PIONEER 11
73-019A-14A (RESTORED)
JOVIAN ENCOUNTER 5 MIN AVERAGES
73-019A-14B (RESTORED)
SATURN ENCOUNTER 5 MIN AVERAGES
73-019A-14C (RESTORED)
SATURN ENCOUNTER 36 SEC AVERAGES
73-019A-14D (RESTORED)
JOVIAN ENCOUNTER 1 & 2 MIN AVERAGES

PIONEER 11 MAGNETOMETER

73-019A-14A (RESTORED)
JOVIAN ENCOUNTER 5 MINUTE AVERAGES

73-019A-14B (RESTORED)
SATURN ENCOUNTER 5 MINUTE AVERAGES

73-019A-14C (RESTORED)
JOVIAN ENCOUNTER 36 SEC. AVERAGES

73-019A-14D (RESTORED)
SATURN ENCOUNTER 1 & 2 MIN. AVERAGES

THESE DATA SETS HAVE BEEN RESTORED. THERE WERE ORIGINALLY FOUR TAPES WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR/DS TAPES ARE 9-TRACK, 6250 BPI WRITTEN IN ASCII. DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

CONTENTS OF TAPE DR-001798/DS-001798:

FILE	DATA SET ID	ORIGINAL TAPE	TIME SPAN
1	73-019A-14A	D-025190	12/02/74 (23:31) - 12/03/74 (11:12)
2	73-019A-14B	D-046777	09/01/79 11:17 - 21:47
3	73-019A-14C	D-078180	12/03/74 01:19 - 09:26
4	73-019A-14D	D-078180	09/01/79 09:33 - 22:03

REQ. AGENT	RAND NO.	ACQ. AGENT
VJP	RC6735	JHK

PIONEER 11

JOB. ENCOUNTER 5 MIN AVGS

73-019A-14A

This data set catalog consists of 1 Pioneer 11 data tape. The tape was created from BCD cards on the IBM/360 computer at 800 BPI, 7 track with 1 file of data.

The time span is as follow:

D#	C#	TIME SPAN
D-25190	C-18398	12/02/74 - 12/03/74

PIONEER 11

JOV. ENCOUNTER 5 MIN AVGS

73-019A-14A

The format for the tape are the following parameters.

COLUMN	DESCRIPTION
1- 5	Year and Day of year (Jan 1 = Day 1)
6	Blank
7-12	Seconds of day of the NTH/2 (Truncated to an interger) point in the average.
13-14	Blank
15-18	Spacecraft/Jupiter distance (1 RJ=71372 KM)
19-24	Jupiter centered latitude of spacecraft (Lat.)
25-30	Jupiter centered longitude of spacecraft in system 1 (Long 1)
31-36	Jupiter centered longitude of spacecraft in system 3 (1957.0 Epoch 1974.9) (Long 3)
37-43	X component of field in celestial coordinates in gauss (BX5)
44-50	Y component of field in celestial coordinates in gauss (BY5)
51-57	Z component of field in celestial coordinates in gauss (BZ5)
58-64	Radial component of field in Jupiter centered spherical coordinate system (BR)
65-71	Azimuthal component of field in Jupiter centered spherical coordinate system (BWWGA)
72-78	Polar component of field in Jupiter centered spherical coordinate system (BPSI)
79-80	Number of data points that went into the average start and stop times for the averaging intervals were obtained using the time of the first detail data point (Yr 74, Day 336, Time 84592.0) and the desired interval length of five minutes.

All parameters except the Year, Day count, and Number of points in average have been rounded.

The position parameters for a given average are those corresponding to the time given on that card.

REQ. AGENT	RAND NO.	ACQ. AGENT
DEW	V0112	WSC

PIONEER 11

SATURN ENCOUNTER 5 MINUTE AVERAGE MAGNETOMETER DATA

73-019A-14B

This data set consists of 1 tape with 104 card images supplied by the experimenter. They were loaded on tape on the MODCOMP IV computer. The tape is 9-track, 1600 BPI, and ASCII formatted.

D#	C#	TIME SPAN
D-46777	C-21945	09/01/79 - 09/01/79

73-019A-14B

PIONEER 11 SATURN ENCOUNTER DATA

The data cards for Pioneer 11 Saturn Encounter contain the following:

Columns 2,3 Contain the year (79)
4,5,6 contain the day of the year
9-13 contain the second of the day for (NTH/2)+1 point in the average
26-30 contain the spacecraft/Saturn distance (1 SJ=60401KM)
36-40 contain Saturn centered latitude of spacecraft
45-50 contain Saturn centered longitute of spacecraft in SLS longitude system
53-60 contain the radial component of field in Saturn centered spherical coordinate system
63-70 contain the azimuthal component of field in Saturn centered spherical coordinate system
73-80 contain the polar component of field in Saturn centered spherical coordinate system

73-019A-14A

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C*****************************************************************************
C
C     THE DATA CARDS FOR PIONEER 11 CONTAIN THE FOLLOWING PARAMETERS
C
C     COLUMNS 1-5 CONTAIN YEAR AND DAY OF YEAR [ JANUARY 1 > DAY 001 ]
C     COLUMNS 7-12 CONTAIN SECONDS OF DAY OF THE NTH/2 [TRUNCATED TO AN INTEGER]
C     POINT IN THE AVERAGE.
C     COLUMNS 15-18 CONTAIN SPACECRAFT/JUPITER DISTANCE       [ 1 RJ>71372 KM ]
C     COLUMNS 19-24 CONTAIN JUPITER CENTERED LATITUDE OF SPACECRAFT. [ LAT ]
C     COLUMNS 25-30 CONTAIN JUPITER CENTERED LONGITUDE OF SPACECRAFT IN SYSTEM 1
C     . [ LONG1 ]
C     COLUMNS 31-36 CONTAIN JUPITER CENTERED LONGITUDE OF SPACECRAFT IN SYSTEM 3
C     . [ 1957.0 EPOCH 1974.9 ]. [ LONG3 ]
C     COLUMNS 37-43 CONTAIN X COMPONENT OF FIELD IN CELESTIAL COORDINATES
C     IN GAUSS. [BX5]
C     COLUMNS 44-50 CONTAIN Y COMPONENT OF FIELD IN CELESTIAL COORDINATES
C     IN GAUSS. [BY5]
C     COLUMNS 51-57 CONTAIN Z COMPONENT OF FIELD IN CELESTIAL COORDINATES
C     IN GAUSS. [BZ5]
C     COLUMNS 58-64, CONTAIN  THE RADIAL COMPONENT OF FIELD IN JUPITER CENTERED
C     SPHERICAL COORDINATE SYSTEM. [ BR ]
C     COLUMNS 65-71  CONTAIN  THE AZIMUTHAL COMPONENT OF FIELD IN JUPITER
C     CENTERED SPHERICAL COORDINATE SYSTEM. [ BWMGA ]
C     COLUMNS 72-78  CONTAIN  THE  POLAR COMPONENT OF FIELD IN JUPITER CENTERED
C     SPHERICAL COORDINATE SYSTEM. [ BPSI ]
C     COLUMNS 79-80 CONTAIN THE NUMBER OF DATA POINTS THAT WENT INTO THE AVERAGE
C     START AND STOP TIMES FOR THE AVERAGING INTERVALS WERE OBTAINED USING THE
C     TIME OF THE FIRST DETAIL DATA POINT [ YEAR 74,DAY 336,TIME 84592.0 ] AND
C     THE DESIRED INTERVAL LENGTH OF FIVE MINUTES.
C
C     ALL PARAMETERS EXCEPT THE YEAR,DAY COUNT, AND NUMBER OF POINTS IN AVERAGE
C     HAVE BEEN ROUNDED.
C     THE POSITION PARAMETERS FOR A GIVEN AVERAGE ARE THOSE CORRESPONDING TO
C     THE TIME GIVEN ON THAT CARD.
C
C*****************************************************************************
```

23:31/40

YRDAY	TIME	DIST	LAT	LONG1	LONG3	BX5	BY5	BZ5	BR	BWMGA	BPSI	NUM
74336	84700.	7.97	-30.1	-22.0	4.5	0.0037	-0.0132	-0.0022	-0.0110	0.0002	0.0084	9
74336	85023.	7.88	-30.3	-18.4	8.0	0.0064	-0.0153	-0.0001	-0.0144	-0.0019	0.0080	8
74336	85308.	7.79	-30.5	-15.3	11.1	0.0060	-0.0146	-0.0011	-0.0132	-0.0018	0.0086	9
74336	85629.	7.70	-30.7	-11.7	14.6	0.0043	-0.0137	-0.0017	-0.0117	-0.0005	0.0085	7
74336	85924.	7.61	-30.9	-8.5	17.9	0.0035	-0.0144	0.0000	-0.0129	0.0004	0.0072	8
74336	86208.	7.53	-31.2	-5.3	21.0	0.0042	-0.0153	0.0013	-0.0145	-0.0001	0.0067	9
74337	130.	7.43	-31.4	-1.8	24.5	0.0090	-0.0168	0.0010	-0.0166	-0.0045	0.0084	8
74337	416.	7.35	-31.6	-358.6	27.7	0.0070	-0.0162	0.0011	-0.0156	-0.0027	0.0077	7
74337	701.	7.26	-31.8	-355.4	30.8	0.0094	-0.0169	0.0010	-0.0167	-0.0050	0.0086	9
74337	1035.	7.16	-32.1	-351.7	34.5	0.0056	-0.0171	0.0004	-0.0157	-0.0014	0.0088	8
74337	1321.	7.08	-32.3	-348.5	37.7	0.0042	-0.0167	0.0005	-0.0150	-0.0002	0.0083	8
74337	1605.	6.99	-32.6	-345.3	40.9	0.0096	-0.0195	0.0026	-0.0195	-0.0050	0.0087	9
74337	1926.	6.89	-32.9	-341.7	44.5	0.0049	-0.0224	-0.0028	-0.0182	0.0002	0.0143	8
74337	2225.	6.80	-33.1	-338.3	47.8	0.0046	-0.0231	-0.0015	-0.0193	0.0005	0.0135	8
74337	2509.	6.71	-33.4	-335.1	51.0	0.0066	-0.0230	0.0048	-0.0228	-0.0017	0.0084	9
74337	2864.	6.60	-33.7	-331.0	55.1	0.0157	-0.0100	-0.0288	0.0042	-0.0127	0.0317	6
74337	3114.	6.53	-34.0	-328.1	57.9	0.0089	-0.0245	0.0052	-0.0246	-0.0039	0.0094	8
74337	3412.	6.44	-34.2	-324.7	61.3	0.0077	-0.0275	-0.0023	-0.0227	-0.0022	0.0173	9
74337	3733.	6.34	-34.6	-321.0	65.0	0.0075	-0.0276	0.0049	-0.0266	-0.0024	0.0113	8
74337	3984.	6.26	-34.8	-318.1	67.8	0.0073	-0.0282	0.0001	-0.0244	-0.0022	0.0158	7

```
74337  4305.  6.16 -35.2-314.4  71.5 0.0061-0.0309 0.0047-0.0289-0.0009 0.0133 9
74337  4637.  6.05 -35.5-310.5  75.4 0.0053-0.0325 0.0052-0.0303-0.0001 0.0139 8
74337  4924.  5.96 -35.8-307.2  78.7 0.0053-0.0325 0.0052-0.0302-0.0004 0.0141 8
74337  5208.  5.87 -36.1-303.8  82.1 0.0046-0.0341 0.0057-0.0317 0.0003 0.0147 9
74337  5531.  5.77 -36.5-300.0  85.9 0.0037-0.0362 0.0063-0.0335 0.0011 0.0155 8
74337  5816.  5.68 -36.9-296.5  89.3 0.0029-0.0380 0.0034-0.0331 0.0018 0.0190 8
74337  6111.  5.58 -37.2-293.0  92.8 0.0041-0.0420 0.0056-0.0377 0.0007 0.0199 9
74337  6434.  5.48 -37.6-289.1  96.7 0.0016-0.0446 0.0062-0.0398 0.0030 0.0209 8
74337  6717.  5.39 -38.0-285.6 100.1-0.0006-0.0460 0.0068-0.0410 0.0049 0.0213 8
74337  7004.  5.29 -38.4-282.1 103.6 0.0031-0.0486 0.0093-0.0447 0.0009 0.0214 8
74337  7301.  5.20 -38.8-278.4 107.3 0.0008-0.0492 0.0117-0.0463 0.0025 0.0200 9
74337  7622.  5.09 -39.2-274.3 111.3 0.0000-0.0518 0.0104-0.0475 0.0029 0.0230 8
74337  7907.  5.00 -39.6-270.7 114.9-0.0010-0.0567 0.0117-0.0519 0.0035 0.0253 9
74337  8194.  4.90 -40.1-267.1 118.5 0.0006-0.0599 0.0162-0.0571 0.0011 0.0242 7
74337  8525.  4.79 -40.6-262.8 122.8 0.0017-0.0665 0.0160-0.0619-0.0008 0.0290 8
74337  8812.  4.70 -41.0-259.0 126.5-0.0049-0.0686 0.0180-0.0647 0.0048 0.0291 9
74337  9132.  4.59 -41.5-254.8 130.7-0.0057-0.0719 0.0204-0.0685 0.0044 0.0300 8
74337  9417.  4.49 -42.0-250.9 134.6-0.0098-0.0775 0.0200-0.0725 0.0072 0.0346 8
74337  9715.  4.39 -42.5-246.9 138.6-0.0098-0.0811 0.0231-0.0770 0.0055 0.0352 8
74337 10002.  4.30 -43.0-242.9 142.6-0.0117-0.0870 0.0263-0.0834 0.0054 0.0376 9
74337 10321.  4.19 -43.6-238.3 147.1-0.0170-0.0935 0.0270-0.0888 0.0082 0.0425 8
74337 10607.  4.09 -44.1-234.2 151.2-0.0171-0.0991 0.0308-0.0952 0.0055 0.0443 9
74337 10929.  3.98 -44.7-229.5 155.9-0.0257-0.1055 0.0309-0.1004 0.0106 0.0504 8
74337 11224.  3.88 -45.3-225.0 160.3-0.0300-0.1112 0.0373-0.1092 0.0112 0.0512 8
74337 11510.  3.78 -45.9-220.6 164.7-0.0344-0.1211 0.0433-0.1206 0.0104 0.0555 9
74337 11832.  3.67 -46.5-215.5 169.8-0.0431-0.1295 0.0421-0.1266 0.0132 0.0648 8
74337 12118.  3.57 -47.1-210.8 174.4-0.0493-0.1395 0.0475-0.1380 0.0124 0.0704 8
74337 12413.  3.46 -47.7-205.8 179.4-0.0614-0.1518 0.0539-0.1527 0.0152 0.0786 9
74337 12736.  3.35 -48.3-200.2 185.0-0.0725-0.1617 0.0625-0.1674 0.0162 0.0839 8
74337 13020.  3.25 -48.9-195.0 190.1-0.0849-0.1746 0.0671-0.1816 0.0161 0.0948 8
74337 13306.  3.15 -49.4-189.7 195.5-0.1003-0.1866 0.0753-0.1986 0.0167 0.1041 8
74337 13637.  3.04 -50.0-183.1 202.0-0.1208-0.2027 0.0873-0.2226 0.0166 0.1160 8
74337 13887.  2.95 -50.5-178.0 207.1-0.1407-0.2184 0.0999-0.2470 0.0138 0.1276 7
74337 14210.  2.84 -51.0-171.1 214.0-0.1704-0.2367 0.1108-0.2751 0.0132 0.1465 9
74337 14530.  2.73 -51.4-163.8 221.2-0.2025-0.2478 0.1242-0.3028 0.0130 0.1613 8
74337 14827.  2.63 -51.6-156.8 228.3-0.2449-0.2647 0.1414-0.3414 0.0119 0.1826 8
74337 15113.  2.53 -51.8-149.6 235.4-0.2924-0.2783 0.1653-0.3870 0.0070 0.2012 9
74337 15435.  2.43 -51.7-141.2 243.8-0.3523-0.2893 0.1868-0.4373 0.0029 0.2271 8
74337 15719.  2.33 -51.4-133.3 251.6-0.4194-0.2947 0.2022-0.4866-0.0026 0.2588 8
74337 16004.  2.24 -50.9-125.1 259.8-0.4960-0.2916 0.2212-0.5442-0.0099 0.2897 8
74337 16300.  2.15 -50.0-116.3 268.6-0.5958-0.2774 0.2382-0.6155-0.0177 0.3316 9
74337 16622.  2.06 -48.7-106.6 278.3-0.7018-0.2439 0.2435-0.6843-0.0245 0.3779 8
74337 16954.  1.96 -46.7 -96.3 288.6-0.8309-0.1911 0.2294-0.7626-0.0361 0.4442 9
74337 17216.  1.90 -44.7 -88.2 296.7-0.9378-0.1227 0.1936-0.8207-0.0472 0.507313
74337 17502.  1.83 -42.0 -79.3 305.5-1.0408-0.0307 0.1320-0.8748-0.0607 0.578011
74337 17767.  1.77 -39.1 -71.3 313.5-1.1067 0.0573 0.0573-0.9046-0.0710 0.6392 8
      APPROXIMATELY 12 MINUTES OF DATA AFTER CLOSEST APPROACH IS MISSING DUE
      TO UNCERTAINTY OF SPACECRAFT ROLL ATTITUDE DATA
74337 21532.  1.90  22.7-334.1  50.3 0.1845-0.4148-0.3971 0.2775-0.0142 0.5353 2
74337 21730.  1.95  25.1-329.7  54.8 0.1733-0.4434-0.3163 0.3033-0.0080 0.4846 3
74337 22072.  2.04  28.9-322.1  62.4 0.1545-0.4503-0.2360 0.3121 0.0053 0.4301 5
74337 22289.  2.10  31.1-317.4  67.0 0.1379-0.4489-0.1840 0.3161 0.0126 0.3930 7
74337 22609.  2.20  34.0-310.4  74.0 0.1144-0.4366-0.1238 0.3142 0.0220 0.3462 8
74337 22930.  2.30  36.5-303.5  80.8 0.0899-0.4178-0.0706 0.3097 0.0295 0.3017 8
74337 23228.  2.40  38.6-297.2  87.1 0.0697-0.3930-0.0313 0.2991 0.0368 0.2636 7
74337 23513.  2.49  40.4-291.3  93.0 0.0487-0.3671 0.0010 0.2883 0.0390 0.2294 9
74337 23835.  2.60  42.1-284.7  99.6 0.0341-0.3450 0.0237 0.2778 0.0443 0.2040 8
74337 24049.  2.67  43.1-280.3 103.9 0.0187-0.3188 0.0409 0.2649 0.0413 0.1782 5
74337 24441.  2.80  44.8-272.5 111.7 0.0049-0.2921 0.0519 0.2469 0.0446 0.1582 2
74337 24630.  2.87  45.5-268.8 115.4-0.0040-0.2741 0.0736 0.2472 0.0417 0.1331 4
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73-019A-1413

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C                    PIONEER 11 SATURN ENCOUNTER DATA
C*****************************************************************************
C
C      THE DATA CARDS FOR PIONEER 11 SATURN ENCOUNTER CONTAIN THE FOLLOWING
C
C      COLUMNS 2,3 CONTAIN THE YEAR   (79)
C      COLUMNS 4,5,6 CONTAIN THE DAY OF TH YEAR        (244)
C      COLUMNS 9-13 CONTAIN  THE SECONDS OF DAY FOR THE (NTH/2)+1
C      POINT IN THE AVERAGE.
C      COLUMNS 26-30 CONTAIN THE SPACECRAFT/SATURN DISTANCE (1 SJ=60401KM).
C      COLUMNS 36-40 CONTAIN SATURN  CENTERED LATITUDE OF SPACECRAFT.
C      COLUMNS 45-50 CONTAIN SATURN  CENTERED LONGITUDE OF SPACECRAFT IN SLS
C      LONGITUDE SYSTEM.
C      COLUMNS 53-60, CONTAIN  THE RADIAL COMPONENT OF FIELD IN SATURN  CENTERED
C      SPHERICAL COORDINATE SYSTEM.
C      COLUMNS 63-70  CONTAIN  THE AZIMUTHAL COMPONENT OF FIELD IN SATURN
C      CENTERED SPHERICAL COORDINATE SYSTEM.
C      COLUMNS 73-80  CONTAIN  THE  POLAR COMPONENT OF FIELD IN SATURN  CENTERED
C      SPHERICAL COORDINATE SYSTEM.
C
C
 79244  40631          5.971      2.91    101.65   0.00088   0.00035  -0.00223
 79244  41062          5.863      2.86    105.20  -0.00309   0.00124  -0.00253
 79244  41493          5.754      2.81    108.72  -0.00416  -0.00271  -0.00476
 79244  41931          5.643      2.75    112.29  -0.00188   0.00295  -0.00660
 79244  42501          5.498      2.68    116.90  -0.00250   0.00445   0.00176
 79244  42939          5.385      2.61    120.42   0.00164  -0.00301  -0.00117
 79244  43224          5.312      2.57    122.69   0.00211   0.00423  -0.00001
 79244  43655          5.201      2.51    126.12   0.00484   0.00150   0.00435
 79244  43947          5.125      2.46    128.41   0.00750  -0.00130   0.00869
 79244  44524          4.975      2.36    132.92  -0.00175   0.00308  -0.00659
 79244  44955          4.862      2.29    136.24   0.00230   0.00413  -0.00001
 79244  45385          4.749      2.21    139.52   0.00087   0.00025  -0.00224
 79244  45817          4.635      2.12    142.80  -0.00067  -0.00355  -0.00447
 79244  46248          4.520      2.03    146.01   0.00364  -0.00044   0.00840
 79244  46679          4.405      1.94    149.18  -0.00012   0.00099   0.00817
 79244  47110          4.289      1.84    152.31  -0.00323  -0.00052  -0.00878
 79244  47548          4.171      1.73    155.43   0.00502   0.00083   0.00428
 79244  47979          4.054      1.62    158.46  -0.00146   0.00331  -0.00655
 79244  48410          3.937      1.50    161.42  -0.00107  -0.00344  -0.00447
 79244  48841          3.819      1.37    164.31  -0.00131   0.00334  -0.00654
 79244  49271          3.701      1.23    167.13   0.00010   0.00099   0.00817
 79244  49702          3.582      1.08    169.86  -0.00196   0.00427   0.00390
 79244  50141          3.460      0.92    172.56  -0.00142  -0.00332  -0.00446
 79244  50571          3.341      0.75    175.10  -0.00342   0.00008  -0.00872
 79244  51002          3.220      0.57    177.53   0.00028   0.00093   0.00817
 79244  51433          3.100      0.37    179.85   0.00186   0.00206   0.00403
 79244  51863          2.979      0.16    182.01   0.00521  -0.00041   0.00414
 79244  52294          2.858     -0.07    184.02  -0.00546   0.00037   0.00591
 79244  52725          2.737     -0.33    185.86  -0.00254   0.00354   0.00808
 79244  53164          2.614     -0.61    187.51   0.00066   0.00090   0.00816
 79244  53594          2.494     -0.91    188.90  -0.00376   0.00295   0.01227
 79244  54025          2.375     -1.24    190.01  -0.00520   0.00239   0.01646
 79244  54456          2.257     -1.60    190.82  -0.00001  -0.00379   0.01654
 79244  54887          2.140     -1.99    191.29  -0.00634   0.00245   0.02071
 79244  55318          2.026     -2.42    191.33  -0.00600   0.00294   0.02075
 79244  55756          1.914     -2.89    190.90  -0.00721  -0.00070   0.02926
 79244  56187          1.808     -3.40    189.92  -0.00455   0.00110   0.03548
 79244  56619          1.707     -3.93    188.32  -0.00932   0.00489   0.03361
 79244  57050          1.614     -4.47    186.05  -0.01149   0.00679   0.04220
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73-019A-14C

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*************************************************************************
*    ALL THE DATA CONTAINED IN THIS FILE IS FOR DECEMBER 3, 1974
*    IT IS THE DATA FOR THE JUPITER ENCOUNTER FOR PIONEER 11.
*    TIME IS IN SECONDS OF DAY AND IS FOUND IN THE FIRST COLUMN.
*    ALSO CONTAINED IN THE FILE ARE:
*
*              S/C POSITION:   R, LATITUDE, WEST LONGITUDE  ( COLUMNS 2,3,4 )
* NOTE: LONGITUDE OF S/C IS WEST LONGITUDE SYSTEM III 1957. TO CONVERT
*       TO SYSTEM III 1965, THE VALUE 30.133 SHOULD BE SUBTRACTED FROM
*       THE S/C LONGITUDE CONTAINED HEREIN.
*
*             FIELD COMPONENTS:     BR, B THETA, B PHI     ( COLUMNS 5,6,7 ).
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4780.8	6.007	-35.668	77.068	-0.03027	0.01400	-0.00026
4817.6	5.996	-35.707	77.476	-0.03026	0.01402	-0.00029
4853.3	5.985	-35.746	77.891	-0.03024	0.01405	-0.00032
4889.2	5.973	-35.787	78.315	-0.03024	0.01407	-0.00035
4924.2	5.962	-35.826	78.724	-0.03023	0.01408	-0.00039
4960.5	5.951	-35.866	79.150	-0.03022	0.01410	-0.00042
4996.1	5.940	-35.906	79.567	-0.03021	0.01412	-0.00046
5031.4	5.929	-35.945	79.977	-0.03020	0.01415	-0.00048
5066.9	5.917	-35.986	80.403	-0.03019	0.01417	-0.00052
5101.2	5.906	-36.027	80.829	-0.03018	0.01419	-0.00057
5135.3	5.894	-36.067	81.240	-0.03017	0.01421	-0.00059
5171.3	5.883	-36.108	81.658	-0.03016	0.01424	-0.00063
5207.8	5.872	-36.149	82.085	-0.03014	0.01426	-0.00065
5242.8	5.861	-36.189	82.495	-0.03406	0.02447	0.00500
5279.3	5.849	-36.231	82.922	-0.03012	0.01429	-0.00073
5315.1	5.838	-36.272	83.341	-0.03999	0.00813	0.00207
5350.2	5.827	-36.312	83.753	-0.03011	0.01434	-0.00079
5386.7	5.815	-36.354	84.180	-0.03009	0.01435	-0.00084
5422.5	5.804	-36.396	84.599	-0.03009	0.01439	-0.00087
5457.7	5.792	-36.437	85.012	-0.03398	0.02464	0.00474
5494.2	5.781	-36.479	85.442	-0.03996	0.00828	0.00188
5530.8	5.769	-36.522	85.871	-0.03005	0.01444	-0.00098
5566.3	5.758	-36.563	86.285	-0.03003	0.01447	-0.00101
5601.7	5.747	-36.605	86.708	-0.03003	0.01448	-0.00106
5635.0	5.736	-36.647	87.123	-0.03391	0.02477	0.00450
5670.4	5.724	-36.690	87.554	-0.03994	0.00843	0.00167
5707.3	5.712	-36.733	87.986	-0.03388	0.02483	0.00441
5742.7	5.701	-36.775	88.402	-0.02998	0.01457	-0.00120
5778.8	5.690	-36.818	88.827	-0.02996	0.01459	-0.00123
5815.8	5.678	-36.862	89.260	-0.02995	0.01463	-0.00127
5861.5	5.663	-36.918	89.819	-0.03992	0.00859	0.00145
5896.5	5.652	-36.962	90.252	-0.03379	0.02499	0.00415
5932.4	5.640	-37.006	90.678	-0.03378	0.02501	0.00410
5968.1	5.629	-37.048	91.096	-0.03376	0.02504	0.00405
6004.8	5.617	-37.093	91.529	-0.03375	0.02507	0.00400
6041.9	5.606	-37.137	91.963	-0.03988	0.00875	0.00123
6077.0	5.594	-37.180	92.381	-0.03371	0.02513	0.00390
6111.2	5.583	-37.224	92.806	-0.04352	0.01236	-0.00992
6146.5	5.571	-37.269	93.241	-0.03369	0.02518	0.00381
6182.1	5.560	-37.313	93.659	-0.03366	0.02521	0.00376
6219.4	5.548	-37.358	94.093	-0.04346	0.01243	-0.01008
6255.3	5.537	-37.403	94.520	-0.03364	0.02527	0.00366
6289.0	5.526	-37.446	94.939	-0.04368	0.01937	0.00631
6325.0	5.514	-37.493	95.383	-0.03361	0.02533	0.00355
6362.0	5.502	-37.539	95.820	-0.04367	0.01944	0.00620
6398.1	5.491	-37.583	96.242	-0.04366	0.01948	0.00614
6434.2	5.479	-37.629	96.673	-0.03356	0.02541	0.00340

73-019A-14D

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*     THIS FILE CONTAINS THE DATA FOR THE PIONEER 11 SATURN ENCOUNTER.
*     CONTAINED IN THE FILE ARE:
*     S/C POSITION R, LATITUDE, WEST LONGITUDE     ( COLUMNS 1, 2, 3 )
*     FIELD COMPONENTS BR, B THETA, BPHI           ( COLUMNS 4, 5, 6 )
*     TIME ( YEAR/DAY/HOUR/MIN/SEC )               ( COLUMN  7       )
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7.4800	3.4680	4.6372	0.007447	0.008831	0.000066	79244093358
7.4454	3.4580	5.9592	-0.003327	-0.011076	-0.005510	79244093624
7.4104	3.4470	7.2871	-0.003339	-0.011076	-0.005503	79244093851
7.3776	3.4380	8.5352	0.007452	0.008827	0.000022	79244094109
7.3428	3.4270	9.8521	-0.003363	-0.011076	-0.005488	79244094335
7.3080	3.4160	11.1702	-0.003375	-0.011076	-0.005480	79244094601
7.2729	3.4060	12.4941	0.007457	0.008823	-0.000024	79244094828
7.2390	3.3950	13.7732	-0.003401	-0.011076	-0.005465	79244095050
7.2050	3.3840	15.0510	-0.003413	-0.011076	-0.005457	79244095312
7.1016	3.3510	18.9241	-0.001434	-0.004420	0.006780	79244100023
7.0665	3.3400	20.2332	0.007466	0.008814	-0.000118	79244100249
7.0313	3.3280	21.5422	-0.004564	0.007815	0.001540	79244100515
6.9978	3.3170	22.7861	-0.001395	-0.004417	0.006790	79244100734
6.9626	3.3050	24.0920	-0.003505	-0.011076	-0.005399	79244101000
6.9273	3.2930	25.3972	-0.004549	0.007818	0.001566	79244101226
6.8936	3.2810	26.6382	-0.001355	-0.004413	0.006801	79244101445
6.8583	3.2690	27.9402	-0.001341	-0.004412	0.006804	79244101711
6.8228	3.2570	29.2412	0.007476	0.008804	-0.000235	79244101937
6.7874	3.2440	30.5400	-0.003574	-0.011075	-0.005354	79244102203
6.7536	3.2320	31.7761	-0.003588	-0.011075	-0.005345	79244102422
6.7180	3.2190	33.0742	-0.003603	-0.011075	-0.005336	79244102648
6.6824	3.2060	34.3691	-0.001271	-0.004406	0.006821	79244102914
6.6468	3.1930	35.6641	-0.001256	-0.004405	0.006825	79244103140
6.6128	3.1800	36.8940	-0.004502	0.007829	0.001647	79244103359
6.5771	3.1670	38.1860	-0.001227	-0.004403	0.006832	79244103625
6.5413	3.1530	39.4761	-0.003677	-0.011074	-0.005286	79244103851
6.5074	3.1400	40.6951	-0.004485	0.007833	0.001675	79244104109
6.4713	3.1260	41.9902	0.007489	0.008786	-0.000418	79244104336
6.4354	3.1120	43.2761	-0.004473	0.007835	0.001695	79244104602
6.3994	3.0980	44.5591	-0.003738	-0.011074	-0.005245	79244104828
6.3653	3.0840	45.7712	-0.001134	-0.004396	0.006852	79244105046
6.3290	3.0690	47.0610	-0.003770	-0.011073	-0.005223	79244105313
6.2929	3.0540	48.3401	-0.001101	-0.004393	0.006859	79244105539
6.2587	3.0400	49.5471	0.007495	0.008774	-0.000537	79244105757
6.2225	3.0250	50.8242	0.007496	0.008772	-0.000558	79244110023
6.1860	3.0090	52.1062	0.007496	0.008770	-0.000579	79244110250
6.1497	2.9940	53.3782	-0.001034	-0.004388	0.006873	79244110516
6.1153	2.9790	54.5791	0.007498	0.008766	-0.000621	79244110734
6.0788	2.9630	55.8481	-0.004407	0.007849	0.001799	79244111000
6.0421	2.9460	57.1230	-0.003903	-0.011071	-0.005130	79244111227
6.0076	2.9310	58.3181	-0.003920	-0.011070	-0.005118	79244111445
5.9710	2.9140	59.5811	-0.000946	-0.004382	0.006889	79244111711
5.9344	2.8970	60.8420	0.007501	0.008755	-0.000732	79244111937
5.8977	2.8800	62.1001	-0.004370	0.007857	0.001855	79244112203
5.8627	2.8630	63.2971	-0.000891	-0.004378	0.006899	79244112422
5.8260	2.8450	64.5510	-0.004010	-0.011068	-0.005052	79244112648
5.7891	2.8280	65.8042	-0.004347	0.007862	0.001890	79244112914
5.7540	2.8100	66.9941	-0.004047	-0.011067	-0.005025	79244113133
5.7170	2.7920	68.2422	-0.004066	-0.011067	-0.005010	79244113359
5.6800	2.7730	69.4880	-0.000792	-0.004372	0.006915	79244113625
5.6430	2.7540	70.7312	-0.004105	-0.011066	-0.004981	79244113851
5.6076	2.7360	71.9131	-0.000752	-0.004369	0.006921	79244114110
5.5705	2.7160	73.1511	-0.000730	-0.004368	0.006925	79244114336