Data Set Catalog #131

Pioneer 6-Hourly Avg. Plasma Param
65-105A-06C 2 tapes

Pioneer 7-Hourly Avg. Plasma Param
66-075A-03C 1 tape

PIONEER VI AND PIONEER VII - HOURLY AVG PLASMA PARAM

65-105A-06C - Pioneer VI
66-075A-03C - Pioneer VII

The tapes in the 2 data sets are 800 BPI, Binary, 9 track, and contain 1 file. Each file consists of many short records. There is one logical record per physical record. There is a header record of 14 words, followed by a data record of up 53 words. There are 2 control words preceding the actual word 1 of the header record.

The tapes are hex dumped using TD-00. Start and stop times are in seconds since beginning of the year, and are converted to days. January 1=Day 0.

65-105A-06C
Pioneer 6 - Hourly Avg Plasma Param

D#	C#	#File	Start Stop
D-06366	C-04965	1	01/01/66-03/04/66
D-06367	C-04966	1	12/18/65-12/31/65

66-075A-03C
Pioneer 7 - Hourly Avg Plasma Param

D#	C#	#File	Start Stop
D-06364	C-04967	1	08/19/66-11/28/66

HEADER STOP TIME OF D-6366

5242880
65536
45056
3328

5356770 sec since beginning year

5356770 ÷ 86400 = 61.86370

61 DAYS

.86370 X 24 = 20.72880

20 HRS

.72880 X 60 = 43.72800

43 MIN

LAST LOGICAL RECORD (STOP TIME)

1487.6704 HRS ÷ 24 = 61.98626

61 days

.78626 X 24 = 23.67024

23 hrs

.67024 x 60 = 40.21440

40 mins

D-6367 BEGINNING

2
2112
2560
61440
917504
1258291 2
16,777,216
30,341,746

30,341,746 HEADER START
30,341,746 ÷ 86400 = 351.15346
DAY 351
.15346 × 24 = 3.68304
3 hrs
.68304 × 60 = 40.98240
40 mins

1ST LOGICAL RECORD START
8428.82420 hrs ÷ 24 = 351.20100
DAY 351
.20100 × 24 = 4.82400
4 × 4
.82400 × 60 = 49.44000
mins 49

STOP TIME of D-6367

3 HEADER
16
768
12228
65536
14680064
16,777,216
31,535,831

31,535,831 ÷ 86400 = 364.86231

DAY 364

.86231 x 24 = 20.69544

HR 20

.69544 x 60 = 41.72640

41 min

LAST LOGICAL RECORD STOP TIME

8759.51170 hrs ÷ 24 = 364.97965

364 DAY

.97965 x 24 = 23.51160

HR 23

.51160 x 60 = 30.69600

MIN 30

Begin

START D-6364 HEADER

16,777,214
2,097,152
983 040
12,288
2304

19872000

19,872000 ÷ 86400 = 230.000

DAY 230
HR 0
MIN 0

1ST LOGICAL RECORD START TIME

5520.00000 HRS ÷ 24 = 230.00000

DAY 230
HR 0
MIN 0

Begin

START D-6364 HEADER

16,777,214
2,097,152
983040
12,288
2304

19872000

19,872000 ÷ 86400 = 230.000

DAY 230
HR 0
MIN 0

1ST LOGICAL RECORD START TIME

5520.00000 HRS ÷ 24 = 230.00000

DAY 230
HR 0
MIN 0

END of D-6364 HEADER

STOP TIME

0
80
1792
57344
262144
1534336
16777216

281632912

281632912 ÷ 86400 = 331.34512

DAY 331

.34512 × 24 = 8.28288

HR 8

.28288 × 60 = 16.97280

min 16

LAST LOGICAL RECORD STOP

7953.3086 hrs ÷ 24 = 331.38285

DAY 331

.38285 × 24 = 9.30840

HR 9

.30840 × 60 = 18.50400

min 18

66-375A-03C
65-105A-06C

Project 1064-7 Technical Note

Originator: Edyth M. Henderson Date: April 20, 1971

Subject: Format of Parameter Hourly Averages Tape

This note describes the content and format of a tape which is produced by the Time Averaging Program. The tape contains averages of parameters within hourly time intervals.

This is a 9 track non-labeled binary tape written with a density of 800 BPI. It is written with variable length un-blocked records.

365
24
1460
730
8760

Format of Parameter Hourly Averages Tape

a. Header record - 14 words

Word	Name	Format	Description
1	IPSTRT	Integer	The starting time of data on this tape in seconds since the beginning of the year.
2	IPSTOP	Integer	The stop time of data on this tape in seconds since the beginning of the year.
3	NPION	Integer	Spacecraft ID or Pioneer number.
4	Spare integer word not presently being used.		
5	NYEAR1	Integer	The year corresponding to the time in word 1.
6	Spare integer word not presently being used.		
7	NYEAR2	Integer	The year corresponding to the time in word 2.
8 - 12	Spare integer words not presently being used.		

b. Data Record - variable length up to 53 words

Word	Name	Format	Description
1	HRTIME	Real	Mean time of the interval.
2	AN	Real	The number of points in the interval.
3	NWHOUT	Integer	The number of parameter averages written in the record.

Words 4 through NWHOUT +3 contain parameter averages within the time interval. Each word corresponds to a given parameter as follows: All parameter averages are in real format.

CHI-SQUARE LIMIT - 2.100

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