#490

ATS-5 & 6

GEOSYN PLASMA ENVIRON. PICT ATLAS

69-069A-11C

74-039A-05B

ATS 5

GEOSYN PLASMA ENVIRON. PICT ATLAS

69-069A-11C

This data set has been restored. There was originally one 7-track, 800 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 6600 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
DR004607	DS004607	D042429	1 - 50	11/08/69 - 11/24/70

o Read error occurred in record 14 of file 3.

ATS 6

GEOSYN PLASMA ENVIRON. PICT ATLAS

74-039A-05B

This data set has been restored. There was originally one 7-track, 800 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 6600 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
DR005293	DS005293	D042430	1 - 46	07/05/74 - 02/17/76

REQ. AGENT	RD. NO.	ACQ. AGENT
DEW	V0079	HKH

ATS-5 & 6

GEOSYN PLASMA ENVIRON. PICT. ATLAS

69-069A-11C

74-039A-05B

These data sets consists of 1 tape each. The tapes are 800 BPI, 7 track, Bin and are multifiled. The tapes were created on a CDC 6600 computer.

ATS-5

D#	C#	FILES	TIME SPAN
D-42429	C-21450	50	11/8/69-11/24/70

ATS-6

D-42430	C-21451	46	7/5/74-2/17/76

Appendix D

ATS Data Tape Formats

Two tapes containing 10-min averages of the four moments of the distribution function for ATS-5 and ATS-6 are available in the format described in Table D1. For ATS-5, the detector numbers correspond to

Detector 1 = perpendicular electrons,
Detector 2 = perpendicular ions,
Detector 3 = parallel electrons,
Detector 4 = parallel ions.

For ATS-6, the detector numbers are

Detector 1 = North-South electrons,
Detector 2 = North-South ions.

The tapes are available from AFGL/SUA (R. McInerney) or (preferably) the National Space Science Data Center, NASA Goddard, Greenbelt, MD 20771 (Attn: J. Vette).

Table D1. ATS Data Tape Formats

Data is stored in CDC 60-bit format.
Standard data set contains data collected during a 10-min interval.
Standard records contain 1 hr of data, that is, six sets.
Total record size is 512 words.
Standard file contains data for one day.
These are labeled, 800 B.P.I., NOS/BE standard, 7-track tapes
Record structure, based on CDC words contains two identification words before the data sets.
Type of word: C, coded; F, floating; I, integer.

WORD	TYPE	DESCRIPTION
1	I	number of words in data set (usually 85)
2	I	presently unused, set to 0

There are six data sets for 1 hr of data or 510 words, based on CDC words.

WORD	TYPE	DESCRIPTION	DETECTOR	ORIGIN OF DATA
1	C	"ATS 5" or "ATS 6"		ATS-5 & ATS-6
2	F	YEAR		" "
3	F	MONTH		" "
4	F	DAY		" "
5	F	HOUR		" "
6	F	AVERAGE MINUTE		" "
7	F	DAY OF YEAR		" "
8	F	NUMBER DENSITY (N/cm^3)	1	" "
9	F	NUMBER OF VALUES		" "
10	F	NUMBER FLUX ($N/cm^2/sec/sr$)	1	" "
11	F	NUMBER OF VALUES		" "
12	F	ENERGY DENSITY (eV/cm^3)	1	" "
13	F	NUMBER OF VALUES		" "
14	F	ENERGY FLUX ($eV/cm^2/sec/sr$)	1	" "
15	F	NUMBER OF VALUES		" "
16	F	NUMBER DENSITY (N/cm^3)	2	" "
17	F	NUMBER OF VALUES		" "
18	F	NUMBER FLUX ($N/cm^2/sec/sr$)	2	" "
19	F	NUMBER OF VALUES		" "
20	F	ENERGY DENSITY (eV/cm^3)	2	" "
21	F	NUMBER OF VALUES		" "
22	F	ENERGY FLUX ($eV/cm^2/sec/sr$)	2	" "
23	F	NUMBER OF VALUES		" "
24	F	NUMBER DENSITY (N/cm^3)	3	ATS 5
25	F	NUMBER OF VALUES		"
26	F	NUMBER FLUX ($N/cm^2/sec/sr$)	3	"
27	F	NUMBER OF VALUES		"
28	F	ENERGY DENSITY (eV/cm^3)	3	"
29	F	NUMBER OF VALUES		"
30	F	ENERGY FLUX ($eV/cm^2/sec/sr$)	3	"
31	F	NUMBER OF VALUES		"
32	F	NUMBER DENSITY (N/cm^3)	4	"
33	F	NUMBER OF VALUES		"
34	F	NUMBER FLUX ($N/cm^2/sec/sr$)	4	"
35	F	NUMBER OF VALUES		"
36	F	ENERGY DENSITY (eV/cm^3)	4	"
37	F	NUMBER OF VALUES		"
38	F	ENERGY FLUX ($eV/cm^2/sec/sr$)	4	"
39	F	NUMBER OF VALUES		"

Table D1. ATS Data Tape Format (Cont)

WORD	TYPE	DESCRIPTION	ORIGIN OF DATA
40	F	TEMPERATURE CORRECTION COEFF.	ATS 6
41	F	ANGLE N-S DETECTOR	"
42	F	PITCH ANGLE	"
43	F	ENERGY STEP OF PHOTOELECTRON CUTOFF	"
44	F	ELECTRON CUTOFF ENERGY	"
45	F	SPACECRAFT POTENTIAL	"
46	F	COLATITUDE (Degrees)	ATS 5
47	F	LONGITUDE (Degrees)	"
48	F	RADIUS (Re)	"
49	F	$\perp$ MAGNETIC FIELD COMPONENT ($B\perp$ in γ)	"
50	F	MAGNETIC FIELD IN Z DIRECTION (B_Z in γ)	"
51	F	TOTAL MAGNETIC FIELD (B in γ)	"
52	F	INCLINATION OF SATELLITE TO B	"
53	F	AE AVERAGE	AE Tape
54	F	AE MAXIMUM	"
55	F	KP VALUES—(CODED 3/1)	Data Cards
56	F	RADIUS (Km)	Ephemeris Tape
57	F	LATITUDE (Deg.)	Ephemeris Tape
58	F	LONGITUDE (Deg.)	Ephemeris Tape
59-85	F	FILL	

The initial fill value, deleted data, and erroneous data are indicated by −999999.

Fill data are -1.0×10^6, depending on round-off.

☆U.S. GOVERNMENT PRINTING OFFICE: 1979 – A-1173/29

CDC 60 bit floating point word

First 2 words are control words. The third word is the satellite description. To find the year, month, day, take the first 12 bits and subtract 1717 from it, to convert to decimal that tells you how many bits to move the decimal point from left to right. Break down the next 12 bits by counting right the number of decimal places. Then going right to left every three bits draw a line. Then convert that to octal , convert to decimal to get the year. Repeat for day and month.

Year

EX:

$$\begin{array}{r} 1732_8 \\ \underline{1717_8} \\ 13_8 = 11_{10} \end{array}$$

7554 = 111101101100

$$\begin{array}{c|c|c|c} 11 & 110 & 110 & 110.0 \\ 3 & 6 & 6 & 6_8 = 1974_{10} \end{array}$$

DEPARTMENT OF THE AIR FORCE
AIR FORCE GEOPHYSICS LABORATORY (AFSC)
HANSCOM AIR FORCE BASE, MASSACHUSETTS 01731

REPLY TO ATTN OF: PHI/3127

30 May 1980

SUBJECT: ATS-5/ATS-6 Data

Rec'd 6/10/80 HKH
2 tapes
ATS 5 17
ATS 6 17

TO: National Space Science Data Center
Code 601
Goddard Space Flight Center
Greenbelt, Maryland 20771

ATTN: J. Vette

Dear Jim

Here is the ATS-5/ATS-6 data I promised you. I have gone over this with Sherman DeForest many times and he approved sending it to you. I suggest, however, that you get final approval from Carl McIlwain for safety's sake. We paid for it, but it was his data. I'm leaving for JPL today.

Sincerely

for Edward G. Mullen

HANK GARRETT
Physicist
Space Physics Division

Atch
a/s

```
BBBBBBBBB   XX      XX     AAAA     TTTTTTTT     666      BBBBBBBBB  XX      XX    A   7
BBBBBBBBB   XX      XX     AAAA     TTTTTTTT     666      BBBBBBBBB  XX      XX    A   7
BB     BB     XX  XX      AA  AA       TT       66        BB     BB    XX  XX      A   7
BB     BB     XX  XX      AA  AA       TT       66        BB     BB    XX  XX      A   7
BBBBBBBBB       XX       AA    AA      TT       66        BBBBBBBBB      XX        A   7
BBBBBBBBB       XX       AA    AA      TT       66        BBBBBBBBB      XX        A   7
BB     BB      XXXX     AAAAAAAAAA     TT       6666666   BB     BB     XXXX       A   7
BB     BB      XXXX     AAAAAAAAAA     TT       6666666   BB     BB     XXXX       A   7
BB     BB    XX    XX   AA      AA     TT       66    66  BB     BB   XX    XX     A   7
BB     BB    XX    XX   AA      AA     TT       66    66  BB     BB   XX    XX     A   7
BBBBBBBBB   XX      XX  AA      AA     TT        666666   BBBBBBBBB  XX      XX    A   7
BBBBBBBBB   XX      XX  AA      AA     TT        666666   BBBBBBBBB  XX      XX    A   7
```

186 48

7/5/74 - 2/11/76

```
      PROGRAM ATDUMP (INPUT,OUTPUT,TAPE1)
      DIMENSION B(85,6)
      DIMENSION J(512)
      EQUIVALENCE (B(1,1),J(3))
      IREC=IBAD=IEOF=0
      REWIND 1
      DO 200 M=1,400
      IHR=0
      PRINT 10
   10 FORMAT(1H1)
   20 CONTINUE
      BUFFER IN(1,1) (J(1),J(512))
      IF(UNIT(1)) 50,60,40
   40 IBAD=IBAD+1
      GO TO 20
   50 IREC=IREC+1
      IHR=IHR+1
      GO TO 20
   60 IF(IHR.EQ.0) GO TO 170
      PRINT 80, J(1),J(2),IREC
   80 FORMAT(3I6/)
      DO 100 K=1,6
      PRINT 90, (B(L,K), L=1,6)
   90 FORMAT(1X,A6,6F7.1/ 6(8E11.4/),5E11.4 /)
  100 CONTINUE
      GO TO 180
  170 IEOF=IEOF+1
      IF(IEOF.GT.2) GO TO 220
  180 PRINT 190, M
  190 FORMAT(*-  FILE  *I5)
  200 CONTINUE
  220 PRINT 230, IREC,IBAD
  230 FORMAT(*-  RECORDS READ = *I5*     UNREADABLE = *I4)
      STOP 1111
      END
```

SYMBOLIC REFERENCE MAP (R=2)

ENTRY POINTS		DEF LINE	REFERENCES
6214	ATDUMP	1	

VARIABLES		SN	TYPE	RELOCATION							
6357	B		REAL	ARRAY	REFS	2	4	23			
6347	IBAD		INTEGER		REFS	14	32	DEFINED	5	14	
6350	IEOF		INTEGER		REFS	27	28	DEFINED	5	27	
6352	IHR		INTEGER		REFS	17	19	DEFINED	8	17	
6346	IREC		INTEGER		REFS	16	20	32	DEFINED	5	16
6355	J		INTEGER	ARRAY	REFS	3	4	2*20	DEFINED	2*12	
6353	K		INTEGER		REFS	23	DEFINED	22			
6354	L		INTEGER		REFS	23	DEFINED	23			
6351	M		INTEGER		REFS	29	DEFINED	7			

```
FILE NAMES          MODE
    0  INPUT
 2054  OUTPUT      FMT                    WRITES        9        20        23        29        32
 4130  TAPE1       BUF                     READS       12     MOTION         6

EXTERNALS            TYPE    ARGS        REFERENCES
       UNIT         REAL       1              13

STATEMENT LABELS                  DEF LINE   REFERENCES
 6275  10        FMT                 10          9
 6225  20                            11         15        18
    0  40            INACTIVE        14         13
 6234  50                            16         13
 6237  60                            19         13
 6311  80        FMT                 21         20
 6317  90        FMT                 24         23
    0  100                           25         22
 6254  170                           27         19
 6257  180                           29         26
 6327  190       FMT                 30         29
    0  200                           31          7
 6264  220                           32         28
 6337  230       FMT                 33         32

LOOPS  LABEL     INDEX      FROM-TO     LENGTH    PROPERTIES
 6222  200     * M            7 31        42B                EXT REFS    EXITS   NOT INNER
 6243  100     * K           22 25        11B                EXT REFS

STATISTICS
  PROGRAM LENGTH                 1346B      742
  BUFFER LENGTH                  6011B     3081
        60000B CM USED
```

FWA OF THE LOAD 111
LWA+1 OF THE LOAD 14700

TRANSFER ADDRESS -- ATDUMP 6325

PROGRAM ENTRY POINTS -- ATDUMP 6325

PROGRAM AND BLOCK ASSIGNMENTS.

BLOCK	ADDRESS	LENGTH	FILE	DATE	PROCSSR	VER	LEVEL	HARDWARE	COMMENTS
ATDUMP	111	7357	LGO	05/27/80	FTN	4.7	476	666X I	PROGRAM OPT=1
SYSAID=	7470	1	SL-FORTRAN	12/04/78	COMPASS	3.6	485		LINK BETWEEN SYS=AID AND INITIALIZATION CODE.
/STP.END/	7471	1							
/FCL.C./	7472	26							
/QB.IO./	7520	101							
Q2NTRY=	7621	0	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL INITIALIZATION ROUTINE.
BUFIN=	7621	44	SL-FORTRAN	12/04/78	COMPASS	3.6	485		BUFFERED INPUT PROCESSOR.
FBCMSK=	7665	41	SL-FORTRAN	12/04/78	COMPASS	3.6	485		INITIALIZE CONSTANTS.
FMTAP=	7726	357	SL-FORTRAN	12/04/78	COMPASS	3.6	485		CRACK APLIST AND FORMAT FOR KODER/KRAKER.
FDRUTL=	10305	46	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL MISC. UTILITIES.
GETFIT=	10353	57	SL-FORTRAN	12/04/78	COMPASS	3.6	485		LOCATE AN FIT GIVEN A FILE NAME.
KODER=	10432	451	SL-FORTRAN	12/04/78	COMPASS	3.6	485		OUTPUT FORMAT INTERPRETER.
OUTC=	11103	150	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FORMATTED WRITE FORTRAN RECORD.
BUFIO=	11253	100	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON SET-UP ROUTINE FOR BUFIN=/BUFOUT=
/FCL=ENT/	11353	40							
COMIO=	11413	33	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON CODED I/O ROUTINES AND CONSTANTS.
FCL=FDL	11446	40	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL CAPSULE LOADING
FBIFST=	11506	3	SL-FORTRAN	12/04/78	COMPASS	3.6	485		CONVERTED DATA STORAGE
FLTOBT=	11511	311	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON FLOATING OUTPUT CODE
FORSYS=	12022	301	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FORTRAN OBJECT LIBRARY UTILITIES.
OUTCOM=	12323	154	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON OUTPUT CODE
REWIND=	12477	33	SL-FORTRAN	12/04/78	COMPASS	3.6	485		POSITION FILE AT BEGINNING-OF-INFORMATION.
UNIT	12532	60	SL-FORTRAN	12/04/78	COMPASS	3.6	485		STATUS OF BUFFER I/O FILE.
CTL$RM	12612	433	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM CONTROLLING ROUTINE.
CTL$WR	13245	32	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM CONTROLLER - WEOX, REWIND
ERR$RM	13277	25	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM ERROR PROCESSOR ENTRY.
GPWR$RM	13324	60	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM SO SBF GET/PUT ROUTINE
LIST$RM	13404	67	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM - ALLOCATE SPACE FOR LIST OF FILES
CMF.ALF	13473	160	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - ALLOCATE FIXED.
CMF.CSF	13653	6	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - CHANGE SPECS FIXED.
CMM.FFA	13661	14	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - FIXED FREE ALGORITHM.
CMF.FRF	13675	36	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - FREE FIXED.
CMM.MEM	13733	7	SL-SYSLIB	11/15/79	COMPASS	3.6	498		
CMM.R	13742	205	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - RESIDENT SUBROUTINES.
CMF.SLF	14147	22	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - SHRINK AT LWA FIXED.
CPU.SYS	14171	40	SL-SYSLIB	11/15/79	COMPASS	3.5	476		PROCESS SYSTEM REQUEST.
/FDL.COM/	14231	14							
FDL.RES	14245	211	SL-SYSLIB	12/10/79	COMPASS	3.6	498		FAST DYNAMIC LOADER RESIDENT.
FDL.MMI	14456	222	SL-SYSLIB	12/10/79	COMPASS	3.6	498		FDL MEMORY MANAGER INTERFACE.

.351 CP SECONDS 31200B CM STORAGE USED 2 TABLE MOVES

```
  85      0     24

ATS 6  1974.0     7.0     5.0    23.0     5.0   186.0
 .1882E+01  .4000E+01  .2786E+09  .6000E+01  .2439E+04  .6000E+01  .8050E+12  .6000E+01
 .2221E+01  .6000E+01  .2725E+08  .6000E+01  .4642E+05  .6000E+01  .1114E+13  .6000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .4984E+02  .1042E+03  .2100E+02  .7000E+01  .1587E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1666E+01  .2650E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     5.0    23.0    15.0   186.0
 .2721E+01  .5000E+01  .3512E+09  .5000E+01  .4909E+04  .6000E+01  .1443E+13  .6000E+01
 .2440E+01  .5000E+01  .2927E+08  .5000E+01  .4826E+05  .5000E+01  .1246E+13  .6000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .4610E+02  .8721E+02  .5100E+02  .7000E+01  .1582E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1665E+01  .2650E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     5.0    23.0    25.0   186.0
 .2662E+01  .6000E+01  .3778E+09  .7000E+01  .4243E+04  .8000E+01  .1169E+13  .8000E+01
 .2129E+01  .8000E+01  .2297E+08  .8000E+01  .3704E+05  .8000E+01  .8691E+12  .8000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .4268E+02  .9480E+02  .3600E+02  .7000E+01  .1579E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1661E+01  .2650E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     5.0    23.0    35.0   186.0
 .2790E+01  .5000E+01  .4071E+09  .7000E+01  .3741E+04  .7000E+01  .1282E+13  .7000E+01
 .2329E+01  .7000E+01  .2283E+08  .7000E+01  .3561E+05  .7000E+01  .8148E+12  .7000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3985E+02  .9245E+02  .2600E+02  .7000E+01  .1575E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1654E+01  .2650E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     5.0    23.0    45.0   186.0
 .3187E+01  .8000E+01  .4316E+09  .1000E+02  .4596E+04  .1000E+02  .1885E+13  .1000E+02
 .2328E+01  .1000E+02  .1859E+08  .1000E+02  .2799E+05  .1000E+02  .6250E+12  .1000E+02
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3637E+02  .8806E+02  .3200E+02  .7000E+01  .1571E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1644E+01  .2650E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     5.0    23.0    55.0   186.0
 .4375E+01  .7000E+01  .6976E+09  .8000E+01  .9243E+04  .8000E+01  .3578E+13  .8000E+01
 .1665E+01  .6000E+01  .1800E+08  .8000E+01  .2302E+05  .8000E+01  .4471E+12  .8000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3381E+02  .6860E+02  .4400E+02  .7000E+01  .1568E+02 0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .1900E+02
 .4216E+05 -.1631E+01  .2650E+03 -.1000E+07 -.1000E+07


  FILE       1
```

```
_85      0     48

ATS 6  1974.0     7.0     6.0    23.0     5.0  187.0
 .2562E+00  .1000E+02  .5463E+08  .1000E+02  .1448E+04  .1000E+02  .1090E+13  .1000E+02
 .1677E+01  .1000E+02  .8947E+07  .1000E+02  .1445E+05  .1000E+02  .3318E+12  .1000E+02
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .5044E+02  .9217E+02  .4400E+02  .8000E+01  .2113E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1663E+01  .2651E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     6.0    23.0    15.0  187.0
 .2314E+00  .9000E+01  .5819E+08  .9000E+01  .1574E+04  .9000E+01  .1184E+13  .9000E+01
 .1170E+01  .9000E+01  .9223E+07  .9000E+01  .1492E+05  .9000E+01  .3418E+12  .9000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .4635E+02  .6656E+02  .6500E+02  .8000E+01  .2109E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1661E+01  .2651E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     6.0    23.0    25.0  187.0
 .2705E+00  .9000E+01  .5905E+08  .9000E+01  .1546E+04  .9000E+01  .1148E+13  .9000E+01
 .1317E+01  .9000E+01  .9276E+07  .9000E+01  .1479E+05  .9000E+01  .3378E+12  .9000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .4288E+02  .8363E+02  .5400E+02  .8000E+01  .2104E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1656E+01  .2651E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     6.0    23.0    35.0  187.0
 .2996E+00  .1000E+02  .5764E+08  .1000E+02  .1472E+04  .1000E+02  .1086E+13  .1000E+02
 .1611E+01  .1000E+02  .8867E+07  .1000E+02  .1374E+05  .1000E+02  .3113E+12  .1000E+02
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3953E+02  .9119E+02  .4400E+02  .8000E+01  .2100E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1647E+01  .2651E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     6.0    23.0    45.0  187.0
 .3034E+00  .9000E+01  .5868E+08  .9000E+01  .1468E+04  .9000E+01  .1068E+13  .9000E+01
 .1403E+01  .9000E+01  .8393E+07  .9000E+01  .1326E+05  .9000E+01  .3012E+12  .9000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3643E+02  .8896E+02  .4200E+02  .8000E+01  .2097E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1636E+01  .2651E+03 -.1000E+07 -.1000E+07

ATS 6  1974.0     7.0     6.0    23.0    55.0  187.0
 .3510E+00  .8000E+01  .6015E+08  .8000E+01  .1457E+04  .8000E+01  .1043E+13  .8000E+01
 .9404E+00  .8000E+01  .8267E+07  .8000E+01  .1308E+05  .8000E+01  .2961E+12  .8000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07
 .3381E+02  .9890E+02  .4000E+02  .8000E+01  .2094E+02  0.         -.1000E+07 -.1000E+07
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .9000E+01
 .4216E+05 -.1621E+01  .2651E+03 -.1000E+07 -.1000E+07

FILE       2
```

```
BBBBBBBB   XX      XX     AAAA      TTTTTTTT   55555555    333333    WW      WW      C   6
BBBBBBBB   XX      XX     AAAA      TTTTTTTT   55555555    333333    WW      WW      C   6
BB      BB    XX  XX      AA  AA        TT     55          33    33  WW      WW      C   6
BB      BB    XX  XX      AA  AA        TT     55          33    33  WW      WW      C   6
BBBBBBBB        XX       AA    AA       TT     5555555         333   WW      WW      C   6
BBBBBBBB        XX       AA    AA       TT     5555555         333   WW      WW      C   6
BB      BB     XXXX     AAAAAAAAAA      TT            55         33  WW  WW  WW      C   6
BB      BB     XXXX     AAAAAAAAAA      TT            55         33  WW  WW  WW      C   6
BB      BB   XX    XX   AA      AA      TT            55    33    33  WWWW  WWWW      C   6
BB      BB   XX    XX   AA      AA      TT            55    33    33  WWWW  WWWW      C   6
BBBBBBBB   XX      XX   AA      AA      TT     5555555     333333    WWW    WWW      C   6
BBBBBBBB   XX      XX   AA      AA      TT     5555555     333333    WWW    WWW      C   6
```

312 328

11/8/69 – 11/24/70

```
      PROGRAM ATDUMP(INPUT,OUTPUT,TAPE1)
      DIMENSION B(85,6)
      DIMENSION J(512)
      EQUIVALENCE (B(1,1),J(3))
      IREC=IBAD=IEOF=0
      REWIND 1
      DO 200 M=1,400
      IHR=0
      PRINT 10
   10 FORMAT(1H1)
   20 CONTINUE
      BUFFER IN(1,1) (J(1),J(512))
      IF(UNIT(1)) 50,60,40
   40 IBAD=IBAD+1
      GO TO 20
   50 IREC=IREC+1
      IHR=IHR+1
      GO TO 20
   60 IF(IHR.EQ.0) GO TO 170
      PRINT 80, J(1),J(2),IREC
   80 FORMAT(3I6/)
      DO 100 K=1,6
      PRINT 90, (B(L,K), L=1,60)
   90 FORMAT(1X,A6,6F7.1/ 6(8E11.4/),5E11.4 /)
  100 CONTINUE
      GO TO 180
  170 IEOF=IEOF+1
      IF(IEOF.GT.2) GO TO 220
  180 PRINT 190, M
  190 FORMAT(*-  FILE  *I5)
  200 CONTINUE
  220 PRINT 230, IREC,IBAD
  230 FORMAT(*-  RECORDS READ = *I5*    UNREADABLE = *I4)
      STOP 1111
      END
```

SYMBOLIC REFERENCE MAP (P=2)

ENTRY POINTS		DEF LINE	REFERENCES
6214	ATDUMP	1	

VARIABLES		SN	TYPE		RELOCATION							
6357	B		REAL	ARRAY		REFS	2	4	23			
6347	IBAD		INTEGER			REFS	14	32	DEFINED	5	14	
6350	IEOF		INTEGER			REFS	27	28	DEFINED	5	27	
6352	IHR		INTEGER			REFS	17	19	DEFINED	8	17	
6346	IREC		INTEGER			REFS	16	20	32	DEFINED	5	16
6355	J		INTEGER	ARRAY		REFS	3	4	2*20	DEFINED	2*12	
6353	K		INTEGER			REFS	23	DEFINED	22			
6354	L		INTEGER			REFS	23	DEFINED	23			
6351	M		INTEGER			REFS	29	DEFINED	7			

```
FILE NAMES          MODE
    0   INPUT
 2054   OUTPUT      FMT                    WRITES        9        20        23        29        32
 4130   TAPE1       BUF                     READS       12     MOTION         6

EXTERNALS            TYPE    ARGS        REFERENCES
        UNIT        REAL        1              13

STATEMENT LABELS                DEF LINE    REFERENCES
 6275   10        FMT              10           9
 6225   20                         11          15        18
    0   40            INACTIVE     14          13
 6234   50                         16          13
 6237   60                         19          13
 6311   80        FMT              21          20
 6317   90        FMT              24          23
    0   100                        25          22
 6254   170                        27          19
 6257   180                        29          26
 6327   190       FMT              30          29
    0   200                        31           7
 6264   220                        32          28
 6337   230       FMT              33          32

LOOPS   LABEL     INDEX      FROM-TO     LENGTH     PROPERTIES
 6222   200     * M            7 31        42B                EXT REFS    EXITS   NOT INNER
 6243   100     * K           22 25        11B                EXT REFS

STATISTICS
  PROGRAM LENGTH                 1346B      742
  BUFFER LENGTH                  6011B     3081
        60000B CM USED
```

FWA OF THE LOAD 111
LWA+1 OF THE LOAD 14700

TRANSFER ADDRESS -- ATDUMP 6325

PROGRAM ENTRY POINTS -- ATDUMP 6325

PROGRAM AND BLOCK ASSIGNMENTS.

BLOCK	ADDRESS	LENGTH	FILE	DATE	PROCSSR	VER	LEVEL	HARDWARE	COMMENTS
ATDUMP	111	7357	LGO	05/28/80	FTN	4.7	476	666X I	PROGRAM OPT=1
SYSAID=	7470	1	SL-FORTRAN	12/04/78	COMPASS	3.6	485		LINK BETWEEN SYS=AID AND INITIALIZATION CODE.
/STP.END/	7471	1							
/FCL.C./	7472	26							
/08.IO./	7520	101							
Q2NTRY=	7621	0	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL INITIALIZATION ROUTINE.
BUFIN=	7621	44	SL-FORTRAN	12/04/78	COMPASS	3.6	485		BUFFERED INPUT PROCESSOR.
FECMSK=	7665	41	SL-FORTRAN	12/04/78	COMPASS	3.6	485		INITIALIZE CONSTANTS.
FMTAP=	7726	357	SL-FORTRAN	12/04/78	COMPASS	3.6	485		CRACK APLIST AND FORMAT FOR KODER/KRAKER.
FORUTL=	10305	46	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL MISC. UTILITIES.
GETFIT=	10353	57	SL-FORTRAN	12/04/78	COMPASS	3.6	485		LOCATE AN FIT GIVEN A FILE NAME.
KODER=	10432	451	SL-FORTRAN	12/04/78	COMPASS	3.6	485		OUTPUT FORMAT INTERPRETER.
OUTC=	11103	150	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FORMATTED WRITE FORTRAN RECORD
BUFIO=	11253	100	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON SET-UP ROUTINE FOR BUFIN=/BUFOUT=
/FCL=ENT/	11353	40							
COMIO=	11413	33	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON CODED I/O ROUTINES AND CONSTANTS.
FCL=FDL	11446	40	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FCL CAPSULE LOADING
FBIFST=	11506	3	SL-FORTRAN	12/04/78	COMPASS	3.6	485		CONVERTED DATA STORAGE
FLTOUT=	11511	311	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON FLOATING OUTPUT CODE
FORSYS=	12022	301	SL-FORTRAN	12/04/78	COMPASS	3.6	485		FORTRAN OBJECT LIBRARY UTILITIES.
OUTCOM=	12323	154	SL-FORTRAN	12/04/78	COMPASS	3.6	485		COMMON OUTPUT CODE
REWIND=	12477	33	SL-FORTRAN	12/04/78	COMPASS	3.6	485		POSITION FILE AT BEGINNING-OF-INFORMATION.
UNIT	12532	60	SL-FORTRAN	12/04/78	COMPASS	3.6	485		STATUS OF BUFFER I/O FILE.
CTLSRM	12612	433	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM CONTROLLING ROUTINE.
CTLSWR	13245	32	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM CONTROLLER - WEOX, REWIND
ERRSRM	13277	25	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM ERROR PROCESSOR ENTRY.
GPWRSRM	13324	60	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM SQ SBF GET/PUT ROUTINE
LISTSRM	13404	67	SL-SYSLIB	09/21/79	COMPASS	3.5	476		CRM - ALLOCATE SPACE FOR LIST OF FILES
CMF.ALF	13473	160	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - ALLOCATE FIXED.
CMF.CSF	13653	6	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - CHANGE SPECS FIXED.
CMM.FFA	13661	14	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - FIXED FREE ALGORITHM.
CMF.FRF	13675	36	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - FREE FIXED.
CMM.MEM	13733	7	SL-SYSLIB	11/15/79	COMPASS	3.6	498		
CMM.R	13742	205	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - RESIDENT SUBROUTINES.
CMF.SLF	14147	22	SL-SYSLIB	11/15/79	COMPASS	3.6	498		CMM V1.1 - SHRINK AT LWA FIXED.
CPU.SYS	14171	40	SL-SYSLIB	11/15/79	COMPASS	3.5	476		PROCESS SYSTEM REQUEST.
/FDL.COM/	14231	14							
FDL.RES	14245	211	SL-SYSLIB	12/10/79	COMPASS	3.6	498		FAST DYNAMIC LOADER RESIDENT.
FDL.MMI	14456	222	SL-SYSLIB	12/10/79	COMPASS	3.6	498		FDL MEMORY MANAGER INTERFACE.

.319 CP SECONDS 31200B CM STORAGE USED 2 TABLE MOVES

```
 85     0    24

ATS 5  1969.0    11.0     8.0    23.0     5.0   312.0
 .1641E+00  .7000E+01  .2197E+08  .7000E+01  .4315E+03  .7000E+01  .3129E+12  .7000E+01
 .1665E+01  .7000E+01  .1531E+08  .7000E+01  .1775E+05  .7000E+01  .2935E+12  .7000E+01
 .6871E-01  .7000E+01  .1356E+08  .7000E+01  .3706E+03  .7000E+01  .2977E+12  .7000E+01
 .1499E+01  .7000E+01  .1178E+08  .7000E+01  .1281E+05  .7000E+01  .2879E+12  .7000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8925E+02  .2550E+03
 .6611E+01  .4590E+02  .9840E+02  .1088E+03  .2487E+02  .3758E+03  .4450E+03  .1100E+02
 .4216E+05  .7193E+00  .2550E+03 -.1000E+07 -.1000E+07

ATS 5  1969.0    11.0     8.0    23.0    15.0   312.0
 .1859E+00  .7000E+01  .2358E+08  .7000E+01  .4428E+03  .7000E+01  .3189E+12  .7000E+01
 .1800E+01  .7000E+01  .1684E+08  .7000E+01  .2021E+05  .7000E+01  .3460E+12  .7000E+01
 .7686E-01  .7000E+01  .1342E+08  .7000E+01  .3436E+03  .7000E+01  .2714E+12  .7000E+01
 .1577E+01  .7000E+01  .1220E+08  .7000E+01  .1331E+05  .7000E+01  .2170E+12  .7000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8915E+02  .2550E+03
 .6611E+01  .4884E+02  .9851E+02  .1100E+03  .2633E+02  .3888E+03  .4040E+03  .1100E+02
 .4216E+05  .8221E+00  .2550E+03 -.1000E+07 -.1000E+07

ATS 5  1969.0    11.0     8.0    23.0    25.0   312.0
 .3048E+00  .8000E+01  .2990E+08  .8000E+01  .4533E+03  .8000E+01  .3127E+12  .8000E+01
 .2042E+01  .8000E+01  .1894E+08  .8000E+01  .2313E+05  .8000E+01  .4029E+12  .8000E+01
 .1548E+00  .8000E+01  .1706E+08  .8000E+01  .3408E+03  .8000E+01  .2589E+12  .8000E+01
 .1719E+01  .8000E+01  .1234E+08  .8000E+01  .1327E+05  .8000E+01  .2166E+12  .8000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8905E+02  .2550E+03
 .6612E+01  .4624E+02  .9549E+02  .1061E+03  .2584E+02  .4848E+03  .5330E+03  .1100E+02
 .4217E+05  .9233E+00  .2550E+03 -.1000E+07 -.1000E+07

ATS 5  1969.0    11.0     8.0    23.0    35.0   312.0
 .3146E+00  .7000E+01  .2822E+08  .7000E+01  .3652E+03  .7000E+01  .2339E+12  .7000E+01
 .1779E+01  .7000E+01  .1580E+08  .7000E+01  .1928E+05  .7000E+01  .3431E+12  .7000E+01
 .2270E+00  .7000E+01  .2115E+08  .7000E+01  .3374E+03  .7000E+01  .2414E+12  .7000E+01
 .1541E+01  .7000E+01  .1221E+08  .7000E+01  .1388E+05  .7000E+01  .2363E+12  .7000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8895E+02  .2550E+03
 .6612E+01  .5349E+02  .8643E+02  .1017E+03  .3167E+02  .6215E+03  .6430E+03  .1100E+02
 .4217E+05  .1023E+01  .2550E+03 -.1000E+07 -.1000E+07

ATS 5  1969.0    11.0     8.0    23.0    45.0   312.0
 .3774E+00  .7000E+01  .3163E+08  .7000E+01  .3336E+03  .7000E+01  .1945E+12  .7000E+01
 .1445E+01  .7000E+01  .1422E+08  .7000E+01  .1753E+05  .7000E+01  .3123E+12  .7000E+01
 .3214E+00  .7000E+01  .2576E+08  .7000E+01  .3141E+03  .7000E+01  .2040E+12  .7000E+01
 .1324E+01  .7000E+01  .1171E+08  .7000E+01  .1360E+05  .7000E+01  .2317E+12  .7000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8885E+02  .2550E+03
 .6612E+01  .5471E+02  .8440E+02  .1007E+03  .3287E+02  .6560E+03  .6660E+03  .1100E+02
 .4217E+05  .1120E+01  .2550E+03 -.1000E+07 -.1000E+07

ATS 5  1969.0    11.0     8.0    23.0    55.0   312.0
 .3115E+00  .6000E+01  .2670E+08  .6000E+01  .2851E+03  .6000E+01  .1653E+12  .6000E+01
 .1444E+01  .6000E+01  .1387E+08  .6000E+01  .1726E+05  .6000E+01  .3118E+12  .6000E+01
 .2215E+00  .6000E+01  .1905E+08  .6000E+01  .2517E+03  .6000E+01  .1656E+12  .6000E+01
 .1382E+01  .6000E+01  .1145E+08  .6000E+01  .1320E+05  .6000E+01  .2258E+12  .6000E+01
-.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07 -.1000E+07  .8877E+02  .2550E+03
 .6613E+01  .5093E+02  .8727E+02  .1011E+03  .3028E+02  .5130E+03  .5860E+03  .1100E+02
 .4217E+05  .1215E+01  .2550E+03 -.1000E+07 -.1000E+07

 FILE      1
```

85 0 48

ATS 5 1969.0 11.0 9.0 23.0 5.0 313.0

.2979E+00	.7000E+01	.5782E+08	.7000E+01	.1231E+04	.7000E+01	.7954E+12	.7000E+01
.2435E+01	.7000E+01	.1676E+08	.7000E+01	.1993E+05	.7000E+01	.3407E+12	.7000E+01
.8350E+00	.7000E+01	.5214E+08	.7000E+01	.4944E+03	.7000E+01	.2695E+12	.7000E+01
.2636E+01	.7000E+01	.1303E+08	.7000E+01	.1339E+05	.7000E+01	.2139E+12	.7000E+01
-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	.8922E+02	.2550E+03
.6611E+01	.5239E+02	.1394E+03	.1490E+03	.2059E+02	.3775E+02	.5300E+02	.6000E+01
.4216E+05	.7612E+00	.2550E+03	-.1000E+07	-.1000E+07			

ATS 5 1969.0 11.0 9.0 23.0 15.0 313.0

.1884E+00	.7000E+01	.4638E+08	.7000E+01	.9914E+03	.7000E+01	.5955E+12	.7000E+01
.2219E+01	.7000E+01	.1586E+08	.7000E+01	.1887E+05	.7000E+01	.3212E+12	.7000E+01
.2544E+00	.7000E+01	.4899E+08	.7000E+01	.4953E+03	.7000E+01	.2753E+12	.7000E+01
.2260E+01	.7000E+01	.1271E+08	.7000E+01	.1341E+05	.7000E+01	.2129E+12	.7000E+01
-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	.8912E+02	.2550E+03
.6611E+01	.6010E+02	.1390E+03	.1514E+03	.2339E+02	.3950E+02	.5200E+02	.6000E+01
.4216E+05	.8632E+00	.2550E+03	-.1000E+07	-.1000E+07			

ATS 5 1969.0 11.0 9.0 23.0 25.0 313.0

.1843E+00	.8000E+01	.4479E+08	.8000E+01	.9463E+03	.8000E+01	.5635E+12	.8000E+01
.2151E+01	.8000E+01	.1477E+08	.8000E+01	.1733E+05	.8000E+01	.2944E+12	.8000E+01
.8278E+00	.8000E+01	.5222E+08	.8000E+01	.5031E+03	.8000E+01	.2727E+12	.8000E+01
.2174E+01	.8000E+01	.1255E+08	.8000E+01	.1325E+05	.8000E+01	.2089E+12	.8000E+01
-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	.8901E+02	.2550E+03
.6612E+01	.5779E+02	.1361E+03	.1479E+03	.2298E+02	.5000E+02	.6300E+02	.6000E+01
.4217E+05	.9635E+00	.2550E+03	-.1000E+07	-.1000E+07			

ATS 5 1969.0 11.0 9.0 23.0 35.0 313.0

.4124E+00	.7000E+01	.5913E+08	.7000E+01	.9844E+03	.7000E+01	.5635E+12	.7000E+01
.2126E+01	.7000E+01	.1457E+08	.7000E+01	.1702E+05	.7000E+01	.2884E+12	.7000E+01
.7419E+00	.7000E+01	.5069E+08	.7000E+01	.5404E+03	.7000E+01	.2966E+12	.7000E+01
.2524E+01	.7000E+01	.1400E+08	.7000E+01	.1472E+05	.7000E+01	.2323E+12	.7000E+01
-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	.8891E+02	.2550E+03
.6612E+01	.5577E+02	.1354E+03	.1465E+03	.2236E+02	.4700E+02	.5100E+02	.6000E+01
.4217E+05	.1062E+01	.2550E+03	-.1000E+07	-.1000E+07			

ATS 5 1969.0 11.0 9.0 23.0 45.0 313.0

.2163E+00	.7000E+01	.4723E+08	.7000E+01	.9892E+03	.7000E+01	.6022E+12	.7000E+01
.2121E+01	.7000E+01	.1452E+08	.7000E+01	.1690E+05	.7000E+01	.2855E+12	.7000E+01
.7781E+00	.7000E+01	.5230E+08	.7000E+01	.5415E+03	.7000E+01	.2963E+12	.7000E+01
.2340E+01	.7000E+01	.1310E+08	.7000E+01	.1377E+05	.7000E+01	.2188E+12	.7000E+01
-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	-.1000E+07	.8882E+02	.2550E+03
.6613E+01	.6010E+02	.1330E+03	.1459E+03	.2433E+02	.4200E+02	.5100E+02	.6000E+01
.4217E+05	.1158E+01	.2550E+03	-.1000E+07	-.1000E+07			

ATS 5 1969.0 11.0 9.0 23.0 55.0 313.0

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.2194E+01	.9000E+01	.1276E+08	.9000E+01	.1346E+05	.9000E+01	.2124E+12	.9000E+01
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.6613E+01	.6010E+02	.1306E+03	.1438E+03	.2471E+02	.3625E+02	.3900E+02	.6000E+01
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FILE 2

D-412429

ATS-5
11/8/69 - 11/24/70
B29775-000A

DUMP OF TAPE 42424

INPUT TAPE 42424 0 [illegible]
DATA INPUT 37 OF 50 FL 1 2 2 SK 50 1 2 SK 50 LAST 2

ATS 5 DATA

YR MONTH

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(3312)	027560177777	777760340275	601777777777	603402756017	777777776034	027560177777	777760340275	601777777777
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