

#438

ATS-6
CDAW TAPES
74-039A-03A

SPMS-00269

02E-SPMS-00313

01A-SPMS-00628

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ATS 6

HIGH ENERGY PROTON DATA

0.5-SEC S/C XTZ COMP MAG. FIELD

SPMS-00628 74-039A-01A,02E **SPMS-00313**

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY THERE WERE TWO 9-TRACK, 1600 BPI TAPES WRITTEN IN EBCDIC, ONE FOR EACH DATA SET. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE TAPE CONTAINING -01A DATA WAS CREATED ON A CDC 6600 COMPUTER AND THE TAPE CONTAINING -02E DATA 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	DATA SET
DR03616	DS03616	D33381	1 - 2	07/28/77 - 07/29/77	01A
		D33382	3 - 6	12/01/77 - 12/12/77	01A
		D34025	7 - 9	07/29/77 - 07/29/77	02E

REQ. AGENT
VJP

RAND NO.
RD1810

ACQ. AGENT
BCD

ATS-6

HIGH ENERGY PROTON DATA

74-039A-01A

This data set catalog consists of 2 data tapes. The tapes are 9 track, 800 BPI, EBCDIC and are multi-filed. The tapes were created on a CDC 6600 computer.

Time span and files are as follows:

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-33381	C-20404	2	07/28/77 - 07/29/77
D-33382	C-20405	4	12/01/77 -12/12/77

ATS-6 HIGH ENERGY PROTON EXPERIMENT DATA TAPE INFORMATION

THE FOLLOWING DATA PERTAINS TO TAPES WRITTEN WITH THE PROGRAM ATSPSEC AND IS INTENDED TO ACCOMPANY ALL TAPES GENERATED WITH THAT PROGRAM.

CHARACTERISTICS - PER DAY OF DATA

9 TRACK
800 BITS PER INCH
RECORDING MODE CODED EBCDIC
RECORDING PARITY ODD
PHYSICAL RECORD SIZE 3600 BYTES
LOGICAL RECORD SIZE 60 BYTES
RECORDS PER BLOCK 60
NUMBER OF FILES 1
NUMBER OF EOFs 1

MAKE AND MODEL OF RECORDING COMPUTER

CONTROL DATA CORPORATION
CDC 6600 MAINFRAME
UNDER KRONOS 2.1 L419.48 OPERATING SYSTEM.

THE TAPE CONTAINS DATA FOR 4 TELESCOPES EACH HAVING 6 CHANNELS
THE TAPE FORMAT IS AS FOLLOWS

1 HEADER RECORD IN THE BEGINNING OF EACH FILE

CHARACTER	DESCRIPTION
1	SPACE
2-3	YEAR
4-5	SPACE
6-8	DAY OF YEAR
9-60	SPACE

DATA RECORDS

CHARACTER	DESCRIPTION
1	SPACE
2-7	SECONDS OF DAY
8	SPACE
9	TELESCOPE 1=A 2=B 3=C 4=H
10-11	SPACE
12-18	DATA CHANNEL 1
19	SPACE
*****	THE FOLLOWING REPEATS FOR THE REMAINING CHANNELS *****
20-26	DATA CHANNEL
27	SPACE
*	IN OTHER WORDS 7 CHARACTERS OF DATA FOLLOWED BY A SPACE *
59-60	SPACE

Participant: Fritz

Data Set Mnemonic: A6F

Data Set Name: ATS 6 Low-Energy Protons

Principal Investigator: T. A. Fritz, NOAA-ERL

Data Time Period on Data Base (DDD/HH/MM - DDD/HH/MM): 209/12/01-210/15/01

Data Time Interval: A, B and C telescopes 3s
H telescope 1s

<u>Parameter Description</u>	<u>Mnemonic</u>	<u>Units</u>
Telescope A . Proton Flux 25.5-33.4 keV	A6FTAE1	/cm ² .sec.sr.keV
Telescope A . Proton Flux 33.4-47.8 keV	A6FTAE2	/cm ² .sec.sr.keV
Telescope A . Proton Flux 47.8-70.8 keV	A6FTAE3	/cm ² .sec.sr.keV
Telescope A . Proton Flux 70.8-100.2 keV	A6FTAE4	/cm ² .sec.sr.keV
Telescope A . Proton Flux 100.2-150.5 keV	A6FTAE5	/cm ² .sec.sr.keV
Telescope A . Proton Flux 150.5-234 keV	A6FTAE6	/cm ² .sec.sr.keV
Telescope B . Proton Flux 25.5-33.4 keV	A6FTBE1	/cm ² .sec.sr.keV
Telescope B . Proton Flux 33.4-47.8 keV	A6FTBE2	/cm ² .sec.sr.keV
Telescope B . Proton Flux 47.8-70.8 keV	A6FTBE3	/cm ² .sec.sr.keV
Telescope B . Proton Flux 70.8-100.2 keV	A6FTBE4	/cm ² .sec.sr.keV
Telescope B . Proton Flux 100.2-150.5 keV	A6FTBE5	/cm ² .sec.sr.keV
Telescope B . Proton Flux 150.5-234 keV	A6FTBE6	/cm ² .sec.sr.keV
Telescope C . Proton Flux 25.5-33.4 keV	A6FTCE1	/cm ² .sec.sr.keV
Telescope C . Proton Flux 33.4-47.8 keV	A6FTCE2	/cm ² .sec.sr.keV
Telescope C . Proton Flux 47.8-70.8 keV	A6FTCE3	/cm ² .sec.sr.keV
Telescope C . Proton Flux 70.8-100.2 keV	A6FTCE4	/cm ² .sec.sr.keV
Telescope C . Proton Flux 100.2-150.5 keV	A6FTCE5	/cm ² .sec.sr.keV
Telescope C . Proton Flux 150.5-234 keV	A6FTCE6	/cm ² .sec.sr.keV
Telescope H . Proton Flux 362-389 keV	A6FTHH1	/cm ² .sec.sr.keV
Telescope H . Proton Flux 387-406 keV	A6FTHH2	/cm ² .sec.sr.keV
Telescope H . Proton Flux 406-456 keV	A6FTHH3	/cm ² .sec.sr.keV
Telescope H . Proton Flux 456-530 keV	A6FTHH4	/cm ² .sec.sr.keV
Telescope H . Proton Flux 530-674 keV	A6FTHH5	/cm ² .sec.sr.keV
Telescope H . Proton Flux 674-912 keV	A6FTHH6	/cm ² .sec.sr.keV

5JOB 19:26:22
\$ASS IN MS1
\$EXE LIST BS

PTATS-2

7/28/77-7/29/77
ATS-6

INPUT PARAMETERS ARE: ED FL=1=1 2

TAPE NO.	1	FILE NO.	1
RECORD	1	LENGTH	3600
77	259		
94	46	12	43237 2
	160	298	228
	148	52	18
	43236 1	298	330
	224	43238 3	346
	386	290	140
	42	18	43239 1
	330	410	232
	98	30	
8	43240 2	208	330
	236	114	48
	18	43241 3	314
	474	266	
	120	56	16
	43242 1	346	402
	172	114	32
	8	43243 2	
184	314	298	140
	52	26	43244 3
	338	442	322
	120	52	
22	43245 1	336	418
	244	88	52
	14	43246 2	168
	322	120	52
6	110	66	10
	43247 3	394	394
	274	106	50
	14	43248 1	
	322	298	224
	84	34	20
	43249 2	168	298
	258	106	46
	12	43250 3	37
	458	322	148
	48	32	43251 1
	386	386	
212	78	40	16
	43252 2	184	290
	282	136	64
	14	43253 3	
	322	442	298
	128	66	14
	43254 1	354	362
	248	14	43255 2
	216	266	248
	108	58	16
	43256 3	306	434
28	346	124	72
	16	43257 1	386
	370	224	108
	30	18	43258 2
	232	290	258
	136	74	20
	43259 3	338	402
	274	124	
8 2	76	16	43260 4
	0	0	0
	0	0	43261 4
	0	0	0
	0	0	0
3263 4	0	0	43262 4
	0	0	0
	0	0	43263 4
	0	0	0
	0	0	43264 4
	0	0	0
	0	0	43265 4
	0	0	0
	0	0	43266 4
	0	0	0
	0	0	43267 4
	0	0	0
	0	0	43268 4
	0	0	0
	0	0	43269 4
	0	0	0
	0	0	43270 4
	0	0	0
	0	0	43271 4
	0	0	0
4	43273 2	220	290
	216	110	58
	8	43274 3	378
	426	258	
	136	58	20
	43275 1	330	362
	266	106	56
	14	43276 2	
168	290	232	140
	58	14	43277 3
	402	434	244
	152	82	
20	43278 1	354	386
	252	110	28
	10	43279 2	208
	236	25	
8	136	42	24
	43280 3	330	434
	274	128	66
	32	43281 1	
	37	330	22
	84	50	12
	43282 2	212	306
	220	156	60
	8	43283 3	386
	402	290	144
	62	12	43284 1
	354	38	394
200	88	42	16
	43285 2	176	282
	282	122	38
	18	43286 3	
	370	450	258
	124	48	16
	43287 1	330	370
	228	18	96
32	16	43288 2	180
	346	258	124
	70	8	43289 3
	306	442	
	282	108	6
	12	43290 1	330
	354	258	92
	36	6	43291 1
1 2	152	248	290
	144	46	28
	43292 3	354	378
	258	128	
	62	16	43293 1
	314	386	224
	118	38	18
	43294 2	180	2
74	240	132	70
	12		

TAPE NO.	1	FILE NO.	1
RECORD	657	LENGTH	900
86385 2	118	180	80
	24	14	10
	86386 3	196	378
	228		
160	86	30	86387 1
	282	582	598
	330	204	96
	86388 2	156	
	168	86	26
	14	4	86389 3
	196	362	274
	168	74	
8	86390 1	322	592
	566	410	258
	96	86391 2	160
	164	114	
	28	10	86392 3
	244	338	330
	156	72	24
	86393 1		
282	614	582	378
	208	96	86394 2
	144	116	58
	20	4	
2	86395 3	216	370
	290	140	102
	24	86396 4	0
	0	0	0
	4	2	86397 4
	2	0	0
	0	0	86398 4
	0	0	0
	2	2	4
	6	0	86399 4
	2	0	8
	6	0	

TAPE NO.	1	FILE NO.	2
RECORD	1	LENGTH	3600
77	210		
346	130	90	357 2
	122	200	70
	38	38	356 1
	258	598	550
	338	290	140
	56	24	359 1
	306	614	4
	614	2	358 3
	386	240	216
	7		

112	168	110	32	12	4	364	3	216	394	290	152	78						
16	365	1	282	550	582	354	160	92	366	2	140	184	7					
8	338	566	630	322	180	68	369	2	140	180	82	26	368	1				
2	370	3	220	338	306	152	82	14	371	1	306	550	6					
646	330	208	66	372	2	156	156	104	24	12	2	373	3					
188	354	330	176	66	24	374	1	338	582	582	426	2						
78	76	375	2	156	152	98	34	16	6	376	3	232	362					
282	184	60	18	377	1	306	630	614	378	204	72	37						
8 2	122	208	84	28	8	2	379	3	208	370	258	148						
74	32	380	4	4	4	8	12	2	0	381	4	0						
4	6	2	2	4	4	382	4	6	2	4	0	2						
383	4	0	2	4	4	0	0	384	4	6	10	2	0					
2	2	0	385	4	6	2	12	4	2	0	386	4	0					
388	4	6	4	6	2	387	4	4	6	2	4	2	0					
8	2	2	390	4	0	6	4	0	389	4	2	2	4	0				
2	393	2	180	0	152	0	392	1	4	0	391	4	0					
176	7	32	395	1	94	0	20	392	1	346	0	646	4	646	0	370	192	7
156	168	84	32	32	14	2	518	614	330	394	3	212	354	266				
20	398	1	322	550	582	306	232	102	346	160	66	396	2					
0	22	14	6	400	3	192	394	244	168	58	18	401	1					
290	614	614	370	196	54	402	2	140	152	88	32	401	1	8				
566	418	212	224	362	290	132	60	12	404	1	274	534						
22	362	298	156	72	36	407	1	92	32	6	4	406	3					
32	70	408	2	148	152	92	26	8	6	409	3	204	354					
266	148	74	20	410	1	232	534	598	338	212	78	41						
1 2	148	172	114	26	10	8	412	3	220	354	322	124	1					
68	22	413	1	306	614	630	338	232	88	414	2	160	1					
68	124	20	2	2														

TAPE NO.	1	FILE NO.	2
RECORD	836	LENGTH	1620
54085	4	2	6
2	4	2	10
774	774	490	314
6	54090	3	806
450	258	110	54092
790	1070	902	566
92	54095	2	742
8	614	338	120
774	934	790	518
104	54100	1	694
822	458	322	110
22	662	790	758
694	114	54105	3
8 3	838	886	912
282	114	54110	2
38	918	582	322

***** JOB DONE.

12/01/77 - 12/12/77
ATS - 6

INPUT PARAMETERS ARE: ED FL=1=1 4

TAPE NO. 1 FILE NO. 1
RECORD 1 LENGTH 3600

771 335
0 3 8 54046 2 0 322 176 54045 1 0 630 322
0 678 346 0 34 10 54048 1 0 614 362 0 54047 3 0
0 54049 2 0 338 184 0 4 6 54050 3 0 694 370
0 46 22 54051 1 0 678 346 0 46 8 54052 2 0
0 418 144 0 6 6 54053 3 0 726 338 0 34
2 8 54054 1 0 678 378 0 34 4 54055 2 0 378 19
0 10 2 54056 3 0 726 378 0 38 8 54057 1 0
0 662 290 0 42 10 54058 2 0 378 144 0 18
362 4 54059 3 0 742 354 0 40 16 54060 1 0 678
0 0 44 8 54061 2 0 346 124 0 6 0 54062 3
32 8 662 338 0 42 10 54063 1 0 710 394 0 0
0 54064 2 0 42 144 0 10 2 54065 3 0 710
7 2 330 0 354 196 0 10 2 54068 3 0 742 362 0
32 8 54069 4 0 0 0 0 54070 4 0 0
2 0 0 54071 4 0 0 0 0 0 0 5
4072 4 0 0 2 0 0 54073 4 0 0 0 0
0 0 54074 4 0 0 0 0 0 54075 4 0 0
2 0 0 54076 4 0 0 0 2 0 0 0
54077 4 0 0 2 0 0 54078 4 0 0 2 0
0 0 54079 4 0 0 2 0 0 54080 4 0 0
6 54082 2 0 410 184 0 10 0 742 354 0 46 1
0 44 6 54084 1 0 742 314 0 50 8 694 306
0 370 164 0 2 6 54086 3 0 742 354 0 32
16 54087 1 0 646 410 0 36 14 54088 2 0 346 17
6 0 6 54089 3 0 758 330 0 36 8 54090 1 0
0 710 362 0 58 14 54091 2 0 338 184 0 10
282 2 54092 3 0 758 370 0 38 4 54093 1 0 726
0 742 36 16 54094 2 0 418 176 0 8 8 54095 3
38 12 54097 2 0 336 164 0 4 54096 1 0 694 362 0
0 362 50 6 54099 1 0 646 346 0 48 10 726
0 2 0 354 176 0 2 54101 3 0 646 314 0
40 12 54102 1 0 662 346 0 50 10 54103 2 0 3
70 168 0 8 0

TAPE NO. 1 FILE NO. 1
RECORD 509 LENGTH 2700

86351 3 0 646 338 0 28 2 86352 1 0 854 518
0 86 26 86353 2 0 646 232 0 12 4 86354 3 0
0 546 362 0 32 12 86355 1 0 790 566 0 64 2
2 86356 2 0 630 240 0 4 0 86357 3 0 598 298
0 18 0 86358 1 0 774 450 0 56 22 86359 2 0
0 710 228 0 6 0 86360 3 0 710 330 0 22
6 86365 1 0 838 534 0 94 16 86366 2 0 678 27
4 0 10 2 86367 3 0 662 322 0 30 4 86368 1 0
0 880 550 0 74 24 86369 2 0 726 240 0 6
550 4 86370 3 0 662 290 0 26 6 86371 1 0 902
0 726 354 0 22 6 86374 1 0 854 566 0 86373 3
92 22 86375 2 0 694 282 0 8 2 86376 3 0 646
322 26 10 86377 1 0 950 506 0 76 28 8637
8 2 0 646 240 0 10 2 86379 3 0 726 282 0
20 4 86380 1 0 918 582 0 62 12 86381 2 0 6

8	86385 3	0	646	290	0	00304 2	0	840	236	0
998	534	0	74	10	86387 2	0	694	220	0	86386 1
86388 3	0	582	346	0	28	2	86389 4	0	4	0
0	0	86390 4	0	0	2	0	0	0	86391 4	0
0	4	0	0	0	86392 4	0	2	2	0	2
0	86393 4	0	0	2	0	0	86394 4	0	0	0
0	0	0	86395 4	0	0	0	0	0	86396 4	0
0	2	0	0	0	86397 4	0	0	2	0	0
0	86398 4	0	2	2	0	0	86399 4	0	2	0
0	0	2	0	0	0	0	0	0	0	0

TAPE NO.	1	FILE NO.	2
RECORD	1	LENGTH	3650
77	336		
0	88	10	414 2
0	662	314	0 630 220
8	417 2	0	678 196 0 416 1
0	22	2	419 1 0 806 550
0	646	204	0 421 3 550
2	422 1	0	726 450 0 64 24
0	806	490	0 424 3 646 330
0	427 3	0	614 72 22 426 2
426	0	182	6 429 2 322 0 694 204
68	10	598	314 0 34 10 431 1
5	306	0	432 2 0 662 196 0 6 4
0	34	0	630 208 0 434 1 0 774 482
0	440 4	0	437 4 0 0 439 4 0 0 0
0	4	0	442 4 0 0 444 4 0 0 0
0	445 4	0	447 4 0 0 446 4 0 0 2
4	451 2	2	662 258 0 449 1 0 918 550
0	646	212	452 1 0 806 474 0 451 3
2	4	455 1	0 886 518 0 454 3 88 26
0	838	566	0 457 3 0 598 248 0 456 2
458	0	460 3	0 614 30 28 459 2 0 726 200
80	14	630	338 0 20 6 710 176 0 461 1
8	322	0	465 2 0 646 240 0 4 0 838 534
62	34	6	694 216 0 467 1 0 806 482 0 68 12
0	196	6	471 1 0 790 466 0 72 14 471 2

TAPE NO.	1	FILE NO.	2
RECORD	1316	LENGTH	2520
86354 3	0	2030	1166
0	282	58	86356 2
6	1870	1230	0 148 18 86358 1
0	86359 2	0	1358 854 0 156 24
0	176	32	86365 1 2206 1902
12	1516	934	0 108 18 86367 3
0	86368 1	0	2270 2078 0 274 66
0	136	36	86370 3 0 1870 1134
0	2206	1934	0 258 56 86372 2
30	86373 3	0	1966 1102 0 144 30
1934	0	252	52 86375 2 0 1390 950
0	86355 1	0	2398 1998 0 128 22
0	2334	1934	0 282 4 0 1806 1102
0	86360 3	0	258 68 86366 2
0	1806	1014	0 172 0 1294 87
0	86369 2	0	152 38 86371 1
0	1422	966	0 124 0 2206
0	86374 1	0	132 20 86376 3

1014	0	172	30	86380	1	0	2334	1902	0	86379	3	0	1954
1 2	0	1454	934	0	112	18	86382	3	0	1742	1070	0	8638
164	34	86383	1	0	2398	1966	0	258	62	86384	2	0	13
91	934	1	4	28	86385	3	0	1774	1014	0	124	34	8
6386	1	0	2398	1966	0	240	56	86387	2	0	1326	982	0
	140	24	86388	3	0	1742	1014	0	184	34	86389	4	0
	2				86390	4	0	2	2	0	0	0	0
86391	4		4	0	0	0	0	86392	4	0	0	0	2
0	0	0	86393	4	0	0	0	0	0	0	86394	4	0
0	0	0	0	0	0	86395	4	0	2	2	0	0	0
2	86396	4	0	0	0	0	0	86397	4	0	0	0	0
0	2	0	86398	4	0	2	0	0	0	0	86399	4	0

TAPE NO. 1 FILE NO. 3
RECORD 1 LENGTH 3600

77	345							75612	1	1678	2142	1518		
726	274	50	75613	2	902	694	274	140	40	0	75614	3	1518	
	902	402	132	44	4	75615	1	1678	2078	1422	662	224	5	
8	75616	2	934	646	274	152	38	2	75617	3	1550	950	394	
	114	60	2	75618	1	1678	2206	1550	710	282	38	75619	2	
902	630	274	144	34	6	75620	3	1518	966	354	136	28		
12	75621	1	1678	2206	1550	790	282	70	75622	2	1014	678	33	
8	180	44	0	75623	3	1550	966	402	156	42	12	75624	1	
	1614	2206	1486	694	240	60	75625	2	886	726	330	160	38	
	2	75626	3	1550	870	354	172	50	12	75627	1	1582	2142	
1454	710	258	52	75628	2	854	710	338	152	40	4	75629	3	
	1550	950	394	152	42	6	75630	1	1614	2078	1422	646	2	
66	60	75631	2	870	678	362	152	40	6	75632	3	1582	934	
	418	132	34	4	75633	1	1614	2142	1454	646	298	46	7563	
4 2	854	630	306	184	46	2	75635	3	1582	1038	378	128		
	4	4	75636	4	0	2	0	0	0	75637	4	0	0	
	0	0	0	0	75638	4	0	2	0	0	2	0	7	
5639	4	2	2	4	2	0	0	75640	4	4	0	8	0	
	0	0	75641	4	0	2	0	0	4	0	75642	4	0	
	2	0	0	0	75643	4	2	0	0	2	0	0	0	
75644	4	2	4	2	4	0	0	75645	4	2	0	8	4	
0	0	0	75646	4	0	6	4	0	0	0	75647	4	0	
	0	2	0	0	75648	1	1710	2030	1422	662	248	5		
0	75649	2	918	726	314	192	28	4	75650	3	1550	966	394	
	140	46	0	75651	1	1582	2206	1518	758	232	48	75652	2	
934	774	322	172	24	0	75653	3	1646	950	418	144	34		
8	75654	1	1486	2142	1518	726	298	48	75655	2	918	630	32	
2	160	32	6	75656	3	1518	1014	378	172	36	8	75657	1	
	1646	1966	1518	678	252	72	75658	2	950	646	354	180	42	
	4	75659	3	1518	950	370	144	42	2	75660	1	1550	2078	
1486	678	216	48	75661	2	902	710	306	192	36	2	75662	3	
	1550	886	442	152	42	2	75663	1	1646	2142	1358	662	3	
66	64	75664	2	854	694	338	168	28	8	75665	3	1518	902	
	450	144	38	8	75666	1	1550	2030	1454	694	274	86	7566	
7 2	982	694	314	236	36	16	75668	3	1614	838	474	144		
	44	8	75669	1	1550	2142	1454	790	252	40	75670	2	982	7
42	338	196	52	8										

TAPE NO. 1 FILE NO. 3
RECORD 169 LENGTH 2220

86359	3	1486	1134	362	136	58	2	86364	1	1678	1838	886		
274	84	16	86365	2	1014	918	362	90	20	0	86366	3	1518	
	1166	442	110	38	2	86367	1	1614	1806	886	274	86		
8	86368	2	1070	870	306	76	6	4	86369	3	1614	1166	378	
	132	42	8	86370	1	1710	1710	902	282	90	14	86371	2	1
070	918	322	66	28	2	86372	3	1582	1262	442	96	32		
	5	86373	1	1582	1870	854	338	90	18	86374	2	1070	854	29
8	5	22	0	86375	3	1550	1134	418	128	56	10	86376	1	

REQ. AGENT
VJP

RAND NO.
RD2554

ACQ. AGENT
MJT

ATS-6

X+Z COMP OF MAG FIELD $\frac{1}{2}$ SEC INTERVAL

74-039A-02E

This data set catalog consists of 1 data tape. The tape is 9 track, 1600 BPI, EBCDIC with 3 files of data. The tape was created on an IBM 360^A computer.

Time span is as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-34025	C-20637	07/29/77

*This data set has been restored.
See 74-039A-01A.*

28 CDOC THIS DATA SET RESIDES ON THREE FILES OF TAPE, EACH FILE
 29 CC CONTAINING THE FIRST TWO ITEMS IN COMMON COVERING THE SAME
 30 CC TIME SPAN AT VARYING POINT SEPARATION TIMES.
 31 CC THE TAPE IS IN EBCDIC, IBM 360/91 FLOATING POINT AND INTEGER
 32 CC REPRESENTATION.

33 CC THE FIRST FILE IS FORMATTED AS FOLLOWS:

CHARACTER	FMT	DESCRIPTION
1		BLANK
2-3	I*2	LAST TWO DIGITS OF YEAR
4-6	I*3	DAY OF YEAR
7		BLANK
8-9	I*2	HOUR OF DAY
10-11	I*2	MINUTE OF DAY
12-15	F4.1	SECONDS OF HOUR
16-24	F9.3	LOCAL BODY X GAMMAS
25-33	F9.3	LOCAL BODY Z GAMMAS

***** DELTA TIME FOR THIS FILE = .5 SECONDS *****

74-039A-02E
 CONQZ

46 CC THE SECOND FILE IS FORMATTED AS FOLLOWS:

CHARACTER	FMT	DESCRIPTION
1		SAME AS FILE #1
2-3		SAME AS FILE #1
4-6		SAME AS FILE #1
7		SAME AS FILE #1
8-9		SAME AS FILE #1
10-11		SAME AS FILE #1
12-15		SAME AS FILE #1
16-24		SAME AS FILE #1
25-33		SAME AS FILE #1
34-42	F9.3	RADIAL DISTANCE KMS
43-51	F9.3	LATITUDE DEGREES

59 CC 52-60 F9.3 LONGITUDE DEGREES
 60 CC 61-69 F9.3 HIGH FREQUENCY POWER GAMMA**2 (X COMP.)
 61 CC 70-78 F9.3 HIGH FREQUENCY POWER GAMMA**2 (Z COMP.)
 62 CC ***** DELTA TIME FOR THIS FILE IS 64 SECONDS *****
 63 CC

64 CC THE THIRD FILE IS FORMATTED AS FOLLOWS:

CHARACTER	FMT	DESCRIPTION
1		SAME AS FILE #1
2-3		SAME AS FILE #1
4-6		SAME AS FILE #1
7		SAME AS FILE #1
8-9		SAME AS FILE #1
10-11		SAME AS FILE #1
12-15		SAME AS FILE #1
16-24		SAME AS FILE #1
25-33		SAME AS FILE #1

***** DELTA TIME FOR THIS FILE IS 5 SECONDS *****

DUMP OF TAPE X404

INPUT TAPE X404 ON MS2
DATA INPUT H9 NF 3 FL 1 1 1 SR 3 1 1 SR 3 LAST 1

ATS-6
D-34025
74-039A-02E
7/29/77

FILE	1	RECORD	1	LENGTH	2400BYTES						
(0)	40F7F7F2	F1F04040	F040F5F1	F34BF040	4040F1F4	4BF9F8F4	404040F3	F64BF8F2	F8404040	40404040	
(4)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(8)	40F7F7F2	F1F04040	F040F5F1	F34BF540	4040F1F4	4BF9F6F9	404040F3	F64BF8F7	F5404040	40404040	
(12)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(16)	40F7F7F2	F1F04040	F040F5F1	F44BF040	4040F1F4	4BF9F0F6	404040F3	F64BF8F7	F5404040	40404040	
(20)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(24)	40F7F7F2	F1F04040	F040F5F1	F44BF540	4040F1F5	4BF0F0F0	404040F3	F64BF8F9	F1404040	40404040	
(28)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(32)	40F7F7F2	F1F04040	F040F5F1	F54BF040	4040F1F5	4BF0F1F6	404040F3	F64BF9F5	F3404040	40404040	
(36)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(40)	40F7F7F2	F1F04040	F040F5F1	F54BF540	4040F1F5	4BF0F1F6	404040F3	F64BF9F6	F9404040	40404040	
(44)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(48)	40F7F7F2	F1F04040	F040F5F1	F64BF040	4040F1F5	4BF0F1F6	404040F3	F64BF9F3	F8404040	40404040	
(52)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(56)	40F7F7F2	F1F04040	F040F5F1	F64BF540	4040F1F5	4BF1F0F9	404040F3	F64BF9F8	F4404040	40404040	
(60)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(64)	40F7F7F2	F1F04040	F040F5F1	F74BF040	4040F1F5	4BF1F2F5	404040F3	F74BF0F1	F6404040	40404040	
(68)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(72)	40F7F7F2	F1F04040	F040F5F1	F74BF540	4040F1F5	4BF1F2F5	404040F3	F64BF9F8	F4404040	40404040	
(76)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(80)	40F7F7F2	F1F04040	F040F5F1	F84BF040	4040F1F5	4BF1F2F5	404040F3	F64BF9F5	F3404040	40404040	
(84)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(88)	40F7F7F2	F1F04040	F040F5F1	F84BF540	4040F1F5	4BF0F7F8	404040F3	F74BF0F1	F6404040	40404040	
(92)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(96)	40F7F7F2	F1F04040	F040F5F1	F94BF040	4040F1F5	4BF1F5F6	404040F3	F74BF0F0	F0404040	40404040	
(100)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(104)	40F7F7F2	F1F04040	F040F5F1	F94BF540	4040F1F5	4BF2F1F9	404040F3	F64BF9F6	F9404040	40404040	
(108)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(112)	40F7F7F2	F1F04040	F040F5F2	F04BF040	4040F1F5	4BF2F6F6	404040F3	F74BF0F1	F6404040	40404040	
(116)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(120)	40F7F7F2	F1F04040	F040F5F2	F04BF540	4040F1F5	4BF2F8F1	404040F3	F74BF0F3	F1404040	40404040	
(124)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(128)	40F7F7F2	F1F04040	F040F5F2	F14BF040	4040F1F5	4BF2F8F1	404040F3	F74BF0F3	F1404040	40404040	
(132)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(136)	40F7F7F2	F1F04040	F040F5F2	F14BF540	4040F1F5	4BF2F1F9	404040F3	F74BF0F3	F1404040	40404040	
(140)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(144)	40F7F7F2	F1F04040	F040F5F2	F24BF040	4040F1F5	4BF2F1F9	404040F3	F74BF0F6	F3404040	40404040	
(148)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(152)	40F7F7F2	F1F04040	F040F5F2	F24BF540	4040F1F5	4BF2F5F0	404040F3	F74BF0F6	F3404040	40404040	
(156)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(160)	40F7F7F2	F1F04040	F040F5F2	F34BF040	4040F1F5	4BF2F5F0	404040F3	F74BF0F4	F7404040	40404040	
(164)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(168)	40F7F7F2	F1F04040	F040F5F2	F34BF540	4040F1F5	4BF1F8F8	404040F3	F74BF0F3	F1404040	40404040	
(172)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(176)	40F7F7F2	F1F04040	F040F5F2	F44BF040	4040F1F5	4BF2F3F4	404040F3	F74BF0F3	F1404040	40404040	
(180)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(184)	40F7F7F2	F1F04040	F040F5F2	F44BF540	4040F1F5	4BF2F8F1	404040F3	F74BF0F6	F3404040	40404040	
(188)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(192)	40F7F7F2	F1F04040	F040F5F2	F54BF040	4040F1F5	4BF2F1F9	404040F3	F74BF0F7	F8404040	40404040	
(196)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(200)	40F7F7F2	F1F04040	F040F5F2	F54BF540	4040F1F5	4BF3F1F3	404040F3	F74BF0F9	F4404040	40404040	
(204)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(208)	40F7F7F2	F1F04040	F040F5F2	F64BF040	4040F1F5	4BF2F9F7	404040F3	F74BF0F7	F8404040	40404040	
(212)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(216)	40F7F7F2	F1F04040	F040F5F2	F64BF540	4040F1F5	4BF2F3F4	404040F3	F74BF0F7	F8404040	40404040	
(220)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	
(224)	40F7F7F2	F1F04040	F040F5F2	F74BF040	4040F1F5	4BF2F9F7	404040F3	F74BF0F9	F4404040	40404040	

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FILE 1 RECORD 5670 LENGTH 1440BYTES

(2360)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(0)	40F7F7F2	F1F040F2	F3F5F9F5	F14BF040	4040F1F0	4BF2F6F6	404040F6	F74BF6F0	F9404040	40404040	40404040
(40)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(80)	40F7F7F2	F1F040F2	F3F5F9F5	F14BF540	4040F1F0	4BF2F0F3	404040F6	F74BF6F8	F8404040	40404040	40404040
(120)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(160)	40F7F7F2	F1F040F2	F3F5F9F5	F24BF040	4040F1F0	4BF2F1F9	404040F6	F74BF7F0	F3404040	40404040	40404040
(200)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(240)	40F7F7F2	F1F040F2	F3F5F9F5	F24BF540	4040F1F0	4BF1F2F5	404040F6	F74BF7F9	F7404040	40404040	40404040
(280)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(320)	40F7F7F2	F1F040F2	F3F5F9F5	F34BF040	4040F1F0	4BF1F4F1	404040F6	F74BF8F4	F4404040	40404040	40404040
(360)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(400)	40F7F7F2	F1F040F2	F3F5F9F5	F34BF540	4040F1F0	4BF0F7F8	404040F6	F74BF8F5	F9404040	40404040	40404040
(440)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(480)	40F7F7F2	F1F040F2	F3F5F9F5	F44BF040	4040F1F0	4BF0F1F6	404040F6	F74BF8F9	F1404040	40404040	40404040
(520)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(560)	40F7F7F2	F1F040F2	F3F5F9F5	F44BF540	4040F1F0	4BF0F0F0	404040F6	F74BF9F2	F2404040	40404040	40404040
(600)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(640)	40F7F7F2	F1F040F2	F3F5F9F5	F54BF040	404040F9	4BF9F6F9	404040F6	F74BF9F8	F4404040	40404040	40404040
(680)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(720)	40F7F7F2	F1F040F2	F3F5F9F5	F54BF540	404040F9	4BF8F9F1	404040F6	F84BF0F3	F1404040	40404040	40404040
(760)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(800)	40F7F7F2	F1F040F2	F3F5F9F5	F64BF040	404040F9	4BF8F9F1	404040F6	F84BF1F0	F9404040	40404040	40404040
(840)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(880)	40F7F7F2	F1F040F2	F3F5F9F5	F64BF540	404040F9	4BF8F2F8	404040F6	F84BF2F0	F3404040	40404040	40404040
(920)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(960)	40F7F7F2	F1F040F2	F3F5F9F5	F74BF040	404040F9	4BF7F8F1	404040F6	F84BF2F1	F9404040	40404040	40404040
(1000)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(1040)	40F7F7F2	F1F040F2	F3F5F9F5	F74BF540	404040F9	4BF6F5F6	404040F6	F84BF2F1	F9404040	40404040	40404040
(1080)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(1120)	40F7F7F2	F1F040F2	F3F5F9F5	F84BF040	404040F9	4BF6F0F9	404040F6	F84BF2F3	F4404040	40404040	40404040
(1160)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(1200)	40F7F7F2	F1F040F2	F3F5F9F5	F84BF540	404040F9	4BF5F6F3	404040F6	F84BF2F8	F1404040	40404040	40404040
(1240)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(1280)	40F7F7F2	F1F040F2	F3F5F9F5	F94BF040	404040F9	4BF5F1F6	404040F6	F84BF3F4	F4404040	40404040	40404040
(1320)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(1360)	40F7F7F2	F1F040F2	F3F5F9F5	F94BF540	404040F9	4BF5F1F6	404040F6	F84BF3F9	F1404040	40404040	40404040
(1400)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040

FILE	INPUT RECS.	DATA INPUT	RECORDS	MAX. SIZE	READ ERROR	SUMMARY	INPUT RETRIES
1	5670	5671		2400	0	14 0 0	#RECS. 16 TOTAL# 19

FILE 3 RECORD 1 LENGTH 2400BYTES
(0) 40F7F7F2 F1F04040 F040F5F1 F54BF740 4040F1F5 4BF0F1F6 404040F3 F64BF9F2 F5404040 40404040
(40) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(80) 40F7F7F2 F1F04040 F040F5F2 F04BF040 4040F1F5 4BF1F9F7 404040F3 F74BF0F0 F9404040 40404040 40404040
(120) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(160) 40F7F7F2 F1F04040 F040F5F2 F54BF040 4040F1F5 4BF2F5F6 404040F3 F74BF0F6 F6404040 40404040 40404040
(200) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(240) 40F7F7F2 F1F04040 F040F5F3 F04BF040 4040F1F5 4BF2F9F1 404040F3 F74BF1F0 F2404040 40404040 40404040
(280) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(320) 40F7F7F2 F1F04040 F040F5F3 F54BF040 4040F1F5 4BF3F4F8 404040F3 F74BF2F2 F2404040 40404040 40404040
(360) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(400) 40F7F7F2 F1F04040 F040F5F4 F04BF040 4040F1F5 4BF3F8F6 404040F3 F74BF4F3 F1404040 40404040 40404040
(440) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(480) 40F7F7F2 F1F04040 F040F5F4 F54BF740 4040F1F5 4BF3F1F7 404040F3 F74BF4F3 F6404040 40404040 40404040
(520) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(560) 40F7F7F2 F1F04040 F040F5F5 F04BF040 4040F1F5 4BF2F6F2 404040F3 F74BF3F6 F7404040 40404040 40404040
(600) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(640) 40F7F7F2 F1F04040 F040F5F5 F54BF040 4040F1F5 4BF3F8F0 404040F3 F74BF4F0 F2404040 40404040 40404040
(680) 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
(720) 40F7F7F2 F1F04040 F040F640 F04BF740 4040F1F5 4BF3F5F2 404040F3 F74BF4F6 F7404040 40404040 40404040

(840)	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040	40404040
(880)	40F7F7F2	F1F04040	F040F6F1	F04BF040	4040F1F5	4BF1F9F7	404040F3	F74BF5F3	F6404040	40404040	40404040
(920)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(960)	40F7F7F2	F1F04040	F040F6F1	F54BF040	4040F1F5	4BF1F3F6	404040F3	F74BF4F5	F8404040	40404040	40404040
(1000)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1040)	40F7F7F2	F1F04040	F040F6F2	F04BF040	4040F1F5	4BF0F7F3	404040F3	F74BF2F9	F7404040	40404040	40404040
(1080)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1120)	40F7F7F2	F1F04040	F040F6F2	F54BF040	4040F1F5	4BF2F0F6	404040F3	F74BF2F9	F5404040	40404040	40404040
(1160)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1200)	40F7F7F2	F1F04040	F040F6F3	F04BF040	4040F1F5	4BF3F4F7	404040F3	F74BF3F7	F5404040	40404040	40404040
(1240)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1280)	40F7F7F2	F1F04040	F040F6F3	F54BF040	4040F1F5	4BF3F4F4	404040F3	F74BF4F0	F0404040	40404040	40404040
(1320)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1360)	40F7F7F2	F1F04040	F040F6F4	F04BF040	4040F1F5	4BF2F2F7	404040F3	F74BF2F4	F8404040	40404040	40404040
(1400)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1440)	40F7F7F2	F1F04040	F040F6F4	F54BF040	4040F1F5	4EF1F1F2	404040F3	F74BF1F5	F5404040	40404040	40404040
(1480)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1520)	40F7F7F2	F1F04040	F040F6F5	F04BF040	4040F1F5	4BF0F1F2	404040F3	F74BF1F4	F5404040	40404040	40404040
(1560)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1600)	40F7F7F2	F1F04040	F040F6F5	F54BF040	4040F1F4	4BF8F7F8	404040F3	F74BF1F0	F6404040	40404040	40404040
(1640)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1680)	40F7F7F2	F1F04040	F040F740	F04BF040	4040F1F4	4BF7F8F9	404040F3	F74BF0F6	F1404040	40404040	40404040
(1720)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1760)	40F7F7F2	F1F04040	F040F740	F54BF040	4040F1F4	4BF7F0F9	404040F3	F64BF9F8	F3404040	40404040	40404040
(1800)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1840)	40F7F7F2	F1F04040	F040F7F1	F04BF040	4040F1F4	4BF7F8F0	404040F3	F64BF9F7	F2404040	40404040	40404040
(1880)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(1920)	40F7F7F2	F1F04040	F040F7F1	F54BF040	4040F1F4	4BF8F8F1	404040F3	F74BF0F9	F8404040	40404040	40404040
(1960)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(2000)	40F7F7F2	F1F04040	F040F7F2	F04BF040	4040F1F4	4BF9F2F3	404040F3	F74BF1F1	F7404040	40404040	40404040
(2040)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(2080)	40F7F7F2	F1F04040	F040F7F2	F54BF040	4040F1F4	4BF7F1F2	404040F3	F64BF9F9	F1404040	40404040	40404040
(2120)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(2160)	40F7F7F2	F1F04040	F040F7F3	F04BF040	4040F1F4	4BF7F1F4	404040F3	F64BF9F0	F3404040	40404040	40404040
(2200)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(2240)	40F7F7F2	F1F04040	F040F7F3	F54BF040	4040F1F4	4BF7F2F4	404040F3	F64BF8F8	F0404040	40404040	40404040
(2280)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040
(2320)	40F7F7F2	F1F04040	F040F7F4	F54BF040	4040F1F4	4BF9F9F6	404040F3	F64BF9F3	F8404040	40404040	40404040
(2360)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040

FILE	3	RECORD	572	LENGTH	640	BYTES						
()	40F7F7F2	F1F040F2	F3F5F9F2	F04BF040	404040F8	4BF9F4F7	404040F6	F84BF9F6	F2404040	40404040	40404040	
(40)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(80)	40F7F7F2	F1F040F2	F3F5F9F2	F54BF040	404040F8	4BF7F8F7	404040F6	F84BF7F1	F2404040	40404040	40404040	
(120)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(160)	40F7F7F2	F1F040F2	F3F5F9F3	F04BF040	404040F9	4BF1F2F3	404040F6	F84BF1F5	F8404040	40404040	40404040	
(200)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(240)	40F7F7F2	F1F040F2	F3F5F9F3	F54BF040	404040F9	4BF8F4F5	404040F6	F74BF5F8	F0404040	40404040	40404040	
(280)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(320)	40F7F7F2	F1F040F2	F3F5F9F4	F04BF040	4040F1F0	4BF3F0F0	404040F6	F74BF2F5	F9404040	40404040	40404040	
(360)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(400)	40F7F7F2	F1F040F2	F3F5F9F4	F54BF040	4040F1F0	4BF3F7F5	404040F6	F74BF2F8	F4404040	40404040	40404040	
(440)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(480)	40F7F7F2	F1F040F2	F3F5F9F5	F04BF040	4040F1F0	4BF3F0F0	404040F6	F74BF5F4	F5404040	40404040	40404040	
(520)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
(560)	40F7F7F2	F1F040F2	F3F5F9F5	F54BF040	404040F9	4BF9F7F2	404040F6	F74BF9F8	F6404040	40404040	40404040	
(600)	40404040	40404040	40404040	40404040	40404040	4C4C4040	40404040	40404040	40404040	40404040	40404040	
FILE	INPUT	DATA	RECORDS	MAX.	READ ERROR SUMMARY				INPUT RETRIES			
	RECS.	INPUT	SIZE	PERM	ZERO	B	SHORT	UNDEF.	#RECS.	TOTAL#		
3	572	573	2400	0	4	0	0	0	4	4		

ATS 6

LO-E ELECTRON + ION PLASMA SPECTRA

74-039A-03A **SPMS-00269**

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE TWO 9-TRACK, 1600 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE TAPES WERE CREATED ON A DEC SYSTEM 1099 COMPUTER. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR03617	DS03617	D33559	1 - 2	07/28/77 - 07/29/77
		D32275	3 - 6	12/01/77 - 12/12/77

REQ. AGENT

VJP

RAND NO.

RD0932

ACQ. AGENT

KWC

ATS-6

PLASMA DATA

74-039A-03A

This data set catalog consists of 2 data tapes. The tapes are 9 track, 1600 BPI, Binary and are multifiled. The tapes were created on a DEC SYSTEM 1099 computer; however DEC 36-bit words were not used.

The time span is as follows:

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-32275	C-20182	4	12/01/77 - 12/12/77
D-33559	C-20539	2	07/28/77 - 07/29/77

UNIVERSITY OF NEW HAMPSHIRE
DURHAM, NEW HAMPSHIRE 03824

SPACE SCIENCE CENTER
DeMerit Hall

20 September 1978

Dr. James I. Vette
Code 601
NASA/Goddard Space Flight Center
Greenbelt, Maryland 20771

Re: CDAW ATS-6 Tape Documentation

The tape from ATS-6 (Dr. Roger Arnoldy) contains electron and proton data from 20 keV to 0.5 keV for the period 1 December 1500 to 2 December 2400 and 11 December 2100 to 12 December 0730.


This data tape is 9-track, written at 1600 BPI in the industry standard mode, 32-bit unsigned integer words, four 8-bit bytes. It was written on a DEC SYSTEM 1099; however, DEC 36-bit words were not used.

The total time period of interest is sectioned into four days. Consequently, there are four files; i.e. file #1 covers 1500 to 2400 of 1 December, etc. There is one end-of-tape at the end of file #4. The record gaps are 0.6". The recording parity is 1. There is one logical record per physical record.

At the beginning of each file is one record 16 words long containing the eight ion energy steps (19.2 keV - 0.06 keV) and the eight electron energy steps (22.9 keV - 0.07 keV) expressed in eV. Each successive record is 260 words long and contains:

- a) four words of DAY, HOUR, MINUTES, SECONDS;
- b) four sets of the 8-step energy sweep data, or four spectra--
 - 1) ions 45°; 2) electrons 45°; 3) ions 165°; 4) electrons 165°.All spectra are high to low energy. The four spectra are repeated eight times, time ordered, to amount to 256 words.

If there are any questions, please refer them to Mike Glazer, 603-862-1311.


Roger L. Arnoldy
Project Scientist for ATS-6
University of New Hampshire

DUMP OF TAPE X-404

ATS-6
0-32275
12/10/77-12/12/77

INPUT TAPE X-404 ON MS1
DATA INPUT H9 NF 4 FL 1 1 1 SR 4 1 1 SR 4 LAST 1
DATA INPUT 34

FILE	1 RECORD	1 LENGTH	64BYTES
(0)	00004B00	000037DC	000026AC 00001838 00000E10 0CCC0640 0000018D 00000038 00005974 00004268
(4)	00002E18	00001CE8	000010CC 0000076C 000001DA 0CCC0043

FILE	1 RECORD	498 LENGTH	1040BYTES
(0)	0000014F	00000017	00000031 00000038 000393EE 0CC37E24 0001F08E 00000000 0000767D 00002CB1
(4)	0001664E	00318266	000167B2 00028E5F 000391F3 0CC35CA9 00052B25 001095EC 0010CBAB 006304CC
(8)	00017BFD	0001C977	0000EDB1 00000000 0000344A 0CCC3AD4 000250BC 0020D427 0001411B 0001AF23
(12)	0001CD1F	0002487E	0002A7CD 0009FF10 00120F57 0C4EC9F7 0003A2C4 0003BA15 0002554E 00005054
(16)	000062BE	00005963	0002CC9C 00279B85 0001AA72 0CC2487D 0002BA0F 00023DC6 00042A6B 001148B3
(20)	0017CB32	00542A7A	00017222 000173E5 00012B7E 0CC00F2E 00001A25 00003AD4 000163A4 001A4352
(24)	00011ECA	000173E5	00026EC1 00021AF3 0002DC18 0CCA74B8 000A300A 0037CF0F 0003676F 00034232
(28)	00023885	00002DE6	00004EFE 0000B2C6 0002CC9C 0C2C8EF5 0001D6F1 00023E72 00031ECF 000345B5
(32)	000416AB	000F305F	000EB236 0080B97D 00017222 0CC194CF 000113B9 000025F4 0000344A 0000583E
(36)	0001DA30	0016FAE8	000154B7 0001AF23 000235B5 0CC1CF0A 0002DC18 00098968 0010ABB3 0065C4DF
(40)	000349C4	00032E37	00022A21 00003960 00003B3E 00005963 0004E612 003B6947 0001CF87 00023E72
(44)	00030206	0002E9E7	000402EB 000DCAD2 0014FE96 0C6CEBAD 0001B6C4 000166BB 00010EF8 00003CBA
(48)	00002738	00003AD4	0000ED18 0013B27D 00011015 0CC18110 00025BBD 0001ED67 00030350 000A39E4
(52)	000DE46A	005F340A	00035899 00037E24 0001E22A 000044DA 0000277F 00005963 0002CC9C 00318266
(56)	00019B9D	00022A77	0002F3A1 000345B5 0003A02D 0000716E 00139848 007BC5FF 0001A328 0001A1F9
(60)	0000EDB1	000016C5	00002738 00001D6A 0002C748 0C2CD427 000154B7 00019B64 0002192F 00022A21
(64)	0002666F	000A74B8	000A300A 0041A84E 0003CF43 0CC3562E 0001FEF3 00005BCD 00004EFE 00005963
(68)	0000B327	0022A814	00016048 00027A64 00033B98 0CC300DB 000402EB 000ED6FC 0015B1BD 006CEBAD
(72)	00016853	0001BC4D	0000EDB1 00000F2E 00004E70 00000000 000163A4 0020D427 00012898 00C166BB
(76)	00025BBD	00021AF3	0002F63D 0009FF10 0009B97D 0C3E5FE3 000393EE 00041DFC 0002C873 00005054
(80)	00004EFE	00008614	00037FC3 0009E6E1 0001A307 0002526D 00030206 0003739C 00042A6B 000F305F
(84)	0010CBAB	006304CC	00017BFD 000187A5 0000D12B 000016C5 00002738 00000000 000163A4 00241C91
(88)	0000FC79	000173E5	000222B1 000257AD 0003379B 000913BF 0009B97D 0058A336 0002FF9A 0003A61A
(92)	00028EE1	0000226D	000062BE 00002CB1 00021975 0C1DB4A3 0001B947 0001F884 0002F3A1 0002E9E7
(96)	00048D29	00006544	00004BE7 009E6E14 0001A328 00016026 00010A37 000025F4 00002738 00000000
(100)	000163A4	002DF5D0	00010647 00017A7B 0001D6A1 0CC28538 0002E92B 000BD5B2 000CF752 00483922

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
				PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
1	498	499	1040	0	0	0	0	0	0

FILE	4 RECORD	1 LENGTH	64BYTES
(0)	00004B00	000037DC	000026AC 00001838 00000E10 0CCC0640 0000018D 00000038 00005974 00004268
(4)	00002E18	00001CE8	000010CC 0000076C 000001DA 0CCC0043

FILE	4 RECORD	414 LENGTH	1040BYTES
(0)	0000015A	00000007	0000001D 00000027 0008CAE5 0CC77929 00062807 00042B37 0003EF2C 0003247D
(4)	00037FC3	0009E6E1	00017688 0000F4C3 000BE41C 01300E1D 01BC4383 022E7FE6 067876EF 0CAADD2E
(8)	0003AADD	0003963A	0002F3DD 00020BC4 00023224 0CC1F40C 0001DA30 00000000 00018F8C 0000FD6A
(12)	0006388B	00C18975	01261821 01B1BFDC 0535317F 0C17BF92 0007A23C 00077929 0006D4BE 0004591E
(16)	0003C7AC	0004B6BC	0009CC24 0009E6E1 00019B9D 0CC12188 000AFDD2 0135CAF9 01BC4383 0239AC50
(20)	07B1FB7D	0C0C6F1A	0003BE6C 0003963A 000319E5 0CC22A21 0001D6A1 00021176 0001DA30 0003486A
(24)	000154B7	0000D5EC	0005EC7B 00B9F234 01190569 01B1BFDC 062249AE 001E60CA 0007DD91 0007293D
(28)	000644D0	00049DF9	000364EE 0002CB1A 0002CC9C 0CCEDA51 0001429D 000130B5 0009313F 01135DD0
(32)	01D00320	022E7FE6	075867DD 0C0C6F1A 00036FFC 0CC37BE5 00038BFC 000266DB 00022512 00C19BCD
(36)	0001DA30	000D21A9	0001411B 0000CF57 00048C3C 0CB62693 01261821 019455BE 05ABBD97 0C80CCDC
(40)	0007493D	00077929	0005D1AB 0004E2D3 000402EB 0CC3512F 00037FC3 0004F370 00015172 00C13AB2
(44)	000A1789	0102273B	01C62352 02182713 075867DD 0BBD381D 00038398 00037BE5 00033FED 0001DE39
(48)	0002A7CD	000269B4	000250BC 0009D93E 00014AE9 0CC124E9 00045D28 00AE8F51 011F8EC5 019BB045
(52)	05E703A3	0C4C4638	0007A23C 0007A120 00057B50 0CC48705 0003512F 00029E68 00059939 00000000
(56)	000133C8	000135B3	0008BE1B 0107E417 01C62352 02C1CE40 078531A6 0B6E0106 0003F940 0003808E

(680)	0004E612	000EDA51	00012C5D	000121B8	000AC440	011ED788	01BC4383	020CFAAA	06FED44B	0BRD3810
(720)	0003E5A4	00032CE9	000378F8	0002760A	00023224	0CC24C4A	0001DA30	0003486A	00016853	0000E9AB
(760)	0003C508	00B25AF2	011F8EC5	01A30ACD	05E703A3	0CB55380	0008CAE5	0007293D	0004EB62	00047012
(800)	0004C867	0001658D	00064C60	0009E6E1	00014A08	0CC16CA6	000B3765	0135CAF9	01BC4383	02182713
(840)	072B9E14	0BRD3810	0003D208	0003E536	000306E1	0CC266DB	0001FDC7	00035505	0004A178	00000000
(880)	0001374D	0000CF57	0005A06B	00BDBDD5	01190569	01E1BFDC	05ABBD97	0CE9DA26	00088F90	0007F10C
(920)	00055E87	0003CF6A	000416AB	0003512F	00037FC3	0CC09E6E1	00012C5D	00016CA6	000A511B	013B87D5
(960)	01C62352	0239AC50	072B9E14	0D494B42	000348C3	0CC37BE5	0002BAD1	00021AF3	0002595D	00012625
(1000)	0001DA30	0009D93E	0001411B	0000DC81	0004A938	0CB62693	011F8EC5	019BB045	058E1A91	0EC295F0

FILE	INPUT RECS.	DATA INPUT	RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
					PERM	ZERO	B SHORT	UNDEF.	#RECS.	TOTAL#
4	414	415	1040		0	0	0	0	1	1

EOJ DUMP STOPPED AFTER FILE 4 # OF PERMANENT READ ERRORS 0

START TIME 10/04/78 16:18:45 STOP TIME 10/04/78 16:19:57

