.2	-5.916	130.236	10	4.8	-	84.89	BANDA SEA		
#-1786	11/11	8	2	27.9	3.263	-31.430	10	4.7	-	86.21	CENTRAL MID-ATLANTIC RIDGE		
#-1787	11/11	14	56	10.5	-10.755	164.828	26	5.2	5.0	91.82	SANTA CRUZ ISLANDS REGION		
#-1788	11/11	18	19	45.0	23.132	95.866	28	5.5	5.4	100.86	MYANMAR		
#-1789	11/11	21	33	7.7	-5.450	151.688	50	5.3	-	92.74	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1790	11/11	23	16	44.3	49.357	155.213	71	5.1	-	144.26	KURIL ISLANDS		
#-1791	11/11	23	21	13.5	13.897	-92.299	35	5.0	-	116.98	OFFSHORE GUATEMALA		
#-1792	11/12	5	7	13.6	-45.562	-76.576	10	4.7	-	56.07	OFF THE COAST OF AISEN, CHILE		
#-1793	11/12	10	32	25.7	-24.040	-179.969	519	4.9	-	82.79	SOUTH OF THE FIJI ISLANDS		
#-1794	11/12	10	55	13.7	-45.679	-76.915	10	4.7	-	56.06	OFF THE COAST OF AISEN, CHILE		
#-1795	11/12	13	52	17.1	-5.688	149.064	173	4.7	-	91.69	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1796	11/12	14	47	41.5	-24.277	178.919	558	5.2	-	82.28	SOUTH OF THE FIJI ISLANDS		
#-1797	11/12	14	58	9.6	-17.631	-173.090	10	5.1	-	90.40	TONGA		
#-1798	11/12	20	42	14.6	57.792	-142.855	9	6.0	6.2	168.76	GULF OF ALASKA		
#-1799	11/12	23	2	24.8	-37.819	77.952	10	4.8	-	37.62	MID-INDIAN RIDGE		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1800	11/13	1	56	46.7	-17.360	-81.577	47	5.1	-	98.82	OFF THE COAST OF ECUADOR		
#-1801	11/13	3	11	24.8	-20.437	-68.891	83	4.9	-	77.14	TARAPACA, CHILE		
#-1802	11/13	4	55	45.0	52.705	-132.033	22	5.1	-	163.28	HAIDA GWAII REGION, BR. COLUMBIA, CANADA		
#-1803	11/13	6	44	16.9	-3.013	139.656	41	4.8	-	90.96	PAPUA, INDONESIA		
#-1804	11/13	23	23	48.0	-21.043	-175.934	24	5.4	5.1	86.46	TONGA		
#-1805	11/14	0	0	44.5	-27.382	-69.041	91	4.8	-	70.77	ATACAMA, CHILE		
#-1806	11/14	5	21	42.4	9.982	122.472	41	5.6	5.3	96.98	NEGROS, PHILIPPINES		
#-1807	11/14	7	41	53.2	-20.739	-174.079	10	5.2	-	87.22	TONGA		
#-1808	11/14	9	16	3.7	-30.101	-176.268	35	4.8	-	77.91	KERMADEC ISLANDS REGION		
#-1809	11/14	11	40	56.8	-20.790	-173.953	22	4.6	-	87.00	TONGA		
#-1810	11/14	18	22	6.1	-29.118	-71.190	63	6.2	-	90.63	FIJI REGION		
#-1811	11/14	19	2	6.1	-29.118	-71.190	63	6.2	-	69.74	COQUIMBO, CHILE		
#-1812	11/14	23	41	56.4	-5.860	151.341	35	5.5	5.2	92.48	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1813	11/15	0	0	10.5	-5.772	151.659	35	4.8	-	92.48	NEW BRITAIN REGION, PAPUA NEW GUINEA		
#-1814	11/15	11	22	22.6	52.496	173.351	28	5.6	4.9	153.26	NEAR ISLANDS, ALEUTIAN ISLANDS, ALASKA		
#-1815	11/15	15	47	7.6	-25.868	178.258	622	4.9	-	80.59	SOUTH OF THE FIJI ISLANDS		
#-1816	11/15	20	32	36.7	-32.666	-71.825	23	4.7	-	66.64	OFFSHORE VALPARAISO, CHILE		
#-1817	11/15	21	55	15.0	-16.878	-175.026	256	4.7	-	90.76	TONGA		
#-1818	11/16	0	7	35.5	-25.162	179.693	504	4.5	-	81.58	SOUTH OF THE FIJI ISLANDS		
#-1819	11/16	0	21	57.9	-13.288	-76.529	43	4.7	-	86.31	NEAR THE COAST OF CENTRAL PERU		
#-1820	11/16	0	38	5.0	-21.507	-69.503	54	5.0	-	76.32	ANTOFAGASTA, CHILE		
#-1821	11/16	6	5	40.4	-7.974	-74.359	146	4.3	-	90.63	NORTHERN PERU		
#-1822	11/16	6	24	42.0	-53.955	-134.758	10	5.3	5.3	56.91	PACIFIC-ANTARCTIC RIDGE		
#-1823	11/16	8	25	57.7	35.217	140.988	42	5.3	-	126.84	NEAR THE EAST COAST OF HONSHU, JAPAN		
#-1824	11/16	18	0	29.9	-55.782	-26.581	35	4.9	-	31.23	SOUTH SANDWICH ISLANDS REGION		
#-1825	11/17	2	51	23.3	-14.990	167.460	123	5.5	-	88.49	VANUATU		
#-1826	11/17	3	11	29.1	-36.905	-95.964	10	4.5	-	68.99	WEST CHILE RISE		
#-1827	11/17	5	29	45.0	-20.352	-178.488	587	4.7	-	86.77	FIJI REGION		
#-1828	11/17	9	6	26.7	-22.278	171.578	123	5.1	-	82.51	SOUTHEAST OF THE LOYALTY ISLANDS		
#-1829	11/17	9	9	36.5	-18.885	-68.846	125	4.7	-	78.56	ORURO, BOLIVIA		
#-1830	11/17	18	12	19.8	-37.209	-95.075	10	5.4	4.9	68.55	SOUTHEAST OF EASTER ISLAND		
#-1831	11/17	18	43	50.9	-37.182	-95.142	10	5.4	4.8	68.59	SOUTHEAST OF EASTER ISLAND		
#-1832	11/17	22	42	47.7	-6.477	130.161	118	4.9	-	84.40	BANDA SEA		
#-1833	11/18	20	1	26.4	5.979	125.809	128	5.1	-	94.44	MINDANAO, PHILIPPINES		
#-1834	11/19	4	9	26.7	-59.391	-18.067	10	5.1	-	25.54	EAST OF THE SOUTH SANDWICH ISLANDS		
#-1835	11/19	10	9	42.1	-9.666	108.263	10	4.9	-	73.74	SOUTH OF JAVA, INDONESIA		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#1836	11/19	10	55	9.0	-5.785	151.655	15	5.3	-	92.39	NEW BRITAIN REGION, PAPUA NEW GUINEA
#1837	11/19	16	34	26.3	-17.844	-70.420	57	4.6	-	80.00	SOUTHERN PERU
#1838	11/19	16	45	50.3	-33.928	-72.170	11	5.1	-	65.57	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#1839	11/19	17	54	7.4	30.538	67.584	10	5.3	-	101.65	PAKISTAN
#1840	11/20	1	9	48.0	-21.841	-70.182	67	4.6	-	76.29	OFFSHORE ANTOFAGASTA, CHILE
#1841	11/20	15	28	0.7	0.810	126.056	19	4.9	-	89.72	MOLUCCA SEA
#1842	11/20	16	23	24.6	-33.921	-72.254	16	5.4	5.2	65.59	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#1843	11/21	7	6	6.0	-5.302	154.214	412	4.7	-	94.06	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#1844	11/21	16	46	40.1	-11.359	117.931	25	5.8	5.1	75.43	SOUTH OF SUMBAWA, INDONESIA
#1845	11/21	18	16	38.5	-33.931	-72.100	19	5.1	-	65.60	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#1846	11/21	21	5	33.0	-22.088	-69.167	86	4.5	-	75.67	ANTOFAGASTA, CHILE
#1847	11/21	22	52	29.3	-33.916	-71.994	16	5.2	-	65.46	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#1848	11/22	1	42	48.0	-5.774	154.423	394	4.6	-	93.35	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#1849	11/22	5	21	47.8	54.099	168.316	20	5.3	-	152.82	KOMANDORSKIYE OSTROVA, RUSSIA REGION
#1850	11/22	5	55	12.2	-19.068	-67.458	188	4.8	-	77.87	ORURO, BOLIVIA
#1851	11/22	13	7	10.4	-22.742	-63.571	517	5.6	-	73.30	SALTA, ARGENTINA
#1852	11/22	14	16	41.0	-17.922	-178.533	583	4.1	-	89.06	FIJI REGION
#1853	11/22	18	1	10.3	-4.535	102.826	35	5.2	-	76.62	SOUTHERN SUMATRA, INDONESIA
#1854	11/22	21	29	20.0	-11.450	117.928	5	4.8	-	75.51	SOUTH OF SUMBAWA, INDONESIA
#1855	11/22	22	44	31.9	-22.354	173.923	50	5.0	-	83.07	SOUTHEAST OF THE LOYALTY ISLANDS
#1856	11/23	0	40	21.2	1.619	125.824	73	5.0	-	90.40	MOLUCCA SEA
#1857	11/23	4	52	40.0	14.069	120.708	209	5.1	-	100.17	LUZON, PHILIPPINES
#1858	11/23	6	21	7.9	-3.370	146.139	32	4.8	-	93.04	BISMARCK SEA
#1859	11/23	16	20	15.5	2.039	96.671	29	4.3	-	80.83	SIMEULUE, INDONESIA
#1860	11/23	16	37	30.6	-17.897	-178.376	566	4.6	-	89.07	FIJI REGION
#1861	11/24	1	19	24.8	-23.806	-67.822	104	4.8	-	73.62	ANTOFAGASTA, CHILE
#1862	11/24	1	30	0.6	38.230	141.702	60	5.1	-	129.76	NEAR THE EAST COAST OF HONSHU, JAPAN
#1863	11/24	12	50	20.0	-21.997	-68.823	106	4.4	-	75.64	ANTOFAGASTA, CHILE
#1864	11/24	16	26	39.5	-6.155	130.548	121	4.7	-	84.82	BANDA SEA
#1865	11/24	18	47	59.2	-21.463	-178.906	548	4.8	-	85.62	FIJI REGION
#1866	11/24	22	13	35.6	2.440	128.402	206	4.8	-	92.08	HALMAHERA, INDONESIA
#1867	11/25	7	14	55.4	5.698	126.573	81	4.8	-	94.49	MINDANAO, PHILIPPINES
#1868	11/25	12	33	17.4	-56.143	-27.253	102	4.9	-	31.20	SOUTH SANDWICH ISLANDS REGION
#1869	11/26	5	33	48.8	40.411	90.355	10	5.6	-	115.79	SOUTHERN XINJIANG, CHINA
#1870	11/26	7	23	39.6	10.438	126.702	54	5.1	-	98.95	PHILIPPINE ISLANDS REGION
#1871	11/26	7	58	23.9	-20.893	-179.174	604	4.5	-	86.08	FIJI REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1872	11/26	23	13	52.4	13.850	93.637	54	5.1	-	91.28	ANDAMAN ISLANDS, INDIA REGION
#-1873	11/27	11	58	19.3	-2.712	138.750	51	5.2	-	90.89	PAPUA, INDONESIA
#-1874	11/27	12	38	47.2	-2.697	129.312	33	4.5	-	87.39	SERAM, INDONESIA
#-1875	11/27	14	42	15.1	48.170	154.943	40	5.1	-	143.16	KURIL ISLANDS
#-1876	11/27	15	40	55.9	-56.082	-27.281	89	5.1	-	31.23	SOUTH SANDWICH ISLANDS REGION
#-1877	11/27	20	30	35.9	4.081	126.299	76	4.8	-	92.84	KEPULAUAN TALAUD, INDONESIA
#-1878	11/28	18	5	31.9	-27.975	-66.504	177	4.8	-	69.39	CATAMARCA, ARGENTINA
#-1879	11/29	0	9	39.0	-32.910	-69.106	8	5.0	-	65.59	MENDOZA, ARGENTINA
#-1880	11/29	0	30	31.2	-21.106	-178.772	541	5.1	-	85.89	FIJI REGION
#-1881	11/29	5	41	29.6	-21.005	170.028	99	4.8	-	83.39	SOUTHEAST OF THE LOYALTY ISLANDS
#-1882	11/29	7	9	12.1	-6.588	-81.070	10	5.5	4.9	94.06	NEAR THE COAST OF NORTHERN PERU
#-1883	11/29	8	11	9.7	-28.446	-178.389	257	4.8	-	79.05	KERMADEC ISLANDS REGION
#-1884	11/29	23	22	36.4	52.635	172.416	37	5.0	-	153.04	NEAR ISLANDS, ALEUTIAN ISLANDS, ALASKA
#-1885	11/30	8	26	18.7	-19.209	-177.556	564	4.4	-	88.06	FIJI REGION
#-1886	12/1	19	6	46.8	-0.586	123.701	56	4.6	-	87.50	SULAWESI, INDONESIA
#-1887	12/2	0	54	22.6	-16.975	167.645	32	6.1	6.0	86.63	VANUATU
#-1888	12/2	3	2	1.2	27.772	139.911	500	4.2	-	119.67	BONIN ISLANDS, JAPAN REGION
#-1889	12/2	13	32	44.6	-20.690	-174.214	10	5.1	-	87.17	TONGA
#-1890	12/2	15	10	53.4	-60.076	-18.991	10	4.8	-	25.32	EAST OF THE SOUTH SANDWICH ISLANDS
#-1891	12/2	23	45	14.2	45.701	151.470	42	5.0	-	139.81	KURIL ISLANDS
#-1892	12/3	3	11	10.7	-58.864	-25.565	41	4.9	-	28.56	SOUTH SANDWICH ISLANDS REGION
#-1893	12/3	9	31	53.0	-28.745	-70.302	95	4.6	-	69.78	ATACAMA, CHILE
#-1894	12/4	1	42	48.4	61.237	-150.760	62	5.6	-	171.23	SOUTHERN ALASKA
#-1895	12/4	9	26	14.0	-32.710	-71.751	38	4.6	-	66.49	OFFSHORE VALPARAISO, CHILE
#-1896	12/4	23	12	17.3	-33.836	-178.712	15	4.9	-	73.07	SOUTH OF THE KERMADEC ISLANDS
#-1897	12/5	6	32	55.0	-21.984	-68.615	119	4.3	-	75.43	ANTOFAGASTA, CHILE
#-1898	12/5	11	22	2.8	-14.968	-173.704	10	4.7	-	92.82	SAMOA ISLANDS REGION
#-1899	12/5	16	25	31.7	-28.644	-70.210	75	4.6	-	69.83	ATACAMA, CHILE
#-1900	12/5	23	41	54.1	-31.103	-177.523	18	5.0	-	76.36	KERMADEC ISLANDS REGION
#-1901	12/6	0	43	24.1	10.974	126.638	31	5.4	5.1	99.41	PHILIPPINE ISLANDS REGION
#-1902	12/6	1	15	11.7	-2.908	129.406	18	4.8	-	87.41	SERAM, INDONESIA
#-1903	12/6	2	24	28.3	-2.421	90.434	31	5.1	-	79.45	OFF THE WEST COAST OF NORTHERN SUMATRA
#-1904	12/6	6	11	42.9	-4.390	143.379	115	4.7	-	91.22	NEW GUINEA, PAPUA NEW GUINEA
#-1905	12/6	15	46	49.3	-54.068	-1.896	10	4.9	-	23.82	BOUVET ISLAND REGION
#-1906	12/6	16	52	25.9	-56.110	-27.349	121	4.9	-	31.26	SOUTH SANDWICH ISLANDS REGION
#-1907	12/6	18	58	56.1	-17.889	-69.252	133	4.9	-	79.65	LA PAZ, BOLIVIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude (deg)	Coordinates Longitude (deg)	Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s				Mb	Ms		
#-1908	12/6	20	42	16.0	-21.965	-68.681	111	4.6	-	75.50	ANTOFAGASTA, CHILE
#-1909	12/6	21	33	25.5	-54.179	-1.917	10	5.1	5.1	23.73	BOUVET ISLAND REGION
#-1910	12/7	1	35	7.9	-54.108	-1.870	10	4.9	-	23.77	BOUVET ISLAND REGION
#-1911	12/7	12	58	7.1	37.835	143.627	35	5.0	-	130.15	OFF THE EAST COAST OF HONSHU, JAPAN
#-1912	12/7	16	1	54.6	37.654	143.771	35	5.1	-	130.08	OFF THE EAST COAST OF HONSHU, JAPAN
#-1913	12/8	6	16	57.0	-7.235	144.006	35	5.1	-	88.49	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#-1914	12/8	8	11	55.7	2.577	128.353	149	4.9	-	92.17	HALMAHERA, INDONESIA
#-1915	12/8	10	27	30.3	-7.167	144.044	27	5.0	-	88.62	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#-1916	12/8	16	35	16.8	-7.211	143.973	10	5.7	5.6	88.53	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#-1917	12/8	19	0	7.4	-7.258	144.041	10	5.0	-	88.54	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#-1918	12/9	2	34	17.0	37.744	143.617	19	5.3	4.5	130.03	OFF THE EAST COAST OF HONSHU, JAPAN
#-1919	12/9	2	50	51.0	-3.434	145.305	35	4.6	-	92.55	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#-1920	12/9	12	38	39.6	-54.056	-1.676	10	4.9	-	23.85	BOUVET ISLAND REGION
#-1921	12/9	18	30	4.6	-3.563	141.117	35	5.2	-	90.89	NEW GUINEA, PAPUA NEW GUINEA
#-1922	12/9	20	52	39.2	-16.236	-174.220	138	5.2	-	91.61	TONGA
#-1923	12/9	21	45	35.2	6.703	126.166	63	5.3	-	95.26	MINDANAO, PHILIPPINES
#-1924	12/9	23	13	21.1	1.648	89.598	10	4.8	-	78.42	NORTH INDIAN OCEAN
#-1925	12/10	16	27	40.0	2.637	95.468	39	4.3	-	81.11	SIMEULUE, INDONESIA
#-1926	12/10	16	53	8.7	-6.533	129.825	155	6.6	-	84.20	BANDA SEA
#-1927	12/10	20	47	51.2	-6.511	129.904	173	5.2	-	84.27	BANDA SEA
#-1928	12/11	5	37	1.9	14.501	56.265	10	4.7	-	84.43	OWEN FRACTURE ZONE REGION
#-1929	12/11	12	18	21.4	-18.974	167.669	35	5.2	-	84.60	VANUATU
#-1930	12/11	16	27	58.9	-33.690	-179.050	44	4.2	-	73.16	SOUTH OF THE KERMADEC ISLANDS
#-1931	12/11	23	16	23.1	-18.987	167.736	35	5.0	-	84.68	VANUATU
#-1932	12/13	0	53	28.7	-30.911	-178.390	39	5.5	4.9	76.39	KERMADEC ISLANDS, NEW ZEALAND
#-1933	12/14	2	34	52.5	-5.015	152.959	43	5.0	-	93.63	NEW BRITAIN REGION, PAPUA NEW GUINEA
#-1934	12/14	4	58	48.4	13.824	-91.725	36	5.1	-	116.94	OFFSHORE GUATEMALA
#-1935	12/14	9	55	47.4	-19.140	169.584	37	4.6	-	85.16	VANUATU
#-1936	12/14	16	16	22.3	-7.644	105.928	35	4.7	-	74.54	JAVA, INDONESIA
#-1937	12/14	22	37	23.6	-6.178	130.294	124	4.8	-	84.62	BANDA SEA
#-1938	12/15	1	3	38.0	-8.726	120.287	138	4.5	-	78.88	FLORES REGION, INDONESIA
#-1939	12/15	7	33	14.3	-4.893	153.405	59	5.1	-	93.85	NEW IRELAND REGION, PAPUA NEW GUINEA
#-1940	12/15	19	16	50.1	-3.540	100.542	10	4.9	-	76.82	KEPULAUAN MENTAWAI REGION, INDONESIA
#-1941	12/15	19	30	2.1	-4.632	153.016	52	5.9	-	93.95	NEW IRELAND REGION, PAPUA NEW GUINEA
#-1942	12/16	5	52	8.9	-33.682	-179.292	47	4.7	-	73.49	SOUTH OF THE KERMADEC ISLANDS
#-1943	12/16	6	4	16.8	-10.672	166.144	146	4.7	-	92.26	SANTA CRUZ ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude		Coordinates Longitude		Dep (km)	Magnitude		Epicentral distance (deg)	Region
		h	m	s	(deg)	(deg)	Mb	Ms					
#-1944	12/16	11	46	27.0	-24.776	-70.158	39	4.7	-	73.47	ANTOFAGASTA, CHILE		
#-1945	12/16	15	52	0.9	14.185	146.733	21	5.3	-	109.53	ROTA REGION, NORTHERN MARIANA ISLANDS		
#-1946	12/17	11	28	47.2	-31.016	-178.198	35	4.9	-	76.64	KERMADEC ISLANDS REGION		
#-1947	12/20	2	11	20.2	-7.392	128.648	156	4.7	-	82.89	KEPULAUAN BARAT DAYA, INDONESIA		
#-1948	12/20	13	38	4.8	-7.065	129.291	154	4.8	-	83.45	KEPULAUAN BABAR, INDONESIA		
#-1949	12/20	15	0	17.6	-22.777	-63.606	520	4.6	-	73.18	SALTA, ARGENTINA		
#-1950	12/20	21	47	29.7	0.562	126.217	28	5.7	4.9	89.52	MOLUCCA SEA		
#-1951	12/21	1	45	18.8	-20.765	-174.065	34	4.9	-	87.13	TONGA		
#-1952	12/21	8	7	20.2	38.633	141.710	51	5.0	-	130.17	NEAR THE EAST COAST OF HONSHU, JAPAN		
#-1953	12/21	22	28	8.5	-14.344	167.286	201	6.1	-	89.08	VANUATU		
#-1954	12/22	3	50	8.2	5.169	94.221	46	5.1	-	83.09	NORTHERN SUMATRA, INDONESIA		
#-1955	12/22	7	53	2.1	-20.310	169.566	147	4.9	-	83.93	VANUATU		
#-1956	12/22	16	2	43.6	-6.077	-76.629	35	4.9	-	93.13	NORTHERN PERU		
#-1957	12/22	16	41	45.7	22.443	94.782	134	5.4	-	99.79	MYANMAR		
#-1958	12/22	22	32	43.0	1.595	126.584	38	4.5	-	90.64	MOLUCCA SEA		
#-1959	12/23	0	29	56.5	-13.086	167.110	224	5.2	-	90.23	VANUATU		
#-1960	12/23	12	52	24.4	4.190	126.584	41	5.2	-	93.04	KEPULAUAN TALAUD, INDONESIA		
#-1961	12/23	13	31	40.7	42.420	41.075	15	5.5	5.6	111.44	BLACK SEA, OFFSHORE GEORGIA		
#-1962	12/23	17	15	37.9	4.155	126.741	53	4.6	-	93.12	KEPULAUAN TALAUD, INDONESIA		
#-1963	12/23	22	19	34.8	-18.981	168.583	43	4.5	-	84.89	VANUATU		
#-1964	12/24	5	8	37.4	-33.971	-71.937	12	4.8	-	65.50	OFFSHORE LIBERTADOR O'HIGGINS, CHILE		
#-1965	12/24	5	31	33.7	-17.949	-68.906	96	4.8	-	79.82	SOUTHERN PERU		
#-1966	12/24	7	54	10.0	54.907	162.034	27	5.2	-	151.21	NEAR THE EAST COAST OF KAMCHATKA, RUSSIA		
#-1967	12/24	12	12	35.3	-29.037	-71.494	20	5.1	-	69.95	OFFSHORE ATACAMA, CHILE		
#-1968	12/24	14	35	31.5	-3.913	28.263	10	4.8	-	65.50	LAKE TANGANYIKA REGION, CONGO		
#-1969	12/24	23	24	50.0	-55.683	146.898	10	5.0	-	44.82	WEST OF MACQUARIE ISLAND		
#-1970	12/25	1	7	33.4	-22.449	-12.655	10	4.9	-	55.85	SOUTHERN MID-ATLANTIC RIDGE		
#-1971	12/25	7	34	41.2	1.109	125.464	53	5.4	-	89.78	MOLUCCA SEA		
#-1972	12/25	8	46	31.8	-7.893	101.250	20	5.1	-	72.92	SOUTHWEST OF SUMATRA, INDONESIA		
#-1973	12/25	17	8	14.7	31.978	137.845	365	4.9	-	122.79	IZU ISLANDS, JAPAN REGION		
#-1974	12/25	17	36	32.8	28.464	66.465	35	5.0	-	99.46	PAKISTAN		
#-1975	12/25	20	26	28.5	-23.837	-66.868	176	4.7	-	73.34	JUJUY, ARGENTINA		
#-1976	12/26	2	24	32.7	-5.914	147.287	96	5.1	-	90.85	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA		
#-1977	12/26	2	58	23.2	-20.690	-178.619	582	5.0	-	86.38	FIJI REGION		
#-1978	12/26	5	17	35.3	-24.561	-179.880	511	4.8	-	82.78	SOUTH OF THE FIJI ISLANDS		
#-1979	12/26	9	46	42.0	-21.095	-68.481	115	4.5	-	76.36	ANTOFAGASTA, CHILE		

Table 2. Continued.

No.	Date	Origin time UTC			Geographic	Coordinates	Dep	Magnitude		Epicentral distance	Region
		h	m	s	Latitude	Longitude		Mb	Ms		
					(deg)	(deg)	(km)			(deg)	
#-1980	12/26	13	17	57.2	-37.274	-73.267	29	5.5	5.2	62.78	BIO-BIO, CHILE
#-1981	12/26	19	8	4.0	0.852	98.756	86	4.9	-	80.46	NIAS REGION, INDONESIA
#-1982	12/26	20	24	26.6	-10.411	-13.132	10	5.3	4.9	67.35	ASCENSION ISLAND REGION
#-1983	12/26	23	1	56.6	-56.186	-144.483	10	5.5	5.2	54.78	PACIFIC-ANTARCTIC RIDGE
#-1984	12/27	0	37	8.8	-35.783	-73.255	14	5.1	5.6	64.21	OFFSHORE MAULE, CHILE
#-1985	12/27	1	18	8.6	-35.845	-73.425	38	4.7	-	64.10	OFFSHORE BIO-BIO, CHILE
#-1986	12/27	3	2	57.0	-35.770	-73.727	12	4.7	-	64.09	OFFSHORE BIO-BIO, CHILE
#-1987	12/27	6	57	7.6	-30.020	-111.879	10	4.8	-	78.51	EASTER ISLAND REGION
#-1988	12/27	9	41	59.6	-18.302	-173.562	23	5.4	-	89.63	TONGA
#-1989	12/27	9	50	18.3	-21.459	-178.924	569	4.6	-	85.56	FIJI REGION
#-1990	12/27	11	37	57.1	-31.364	-68.693	112	4.5	-	66.90	SAN JUAN, ARGENTINA
#-1991	12/27	16	33	59.8	-12.396	-14.876	10	5.2	-	66.04	SOUTHERN MID-ATLANTIC RIDGE
#-1992	12/28	5	21	11.4	0.541	126.172	46	4.7	-	89.48	MOLUCCA SEA
#-1993	12/28	8	50	7.5	-31.297	-64.992	10	4.7	-	65.72	CORDOBA, ARGENTINA
#-1994	12/28	9	38	52.7	-29.645	-176.230	10	4.5	-	77.73	KERMADEC ISLANDS REGION
#-1995	12/28	10	13	15.0	-6.689	129.863	151	4.4	-	84.13	BANDA SEA
#-1996	12/28	10	35	45.0	-29.596	-176.245	10	5.1	-	77.99	KERMADEC ISLANDS REGION
#-1997	12/28	11	7	49.9	-7.234	124.354	542	4.3	-	81.58	BANDA SEA
#-1998	12/28	13	42	34.8	55.707	164.724	35	5.5	-	152.77	KOMANDORSKIYE OSTROVA, RUSSIA REGION
#-1999	12/28	13	50	34.0	-29.553	-71.068	40	4.6	-	69.30	COQUIMBO, CHILE
#-2000	12/28	14	27	6.9	-36.004	-103.745	10	4.7	-	71.86	SOUTHEAST OF EASTER ISLAND
#-2001	12/29	1	57	40.0	-11.370	-76.860	96	4.6	-	88.22	CENTRAL PERU
#-2002	12/30	6	44	41.4	-60.906	-36.887	10	5.2	-	30.88	SCOTIA SEA
#-2003	12/30	7	56	52.0	-6.960	105.283	48	5.0	-	75.05	SUNDA STRAIT, INDONESIA
#-2004	12/30	11	33	43.0	1.569	126.587	68	5.2	-	90.64	MOLUCCA SEA
#-2005	12/30	16	58	45.1	-21.875	-176.766	248	4.7	-	85.61	FIJI REGION
#-2006	12/30	19	25	54.4	-1.994	100.797	66	4.6	-	78.32	SOUTHERN SUMATRA, INDONESIA
#-2007	12/30	20	49	27.8	-12.681	-70.938	28	5.2	-	84.70	CENTRAL PERU
#-2008	12/31	1	15	18.7	15.031	-92.037	123	5.1	-	118.03	GUATEMALA
#-2009	12/31	8	50	6.7	-3.232	86.459	10	4.8	-	72.87	SOUTH INDIAN OCEAN
#-2010	12/31	14	15	23.4	-7.712	128.422	81	4.7	-	82.61	KEPULAUAN BARAT DAYA, INDONESIA
#-2011	12/31	20	2	4.1	-61.623	154.301	10	5.2	4.9	41.54	BALLENY ISLANDS REGION