

#278

PIONEER 6 65-105A-02D

PIONEER 7 66-075A-02D

FARADAY CUP

HOURLY AVG PLASMA PARAMETER

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

PIONEER 6

1 HOUR AVERAGE PLASMA PARAMETERS ON TAPE

65-105A-02D SPHE-00550

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WAS ONE 7-TRACK, 800 BPI TAPE WRITTEN IN BCD. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI WRITTEN IN ASCII. THE TAPE WAS CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR03430	DS03430	D15765	1	12/16/65 - 05/09/71

PIONEER 6 65-105A-02D

PIONEER 7 66-075A-02D

FARADAY CUP HOURLY AVERAGE PLASMA PARAMETER

This data set consists of Pioneer 6 and 7 Faraday Cup Hourly
Averages Plasma Parameter tapes created on an IBM 360 computer. The
tapes are 7-track, 800 BPI, 1 file, and contain 286 character ~~BCD~~^{ASCII}
records blocked 10 per physical record.

The time spans for the tapes are:

PIONEER 6 65-105A-02D

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-15765	C-12196	12/16/65 - 5/09/71

PIONEER 7 66-075A-02D

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-15766	C-12197	8/18/66 - 11/29/68

1 HOUR AVERAGE TAPES

These tapes contain one hour averages of nine parameters from the MIT solar wind experiment on the Pioneer 6 & 7 spacecraft.

They may be read by FORTRAN statements of the form

```
DIMENSION NUMBER (9)

INTEGER SATEL, PION6/'PIB6'/,PION7/'PIB7'/

READ(3,1000) SATEL,NYEAR,NDAY,NHOUR,
              (AVE(K),SD(K),NUMBER(K),K=1,9)

1000 FORMAT (A4,3I4,9(3F10.3))
```

where SATEL = PION6 or PION7

NYEAR = YEAR

NDAY = DAY OF YEAR (JAN 1 = 1)

NHOUR = HOUR (0 to 23)

AVE, SD, and NUMBER are average value, standard deviation, and number of samples for each parameter as follows:

<u>K</u>	<u>Parameter</u>
1	Bulk speed (Km/sec)
2	Density (#/cc)
3	Most probable thermal speed (Km/sec)
4	Flux (/cm ² -sec)
5	Thermal speed/Bulk speed
6	Flow angle (deg.) <u>in</u> ecliptic, + = from West of the sun
7	Flow angle (deg.) <u>↓</u> to ecliptic, + = from South
8	VT - the velocity component in the ecliptic and perpendicular to the radial direction, + = in the same direction as the earth's motion along its orbit.
9	VN - the velocity component perpendicular to the ecliptic; + = North.

The tapes are 7-track, 800 bpi, and contain 286 character BCD records blocked ten per physical record. An IBM 360 could read the tape using following DD cards:

```
//C.FT03F001 DD UNIT=TAPE7,LABEL=(1,NL),DISP=(NEW,DELETE),
// DCH=(RECFM=FBS,BLKSIZE=2860,LRECL=286,BLN=2,TRTCH=ET),
// VOL=SER=P71H1
```

PI 61965 350 17 274.032 0.707 29.000 16.691 1.609 29.000 0.0 0.0 0.0
0.0 4573.355 436.422 29.000 0.0 0.0 -0.817 0.678 29.000
0.125 4.042 29.000 3.232 29.000 0.624 19.307 29.000PI 61965 350
18 273.358 0.698 42.000 16.904 1.252 42.000 0.0 0.0 0.0 4621.0
16 342.606 42.000 0.0 0.0 -0.090 0.643 42.000 0.501 2.9
85 42.000 0.429 3.061 42.000 2.395 14.227 42.000PI 61965 350 19 273.163
0.625 42.000 15.395 0.669 42.000 0.0 0.0 4205.172 175.025
42.000 0.0 0.0 0.620 42.000 -0.101 3.028 42.000
-2.948 2.085 42.000 -0.477 14.429 42.000PI 61965 350 20 272.904 0.707 43
0.00 15.811 0.418 43.000 0.0 0.0 0.0 4314.879 112.299 43.000 0
0 0.0 0.527 0.346 43.000 -1.662 2.396 43.000 -2.507 1
.640 43.000 -7.913 11.407 43.000PI 61965 350 21 272.139 0.885 47.000 16.005
0.641 47.000 0.0 0.0 4355.336 170.230 47.000 0.0 0.0
0.0 1.350 0.628 47.000 2.562 1.739 47.000 -6.400 2.972 47.000
-12.166 8.256 47.000PI 61965 350 22 272.159 0.426 45.000 14.235 0.643
45.000 0.413 45.000 -1.213 3.315 45.000 1.952 45.000 -5.760 0.0
1.278 0.0 0.0 3874.129 176.050 45.000 0.0 0.0 0.0
15.734 45.000PI 61965 350 23 272.445 0.489 47.000 -6.056 1.952 45.000 0.0
0.0 0.0 3726.441 200.424 47.000 0.0 0.0 0.0 0.702 47.0
20 47.000 -2.764 2.644 47.000 -3.328 2.464 47.000 -13.141 12.559 47.0
00PI 61965 351 0 272.234 0.590 47.000 15.128 1.382 47.000 0.0 0.0
0.0 4117.914 371.642 47.000 0.0 0.0 1.114 0.731 47.000
-2.238 2.504 47.000 -5.279 3.461 47.000 -10.629 11.893 47.000PI 61965 351
1 272.473 0.615 46.000 18.140 1.422 46.000 0.0 0.0 0.0 4942
.887 390.610 46.000 0.0 0.0 0.644 46.000 -0.798 3
.903 46.000 -3.056 2.921 46.000 -3.788 18.546 46.000PI 61965 351 2 272.560
0.683 46.000 16.351 0.943 46.000 0.0 0.0 0.0 4456.738 257.009
46.000 0.0 0.0 0.452 46.000 0.464 3.016 46.000
-2.172 3.052 46.000 2.209 14.339 46.00000

12/16/65-05/09/71

PI 61965 351 3 272.202 0.769 45.000 16.464 1.697 45.000 0.0 0.0 0.0
0.0 4481.652 463.586 45.000 0.0 0.0 1.319 0.622 45.000
-2.236 3.252 45.000 -6.253 2.949 45.000 -10.613 15.440 45.000PI 61965 351
4 272.417 0.872 47.000 13.174 1.224 47.000 0.0 0.0 0.0 3588.5
65 330.624 47.000 0.0 0.0 1.631 47.000 -1.334 3.5
02 47.000 -7.737 2.559 47.000 -6.343 16.635 47.000PI 61965 351 5 272.211
0.897 47.000 11.498 0.508 47.000 0.0 0.0 3129.803 137.374
47.000 0.0 0.0 1.660 47.000 -1.462 3.046 47.000
-7.874 0.749 47.000 -6.940 14.465 47.000PI 61965 351 6 272.153 0.825 48
0.00 11.663 1.179 48.000 0.0 0.0 3174.034 320.791 48.000 0
0 0.0 2.239 0.583 48.000 -0.336 3.311 48.000 -10.612 2
.756 48.000 -1.601 15.715 48.000PI 61965 351 7 272.383 0.596 46.000 14.306
1.451 46.000 0.0 0.0 3896.792 395.962 46.000 0.0 0.0
0.0 1.337 0.940 46.000 -0.009 3.210 46.000 -6.339 4.448 46.000
-0.051 15.251 46.000PI 61965 351 8 272.639 0.754 45.000 15.697 0.464
45.000 0.0 0.0 4279.668 128.295 45.000 0.0 0.0 0.0
0.310 0.297 45.000 1.310 1.817 45.000 -1.473 1.412 45.000 6.233
8.643 45.000PI 61965 351 9 272.477 0.636 48.000 17.457 1.094 48.000 0.0
0.0 0.0 4756.734 298.640 48.000 0.0 0.0 0.0 0.7
64 48.000 0.156 3.365 48.000 -4.278 3.627 48.000 0.744 15.989 48.0
00PI 61965 351 10 272.864 0.847 47.000 14.860 1.402 47.000 0.0 0.0
0.0 4055.012 384.615 47.000 0.0 0.0 -0.064 0.701 47.000
1.975 2.039 47.000 0.308 3.334 47.000 9.698 47.000PI 61965 351
11 273.978 1.108 45.000 9.625 1.188 45.000 0.0 0.0 0.0 2636
.512 320.200 45.000 0.0 0.0 0.827 45.000 45.000 3.937 3
.189 45.000 -3.939 3.307 45.000 18.803 15.202 45.000PI 61965 351 12 275.562
1.603 45.000 7.532 0.606 45.000 0.0 0.0 0.0 2075.097 159.491
45.000 0.0 0.0 2.253 45.000 1.485 3.476 45.000
-10.809 3.951 45.000 7.124 16.704 45.00000

PI 61965 351 13 275.706 1.445 46.000 7.076 0.588 46.000 0.0 0.0 0.0
0.0 1950.689 158.804 46.000 0.0 0.0 2.523 0.663 46.000
-1.111 2.687 46.000 -12.118 3.183 46.000 -5.360 12.882 46.000PI 61965 351

14	277.992	1.925	45.000	6.365	0.451	45.000	0.0	0.0	0.0	0.0	1769.4
00	126.642	45.000	0.0	0.0	0.0	2.967	0.461	45.000	0.269	2.5	
50	45.000	-14.375	2.235	45.000	1.300	12.316	45.000PI	61965 351	15	286.184	
	9.302	33.000	6.308	0.550	33.000	0.0	0.0	0.0	1801.475	118.724	
	33.000	0.0	0.0	0.0	2.748	0.762	33.000	0.256	3.443	33.000	
	-13.671	3.776	33.000	1.263	17.285	33.000PI	61965 351	16	295.107	4.451	48
	0.00	6.875	0.500	48.000	0.0	0.0	0.0	2029.625	160.198	48.000	0
	0.0	0.0	0.0	2.236	0.782	48.000	-1.580	3.297	3.545	45.000	6.519
	.926	48.000	-8.276	17.061	48.000PI	61965 351	17	295.199	45.000	0.0	0.0
	0.593	45.000	0.0	0.0	0.0	1.340	3.294	45.000	-5.261	4.435	45.000
	0.0	1.020	0.858	45.000	-1.340	3.294	45.000	5.287	47.000	6.183	0.475
	-6.964	16.984	45.000PI	61965 351	18	296.356	47.000	0.0	0.0	0.0	0.0
	47.000	0.0	0.0	1831.897	137.955	47.000	-0.020	6.309	47.000	-3.810	0.0
	-0.001	1.227	47.000	-0.702	3.238	47.000	47.000	6.607	0.627	47.000	0.0
	16.865	47.000PI	61965 351	19	295.177	5.991	47.000	0.0	0.0	-0.308	0.9
	0.0	0.0	1948.967	172.833	47.000	0.0	0.0	0.0	0.0	0.0	0.0
	37	47.000	0.511	3.444	47.000	1.535	4.796	47.000	4.528	17.828	47.0
	00PI	61965 351	20	298.222	7.853	47.000	6.363	0.531	47.000	0.0	0.0
	0.0	1897.747	167.635	47.000	0.0	0.0	0.0	0.590	0.743	47.000	
	0.176	3.398	47.000	-3.145	3.899	47.000	0.654	17.576	47.000PI	61965 351	
	21	307.827	10.355	19.000	5.971	0.705	19.000	0.0	0.0	0.0	1842
	.989	264.568	15.000	0.0	0.0	0.0	1.235	0.340	19.000	-0.444	2
	.874	19.000	-6.669	1.967	19.000	-2.863	15.396	19.000PI	61965 351	22	319.212
	0.0	1.000	7.050	0.0	1.000	0.0	0.0	0.0	2250.444	0.0	0.0
	1.000	0.0	0.0	0.0	1.666	0.0	1.000	-7.084	0.0	1.000	
	-9.209	0.0	1.000	-39.364	0.0	1.00000					

REC 4. LENGTH 2862

PI	61965 351	23	315.977	4.264	12.000	6.665	0.518	12.000	0.0	0.0	
0.0	2108.749	185.076	12.000	0.0	0.0	0.0	1.865	0.342	12.000		
-5.295	1.922	12.000	-10.237	1.888	12.000	-29.186	10.694	12.000PI	61965 352		
0	324.792	2.974	3.000	7.213	0.849	3.000	0.0	0.0	0.0	234.3	
09	296.160	3.000	0.0	0.0	0.0	2.060	0.426	3.000	4.099	0.2	
77	3.000	-11.660	2.493	3.000	23.205	1.384	3.000PI	61965 352	1	311.043	
	7.276	5.000	6.182	0.504	5.000	0.0	0.0	0.0	1924.509	187.531	
	5.000	0.0	0.0	0.0	2.144	0.259	5.000	3.196	3.694	5.000	
-11.583	1.281	5.000	17.001	20.048	5.000PI	61965 352	4	317.362	6.926	33	
0.00	6.430	0.662	33.000	0.0	0.0	0.0	2043.598	244.724	33.000	0	
0	0.0	0.0	2.954	0.284	33.000	-0.358	3.283	33.000	-16.334	1	
.661	33.000	-1.957	18.257	33.000PI	61965 352	5	308.815	8.324	46.000	5.302	
0.0	0.698	46.000	0.0	0.0	0.0	1637.403	218.756	46.000	0.0	0.0	
	0.0	2.595	0.540	46.000	1.554	3.401	46.000	-13.987	2.987	46.000	
8.089	18.166	46.000PI	61965 352	6	340.301	11.762	47.000	15.356	6.006		
47.000	21.652	3.400	4.000	5291.242	2151.585	47.000	0.066	0.012	4.000		
0.964	1.883	47.000	2.147	2.700	46.000	-4.126	4.731	46.000	13.031		
15.922	46.000PI	61965 352	7	354.109	3.069	49.000	25.939	4.969	49.000	0.0	
0.0	0.0	0.0	9194.668	1824.547	49.000	0.0	0.0	0.0	-1.349	0.9	
15	49.000	5.021	2.875	49.000	8.317	5.667	49.000	30.968	17.724	49.0	
00PI	61965 352	8	362.435	4.837	51.000	35.753	3.790	51.000	0.0	0.0	
0.0	12958.461	1388.166	51.000	0.0	0.0	0.0	-3.663	0.754	51.000		
9.685	3.224	51.000	22.783	4.655	51.000	60.874	20.027	51.000PI	61965 352		
9	365.280	5.644	51.000	31.260	4.306	51.000	0.0	0.0	0.0	11434	
.820	1712.499	51.000	0.0	0.0	0.0	-4.884	1.242	51.000	7.223	2	
.892	51.000	30.766	7.653	51.000	45.912	18.355	51.000PI	61965 352	10	351.233	
5.533	50.000	22.906	3.626	50.000	29.008	3.627	30.000	8052.039	1317.856		
50.000	0.083	0.011	30.000	-4.724	1.375	50.000	7.084	3.327	50.000		
28.683	8.353	50.000	43.095	15.829	50.00000						

REC 5. LENGTH 2862

PI	61965 352	11	387.020	18.833	51.000	19.625	3.609	51.000	33.981	3.896	
44.000	7602.563	1475.656	51.000	0.088	0.011	44.000	-3.757	1.811	51.000		
1.250	5.086	50.000	26.436	6.855	50.000	7.788	33.706	50.000PI	61965 352		
12	394.605	7.915	50.000	21.784	2.879	50.000	33.810	4.024	43.000	8593.8	
63	1127.738	50.000	0.085	0.011	43.000	-3.137	2.224	50.000	2.758	2.8	
56	50.000	21.412	15.070	50.000	19.006	19.781	50.000PI	61965 352	13	394.088	

PIONEER 7

HOURLY AVG PLASMA PARAMETERS ON TAPE

66-075A-02D SPHE-00030

This data set has been restored. There was originally one 7-track, 800 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005367	DS005367	D015766	1	08/19/66 - 11/29/68

See 65-105A-02D

5335Y201

01 DEC. 75 BACKLOG CPU/IO STANDBY CPU/IO IDLE DOWN OP. PROB. EMS
360/91 0 0.00/ 0.00 41 12.10/ 3.77 0.00 0.00 LAST WEEK
360/75 0 0.00/ 0.00 0 0.00/ 0.00 0.00 0.00

601A0068

///YZJRJLR4 JOB (K10102385-P,KA0001,H00H00).601,M SGL=VEL=1
///TEST1 EXEC PGM=PATRICK.PAR=7NB.001.001.REGION=150K
///I1 DD UNIT=2400-7.LABEL=(.BLP,.IN).DCB=(.RECFCM=U,.E ROPY=ACC.DEN=2,
/// TRTCH=ET,
/// BLKSIZE=32000).VOL=SER=J00017
///OUT2 DD SYSOUT=A.DCB=(RECFCM=FB,LRECL=132,BLKSIZE=3000)

IEF2361 ALLOC. FOR YZJRJLR4 TEST1
IEF2371 0C0 ALLOCATED TO IN1
IEF2371 331 ALLOCATED TO OUT2

TRANSLATE MUST BE ON AND CONVERT OFF ON INPUT DEVICE = OR PROPER PRINTOUT. IGNORE THIS MESSAGE IF PROPER DEVICE WAS SPECIFIED.
RECORD 000001,

PI 71966 230 18 342.274 12.245 4.000 3.650 1.265 4.000
74.152 230 18 342.274 12.245 4.000 3.650 1.265 4.000
4.000 230 18 342.274 12.245 4.000 3.650 1.265 4.000
43.956 11.000 2.553 1.119 11.000 62.414 16.574 10.000 921.5
24 416.299 11.000 0.173 0.047 10.000 -0.447 8.470 11.0
00 -0.259 5.098 7.000 27.292 40.536 7.000 -2.926 31.1
35 7.000PI 71966 230 20 372.608 39.000 3.062 1.140
39.000 10.309 38.000 1130.612 398.371 39.000 0.194
0.031 38.000 -6.563 31.381 39.000 3.282 230 21 372
41.703 21.380 39.000 -55.778 1.221 42.000 77.198 12.369 40
606 46.360 42.000 2.110 0.211 0.045 40.000 -8.205 4
759.291 431.801 42.000 6.096 42.000 51.170 24.195 42.000 -50
113 42.000 -7.755 42.000 71966 230 22 342.395 52.000 4.311
37.850 42.000PI 71966 230 22 342.395 52.000 4.311
1.312 52.000 81.703 10.432 49.000 1461.768 410.739 52.000
0.239 0.034 49.000 -9.726 4.365 52.000 0.226 6.191
52.000 58.011 30.303 41.000 1.136 41.000 52.000PI 71966 2
30 23 353.882 1117.634 386.974 41.000 0.223 0.046 37.300
16.190 37.000 1117.634 386.974 41.000 0.223 0.046 37.300
41.000 39.312 41.000PI 71966 231 0 357.771 24.692 39.0
00 6.689 2.274 39.000 0.034 37.000 12.050 240.183 878.7
85 7.379 39.000 43.794 35.789 39.000 7.982 2.402 44.000
00PI 71966 231 1 380.033 14.678 4.000 7.982 2.402 44.000
85.079 9.501 4.000 3020.114 856.953 4.000 0.224 0.026
14.125 4.000 25.211 0.998 4.000PI 71966 231 2 409.101 12
233 43.000 8.637 0.221 0.018 43.000 -5.487 1.527 43
727 402.021 43.000 33.820 4.000 90.266 8.304 43.000 3530
0.000 4.825 43.000 38.932 10.860 43.000 14.977 34
125 43.000PI 71966 231 3 402.514 19.492 43.000 7.917 1.381
43.000 91.762 11.069 43.000 3187.961 587.229 43.000 0.228
0.022 43.000 -4.588 43.000 43.000 0.902 5.314 43.000
32.062 17.906 43.000 6.778 37.305 43.000
RECORD 000002, LENGTH 02660, FILE 00001,
PI 71966 231 4 390.344 20.319 38.000 7.503 1.446 38.000
86.456 7.963 38.000 2935.847 607.174 38.000 0.222 0.024
38.000 -4.261 38.000 38.000 38.000PI 71966 231 7 400.806 28.938 6.5
17.937 38.000 6.566 0.457 5.000 89.060 8.625 5.000 2633.7
41 223.741 5.000 0.222 0.025 5.000 -4.189 2.339 5.0
00 -1.543 3.954 5.000 28.959 16.000 5.000 -13.398 27.3
65 9.000PI 71966 231 8 394.674 12.530 9.000 6.326 0.311
9.000 86.142 5.877 9.000 2495.757 130.054 9.000 0.219
0.030 9.000 -3.689 9.000 9.000 5.263 9.000 9.000
25.163 8.544 39.000 36.112 39.000PI 71966 231 11 423
572 14.306 39.000 6.065 39.000 85.351 7.104 39
0.000 2569.718 275.287 39.000 0.202 0.018 39.000 1
593 39.000 -4.511 3.386 39.000 11.700 39.000 -0.535 1
966 0.578 44.000 91.343 39.000PI 71966 231 12 424.269 44.000 4.222
44.000 0.023 44.000 -1.736 44.000 2005.846 434.196 4.000
44.000 12.844 13.502 20.534 27.411 44.000 2.766 3.707
44.000 44.000PI 71966 2

PIONEER 7
D-15766
8/13/66 - 11/29/68

31 13 439.559 15.042 38.000 4.882 0.685 38.000 95.296
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