740

ISEE 1 / ISEE 2

ISEE MAGNETOMETER FOUR SECOND DATA

ON OPTICAL DISK

77-102A-04V / 77-102B-04R

ISEE 1 & 2

Fluxgate Magnetometer

4 Second Resolution B Field Data

77-102A-04V 77-102B-04R

This data set consists of one Optimem optical disk. The data are written in Files 11 format, with ASCII documentation files and binary data files. The disk is self-documenting. It also contains software to read the data files which prints the output to the screen. A sample of the readffd.for output, a listing of orbit numbers with corresponding time spans for each file and a directory list of the disk is inluded in this catalog. The disk number along with the time span follows.

| KV | Side | Spacecraft | Time Span |
|---|---|---|---|
| KV000001 | A | ISEE 1 | 10/22/77 - 03/01/80 |
| | B | ISEE 2 | 10/22/77 - 03/01/80 |

12/27/89

# ISEE MAGNETOMETER FOUR SECOND DATA OPTICAL DISK DESCRIPTION

This letter describes the format used by the ISEE-1 and ISEE-2 magnetometer group for the submission of its four second data on optical disk to the National Space Science Data Center (NSSDC).

The overall description is that the data has been written to optical disk using the NSSDC-SOAR software Version 3.1 and is stored as UCLA-IGPP flatfiles. This format divides the information into two parts, an ASCII header file that is a table of contents for the data, and a companion file that contains VAX floating point values. The two files share the same name but different type extensions, FFH for header and FFD for data.

Side 1 of the platter contains ISEE-1 magnetometer data for orbits 1-360 in spacecraft coordinates where an orbit is measured from perigee to perigee. Side 2 of the platter contains ISEE-2 magnetometer data for the same orbits with the same spacecraft coordinates and orbit definition. In each case, this covers the interval from 22October 1977 to 01March1980. The data flatfiles are stored in the VMS directory [ISEE#_4SEC], where # is either 1 or 2. This letter is stored on the disk as LETTER_4SEC.DOC in the directory [DOCUMENTATION]. This directory also contains the file PERIGEES_ISEE#.DAT, which gives the perigee times for orbits 1-360 for this spacecraft. There is also a directory named [SOFTWARE] on the disk which contains FORTRAN source code and a VMS 4.7 executable file that allows one to select an orbit and write the contents of the data file to SYS$OUTPUT. This program is called READFFD.FOR.

The external labels on the optical disk casing contain the following information: Name of the spacecraft and experiment; start and stop dates of the data on the disk; the directory structure and makeup of the UCLA-IGPP flatfiles; and a name and telephone number of the individual responsible for the optical disk.

All data is stored as VMS sequential access files. For the FFD file, the data fill value (flag value) for magnetometer values is +1.0e34. There are no fill values for the time values. The data provided are 12 second overlapping data averages of the highest resolution data, recorded every four seconds. There are no significant time gaps in the data, that is, times with fill values have been generated to fill all time gaps in the data. The format of each FFD file record is:

| | |
|---|---|
| REAL*8 | Time of data in seconds since January 1, 1966 at 00:00:00.000 |
| REAL*4 | BX magnetometer value in spacecraft coordinates for this time |
| REAL*4 | BY magnetometer value in spacecraft coordinates for this time |
| REAL*4 | BZ magnetometer value in spacecraft coordinates for this time |
| REAL*4 | BT magnetometer value for this time |

The program [SOFTWARE]READFFD.FOR includes code to convert the time value from seconds to an integer array containing: year, day of year, month, day of month, hours, minutes, seconds and milliseconds.

Questions concerning this optical disk may be directed to:

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Institute of Geophysics and Planetary Physics
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Los Angeles, California 90024-1567
(213)206-6073
SPAN: BRUNET::HARRY or BRUNET::MURIEL

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| ORBIT 002 | 77 | 298 | OCT 25 | 00:13:04.000 | - | 77 | 300 | OCT 27 | 09:35:58.197 |
| ORBIT 003 | 77 | 300 | OCT 27 | 09:36:04.000 | - | 77 | 302 | OCT 29 | 18:58:56.820 |
| ORBIT 004 | 77 | 302 | OCT 29 | 18:59:04.000 | - | 77 | 305 | NOV 1 | 04:19:59.224 |
| ORBIT 005 | 77 | 305 | NOV 1 | 04:20:04.000 | - | 77 | 307 | NOV 3 | 13:40:59.721 |
| ORBIT 006 | 77 | 307 | NOV 3 | 13:41:04.000 | - | 77 | 309 | NOV 5 | 23:01:59.342 |
| ORBIT 007 | 77 | 309 | NOV 5 | 23:02:04.000 | - | 77 | 312 | NOV 8 | 08:25:57.727 |
| ORBIT 008 | 77 | 312 | NOV 8 | 08:26:04.000 | - | 77 | 314 | NOV 10 | 17:50:59.360 |
| ORBIT 009 | 77 | 314 | NOV 10 | 17:51:04.000 | - | 77 | 317 | NOV 13 | 03:10:57.698 |
| ORBIT 010 | 77 | 317 | NOV 13 | 03:11:04.000 | - | 77 | 319 | NOV 15 | 12:30:56.334 |
| ORBIT 011 | 77 | 319 | NOV 15 | 12:31:04.000 | - | 77 | 321 | NOV 17 | 21:52:57.312 |
| ORBIT 012 | 77 | 321 | NOV 17 | 21:53:04.000 | - | 77 | 324 | NOV 20 | 07:15:56.933 |
| ORBIT 013 | 77 | 324 | NOV 20 | 07:16:04.000 | - | 77 | 326 | NOV 22 | 16:38:56.880 |
| ORBIT 014 | 77 | 326 | NOV 22 | 16:39:04.000 | - | 77 | 329 | NOV 25 | 02:00:57.831 |
| ORBIT 015 | 77 | 329 | NOV 25 | 02:01:04.000 | - | 77 | 331 | NOV 27 | 11:22:57.361 |
| ORBIT 016 | 77 | 331 | NOV 27 | 11:23:04.000 | - | 77 | 333 | NOV 29 | 20:42:58.377 |
| ORBIT 017 | 77 | 333 | NOV 29 | 20:43:04.000 | - | 77 | 336 | DEC 2 | 06:02:56.207 |
| ORBIT 018 | 77 | 336 | DEC 2 | 06:03:04.000 | - | 77 | 338 | DEC 4 | 15:24:57.671 |
| ORBIT 019 | 77 | 338 | DEC 4 | 15:25:04.000 | - | 77 | 341 | DEC 7 | 00:49:59.653 |
| ORBIT 020 | 77 | 341 | DEC 7 | 00:50:04.000 | - | 77 | 343 | DEC 9 | 10:10:58.457 |
| ORBIT 021 | 77 | 343 | DEC 9 | 10:11:04.000 | - | 77 | 345 | DEC 11 | 19:29:58.440 |
| ORBIT 022 | 77 | 345 | DEC 11 | 19:30:04.000 | - | 77 | 348 | DEC 14 | 04:50:56.357 |
| ORBIT 023 | 77 | 348 | DEC 14 | 04:51:04.000 | - | 77 | 350 | DEC 16 | 14:12:57.734 |
| ORBIT 024 | 77 | 350 | DEC 16 | 14:13:04.000 | - | 77 | 352 | DEC 18 | 23:34:59.594 |
| ORBIT 025 | 77 | 352 | DEC 18 | 23:35:04.000 | - | 77 | 355 | DEC 21 | 08:57:56.284 |
| ORBIT 026 | 77 | 355 | DEC 21 | 08:58:00.284 | - | 77 | 357 | DEC 23 | 18:18:57.282 |
| ORBIT 027 | 77 | 357 | DEC 23 | 18:19:04.000 | - | 77 | 360 | DEC 26 | 03:38:56.034 |
| ORBIT 028 | 77 | 360 | DEC 26 | 03:39:04.000 | - | 77 | 362 | DEC 28 | 12:57:57.345 |
| ORBIT 029 | 77 | 362 | DEC 28 | 12:58:04.000 | - | 77 | 364 | DEC 30 | 22:18:59.095 |
| ORBIT 030 | 77 | 364 | DEC 30 | 22:19:04.000 | - | 78 | 002 | JAN 2 | 07:42:58.903 |
| ORBIT 031 | 78 | 002 | JAN 2 | 07:43:04.000 | - | 78 | 004 | JAN 4 | 17:06:56.000 |
| ORBIT 032 | 78 | 004 | JAN 4 | 17:07:04.000 | - | 78 | 007 | JAN 7 | 02:26:56.000 |
| ORBIT 033 | 78 | 007 | JAN 7 | 02:27:04.000 | - | 78 | 009 | JAN 9 | 11:45:56.000 |
| ORBIT 034 | 78 | 009 | JAN 9 | 11:46:04.000 | - | 78 | 011 | JAN 11 | 21:06:56.000 |
| ORBIT 035 | 78 | 011 | JAN 11 | 21:07:04.000 | - | 78 | 014 | JAN 14 | 06:29:56.000 |
| ORBIT 036 | 78 | 014 | JAN 14 | 06:30:04.000 | - | 78 | 016 | JAN 16 | 15:52:56.000 |
| ORBIT 037 | 78 | 016 | JAN 16 | 15:53:04.000 | - | 78 | 019 | JAN 19 | 01:14:56.000 |
| ORBIT 038 | 78 | 019 | JAN 19 | 01:15:04.000 | - | 78 | 021 | JAN 21 | 10:35:56.000 |
| ORBIT 039 | 78 | 021 | JAN 21 | 10:36:04.000 | - | 78 | 023 | JAN 23 | 19:55:56.000 |
| ORBIT 040 | 78 | 023 | JAN 23 | 19:56:04.000 | - | 78 | 026 | JAN 26 | 05:14:00.000 |
| ORBIT 041 | 78 | 026 | JAN 26 | 05:16:04.000 | - | 78 | 028 | JAN 28 | 14:38:58.764 |
| ORBIT 042 | 78 | 028 | JAN 28 | 14:39:04.000 | - | 78 | 031 | JAN 31 | 00:04:57.330 |
| ORBIT 043 | 78 | 031 | JAN 31 | 00:05:04.000 | - | 78 | 033 | FEB 2 | 09:26:57.690 |
| ORBIT 044 | 78 | 033 | FEB 2 | 09:27:04.000 | - | 78 | 035 | FEB 4 | 18:45:58.563 |
| ORBIT 045 | 78 | 035 | FEB 4 | 18:46:04.000 | - | 78 | 038 | FEB 7 | 04:06:56.104 |
| ORBIT 046 | 78 | 038 | FEB 7 | 04:07:04.000 | - | 78 | 040 | FEB 9 | 13:29:57.552 |
| ORBIT 047 | 78 | 040 | FEB 9 | 13:30:04.000 | - | 78 | 042 | FEB 11 | 22:53:58.813 |
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| ORBIT 049 | 78 | 045 | FEB 14 | 08:17:04.000 | - | 78 | 047 | FEB 16 | 17:38:57.274 |
| ORBIT 050 | 78 | 047 | FEB 16 | 17:39:04.000 | - | 78 | 050 | FEB 19 | 02:59:58.775 |
| ORBIT 051 | 78 | 050 | FEB 19 | 03:00:04.000 | - | 78 | 052 | FEB 21 | 12:20:56.162 |
| ORBIT 052 | 78 | 052 | FEB 21 | 12:21:04.000 | - | 78 | 054 | FEB 23 | 21:42:57.923 |
| ORBIT 053 | 78 | 054 | FEB 23 | 21:43:04.000 | - | 78 | 057 | FEB 26 | 07:08:59.155 |
| ORBIT 054 | 78 | 057 | FEB 26 | 07:09:04.000 | - | 78 | 059 | FEB 28 | 16:33:56.003 |
| ORBIT 055 | 78 | 059 | FEB 28 | 16:34:04.000 | - | 78 | 062 | MAR 3 | 01:53:57.395 |
| ORBIT 056 | 78 | 062 | MAR 3 | 01:54:04.000 | - | 78 | 064 | MAR 5 | 11:14:58.973 |
| ORBIT 057 | 78 | 064 | MAR 5 | 11:15:04.000 | - | 78 | 066 | MAR 7 | 20:36:56.500 |
| ORBIT 058 | 78 | 066 | MAR 7 | 20:37:04.000 | - | 78 | 069 | MAR 10 | 06:00:58.101 |
| ORBIT 059 | 78 | 069 | MAR 10 | 06:01:04.000 | - | 78 | 071 | MAR 12 | 15:25:59.236 |
| ORBIT 060 | 78 | 071 | MAR 12 | 15:26:04.000 | - | 78 | 074 | MAR 15 | 00:49:56.543 |
| ORBIT 061 | 78 | 074 | MAR 15 | 00:50:04.000 | - | 78 | 076 | MAR 17 | 10:10:57.941 |

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| ORBIT 063 | 78 | 078 | MAR | 19 | 19:32:04.000 | - | 78 | 081 | MAR | 22 | 04:53:57.414 |
| ORBIT 064 | 78 | 081 | MAR | 22 | 04:54:04.000 | - | 78 | 083 | MAR | 24 | 14:18:58.553 |
| ORBIT 065 | 78 | 083 | MAR | 24 | 14:19:04.000 | - | 78 | 085 | MAR | 26 | 23:44:59.921 |
| ORBIT 066 | 78 | 085 | MAR | 26 | 23:45:04.000 | - | 78 | 088 | MAR | 29 | 09:06:57.615 |
| ORBIT 067 | 78 | 088 | MAR | 29 | 09:07:04.000 | - | 78 | 090 | MAR | 31 | 18:26:59.841 |
| ORBIT 068 | 78 | 090 | MAR | 31 | 18:27:04.000 | - | 78 | 093 | APR | 3 | 03:48:57.105 |
| ORBIT 069 | 78 | 093 | APR | 3 | 03:49:04.000 | - | 78 | 095 | APR | 5 | 13:11:58.289 |
| ORBIT 070 | 78 | 095 | APR | 5 | 13:12:04.000 | - | 78 | 097 | APR | 7 | 22:35:56.449 |
| ORBIT 071 | 78 | 097 | APR | 7 | 22:36:04.000 | - | 78 | 100 | APR | 10 | 07:57:57.439 |
| ORBIT 072 | 78 | 100 | APR | 10 | 07:58:04.000 | - | 78 | 102 | APR | 12 | 17:20:59.115 |
| ORBIT 073 | 78 | 102 | APR | 12 | 17:21:04.000 | - | 78 | 105 | APR | 15 | 02:41:56.998 |
| ORBIT 074 | 78 | 105 | APR | 15 | 02:42:04.000 | - | 78 | 107 | APR | 17 | 12:00:58.328 |
| ORBIT 075 | 78 | 107 | APR | 17 | 12:01:04.000 | - | 78 | 109 | APR | 19 | 21:22:58.810 |
| ORBIT 076 | 78 | 109 | APR | 19 | 21:23:04.000 | - | 78 | 112 | APR | 22 | 06:48:59.520 |
| ORBIT 077 | 78 | 112 | APR | 22 | 06:49:04.000 | - | 78 | 114 | APR | 24 | 16:09:59.330 |
| ORBIT 078 | 78 | 114 | APR | 24 | 16:10:04.000 | - | 78 | 117 | APR | 27 | 01:29:57.525 |
| ORBIT 079 | 78 | 117 | APR | 27 | 01:30:04.000 | - | 78 | 119 | APR | 29 | 10:49:58.666 |
| ORBIT 080 | 78 | 119 | APR | 29 | 10:50:04.000 | - | 78 | 121 | MAY | 1 | 20:06:56.378 |
| ORBIT 081 | 78 | 121 | MAY | 1 | 20:07:04.000 | - | 78 | 124 | MAY | 4 | 05:28:58.199 |
| ORBIT 082 | 78 | 124 | MAY | 4 | 05:29:04.000 | - | 78 | 126 | MAY | 6 | 14:51:59.838 |
| ORBIT 083 | 78 | 126 | MAY | 6 | 14:52:04.000 | - | 78 | 129 | MAY | 9 | 00:12:58.341 |
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| ORBIT 085 | 78 | 131 | MAY | 11 | 09:33:04.000 | - | 78 | 133 | MAY | 13 | 18:52:57.380 |
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| ORBIT 087 | 78 | 136 | MAY | 16 | 04:12:04.000 | - | 78 | 138 | MAY | 18 | 13:35:58.005 |
| ORBIT 088 | 78 | 138 | MAY | 18 | 13:36:04.000 | - | 78 | 140 | MAY | 20 | 23:00:59.357 |
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| ORBIT 091 | 78 | 145 | MAY | 25 | 17:39:04.000 | - | 78 | 148 | MAY | 28 | 02:58:58.199 |
| ORBIT 092 | 78 | 148 | MAY | 28 | 02:59:04.000 | - | 78 | 150 | MAY | 30 | 12:20:58.455 |
| ORBIT 093 | 78 | 150 | MAY | 30 | 12:21:04.000 | - | 78 | 152 | JUN | 1 | 21:42:56.018 |
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| ORBIT 097 | 78 | 160 | JUN | 9 | 01:44:04.000 | - | 78 | 162 | JUN | 11 | 11:01:58.061 |
| ORBIT 098 | 78 | 162 | JUN | 11 | 11:02:04.000 | - | 78 | 164 | JUN | 13 | 20:23:56.057 |
| ORBIT 099 | 78 | 164 | JUN | 13 | 20:24:04.000 | - | 78 | 167 | JUN | 16 | 05:47:58.509 |
| ORBIT 100 | 78 | 167 | JUN | 16 | 05:48:04.000 | - | 78 | 169 | JUN | 18 | 15:09:57.222 |
| ORBIT 101 | 78 | 169 | JUN | 18 | 15:10:04.000 | - | 78 | 172 | JUN | 21 | 00:27:59.105 |
| ORBIT 102 | 78 | 172 | JUN | 21 | 00:28:04.000 | - | 78 | 174 | JUN | 23 | 09:46:59.864 |
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| ORBIT 105 | 78 | 179 | JUN | 28 | 04:30:04.000 | - | 78 | 181 | JUN | 30 | 13:50:58.649 |
| ORBIT 106 | 78 | 181 | JUN | 30 | 13:51:04.000 | - | 78 | 183 | JUL | 2 | 23:11:56.191 |
| ORBIT 107 | 78 | 183 | JUL | 2 | 23:12:04.000 | - | 78 | 186 | JUL | 5 | 08:30:57.709 |
| ORBIT 108 | 78 | 186 | JUL | 5 | 08:31:04.000 | - | 78 | 188 | JUL | 7 | 17:49:59.452 |
| ORBIT 109 | 78 | 188 | JUL | 7 | 17:50:04.000 | - | 78 | 191 | JUL | 10 | 03:08:57.610 |
| ORBIT 110 | 78 | 191 | JUL | 10 | 03:09:04.000 | - | 78 | 193 | JUL | 12 | 12:31:59.754 |
| ORBIT 111 | 78 | 193 | JUL | 12 | 12:32:04.000 | - | 78 | 195 | JUL | 14 | 21:55:57.663 |
| ORBIT 112 | 78 | 195 | JUL | 14 | 21:56:04.000 | - | 78 | 198 | JUL | 17 | 07:15:58.913 |
| ORBIT 113 | 78 | 198 | JUL | 17 | 07:16:02.913 | - | 78 | 200 | JUL | 19 | 16:33:57.801 |
| ORBIT 114 | 78 | 200 | JUL | 19 | 16:34:04.000 | - | 78 | 203 | JUL | 22 | 01:53:59.005 |
| ORBIT 115 | 78 | 203 | JUL | 22 | 01:54:04.000 | - | 78 | 205 | JUL | 24 | 11:15:56.381 |
| ORBIT 116 | 78 | 205 | JUL | 24 | 11:16:00.381 | - | 78 | 207 | JUL | 26 | 20:37:56.293 |
| ORBIT 117 | 78 | 207 | JUL | 26 | 20:38:04.000 | - | 78 | 210 | JUL | 29 | 05:58:56.164 |
| ORBIT 118 | 78 | 210 | JUL | 29 | 05:59:04.000 | - | 78 | 212 | JUL | 31 | 15:18:58.248 |
| ORBIT 119 | 78 | 212 | JUL | 31 | 15:19:04.000 | - | 78 | 215 | AUG | 3 | 00:37:56.105 |
| ORBIT 120 | 78 | 215 | AUG | 3 | 00:38:04.000 | - | 78 | 217 | AUG | 5 | 09:57:57.829 |
| ORBIT 121 | 78 | 217 | AUG | 5 | 09:58:04.000 | - | 78 | 219 | AUG | 7 | 19:19:59.757 |
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| ORBIT 123 | 78 | 222 | AUG | 10 | 04:45:04.000 | - | 78 | 224 | AUG | 12 | 14:06:59.480 |

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| ORBIT | 126 | 78 | 229 | AUG | 17 | 08:45:04.000 | - | 78 | 231 | AUG | 19 | 18:06:59.107 |
| ORBIT | 127 | 78 | 231 | AUG | 19 | 18:07:03.107 | - | 78 | 234 | AUG | 22 | 03:29:56.926 |
| ORBIT | 128 | 78 | 234 | AUG | 22 | 03:30:04.000 | - | 78 | 236 | AUG | 24 | 12:52:58.515 |
| ORBIT | 129 | 78 | 236 | AUG | 24 | 12:53:04.000 | - | 78 | 238 | AUG | 26 | 22:12:56.570 |
| ORBIT | 130 | 78 | 238 | AUG | 26 | 22:13:04.000 | - | 78 | 241 | AUG | 29 | 07:33:58.352 |
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| ORBIT | 132 | 78 | 243 | AUG | 31 | 16:54:04.000 | - | 78 | 246 | SEP | 3 | 02:14:58.066 |
| ORBIT | 133 | 78 | 246 | SEP | 3 | 02:15:04.000 | - | 78 | 248 | SEP | 5 | 11:39:58.671 |
| ORBIT | 134 | 78 | 248 | SEP | 5 | 11:40:04.000 | - | 78 | 250 | SEP | 7 | 21:04:56.610 |
| ORBIT | 135 | 78 | 250 | SEP | 7 | 21:05:04.000 | - | 78 | 253 | SEP | 10 | 06:25:57.981 |
| ORBIT | 136 | 78 | 253 | SEP | 10 | 06:26:04.000 | - | 78 | 255 | SEP | 12 | 15:44:58.838 |
| ORBIT | 137 | 78 | 255 | SEP | 12 | 15:45:04.000 | - | 78 | 258 | SEP | 15 | 01:06:56.822 |
| ORBIT | 138 | 78 | 258 | SEP | 15 | 01:07:04.000 | - | 78 | 260 | SEP | 17 | 10:29:58.055 |
| ORBIT | 139 | 78 | 260 | SEP | 17 | 10:30:04.000 | - | 78 | 262 | SEP | 19 | 19:53:59.713 |
| ORBIT | 140 | 78 | 262 | SEP | 19 | 19:54:04.000 | - | 78 | 265 | SEP | 22 | 05:16:58.043 |
| ORBIT | 141 | 78 | 265 | SEP | 22 | 05:17:04.000 | - | 78 | 267 | SEP | 24 | 14:37:58.083 |
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| ORBIT | 143 | 78 | 269 | SEP | 26 | 23:58:04.000 | - | 78 | 272 | SEP | 29 | 09:18:56.864 |
| ORBIT | 144 | 78 | 272 | SEP | 29 | 09:19:04.000 | - | 78 | 274 | OCT | 1 | 18:43:58.793 |
| ORBIT | 145 | 78 | 274 | OCT | 1 | 18:44:04.000 | - | 78 | 277 | OCT | 4 | 04:09:59.372 |
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| ORBIT | 147 | 78 | 279 | OCT | 6 | 13:33:04.000 | - | 78 | 281 | OCT | 8 | 22:52:58.117 |
| ORBIT | 148 | 78 | 281 | OCT | 8 | 22:53:04.000 | - | 78 | 284 | OCT | 11 | 08:13:59.544 |
| ORBIT | 149 | 78 | 284 | OCT | 11 | 08:14:04.000 | - | 78 | 286 | OCT | 13 | 17:35:56.893 |
| ORBIT | 150 | 78 | 286 | OCT | 13 | 17:36:04.000 | - | 78 | 289 | OCT | 16 | 03:09:58.201 |
| ORBIT | 151 | 78 | 289 | OCT | 16 | 03:10:04.000 | - | 78 | 291 | OCT | 18 | 12:23:58.699 |
| ORBIT | 152 | 78 | 291 | OCT | 18 | 12:24:04.000 | - | 78 | 293 | OCT | 20 | 21:45:59.856 |
| ORBIT | 153 | 78 | 293 | OCT | 20 | 21:46:04.000 | - | 78 | 296 | OCT | 23 | 07:06:59.977 |
| ORBIT | 154 | 78 | 296 | OCT | 23 | 07:07:04.000 | - | 78 | 298 | OCT | 25 | 16:26:58.983 |
| ORBIT | 155 | 78 | 298 | OCT | 25 | 16:27:04.000 | - | 78 | 301 | OCT | 28 | 01:49:59.398 |
| ORBIT | 156 | 78 | 301 | OCT | 28 | 01:50:04.000 | - | 78 | 303 | OCT | 30 | 11:15:56.254 |
| ORBIT | 157 | 78 | 303 | OCT | 30 | 11:16:04.000 | - | 78 | 305 | NOV | 1 | 20:40:58.130 |
| ORBIT | 158 | 78 | 305 | NOV | 1 | 20:41:04.000 | - | 78 | 308 | NOV | 4 | 06:00:59.562 |
| ORBIT | 159 | 78 | 308 | NOV | 4 | 06:01:04.000 | - | 78 | 310 | NOV | 6 | 15:20:56.864 |
| ORBIT | 160 | 78 | 310 | NOV | 6 | 15:21:04.000 | - | 78 | 313 | NOV | 9 | 00:41:58.235 |
| ORBIT | 161 | 78 | 313 | NOV | 9 | 00:42:04.000 | - | 78 | 315 | NOV | 11 | 10:05:58.137 |
| ORBIT | 162 | 78 | 315 | NOV | 11 | 10:06:04.000 | - | 78 | 317 | NOV | 13 | 19:28:59.931 |
| ORBIT | 163 | 78 | 317 | NOV | 13 | 19:29:04.000 | - | 78 | 320 | NOV | 16 | 04:50:58.358 |
| ORBIT | 164 | 78 | 320 | NOV | 16 | 04:51:04.000 | - | 78 | 322 | NOV | 18 | 14:10:58.742 |
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| ORBIT | 171 | 78 | 336 | DEC | 2 | 22:20:04.000 | - | 78 | 339 | DEC | 5 | 07:39:57.207 |
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| ORBIT 278 | 79 | 227 | AUG | 15 | 15:58:04.000 | - | 79 | 230 | AUG | 18 | 01:18:57.665 |
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| ORBIT 347 | 80 | 027 | JAN | 27 | 14:18:04.000 | - | 80 | 029 | JAN | 29 | 23:36:59.204 |
| ORBIT 348 | 80 | 029 | JAN | 29 | 23:37:03.204 | - | 80 | 032 | FEB | 1 | 08:55:56.279 |
| ORBIT 349 | 80 | 032 | FEB | 1 | 08:56:00.279 | - | 80 | 034 | FEB | 3 | 18:17:57.929 |
| ORBIT 350 | 80 | 034 | FEB | 3 | 18:18:04.000 | - | 80 | 037 | FEB | 6 | 03:41:58.478 |
| ORBIT 351 | 80 | 037 | FEB | 6 | 03:42:04.000 | - | 80 | 039 | FEB | 8 | 13:06:59.779 |
| ORBIT 352 | 80 | 039 | FEB | 8 | 13:07:04.000 | - | 80 | 041 | FEB | 10 | 22:27:56.158 |
| ORBIT 353 | 80 | 041 | FEB | 10 | 22:28:00.158 | - | 80 | 044 | FEB | 13 | 07:47:58.800 |
| ORBIT 354 | 80 | 044 | FEB | 13 | 07:48:04.000 | - | 80 | 046 | FEB | 15 | 17:07:59.243 |
| ORBIT 355 | 80 | 046 | FEB | 15 | 17:08:04.000 | - | 80 | 049 | FEB | 18 | 02:30:56.014 |
| ORBIT 356 | 80 | 049 | FEB | 18 | 02:31:04.000 | - | 80 | 051 | FEB | 20 | 11:54:57.097 |
| ORBIT 357 | 80 | 051 | FEB | 20 | 11:55:04.000 | - | 80 | 053 | FEB | 22 | 21:17:57.341 |
| ORBIT 358 | 80 | 053 | FEB | 22 | 21:18:01.341 | - | 80 | 056 | FEB | 25 | 06:38:59.876 |
| ORBIT 359 | 80 | 056 | FEB | 25 | 06:39:04.000 | - | 80 | 058 | FEB | 27 | 15:58:59.570 |
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| ORBIT 002 | 77 | 298 | OCT | 25 | 00:19:04.000 | - | 77 | 300 | OCT | 27 | 09:48:58.337 |
| ORBIT 003 | 77 | 300 | OCT | 27 | 09:49:04.000 | - | 77 | 302 | OCT | 29 | 19:07:56.993 |
| ORBIT 004 | 77 | 302 | OCT | 29 | 19:08:04.000 | - | 77 | 305 | NOV | 1 | 04:27:58.513 |
| ORBIT 005 | 77 | 305 | NOV | 1 | 04:28:04.000 | - | 77 | 307 | NOV | 3 | 13:47:59.731 |
| ORBIT 006 | 77 | 307 | NOV | 3 | 13:48:04.000 | - | 77 | 309 | NOV | 5 | 23:08:57.028 |
| ORBIT 007 | 77 | 309 | NOV | 5 | 23:09:04.000 | - | 77 | 312 | NOV | 8 | 08:29:57.337 |
| ORBIT 008 | 77 | 312 | NOV | 8 | 08:30:04.000 | - | 77 | 314 | NOV | 10 | 17:51:57.139 |
| ORBIT 009 | 77 | 314 | NOV | 10 | 17:52:04.000 | - | 77 | 317 | NOV | 13 | 03:11:58.009 |
| ORBIT 010 | 77 | 317 | NOV | 13 | 03:12:04.000 | - | 77 | 319 | NOV | 15 | 12:30:58.869 |
| ORBIT 011 | 77 | 319 | NOV | 15 | 12:31:04.000 | - | 77 | 321 | NOV | 17 | 21:50:56.120 |
| ORBIT 012 | 77 | 321 | NOV | 17 | 21:51:00.120 | - | 77 | 324 | NOV | 20 | 07:12:56.874 |
| ORBIT 013 | 77 | 324 | NOV | 20 | 07:13:04.000 | - | 77 | 326 | NOV | 22 | 16:34:57.797 |
| ORBIT 014 | 77 | 326 | NOV | 22 | 16:35:04.000 | - | 77 | 329 | NOV | 25 | 01:55:58.762 |
| ORBIT 015 | 77 | 329 | NOV | 25 | 01:56:04.000 | - | 77 | 331 | NOV | 27 | 11:15:59.970 |
| ORBIT 016 | 77 | 331 | NOV | 27 | 11:16:04.000 | - | 77 | 333 | NOV | 29 | 20:34:56.759 |
| ORBIT 017 | 77 | 333 | NOV | 29 | 20:35:04.000 | - | 77 | 336 | DEC | 2 | 05:53:57.740 |
| ORBIT 018 | 77 | 336 | DEC | 2 | 05:54:04.000 | - | 77 | 338 | DEC | 4 | 15:19:58.619 |
| ORBIT 019 | 77 | 338 | DEC | 4 | 15:20:04.000 | - | 77 | 341 | DEC | 7 | 00:44:59.554 |
| ORBIT 020 | 77 | 341 | DEC | 7 | 00:45:04.000 | - | 77 | 343 | DEC | 9 | 10:06:56.655 |
| ORBIT 021 | 77 | 343 | DEC | 9 | 10:07:04.000 | - | 77 | 345 | DEC | 11 | 19:26:57.555 |
| ORBIT 022 | 77 | 345 | DEC | 11 | 19:27:04.000 | - | 77 | 348 | DEC | 14 | 04:45:58.800 |
| ORBIT 023 | 77 | 348 | DEC | 14 | 04:46:04.000 | - | 77 | 350 | DEC | 16 | 14:07:59.506 |
| ORBIT 024 | 77 | 350 | DEC | 16 | 14:08:04.000 | - | 77 | 352 | DEC | 18 | 23:29:56.456 |
| ORBIT 025 | 77 | 352 | DEC | 18 | 23:30:04.000 | - | 77 | 355 | DEC | 21 | 08:51:57.329 |
| ORBIT 026 | 77 | 355 | DEC | 21 | 08:52:04.000 | - | 77 | 357 | DEC | 23 | 18:12:58.343 |
| ORBIT 027 | 77 | 357 | DEC | 23 | 18:13:04.000 | - | 77 | 360 | DEC | 26 | 03:32:59.258 |
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| ORBIT 029 | 77 | 362 | DEC | 28 | 12:52:04.000 | - | 77 | 364 | DEC | 30 | 22:12:57.069 |
| ORBIT 030 | 77 | 364 | DEC | 30 | 22:13:04.000 | - | 78 | 002 | JAN | 2 | 07:36:57.355 |
| ORBIT 031 | 78 | 002 | JAN | 2 | 07:37:04.000 | - | 78 | 004 | JAN | 4 | 16:59:58.042 |
| ORBIT 032 | 78 | 004 | JAN | 4 | 17:00:04.000 | - | 78 | 007 | JAN | 7 | 02:19:58.563 |
| ORBIT 033 | 78 | 007 | JAN | 7 | 02:20:04.000 | - | 78 | 009 | JAN | 9 | 11:38:59.800 |
| ORBIT 034 | 78 | 009 | JAN | 9 | 11:39:04.000 | - | 78 | 011 | JAN | 11 | 20:59:56.822 |
| ORBIT 035 | 78 | 011 | JAN | 11 | 21:00:04.000 | - | 78 | 014 | JAN | 14 | 06:21:57.983 |
| ORBIT 036 | 78 | 014 | JAN | 14 | 06:22:04.000 | - | 78 | 016 | JAN | 16 | 15:44:58.880 |
| ORBIT 037 | 78 | 016 | JAN | 16 | 15:45:04.000 | - | 78 | 019 | JAN | 19 | 01:06:59.871 |
| ORBIT 038 | 78 | 019 | JAN | 19 | 01:07:04.000 | - | 78 | 021 | JAN | 21 | 10:26:59.608 |
| ORBIT 039 | 78 | 021 | JAN | 21 | 10:27:04.000 | - | 78 | 023 | JAN | 23 | 19:47:56.510 |
| ORBIT 040 | 78 | 023 | JAN | 23 | 19:48:04.000 | - | 78 | 026 | JAN | 26 | 05:07:57.773 |
| ORBIT 041 | 78 | 026 | JAN | 26 | 05:08:04.000 | - | 78 | 028 | JAN | 28 | 14:30:58.665 |
| ORBIT 042 | 78 | 028 | JAN | 28 | 14:31:04.000 | - | 78 | 030 | JAN | 30 | 23:55:59.600 |
| ORBIT 043 | 78 | 030 | JAN | 30 | 23:56:04.000 | - | 78 | 033 | FEB | 2 | 09:17:56.663 |
| ORBIT 044 | 78 | 033 | FEB | 2 | 09:18:04.000 | - | 78 | 035 | FEB | 4 | 18:36:57.708 |
| ORBIT 045 | 78 | 035 | FEB | 4 | 18:37:04.000 | - | 78 | 038 | FEB | 7 | 03:57:58.898 |
| ORBIT 046 | 78 | 038 | FEB | 7 | 03:58:04.000 | - | 78 | 040 | FEB | 9 | 13:20:59.978 |
| ORBIT 047 | 78 | 040 | FEB | 9 | 13:21:04.000 | - | 78 | 042 | FEB | 11 | 22:44:57.017 |
| ORBIT 048 | 78 | 042 | FEB | 11 | 22:45:04.000 | - | 78 | 045 | FEB | 14 | 08:07:58.033 |
| ORBIT 049 | 78 | 045 | FEB | 14 | 08:08:04.000 | - | 78 | 047 | FEB | 16 | 17:29:59.084 |
| ORBIT 050 | 78 | 047 | FEB | 16 | 17:30:04.000 | - | 78 | 050 | FEB | 19 | 02:50:56.359 |
| ORBIT 051 | 78 | 050 | FEB | 19 | 02:51:04.000 | - | 78 | 052 | FEB | 21 | 12:10:57.324 |
| ORBIT 052 | 78 | 052 | FEB | 21 | 12:11:04.000 | - | 78 | 054 | FEB | 23 | 21:33:58.321 |
| ORBIT 053 | 78 | 054 | FEB | 23 | 21:34:04.000 | - | 78 | 057 | FEB | 26 | 06:58:59.320 |
| ORBIT 054 | 78 | 057 | FEB | 26 | 06:59:04.000 | - | 78 | 059 | FEB | 28 | 16:22:56.374 |
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| ORBIT 057 | 78 | 064 | MAR | 5 | 11:04:04.000 | - | 78 | 066 | MAR | 7 | 20:26:59.478 |
| ORBIT 058 | 78 | 066 | MAR | 7 | 20:27:04.000 | - | 78 | 069 | MAR | 10 | 05:50:56.482 |
| ORBIT 059 | 78 | 069 | MAR | 10 | 05:51:04.000 | - | 78 | 071 | MAR | 12 | 15:14:57.477 |
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| ORBIT 064 | 78 | 081 | MAR | 22 | 04:42:04.000 | - | 78 | 083 | MAR | 24 | 14:05:58.237 |
| ORBIT 065 | 78 | 083 | MAR | 24 | 14:06:04.000 | - | 78 | 085 | MAR | 26 | 23:32:59.326 |
| ORBIT 066 | 78 | 085 | MAR | 26 | 23:33:04.000 | - | 78 | 088 | MAR | 29 | 08:53:56.049 |
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| ORBIT 070 | 78 | 095 | APR | 5 | 12:59:04.000 | - | 78 | 097 | APR | 7 | 22:22:59.549 |
| ORBIT 071 | 78 | 097 | APR | 7 | 22:23:04.000 | - | 78 | 100 | APR | 10 | 07:46:56.401 |
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| ORBIT 074 | 78 | 105 | APR | 15 | 02:30:04.000 | - | 78 | 107 | APR | 17 | 11:47:58.891 |
| ORBIT 075 | 78 | 107 | APR | 17 | 11:48:04.000 | - | 78 | 109 | APR | 19 | 21:09:56.067 |
| ORBIT 076 | 78 | 109 | APR | 19 | 21:10:04.000 | - | 78 | 112 | APR | 22 | 06:36:56.714 |
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| ORBIT 078 | 78 | 114 | APR | 24 | 15:57:04.000 | - | 78 | 117 | APR | 27 | 01:15:58.296 |
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| ORBIT 086 | 78 | 133 | MAY | 13 | 18:54:04.000 | - | 78 | 136 | MAY | 16 | 04:12:59.353 |
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| ORBIT 090 | 78 | 143 | MAY | 23 | 08:25:04.000 | - | 78 | 145 | MAY | 25 | 17:43:58.694 |
| ORBIT 091 | 78 | 145 | MAY | 25 | 17:44:04.000 | - | 78 | 148 | MAY | 28 | 03:03:59.266 |
| ORBIT 092 | 78 | 148 | MAY | 28 | 03:04:04.000 | - | 78 | 150 | MAY | 30 | 12:26:56.054 |
| ORBIT 093 | 78 | 150 | MAY | 30 | 12:27:04.000 | - | 78 | 152 | JUN | 1 | 21:49:56.886 |
| ORBIT 094 | 78 | 152 | JUN | 1 | 21:50:04.000 | - | 78 | 155 | JUN | 4 | 07:11:57.650 |
| ORBIT 095 | 78 | 155 | JUN | 4 | 07:12:04.000 | - | 78 | 157 | JUN | 6 | 16:32:58.802 |
| ORBIT 096 | 78 | 157 | JUN | 6 | 16:33:04.000 | - | 78 | 160 | JUN | 9 | 01:51:59.450 |
| ORBIT 097 | 78 | 160 | JUN | 9 | 01:52:04.000 | - | 78 | 162 | JUN | 11 | 11:11:56.244 |
| ORBIT 098 | 78 | 162 | JUN | 11 | 11:12:04.000 | - | 78 | 164 | JUN | 13 | 20:33:57.016 |
| ORBIT 099 | 78 | 164 | JUN | 13 | 20:34:04.000 | - | 78 | 167 | JUN | 16 | 05:58:57.970 |
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| ORBIT 108 | 78 | 186 | JUL | 5 | 08:47:04.000 | - | 78 | 188 | JUL | 7 | 18:05:56.878 |
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| ORBIT 112 | 78 | 195 | JUL | 14 | 22:15:04.000 | - | 78 | 198 | JUL | 17 | 07:34:59.940 |
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| ORBIT 118 | 78 | 210 | JUL | 29 | 06:22:04.000 | - | 78 | 212 | JUL | 31 | 15:29:57.036 |
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| ORBIT 146 | 78 | 277 | OCT | 4 | 03:48:04.000 | - | 78 | 279 | OCT | 6 | 13:09:56.967 |
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| ORBIT 150 | 78 | 286 | OCT | 13 | 17:11:04.000 | - | 78 | 289 | OCT | 16 | 02:33:57.376 |
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| ORBIT 153 | 78 | 293 | OCT | 20 | 21:17:04.000 | - | 78 | 296 | OCT | 23 | 06:36:56.103 |
| ORBIT 154 | 78 | 296 | OCT | 23 | 06:37:04.000 | - | 78 | 298 | OCT | 25 | 15:55:57.489 |
| ORBIT 155 | 78 | 298 | OCT | 25 | 15:56:04.000 | - | 78 | 301 | OCT | 28 | 01:17:59.070 |
| ORBIT 156 | 78 | 301 | OCT | 28 | 01:18:04.000 | - | 78 | 303 | OCT | 30 | 10:42:59.951 |
| ORBIT 157 | 78 | 303 | OCT | 30 | 10:43:03.951 | - | 78 | 305 | NOV | 1 | 20:06:56.865 |
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| ORBIT 172 | 78 | 339 | DEC | 5 | 06:05:04.000 | - | 78 | 341 | DEC | 7 | 15:23:58.042 |
| ORBIT 173 | 78 | 341 | DEC | 7 | 15:24:04.000 | - | 78 | 344 | DEC | 10 | 00:43:59.141 |
| ORBIT 174 | 78 | 344 | DEC | 10 | 00:44:04.000 | - | 78 | 346 | DEC | 12 | 10:05:56.168 |
| ORBIT 175 | 78 | 346 | DEC | 12 | 10:06:04.000 | - | 78 | 348 | DEC | 14 | 19:23:57.641 |
| ORBIT 176 | 78 | 348 | DEC | 14 | 19:24:04.000 | - | 78 | 351 | DEC | 17 | 04:40:58.592 |
| ORBIT 177 | 78 | 351 | DEC | 17 | 04:41:04.000 | - | 78 | 353 | DEC | 19 | 13:56:59.755 |
| ORBIT 178 | 78 | 353 | DEC | 19 | 13:57:03.755 | - | 78 | 355 | DEC | 21 | 23:14:56.892 |
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| ORBIT 182 | 78 | 363 | DEC | 29 | 03:46:04.000 | - | 78 | 365 | DEC | 31 | 13:17:57.675 |
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| ORBIT 197 | 79 | 034 | FEB | 3 | 00:07:04.000 | - | 79 | 036 | FEB | 5 | 09:25:57.662 |
| ORBIT 198 | 79 | 036 | FEB | 5 | 09:26:04.000 | - | 79 | 038 | FEB | 7 | 18:44:57.946 |
| ORBIT 199 | 79 | 038 | FEB | 7 | 18:45:04.000 | - | 79 | 041 | FEB | 10 | 04:02:58.378 |
| ORBIT 200 | 79 | 041 | FEB | 10 | 04:03:04.000 | - | 79 | 043 | FEB | 12 | 13:19:59.276 |
| ORBIT 201 | 79 | 043 | FEB | 12 | 13:20:04.000 | - | 79 | 045 | FEB | 14 | 22:40:59.474 |
| ORBIT 202 | 79 | 045 | FEB | 14 | 22:41:04.000 | - | 79 | 048 | FEB | 17 | 08:04:59.989 |
| ORBIT 203 | 79 | 048 | FEB | 17 | 08:05:04.000 | - | 79 | 050 | FEB | 19 | 17:34:56.466 |
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| ORBIT 205 | 79 | 053 | FEB | 22 | 02:53:04.000 | - | 79 | 055 | FEB | 24 | 12:10:57.516 |
| ORBIT 206 | 79 | 055 | FEB | 24 | 12:11:04.000 | - | 79 | 057 | FEB | 26 | 21:31:57.857 |
| ORBIT 207 | 79 | 057 | FEB | 26 | 21:32:04.000 | - | 79 | 060 | MAR | 1 | 06:54:58.138 |
| ORBIT 208 | 79 | 060 | MAR | 1 | 06:55:04.000 | - | 79 | 062 | MAR | 3 | 16:16:59.138 |
| ORBIT 209 | 79 | 062 | MAR | 3 | 16:17:03.138 | - | 79 | 065 | MAR | 6 | 01:36:56.088 |
| ORBIT 210 | 79 | 065 | MAR | 6 | 01:37:04.000 | - | 79 | 067 | MAR | 8 | 10:56:57.236 |
| ORBIT 211 | 79 | 067 | MAR | 8 | 10:57:04.000 | - | 79 | 069 | MAR | 10 | 20:15:58.082 |
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| ORBIT 213 | 79 | 072 | MAR | 13 | 05:37:04.000 | - | 79 | 074 | MAR | 15 | 15:00:56.017 |
| ORBIT 214 | 79 | 074 | MAR | 15 | 15:01:00.017 | - | 79 | 077 | MAR | 18 | 00:25:56.969 |
| ORBIT 215 | 79 | 077 | MAR | 18 | 00:26:04.000 | - | 79 | 079 | MAR | 20 | 09:45:58.184 |
| ORBIT 216 | 79 | 079 | MAR | 20 | 09:46:04.000 | - | 79 | 081 | MAR | 22 | 19:03:58.818 |
| ORBIT 217 | 79 | 081 | MAR | 22 | 19:04:04.000 | - | 79 | 084 | MAR | 25 | 04:24:59.739 |
| ORBIT 218 | 79 | 084 | MAR | 25 | 04:25:04.000 | - | 79 | 086 | MAR | 27 | 14:02:56.714 |
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| ORBIT 222 | 79 | 093 | APR | 3 | 18:11:04.000 | - | 79 | 096 | APR | 6 | 03:31:56.613 |
| ORBIT 223 | 79 | 096 | APR | 6 | 03:32:00.613 | - | 79 | 098 | APR | 8 | 12:52:57.514 |
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| ORBIT 225 | 79 | 100 | APR | 10 | 22:18:02.418 | - | 79 | 103 | APR | 13 | 07:41:59.485 |
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| ORBIT 227 | 79 | 105 | APR | 15 | 17:05:04.000 | - | 79 | 108 | APR | 18 | 02:27:58.033 |
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| ORBIT 234 | 79 | 122 | MAY | 2 | 10:40:04.000 | - | 79 | 124 | MAY | 4 | 19:59:58.082 |
| ORBIT 235 | 79 | 124 | MAY | 4 | 20:00:02.082 | - | 79 | 127 | MAY | 7 | 05:21:59.256 |
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| ORBIT 258 | 79 | 179 | JUN | 28 | 20:10:04.000 | - | 79 | 182 | JUL | 1 | 05:33:59.984 |
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| ORBIT 260 | 79 | 184 | JUL | 3 | 15:02:04.000 | - | 79 | 187 | JUL | 6 | 00:26:57.764 |
| ORBIT 261 | 79 | 187 | JUL | 6 | 00:27:04.000 | - | 79 | 189 | JUL | 8 | 09:48:58.345 |
| ORBIT 262 | 79 | 189 | JUL | 8 | 09:49:02.345 | - | 79 | 191 | JUL | 10 | 19:09:59.041 |
| ORBIT 263 | 79 | 191 | JUL | 10 | 19:10:03.041 | - | 79 | 194 | JUL | 13 | 04:32:59.732 |
| ORBIT 264 | 79 | 194 | JUL | 13 | 04:33:04.000 | - | 79 | 196 | JUL | 15 | 13:57:56.378 |
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| ORBIT 275 | 79 | 220 | AUG | 8 | 11:45:04.000 | - | 79 | 222 | AUG | 10 | 21:08:59.812 |
| ORBIT 276 | 79 | 222 | AUG | 10 | 21:09:04.000 | - | 79 | 225 | AUG | 13 | 06:29:56.517 |
| ORBIT 277 | 79 | 225 | AUG | 13 | 06:30:04.000 | - | 79 | 227 | AUG | 15 | 15:52:56.809 |
| ORBIT 278 | 79 | 227 | AUG | 15 | 15:53:04.000 | - | 79 | 230 | AUG | 18 | 01:14:58.001 |
| ORBIT 279 | 79 | 230 | AUG | 18 | 01:15:04.000 | - | 79 | 232 | AUG | 20 | 10:30:57.898 |
| ORBIT 280 | 79 | 232 | AUG | 20 | 10:31:04.000 | - | 79 | 234 | AUG | 22 | 19:50:58.628 |
| ORBIT 281 | 79 | 234 | AUG | 22 | 19:51:04.000 | - | 79 | 237 | AUG | 25 | 05:14:57.847 |
| ORBIT 282 | 79 | 237 | AUG | 25 | 05:15:04.000 | - | 79 | 239 | AUG | 27 | 14:40:56.265 |
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| ORBIT 285 | 79 | 244 | SEP | 1 | 09:25:04.000 | - | 79 | 246 | SEP | 3 | 18:45:57.716 |
| ORBIT 286 | 79 | 246 | SEP | 3 | 18:46:04.000 | - | 79 | 249 | SEP | 6 | 04:07:56.460 |
| ORBIT 287 | 79 | 249 | SEP | 6 | 04:08:04.000 | - | 79 | 251 | SEP | 8 | 13:33:59.113 |
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| ORBIT 289 | 79 | 253 | SEP | 10 | 22:57:04.000 | - | 79 | 256 | SEP | 13 | 08:18:56.297 |
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| ORBIT 293 | 79 | 263 | SEP | 20 | 12:24:04.000 | - | 79 | 265 | SEP | 22 | 21:50:58.146 |
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| ORBIT 298 | 79 | 275 | OCT | 2 | 11:21:04.000 | - | 79 | 277 | OCT | 4 | 20:44:59.602 |
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| ORBIT 302 | 79 | 285 | OCT | 12 | 00:55:04.000 | - | 79 | 287 | OCT | 14 | 10:15:58.587 |
| ORBIT 303 | 79 | 287 | OCT | 14 | 10:16:04.000 | - | 79 | 289 | OCT | 16 | 19:37:59.778 |
| ORBIT 304 | 79 | 289 | OCT | 16 | 19:38:04.000 | - | 79 | 292 | OCT | 19 | 05:02:59.965 |
| ORBIT 305 | 79 | 292 | OCT | 19 | 05:03:03.965 | - | 79 | 294 | OCT | 21 | 14:29:59.748 |
| ORBIT 306 | 79 | 294 | OCT | 21 | 14:30:04.000 | - | 79 | 296 | OCT | 23 | 23:15:56.000 |
| ORBIT 307 | 79 | 296 | OCT | 23 | 23:16:04.000 | - | 79 | 299 | OCT | 26 | 08:38:56.951 |
| ORBIT 308 | 79 | 299 | OCT | 26 | 08:39:04.000 | - | 79 | 301 | OCT | 28 | 18:01:57.281 |
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| ORBIT | 314 | 79 | 313 | NOV | 9 | 17:05:04.000 | - | 79 | 316 | NOV | 12 | 02:27:57.681 |
| ORBIT | 315 | 79 | 316 | NOV | 12 | 02:28:04.000 | - | 79 | 318 | NOV | 14 | 11:52:58.508 |
| ORBIT | 316 | 79 | 318 | NOV | 14 | 11:53:04.000 | - | 79 | 320 | NOV | 16 | 21:21:58.914 |
| ORBIT | 317 | 79 | 320 | NOV | 16 | 21:22:04.000 | - | 79 | 323 | NOV | 19 | 06:47:59.669 |
| ORBIT | 318 | 79 | 323 | NOV | 19 | 06:48:04.000 | - | 79 | 325 | NOV | 21 | 16:10:59.249 |
| ORBIT | 319 | 79 | 325 | NOV | 21 | 16:11:04.000 | - | 79 | 328 | NOV | 24 | 01:32:58.884 |
| ORBIT | 320 | 79 | 328 | NOV | 24 | 01:33:04.000 | - | 79 | 330 | NOV | 26 | 10:55:56.488 |
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| ORBIT | 322 | 79 | 332 | NOV | 28 | 20:21:04.000 | - | 79 | 335 | DEC | 1 | 05:45:57.786 |
| ORBIT | 323 | 79 | 335 | DEC | 1 | 05:46:04.000 | - | 79 | 337 | DEC | 3 | 15:09:58.890 |
| ORBIT | 324 | 79 | 337 | DEC | 3 | 15:10:04.000 | - | 79 | 340 | DEC | 6 | 00:32:59.634 |
| ORBIT | 325 | 79 | 340 | DEC | 6 | 00:33:04.000 | - | 79 | 342 | DEC | 8 | 09:53:56.680 |
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| ORBIT | 329 | 79 | 349 | DEC | 15 | 14:10:04.000 | - | 79 | 351 | DEC | 17 | 23:32:58.673 |
| ORBIT | 330 | 79 | 351 | DEC | 17 | 23:33:04.000 | - | 79 | 354 | DEC | 20 | 08:53:57.052 |
| ORBIT | 331 | 79 | 354 | DEC | 20 | 08:54:04.000 | - | 79 | 356 | DEC | 22 | 18:15:59.187 |
| ORBIT | 332 | 79 | 356 | DEC | 22 | 18:16:04.000 | - | 79 | 359 | DEC | 25 | 03:38:59.520 |
| ORBIT | 333 | 79 | 359 | DEC | 25 | 03:39:04.000 | - | 79 | 361 | DEC | 27 | 13:03:56.017 |
| ORBIT | 334 | 79 | 361 | DEC | 27 | 13:04:04.000 | - | 79 | 363 | DEC | 29 | 22:27:56.562 |
| ORBIT | 335 | 79 | 363 | DEC | 29 | 22:28:04.000 | - | 80 | 001 | JAN | 1 | 07:24:56.316 |
| ORBIT | 336 | 80 | 001 | JAN | 1 | 07:25:00.316 | - | 80 | 003 | JAN | 3 | 16:43:56.521 |
| ORBIT | 337 | 80 | 003 | JAN | 3 | 16:44:04.000 | - | 80 | 006 | JAN | 6 | 02:02:56.969 |
| ORBIT | 338 | 80 | 006 | JAN | 6 | 02:03:04.000 | - | 80 | 008 | JAN | 8 | 11:24:57.385 |
| ORBIT | 339 | 80 | 008 | JAN | 8 | 11:25:04.000 | - | 80 | 010 | JAN | 10 | 20:49:57.954 |
| ORBIT | 340 | 80 | 010 | JAN | 10 | 20:50:01.954 | - | 80 | 013 | JAN | 13 | 06:11:58.355 |
| ORBIT | 341 | 80 | 013 | JAN | 13 | 06:12:04.000 | - | 80 | 015 | JAN | 15 | 15:30:58.993 |
| ORBIT | 342 | 80 | 015 | JAN | 15 | 15:31:04.000 | - | 80 | 018 | JAN | 18 | 00:49:59.362 |
| ORBIT | 343 | 80 | 018 | JAN | 18 | 00:50:04.000 | - | 80 | 020 | JAN | 20 | 10:10:59.913 |
| ORBIT | 344 | 80 | 020 | JAN | 20 | 10:11:04.000 | - | 80 | 022 | JAN | 22 | 19:35:56.425 |
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| ORBIT | 348 | 80 | 029 | JAN | 29 | 23:41:04.000 | - | 80 | 032 | FEB | 1 | 08:59:58.478 |
| ORBIT | 349 | 80 | 032 | FEB | 1 | 09:00:04.000 | - | 80 | 034 | FEB | 3 | 18:21:59.204 |
| ORBIT | 350 | 80 | 034 | FEB | 3 | 18:22:03.204 | - | 80 | 037 | FEB | 6 | 03:46:59.822 |
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| ORBIT | 354 | 80 | 044 | FEB | 13 | 07:53:04.000 | - | 80 | 046 | FEB | 15 | 17:11:57.498 |
| ORBIT | 355 | 80 | 046 | FEB | 15 | 17:12:01.498 | - | 80 | 049 | FEB | 18 | 02:33:58.004 |
| ORBIT | 356 | 80 | 049 | FEB | 18 | 02:34:04.000 | - | 80 | 051 | FEB | 20 | 11:56:58.553 |
| ORBIT | 357 | 80 | 051 | FEB | 20 | 11:57:04.000 | - | 80 | 053 | FEB | 22 | 21:19:59.010 |
| ORBIT | 358 | 80 | 053 | FEB | 22 | 21:20:03.010 | - | 80 | 056 | FEB | 25 | 06:40:59.373 |
| ORBIT | 359 | 80 | 056 | FEB | 25 | 06:41:04.000 | - | 80 | 058 | FEB | 27 | 15:59:59.761 |
| ORBIT | 360 | 80 | 058 | FEB | 27 | 16:00:04.000 | - | 80 | 061 | MAR | 1 | 01:20:56.532 |

Dump of data file + list
of header file

List of ISEE1_ORB0001.FFD

```
DATA  = ISEE1_ORB0001.FFD
CDATE =  89 353 DEC 19  12:28:57
RECL  =    24
NCOLS =     5
NROWS =      51689
OPSYS = VAX/VMS
  # NAME       UNITS      SOURCE                    TYPE  LOC
001 UT         SEC        ISEE-1 SPACECRAFT         T       0
002 BX SC      nT         ISEE-1 MAGNETOMETER       R       8
003 BY SC      nT         ISEE-1 MAGNETOMETER       R      12
004 BZ SC      nT         ISEE-1 MAGNETOMETER       R      16
005 BT         nT         ISEE-1 MAGNETOMETER       R      20
ABSTRACT
FIRST TIME          =  77 295 OCT 22  14:49:04.000
LAST TIME           =  77 298 OCT 25  00:12:59.939
OWNER               = C. T. Russell
MISSING DATA FLAG   =  1.000000E+34
AVERAGE INTERVAL    =     00:00:12.000
ORBIT NUMBER(S)     =      1
DATA POINT FREQ.    =     00:00:04.000
END
```

KV00000 1
SIDE B
ISEE 2

HEX DUMP OF $1$DUC3:[ISEE2_4SEC]ISEE2_ORB0001.FFD

```
RECORD 1      24 BYTES
(     0)    B14EA3AC  00200000  F678E084  F678E084  F678E084  F678E084

RECORD 2      24 BYTES
(     0)    B14EA3AC  00400000  F678E084  F678E084  F678E084  F678E084

RECORD 3      24 BYTES
(     0)    B14EA3AC  00600000  F678E084  F678E084  F678E084  F678E084

RECORD 4      24 BYTES
(     0)    B14EA3AC  00800000  F678E084  F678E084  F678E084  F678E084

RECORD 5      24 BYTES
(     0)    B14EA3AC  00A00000  F678E084  F678E084  F678E084  F678E084

RECORD 51757      24 BYTES
(     0)    B14EE7C5  269678E9  F678E084  F678E084  F678E084  F678E084
```