#377

PIONEER 11

HI TIME RESOLUTION B VECTORS

73-019A-01C

1-MIN HVM CRUISE DATA

73-019A-01J

PIONEER 11

HI TIME RESOLUTION B VECTORS, TAPE

73-019A-01C

This data set has been restored. There were originally sixteen 7-track, 800 BPI tapes written in Binary. There is one restored tape. The tapes were created on a 1108 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#	DD#	FILES	TIME SPAN
DR03868	DS03868	D29051*	1-2	04/30/73 - 05/01/73
		D40298	3	11/24/74 - 11/24/74
		D40299	4	11/25/74 - 11/25/74
		D40300	5	11/26/74 - 11/26/74
		D40301	6	11/27/74 - 11/27/74
		D40302	7	11/28/74 - 11/28/74
		D40303	8	11/29/74 - 11/29/74
		D40304	9	11/30/74 - 11/30/74
		D40305	10-16	12/01/74 - 12/07/74
		D40306	17	12/08/74 - 12/08/74
		D40307	18	12/09/74 - 12/09/74
		D40308	19	12/10/74 - 12/10/74
		D40309	20	12/11/74 - 12/11/74
		D40310	21	12/12/74 - 12/12/74
		D40311	22	12/13/74 - 12/13/74
		D40312	23	12/14/74 - 12/14/74

* NOTE: THE TIME GAP BETWEEN THE SECOND FILE AND THE THIRD FILE

REQ. AGENT	RAND NO.	ACQ.AGENT
JVP BER	RC7435	JHK RWP

PIONEER 11

HI TIME RESOLUTION B VECTORS

73-019A-01C

This data set catalog consists of 16 Pioneer 11 data tapes. The tapes are 800 BPI, 7 track, binary and contain one file of data per day. Two tapes are multifiled and are so labeled. The tapes were created on a UNIVAC 1108 computer.

Time spans are as follows:

D#	C#	FILES	TIME SPAN
D-29051	C-18776	2	4/30/73 - 5/01/73
D-40298	C-21020		11/24/74
D-40299	C-21021		11/25/74
D-40300	C-21022		11/26/74
D-40301	C-21023		11/27/74
D-40302	C-21024		11/28/74
D-40303	C-21025		11/29/74
D-40304	C-21026		11/30/74
D-40305	C-21027	7	12/01/74 - 12/07/74
D-40306	C-21028		12/08/74
D-40307	C-21029		12/09/74
D-40308	C-21030		12/10/74
D-40309	C-21031		12/11/74
D-40310	C-21032		12/12/74
D-40311	C-21033		12/13/74
D-40312	C-21034		12/14/74

JET PROPULSION LABORATORY *California Institute of Technology • 4800 Oak Grove Drive, Pasadena, California 91103*

February 7, 1977

Refer to: 328-EJS:ct

Dr. Joseph King
Mail Stop 601.1
National Space Science Data Center
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Joe:

Under separate cover we are sending you a magnetic tape containing our high time resolution Pioneer Magnetometer data for two days. We call these tapes which contain individual field vectors, reduced data records (RDRs). We have finished a number of quality checks and are not aware of any bad data or other anomalies on these days.

A format statement will accompany the tape. There is one exception in the tape you will receive: it will not contain a BCD header file. The information contained in this header serves only to identify the tape, and for simplicity, was deleted in reproduction.

I think this tape will satisfy your requirement of having examples that can be provided to prospective RDR users. We are now proceeding down the list of other data that we have agreed to provide NSSDC. You should be receiving more data from me reasonably soon.

Sincerely,

E. J. Smith

Enclosure

cc: B. [illegible] (w/o encl.)
J. [illegible] "
C. Stanley "

ELAINE DOBBINS
8-792-2750

354-2248

Telephone [illegible] Twx 910-588-3269 Fax 910-588-3294

APPENDIX 1

Form and Content of the RDR Tapes

The Pioneer HVM RDR Tapes are written on 7-track tape units at 800 bpi. Each tape has a header file written in even parity (BCD) to identify the tape. The header file is followed by one or more data sets (files). Each data set contains all the data for a given day of the mission. Days are numbered consecutively for each year. January 1 is day 1.

Each block (physical record) in a data set consists of a HEADER of 44 words and zero or more SCIENCE DATA GROUPS of variable length. A word is defined as 36 bits (6 tape characters of 6 bits each). A block with zero SCIENCE DATA GROUPS is a dummy record indicating that there is no data for a given day. If there is any data for a day all blocks in the data set will have at least one SCIENCE DATA GROUP.

(WARNING: Many of the older tapes have empty files for days on which there is no data. This means that a double end-of-file mark does not necessarily mean end-of-volume on these tapes.)

Table 1 - Header Portion of Block

Word	Variable	Description
1	NBLK	Block Number. (Blocks are numbered consecutively starting with one in each data set.)
2	LBLK	Block Length (in 36 bit words).
3	NGRP	Number of Science Data Groups in the block. If there are no gaps in the EDR record from which this data is taken, NGRP is one.

Word	Variable	Description
4	IFDAY	The magnitude of the contents of this word is the day of the year. If the number is negative, there are corrected or suspect times in the block.
5	NFRAME	Number of first frame in the block (modulo 8192).
6	IRTLT	Round trip light time.
7	HRANGP	Distance of spacecraft from sun (km).
8	CELLTP	Heliocentric celestial latitude of spacecraft (degrees).
9	CELLNP	Heliocentric celestial longitude of spacecraft (degrees).
10	REARSU	Distance of Earth from sun (km).
11	CELLTE	Heliocentric celestial latitude of Earth (degrees).
12	CELINE	Heliocentric celestial longitude of Earth (degrees).
13		
•		Spectrum Analyzer data plus contents of Science Subcom
•		Words 106 and 202. (See Figure 1 for format of this
•		group of words.)
44		

The first 12 words of the HEADER are in 1108 internal format. The spectrum analyzer data is in a format similar to that used for the science data words except the fractions are 6 bits instead of 9 bits. The E106 words are not converted. Figure 3 shows the meaning of bits. Science subcom word 202 is subcommutated again into a cycle eight words long. The first word is a sync word and should always contain zero. The second word is the instrument serial number. The third word is the electronics temperature in degrees C. The fourth word is the sensor temperature in degrees C. The fifth word is the voltage at the +12 volt supply monitor (this is the

only non-integer word in the group. For this word only, the three low order bits are assumed to be to the right of the binary point). The sixth word is the A/D converter reference and should be about 41. The seventh word contains the range in which the instrument is operating. The eighth word is from the 24 volt monitor and should be 63.

The SCIENCE DATA GROUPS are stored as shown in Figure 2. Each SDG consists of a series of consecutive data points. The number of points is given (split between two words as shown), and the times of the first and last points are given in addition to the data values themselves. (Note that the RDR read program reconstructs all the times of the data points in a group from the information given.)

The three fractions of the science data words give the three components of the magnetic field in Solar-Interplanetary Coordinates in units of gamma. The values are stored on the tape in a floating point octal representation. The given characteristic is a power of eight given in excess -16 notation (allowing exponents to have the range -16 to +15) and is used with all three fractions. Three sign bits are given as shown in Figure 2. Each of the fractions is three octal digits long. The fraction having the largest magnitude is normalized in terms of octal digits (not bits) and the remaining two fractions are adjusted to have the same exponent. The fractions are truncated not rounded when they are stored on the tape.

$$\text{FRACTION} = \frac{\text{9 BIT INTEGER}}{512 \ (1000 \text{ OCTAL})}$$

FIGURE 1

HEADER

	0 1 2 3 4 5 6 7 8 9 10 11 1213 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
1	Block (Record) Number. (Blocks numbered consecutively from 1 for each day)
2	Block Length (in 36 bit words).
3	Number of Science Data Groups in block (1 if no gaps in data).
4	Flag, magnitude is day of year, minus sign indicates corrected or suspect times.
5	Extended frame counter and Subcom ID of first data frame in block.
6	Round trip light time.
7	Spacecraft sun distance in km (1108 floating point).
8	Heliocentric celestial latitude of spacecraft in degrees (1108 fp).
9	Heliocentric celestial longitude of spacecraft in degrees (1108 fp).
10	Sun-Earth distance in km (1108 fp).
11	Heliocentric celestial latitude of Earth in degrees (1108 fp).
12	Heliocentric celestial longitude of Earth in degrees (1108 fp).

13	Q	Characteristic	S_1	S_2	S_3	Fraction E103	Fraction E104	Fraction E105	0 0 0	E106
14	"	"	"	"	"	"	"	"	"	"
•	"	"	"	"	"	"	"	"	"	"
•	"	"	"	"	"	"	"	"	"	"
•	"	"	"	"	"	"	"	"	"	"
•	"	"	"	"	"	"	"	"	"	"
28	"	"	"	"	"	"	"	"	"	"
29	"	"	•	"	"	Fraction E203	Fraction E204	Fraction E205	E202	
30	"	"	"	"	"	"	"	"	"	
•	"	"	"	"	"	"	"	"	"	
•	"	"	"	"	"	"	"	"	"	
44	"	"	"	"	"	"	"	"	"	

Q is quality indicator, 0 if word contains good data. 1 if word contains fill

FIGURE 2

SCIENCE DATA GROUP

	0 1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16 17 18	19 20 21 22 23 24 25 26	27 28 29 30 31 32 33 34 35
n	Number of frames (H.O.B.)	GMT in milliseconds of day of first frame in group		
n+1	Number of frames (L.O.B.)	GMT in milliseconds of day of last frame in group		
n+2	0 Characteristic S_1 S_2 S_3	Fraction 1	Fraction 2	Fraction 3
n+3	" " " " "	"	"	"
n+4	" " " " "	"	"	"
•	" " " " "	"	"	"
•	" " " " "	"	"	"

FORMAT OF E106

1	0 if calibrate off, 1 if calibrate on
2	0 if ranging in manual mode, 1 if ranging in automatic mode
3	0 if instrument in normal mode, 1 if instrument in interchange mode
4	High order bit of calibration step
5	Middle bit of calibration step
6	Low order bit of calibration step

$$

D-29051
4/30/73 –
5/01/73

```
$JOB  10:14:56
$NOP DUMP X-396
$ASS IN MS5
$EXEC DPOCT7 BS
 INPUT TAPE ON MS5
 DATA INPUT     2 1 1
  FILE  1       RECORD   1        LENGTH    4890 BYTES
```

J. Daly to Octal

(0)	000000000001	000000001457	000000000002	000000000170	000000023417	000000367354	234457005656	576176354016
(48)	210703303132	234437350273	612377730370	210667021123	620777777077	620777777077	200200404020	200150603020
(96)	200100404020	200210404020	200100404020	200150603020	200100404020	200230404020	200260505020	200350703020
(144)	200200404020	170727235020	200150603020	200160703020	620777777077	620777777077	200350703144	200100404052
(192)	200321503001	200100404077	200130502000	200160703064	200100404034	170646432032	170727235146	200100404052
(240)	200100404001	200350703077	200211004000	200160703064	001000065150	012000364003	211346102715	211333076724
(288)	211326064736	211316044754	211276023754	211267041750	211246030757	211237032753	211273042760	211256044747
(336)	211254045747	211264070746	211255065745	211271055741	211303062731	211323077736	211316107726	211301044716
(384)	211315054715	211301100724	211305017740	213330013732	213327027721	213335023714	213311036735	213316035722
(432)	213314022707	211337014721	211340020712	211342040712	211337042711	211334072707	211331135707	211360125674
(480)	211346145677	211351157675	211334160702	211340145705	211345155710	211335160712	211332135707	211353141706
(528)	211336152711	211343132715	211343157712	211342143712	211340131674	211343133702	211355144674	211355134670
(576)	211345146663	211357163700	211352153674	211335133675	211325125671	211330112700	211343136712	211333144724
(624)	211336135721	211340151713	211323153707	211327133705	211337145711	211333140707	211323125710	211345134724
(672)	211350122716	211355122717	211356136726	211341117714	211363126724	211350136732	211346134715	211342133713
(720)	211341137721	211333154721	211332151717	211320144712	211327147723	211300143717	211324130715	211332120705
(768)	211364154666	211401136664	211377137671	211372116666	211373104674	211341102712	211344115676	211345135667
(816)	211334130676	211351126701	211344126675	211347106704	211352063704	211347120663	211344153664	211323233650
(864)	211306240670	211310204710	211314206674	211313207671	211313217677	211316210674	211314205674	211332176706
(912)	211327171701	211334165704	211336157707	211325161677	211322170701	211320155700	211336153701	211340144710
(960)	211347164723	211346150713	211344131710	211354134711	211372125712	211410130676	211362120661	211361100646
(1008)	211372072644	211402100645	211365050647	211414043647	211411014640	213426001647	211423021661	211414037657
(1056)	211412041644	211412055652	211424072662	211412075665	211426067702	211424075704	211424075701	211425070674
(1104)	211435073704	211425065667	211433101672	211442120701	211431076701	211435073676	211430066670	211444102673
(1152)	211437072674	211451066701	211447074672	211450067674	211466106663	211460073642	211467051636	211472063651
(1200)	211506061654	211510044652	211500035654	211477063647	211457073651	211455064653	211455070652	211455065643
(1248)	211447060645	211452073636	211462066633	211460070624	211466046627	211501035631	211510020621	213512001617
(1296)	211462040644	211452062652	211434114676	211415100662	211413115671	211420122675	211413110700	211421114704
(1344)	211413074671	211413101676	211375072702	211375102703	211412105713	211410112716	211420100716	211416106703
(1392)	211410113706	211412111704	211413121705	211423123710	211406107712	211401124712	211373125711	211402123714
(1440)	211405115717	211412125721	211406120717	211414127722	211411105724	211372062735	211377067727	211377104726
(1488)	211413073716	211412110720	211423071726	211400046721	211402054722	211377053711	211413032700	211420005705
(1536)	211403016715	211402044725	211372041731	211366051726	211376070731	211402065725	211414077705	211406073712
(1584)	211404074721	211377064716	211402072715	211401102726	211400073720	211377063715	211366071733	211356064725
(1632)	211364104733	211367101731	211372114722	211363105722	211377120730	211373113724	211376132717	211372125717
(1680)	211350125723	211353130724	211357114723	211370122724	211362143723	211362147727	211365135716	211365124715
(1728)	211344145727	211323152727	211331145730	211337151720	211355157723	211335153713	211316156714	211316162714
(1776)	211317145707	211322153714	211331146711	211344131705	211343116672	211362133700	211335127675	211340134703
(1824)	211345152675	211337156711	211330143676	211352156676	211341161674	211344152701	211317227715	211300233712
(1872)	211316213712	211324207710	211323204707	211322164702	211326171717	211307200721	211306226721	211302204714
(1920)	211321170716	211324151726	211344124731	211333137726	211354143717	211335135731	211326164731	211315210727
(1968)	211311171737	211322132725	211346127721	211337124724	211337130716	211344131724	211342131737	211343074727
(2016)	211330057733	211327016726	213325033751	211322025751	211322052765	211332126761	211324161734	211312165723
(2064)	211301152725	211273163745	211300174733	211316151731	211304140733	211305147736	211300157735	211274146742
(2112)	211312154735	211301135735	211300137727	211272137733	211263144736	211272164730	211273143726	211306142737
(2160)	211312154747	211261156746	211253146751	211260146754	211250147746	211262161752	211265146761	211256121760
(2208)	211261125741	211243137750	211245131747	211270106751	211275125722	211303145723	211301163732	211277170747
(2256)	211256143753	211257136760	211274130747	211273135750	211264115746	211252136741	211234144742	211222160750
(2304)	211222143752	211220155752	211227171756	211206170761	211173201763	211170210765	211166204763	211210173775
(2352)	221024017100	221026013100	211301130771	211301110750	211306115754	211323161744	211301172760	
(2400)	211267161762	211263170756	211244177770	211246217766	211226212773	211235222755	211276250735	211276233740
(2448)	211314214734	211314231741	211260224754	211254233756	211245224760	211244220760	211231224766	211223231766
(2496)	211250247754	211240240756	211241250764	211252241752	211257266746	211257235754	211264232742	211272231750
(2544)	211272236742	211253224754	211255170763	211236220767	211251224767	211242236756	211252224763	211246223760

DATAFOLD FORMS, INC.

DUMP OF TAPE BR015

Pioneer 11
D-40312

12/14/74

INPUT TAPE BR015 ON MT5
DATA INPUT 07 NF 1 FL 1 1 1

FILE	1 RECORD	1 LENGTH	4884BYTES					
(0)	000000000001	000000001456	000000000001	000000000534	000000023417	000023014500	236535735505	577140320770
(48)	211537765714	234430707032	615226177510	207506244722	620777777077	170542626020	170212121020	170303030020
(96)	170613030020	170262626020	170262626020	170472323020	170261326020	170743636020	170545426020	170432121020
(144)	170212121020	170613030020	170333333020	170336633020	620777777077	170132626000	170472323077	170613030000
(192)	170542626064	170663333021	170262626751	170542626144	170262626052	170262626000	170262626077	170303030000
(240)	170306130064	170613030021	170663333751	170545426144	001000107570	400000540506	207160473235	207100432274
(288)	207233431300	207233430242	207104454250	207005473246	207122510234	207026477220	207154513260	207122505275
(336)	207054460225	207132437220	207200416254	207114455250	207145455270	207124454211	207103515264	207136457312
(384)	207107472224	207106467240	207133444242	207134451236	207020507243	207064457270	207067476217	207101510212
(432)	207066472213	207104456241	207147421231	207157416217	207116417235	207126465225	207114455236	207106416215
(480)	207114454247	207144520232	207077425223	207144451232	207102442230	207040506230	207104455267	207110500222
(528)	207134452221	207102442227	207131434252	207104455230	207100427245	207152436227	207122441240	207114454267
(576)	207077426256	207131435221	207110476265	207047477223	207136460250	207150473217	207123444275	207127417231
(624)	207155453220	207070433241	207051442226	207142437205	207154520243	207110500225	207154445244	207074460231
(672)	207126465211	207141476237	207145455215	207072447213	207144446241	207044464206	207154444300	207147467224
(720)	207073521234	207133446167	207055463244	207147465243	207131504227	207166456260	207122511252	207150471231
(768)	207121501226	207123516233	207173436250	207206457220	207150471241	207143440264	207156461236	207223432224
(816)	207154447245	207204443232	207134450173	207106466262	207136464246	207175451261	207225447226	207150474263
(864)	207143442241	207121504252	207177461264	207102511232	207152503255	207130473256	207121434260	207172502267
(912)	207134452251	207146461254	207216454232	207210465244	207107471276	207114453214	207072445233	207140426264
(960)	207125456237	207134452253	207103450247	207143443252	207144451245	207160467236	207135457243	207204443235
(1008)	207063451214	207142437240	207122440265	207121433217	207151431237	207135457227	207133441257	207214441226
(1056)	207172432270	207132441230	207126463240	207156461204	207141501244	207154513254	207057501212	207143445210
(1104)	207145453232	207206455216	207152502246	207145456236	207114452226	207127466234	207153443242	207166457266
(1152)	207113514266	207146457240	207174446210	207205520274	207134446262	207147465233	207225443246	207235444267
(1200)	207156461234	207144447244	207250460234	207112442273	207102440265	207225443246	207152432305	207122441251
(1248)	207203435261	207124523253	207163436260	207147464233	207127472257	207105460226	207153437261	203002471311
(1296)	207141476276	207210465255	207113447305	207117471247	207110476314	207111435255	207143444253	207173436233
(1344)	207120500247	207143444301	207103446222	207214441270	207114454227	207125457252	207213433265	207035420230
(1392)	207154444233	207074454251	207062446251	207213432301	207155452247	207166455266	207077473224	207124450221
(1440)	207102442263	207132505250	207157415245	207060504252	207135456230	207125455237	207167461263	207160424244
(1488)	207136463262	207127466251	207163441220	207155403253	207101435236	207212426314	207173435245	207140476247
(1536)	207173440220	207134447262	207124451266	207111505230	207077475264	207136460265	207215447254	207170422255
(1584)	207133442250	207127470246	207162431275	207134451261	207210464233	207077475267	207134451246	207126466230
(1632)	207072443247	207075461304	207161424266	207144520273	207044526304	207125455276	207113447266	207144445256
(1680)	207113444263	207166456250	207114454310	207105463252	207161477314	207160470307	207154445304	207152433303
(1728)	207126465271	207126462262	207166455253	207132440312	207170417266	207143441244	207130424261	207165450265
(1776)	207134447263	207115457263	207121435263	207063453237	207154444253	207164446251	207140475247	207205451257
(1824)	207102442303	207111434257	207125461252	207102442255	207127472240	207076421240	207037547240	207135456267
(1872)	207175450273	207151431242	207206452264	207202432242	207210463265	207173440240	207167415263	207171474246
(1920)	207137466326	207166456271	207146462276	207223434275	207102510274	207176455301	207204441246	207152432274
(1968)	207121502267	207153442241	207176454312	207156461251	207127470277	207172431252	207202432302	207167412263
(2016)	207171476274	207205450260	207106464301	207214441261	207172502270	207221470251	207120431300	207176455304
(2064)	207246445272	207207457303	207135456314	207065462306	207234434300	207133443260	207120424330	207174443251
(2112)	207144446300	207152433242	207166456243	207161425306	207051444257	207260457227	207155453260	207163441247
(2160)	207106467217	207057474250	207146411263	207244433254	207114452217	207140424213	207156461250	207147464224
(2208)	207204443255	207126463214	207167462257	207113514262	207114454244	207103515303	207220462250	207132505235
(2256)	207123445306	207116465246	207230463302	207136462253	207204445223	207156462243	207153441212	207144447217
(2304)	207146463274	207104523242	207112507277	207103450272	207156457310	207105457243	207212475260	207157464272
(2352)	207146462312	207160466305	207202500255	207114452253	207147466306	207230463260	207133445260	207130473252
(2400)	207137467256	207154444255	207100503247	207152503270	207155451270	207112437254	207077472261	207056471317
(2448)	207172433255	207147464277	207076466300	207163442240	207034461262	207114451267	207163436260	207102444273
(2496)	207175447266	207174443265	207144444300	207176453264	207206451302	207177462321	207137467250	207136462250
(2544)	207114454260	207141430260	207162505245	207176457256	207126461261	207261463273	207063454233	207202431234
(2592)	207116464232	207153511300	207037434223	207163440244	207106466246	207135523267	207203370252	207067473301
(2640)	207053453260	207111432306	207122437257	207126460300	207106467254	207063453247	207064455266	207074524251
(2688)	207103445271	207052445301	207103447240	207035470252	207127472224	207105461243	207162501234	207052447305
(2736)	207201422255	207072515246	207131433250	207126465254	207116465272	207144451264	207154445257	207100550267

REQ. AGENT	ACQ. AGENT
CMW	JFC

PIONEER 11

HELIUM VECTOR MAGNETOMETER - 1-MIN CRUISE DATA

73-019A-01J

This data set consists of 1 magnetic tape. The tape were written on 9-track, 6250 bpi, in ASCII format, and labeled 'P11HVM'. There are a total of 138 files on the tape (46 physical files, with a header file and a trailer file). The last 5 physical files contains documentations, description and file formats. The D and C numbers are as follows:

D#	C#	FILES	LABEL	TIME SPAN
D-108256	C-032361	46	P11HVM	04/06/73 - 12/31/76

Directory ANON_DIR:[COHO.P11MAG.MINUTE]

IGHTTIME.P11;2	393	24-JUL-1995	13:55:11.00
M73091.P11;1	2802	18-JUL-1995	17:31:28.00
M73119.P11;1	4208	18-JUL-1995	17:43:14.00
M73154.P11;1	2861	18-JUL-1995	17:45:28.00
M73182.P11;1	3268	18-JUL-1995	17:46:41.00
M73210.P11;1	4152	18-JUL-1995	17:49:32.00
M73245.P11;1	3334	18-JUL-1995	17:50:52.00
M73273.P11;1	4435	18-JUL-1995	17:52:04.00
M73308.P11;1	3354	18-JUL-1995	17:55:07.00
M73336.P11;1	3175	18-JUL-1995	17:57:50.00
M73364.P11;1	233	18-JUL-1995	17:58:56.00
M74001.P11;1	3713	21-JUL-1995	15:56:34.00
M74034.P11;1	2308	21-JUL-1995	15:58:08.00
M74062.P11;1	3077	21-JUL-1995	16:00:57.00
M74090.P11;1	3251	21-JUL-1995	16:03:00.00
M74118.P11;1	4317	21-JUL-1995	16:04:30.00
M74153.P11;1	3474	21-JUL-1995	16:06:33.00
M74181.P11;1	4399	21-JUL-1995	17:19:45.00
M74216.P11;1	3349	21-JUL-1995	16:10:30.00
M74244.P11;1	3767	21-JUL-1995	16:13:57.00
M74272.P11;1	4330	21-JUL-1995	16:16:48.00
M74307.P11;1	2927	21-JUL-1995	16:18:41.00
M74349.P11;1	1927	24-JUL-1995	14:37:15.00
M74363.P11;1	414	21-JUL-1995	16:20:45.00
M75001.P11;1	3748	21-JUL-1995	16:21:56.00
M75033.P11;1	3040	24-JUL-1995	10:44:56.00
M75061.P11;1	2398	21-JUL-1995	16:23:54.00
M75089.P11;1	6234	21-JUL-1995	16:24:54.00
M75152.P11;1	7671	21-JUL-1995	16:26:20.00
M75214.P11;1	5461	21-JUL-1995	16:27:59.00
M75271.P11;1	2638	21-JUL-1995	16:29:19.00
M75306.P11;1	2098	21-JUL-1995	16:30:19.00
M75334.P11;1	2330	21-JUL-1995	16:32:50.00
M76001.P11;1	1380	21-JUL-1995	16:35:37.00
M76036.P11;1	896	21-JUL-1995	16:38:50.00
M76064.P11;1	966	21-JUL-1995	16:40:17.00
M76092.P11;1	2620	21-JUL-1995	16:40:58.00
M76148.P11;1	2192	21-JUL-1995	16:41:55.00
M76204.P11;1	2756	21-JUL-1995	16:42:49.00
M76260.P11;1	2967	21-JUL-1995	16:45:31.00
M76316.P11;1	4751	21-JUL-1995	16:46:21.00
MAGCOORD.DOC;3	38	17-JUL-1995	14:46:59.98
P11HVM_15M.SFD;3	20	1-AUG-1995	14:18:11.10
P11MAGMN.CAT;1	3	1-AUG-1995	14:28:48.39
P11MAGMN.FMT;4	10	2-AUG-1995	15:37:18.04
WOLF.TXT;2	10	1-AUG-1995	14:22:04.71

Total of 46 files, 127695 blocks.

```
FAST ANALYSIS OF TAPE AND RECOVERY -- FATAR   VER 4.3.5   -- INNOVATION DATA PROCESSING  AUTHORIZED   8/17/95   PAGE   1
FATS070 CONTROL CARD TABLE SIZE IS   4096 BYTES

FATAR CONTROL CARDS

   1--     ANALYZE BLP,LABELS=NO,PRTLEN=2000
   2--       PRINT LF=2,B=1-2,CHAR
   3--       PRINT LF=131,B=1-2,CHAR
   4--       PRINT LF=134,B=1-2,CHAR
   5--       PRINT LF=137,B=1-2,CHAR

FATS071 TAPE BUFFER SIZE IS 65535 BYTES
```

D-10256
4/6/73 - 12/31/76

```
                                  CHARACTERISTICS OF THE TAPE TO BE ANALYZED
                                           UNIT  SERIAL  DEN  TRTCH
                                            59B  CMR1    6250

                                              FATAR DETAIL REPORT

 BLOCK  LNGTH/  MESSAGE/                1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
 NUMBER DISPL   BLOCK TYPE                        (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

* * * * * * *  START FILE       1

               FATS038 DATA FILE IN ISCII/ASCII - TRANSLATED TO EBCDIC

* * * * * * *  END OF FILE      1  -- FILE CONTAINED       5 BLOCKS

* * * * * * *  START FILE       2

               FATS038 DATA FILE IN ISCII/ASCII - TRANSLATED TO EBCDIC

      1  2048  PRINT REQUESTED          0035 YR DAY HR MN SC    DELAY (SEC)0030 73 096 07 44 00     0.6410030 73 097 00
       +00080                          00 00     2.4880030 73 098 00 00 00     5.1960030 73 099 00 00 00     7.8990030
       +00160                          73 100 00 00 00    10.5990030 73 101 08 48 00    14.2820030 73 102 00 01 00    1
       +00240                          5.9880030 73 103 00 07 00    18.6880030 73 104 00 59 00    21.4700030 73 105 00
       +00320                          00 00    24.0700030 73 106 00 00 00    26.7520030 73 107 00 00 00    29.4240030
       +00400                          73 108 00 00 00    32.0900030 73 109 00 00 00    34.7470030 73 110 00 01 00    3
       +00480                          7.3950030 73 111 00 01 00    40.0340030 73 112 00 00 00    42.6650030 73 113 00
       +00560                          01 00    45.2840030 73 114 00 00 00    47.8950030 73 115 00 00 00    50.4930030
       +00640                          73 116 00 00 00    53.0830030 73 117 00 03 00    55.6690030 73 118 00 00 00    5
       +00720                          8.2340030 73 119 22 24 59    63.1810030 73 120 22 24 59    65.7270030 73 121 22
       +00800                          24 59    68.2670030 73 122 22 24 59    70.8010030 73 123 22 24 59    73.3290030
       +00880                          73 124 22 24 59    75.8540030 73 125 22 24 59    78.3770030 73 126 22 24 59    8
       +00960                          0.8980030 73 127 22 24 59    83.4190030 73 128 22 24 59    85.9410030 73 129 22
       +01040                          24 59    88.4650030 73 130 22 24 59    90.9930030 73 131 22 24 59    93.5260030
       +01120                          73 132 22 24 59    96.0640030 73 133 22 24 59    98.6110030 73 134 22 24 59   10
       +01200                          1.1670030 73 135 22 24 59   103.7340030 73 136 22 24 59   106.3130030 73 137 22
       +01280                          24 59   108.9070030 73 138 22 24 59   111.5170030 73 139 22 24 59   114.1440030
       +01360                          73 140 22 24 59   116.7920030 73 141 22 24 59   119.4610030 73 142 22 24 59   12
       +01440                          2.1550030 73 143 22 24 59   124.8740030 73 144 22 24 59   127.6220030 73 145 22
       +01520                          24 59   130.4010030 73 146 22 24 59   133.2120030 73 147 22 24 59   136.0580030
       +01600                          73 148 22 24 59   138.9410030 73 149 22 24 59   141.8640030 73 150 22 24 59   14
       +01680                          4.8290030 73 151 22 24 59   147.8380030 73 152 22 24 59   150.8940030 73 153 22
       +01760                          24 59   153.9980030 73 154 22 24 59   157.1520030 73 155 22 24 59   160.3590030
       +01840                          73 156 22 24 59   163.6200030 73 157 22 24 59   166.9370030 73 158 22 24 59   17
       +01920                          0.3110030 73 159 22 24 59   173.7440030 73 160 22 24 59   177.2380030 73 161 22
```