#194 (Con't)

EXPLORER 35

MAGNETOMETER 'A'

67-070A-04A

43 tapes

EXPLORER 35

MAGNETOMETER "A"

67-070A-04A

This data set has been restored. Originally it contained 77 9-track, 800 BPI tapes written in Binary. There are 13 restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on a Varian V73 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
DR02647	DS02647	D10790	1	07/19/67 - 08/10/67
		D10791	2	08/10/67 - 08/25/67
		D10792	3	08/31/67 - 09/21/67
		D10793	4	09/21/67 - 10/12/67
		D10794	5	10/12/67 - 11/02/67
		D10795	6	11/02/67 - 11/23/67
DR02648	DS02648	D10796	1	11/23/67 - 12/14/67
		D10797	2	12/14/67 - 12/31/67
		D10798	3	01/01/68 - 01/03/68
		D10800	4	01/25/68 - 02/15/68
		D10801	5	02/15/68 - 03/07/68
		D10802	6	03/07/68 - 03/27/68
		D10803	7	03/28/68 - 04/18/68
DR02649	DS02649	D10804	1	04/18/68 - 05/09/68
		D10806	2	05/30/68 - 06/19/68
		D10807	3	06/20/68 - 07/11/68
		D10808	4	07/11/68 - 08/01/68
		D10809	5	08/01/68 - 08/22/68
DR02650	DS02650	D10810	1	08/22/68 - 09/12/68
		D10811	2	09/12/68 - 10/03/68
		D10812	3	10/03/68 - 10/24/68
		D10813	4	10/24/68 - 11/14/68
		D10814	5	11/14/68 - 12/05/68
		D10815	6	12/05/68 - 12/15/68

67-070A-04A

DR#	DS#	D#	FILES	TIME SPAN
DR02651	DS02651	D10816	1	12/16/68 - 12/31/68
		D10817	2	01/01/69 - 01/16/69
		D10997	3	02/27/69 - 03/20/69
		D10820	4	03/04/69 - 04/09/69
DR02652	DS02652	D10821	1	04/10/69 - 05/01/69
		D17340	2	05/01/69 - 05/22/69
		D17341	3	05/22/69 - 06/11/69
		D17342	4	06/12/69 - 07/03/69
		D17343	5	07/03/69 - 07/24/69
		D17344	6	07/24/69 - 08/14/69
DR02653	DS02653	D17345	1	08/14/69 - 09/04/69
		D17346	2	09/04/69 - 09/25/69
		D17347	3	09/25/69 - 10/16/69
		D17348	4	11/06/69 - 11/26/69
		D18780	5	11/26/69 - 12/17/69
		D17349	6	01/08/70 - 01/29/70
DR02654	DS02654	D17350	1	01/29/70 - 02/19/70
		D17351	2	02/19/70 - 03/11/70
		D17352	3	03/11/70 - 04/02/70
		D17353	4	04/02/70 - 04/23/70
		D17354	5	04/23/70 - 05/14/70
		D17355	6	05/14/70 - 06/04/70
DR02655	DS02655	D17356	1	06/04/70 - 06/25/70
		D17357	2	06/25/70 - 07/15/70
		D17358	3	07/16/70 - 08/06/70
		D17359	4	08/06/70 - 08/27/70
		D17360	5	08/27/70 - 09/17/70
DR02656	DS02656	D17362	1	10/08/70 - 10/29/70
		D17363	2	10/29/70 - 11/19/70
		D17364	3	11/19/70 - 12/10/70
		D17365	4	12/10/70 - 12/31/70
		D17366	5	01/02/71 - 01/21/71
		D17367	6	01/21/71 - 02/11/71
DR02657	DS02657	D17368	1	02/11/71 - 03/04/71
		D17369	2	03/04/71 - 03/24/71
		D17370	3	03/25/71 - 04/15/71
		D17371	4	04/15/71 - 05/06/71
		D17372	5	05/06/71 - 05/27/71
		D17373	6	05/27/71 - 06/16/71
DR02658	DS02658	D17375	1	07/07/71 - 07/29/71
		D17376	2	07/29/71 - 08/19/71
		D17377	3	09/09/71 - 09/29/71
		D17378	4	10/21/71 - 11/11/71
DR02659	DS02659	D17380	1	12/02/71 - 12/23/71
		D17381	2	01/13/72 - 02/02/72
		D17382	3	02/02/72 - 02/23/72

THE FOLLOWING 7 TAPES WERE MISSING WHEN THIS DATA SET WAS RESTORED: D10799,10805,10818,10819,17361,17374, AND 17379.

REQ. AGENT	RAND NO.	ACQ. AGENT
PAR	RB2684	JHK
ROP	RC2105	

EXPLORER 35

MAGNETOMETER 'A'

67-070A-04A

This data set consists of 76 Explorer 35 Magnetometer data tapes. The tapes were created on the IBM 360 Computer. They are all 800 BPI, Binary, 1 file. The 'D' tapes are 9-track; the 'C' tapes are 7 track.

The format for these tapes is almost identical to that of the Explorer 33 Magnetometer data set. This format can be found on pages 61-64 of the "AIMP D and E Magnetic Field Analysis" document. (B06337-000A)

The time spans for the tapes are as follows:

D#	C#	TIME SPAN
D-10790	C-08137	7/19/67 - 8/10/67
D-10791	C-08138	8/10/67 - 8/25/67
D-10792	C-08139	8/31/67 - 9/21/67
D-10793	C-08140	9/21/67 - 10/12/67
D-10794	C-08141	10/12/67 - 11/02/67
D-10795	C-08142	11/02/67 - 11/23/67
D-10796	C-08143	11/23/67 - 12/14/67
D-10797	C-08144	12/14/67 - 12/31/67
D-10798	C-08145	1/01/68 - 1/03/68
D-10799	C-08146	1/03/68 - 1/25/68
D-10800	C-08147	1/25/68 - 2/15/68
D-10801	C-08148	2/15/68 - 3/07/68
D-10802	C-08149	3/07/68 - 3/27/68
D-10803	C-08150	3/28/68 - 4/18/68
D-10804	C-08151	4/18/68 - 5/09/68

D#	C#	TIME SPAN
D-10805	C-08152	5/09/68 - 5/30/68
D-10806	C-08153	5/30/68 - 6/19/68
D-10807	C-08154	6/20/68 - 7/11/68
D-10808	C-08155	7/11/68 - 8/01/68
D-10809	C-08156	8/01/68 - 8/22/68
D-10810	C-08157	8/22/68 - 9/12/68
D-10811	C-08158	9/12/68 - 10/03/68
D-10812	C-08159	10/03/68 - 10/24/68
D-10813	C-08160	10/24/68 - 11/14/68
D-10814	C-08161	11/14/68 - 12/05/68
D-10815	C-08162	12/05/68 - 12/15/68
D-10816	C-08163	12/16/68 - 12/31/68
D-10817	C-08164	1/01/69 - 1/16/69
D-10818	C-08165	1/16/69 - 2/06/69
D-10819	C-08166	2/06/69 - 2/27/69
D-10997	C-08214	2/27/69 - 3/20/69
D-10820	C-08167	3/20/69 - 4/09/69
D-10821	C-08168	4/10/69 - 5/01/69
D-17340	C-13569	5/01/69 - 5/22/69
D-17341	C-13570	5/22/69 - 6/11/69
D-17342	C-13571	6/12/69 - 7/03/69
D-17343	C-13572	7/03/69 - 7/24/69
D-17344	C-13573	7/24/69 - 7/14/69
D-17345	C-13574	8/14/69 - 9/04/69
D-17346	C-13575	9/04/69 - 9/25/69
D-17347	C-13576	9/25/69 - 10/16/69
D-17348	C-13577	11/06/69 - 11/26/69
D-18780	C-14822	11/26/69 - 12/17/69
D-17349	C-13578	1/08/70 - 1/29/70

D#	C#	TIME SPAN
D-17350	C-13579	1/29/70 - 2/19/70
D-17351	C-13580	2/19/70 - 3/11/70
D-17352	C-13581	3/11/70 - 4/02/70
D-17353	C-13582	4/02/70 - 4/23/70
D-17354	C-13583	4/23/70 - 5/14/70
D-17355	C-13584	5/14/70 - 6/04/70
D-17356	C-13585	6/04/70 - 6/25/70
D-17357	C-13586	6/25/70 - 7/15/70
D-17358	C-13587	7/16/70 - 8/06/70
D-17359	C-13588	8/06/70 - 8/27/70
D-17360	C-13589	8/27/70 - 9/17/70
D-17361	C-13590	9/17/70 - 10/08/70
D-17362	C-13591	10/08/70 - 10/29/70
D-17363	C-13592	10/29/70 - 11/19/70
D-17364	C-13593	11/19/70 - 12/10/70
D-17365	C-13594	12/10/70 - 12/31/70
D-17366	C-13595	1/02/71 - 1/21/71
D-17367	C-13596	1/21/71 - 2/11/71
D-17368	C-13597	2/11/71 - 3/04/71
D-17369	C-13598	3/04/71 - 3/24/71
D-17370	C-13599	3/25/71 - 4/15/71
D-17371	C-13600	4/15/71 - 5/06/71
D-17372	C-13601	5/06/71 - 5/27/71
D-17373	C-13602	5/27/71 - 6/16/71
D-17374	C-13603	6/17/71 - 7/07/71
D-17375	C-13604	7/07/71 - 7/29/71
D-17376	C-13605	7/29/71 - 8/19/71
D-17377	C-13606	9/09/71 - 9/29/71

D#	C#	TIME SPAN
D-17378	C-13607	10/21/71 - 11/11/71
D-17379	C-13608	11/11/71 - 12/01/71
D-17380	C-13609	12/02/71 - 12/23/71
D-17381	C-13610	1/13/72 - 2/02/72
D-17382	C-13611	2/02/72 - 2/23/72

67-070A-04A

FORMAT OF AIMP SUMMARY DATA TAPES

The AIMP summary data tapes are produced on an IBM 360 computer. They are 9-track, 1600 BPI binary tapes that will contain one file of data unless otherwise specified, with standard IBM 360 integer and real single and double precision 32-bit words. Each logical record on the tapes contains summary magnetic field data from one telemetry sequence. The tapes are system blocked with 4 logical records to a physical record.* Each logical record contains 19 double precision words and 232 single precision words for the AIMP D tapes (for a total of 270 32-bit words or 1080 bytes) and 19 double precision words and 235 single precision words for the AIMP E tapes (for a total of 273 32-bit words or 1092 bytes). The physical record length is then a factor of 4 larger in each case. On IBM 360 these tapes can be read one logical record at a time using the appropriate DCB parameters in the DD specifications for that input unit. An example of this for AIMP E tapes is as follows:

DCB = (,BLKSIZE = 4388, LRECL = 1096, RECFM = VB).

The format of each logical record is given below.

Quantity	Word No.	Single or Double Precision	Integer or Real
1. Decimal day of sequence†	1-2	1D (double)	R (real)
2. Hour of sequence	3	1S (single)	I (integer)
3. Minute of sequence	4	1S	R
4. Sequence number (clock)	5	1S	I
5. Year	6	1S	I
6. Spin period (seconds)	7-8	1D	R
7. Optical aspect time (seconds)	9-10	1D	R
8. Spin axis right ascension (deg. solar ecliptic)	11	1S	R

*This applies to all summary tapes after the smoothing stage of processing (See Section II C).
†The sequence decimal day time that is written on the summary tapes is actually the time at the center of the GSFC Magnetometer sampling interval in the sequence. It is the time of frame 0, Channel 0 + 39.4671 seconds.

Quantity	Word No.	Single or Double Precision	Integer or Real
9. Spin axis declination (deg.-SE)	12	1S	R
10. Spin axis right ascension (deg. solar magnetospheric)	13	1S	R
11. Spin axis declination (deg.-SM)	14	1S	R
12. 16 sample times (sec. since beginning of year)	15-46	16D	R
13. 16 values of magnetic field magnitude (gammas)	47-62	16S	R
14. Sequence average field magnitude (gammas)	63	1S	R
15. Magnitude standard deviation (gammas)	64	1S	R
16. F Ratio*	65	1S	I
17. 16 values of BX_A† (gammas)	66-81	16S	R
18. 16 values of BY_A	82-97	16S	R
19. 16 values of BZ_A	98-113	16S	R
20. 16 values of BX_p† (payload coord. components-gammas)	114-129	16S	R
21. 16 values of BY_p	130-145	16S	R
22. 16 values of BZ_p	146-161	16S	R
23. Sequence average $(BX, BY, BZ)_p$ components (gammas)	162-164	3S	R
24. $(X, Y, Z)_p$ RMS deviations (gammas)	165-167	3S	R

*This magnitude ratio is defined by

$$\text{F RATIO} = \left(\frac{\text{sequence total field RMS deviation}}{\text{sequence average total field magnitude}}\right) \times 100.$$

†The $(BX, BY, BZ)_A$ components are relative to the triaxial magnetometer sensor coordinate axes rotating with the spacecraft. Payload components $(BX, BY, BZ)_p$ are relative to a fixed frame of reference centered in the spacecraft with the Z axis along the spin axis and the X axis in the plane defined by the spin axis and the satellite-sun vector.

Quantity	Word No.	Single or Double Precision	Integer or Real
25. θ_p, Ψ_p (payload field latitude and azimuth - deg.)	168-169	2S	R
26. 16 values of BX_{SE} (solar ecliptic components-gammas)	170-185	16S	R
27. 16 values of BY_{SE}	186-201	16S	R
28. 16 values of BZ_{SE}	202-217	16S	R
29. Sequence average (BX, BY BZ)$_{SE}$ components (gammas)	218-220	3S	R
30. (X, Y, Z)$_{SE}$ RMS deviations (gammas)	221-223	3S	R
31. C Ratio*	224	1S	I
32. θ_{SE}, ϕ_{SE} (SE field latitude and azimuth-deg.)	225-226	2S	R
33. 16 values of Y_{SM} (solar magnetospheric components-gammas)	227-242	16S	R
34. 16 values of Z_{SM}	243-258	16S	R
35. Sequence average (Y, Z)$_{SM}$ components (gammas)	259-260	2S	R
36. Data quality flag	261	1S	I
37. Experiment flags 12 A, B	262-263	2S	I
38. No. of digitized data points in sequence.	264	1S	I
39. Satellite position (X, Y, Z)$_{SE}$ (R_E)	265-267	3S	R
40. Satellite position (Y, Z)$_{SM}$ (R_E)	268-269	2S	R

*Component ratio is defined by

$$\text{C RATIO} = \left(\frac{\text{sum of component RMS deviations}}{3\sqrt{\overline{BX}^2 + \overline{BY}^2 + \overline{BZ}^2}}\right) \times 100,$$

$\overline{BX}$, $\overline{BY}$ and $\overline{BZ}$ are the sequence average solar ecliptic coordinate field components.

Quantity	Word No.	Single or Double Precision	Integer or Real
If AIMP D tape:			
41. Sequence ID (1, 2, 3 or 4)	270	1S	I
If AIMP E tape:			
41. Selenocentric satellite position $(X, Y, Z)_{SSE}$ (R_L)	270-272	3S	R
42. Sequence ID (1, 2, 3 or 4)	273	1S	I

113FEF9CC127126DC16A8F5AC1553F7B4071A9FA4158CCCB415C5A1B4111C28F41144D01C1464SA1C1658105C13388654127
0A3D41658105414FA43FC04AF4F0C152C3C9C15C2267C1176C8B4140068D4162617B412A29C7C1270A3DC152C3C9411F3888
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FB17412F076141271FF5417459 7B4170636F4164033 8416999 52416FFFBE41693F2741674C22416F455C41675B2A41600FEC
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4117511C411F3888411F388841232C3E41232C3E411F38884117511C411F388841271FF54132FB174132FB17412F07614127
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417018CA4169583541676861416F6198416774394160229C4168046141 67A120415E0395415918 29415E2698414E851A4116
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417D0F5AD92F469E41822C51D92F469E41874948D92F469E418C6640D92F469E41918337D92F4168E36941702FA941676064
41636A894165F132415CC483415BA72441666DB341674160416781014166223A41663465415 8CD18415302CC41599D6F415A
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2FB294D0469E41B54CAA94D0469E41BA69A194D0469E41BF869994D0469E41C4A39094D0469E41C9C08794D0469E41CEDD7F
94D0469E41D3FA7694D0469E41D9176D94D0469E41DE346594D0469E41E3515C94D0415B7496416362 3F416F53AF4168979B
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69824053A2390000000 5C038D4FD414A978C416A8F5A4131BA5DC13547ADC167020AC13FEF9C4111C28F4151B22B415C5A1B
412A9FBDC12E2D0DC167020AC13FEF9C411FF7CE415FE76A4155E3534139C779C1112D77C15902DDC14FA43FC07CED90414C
84B5415902DD412D4951C11A8C15C14FA43FC14FA43FC07CED904149652B415902DD41112D77411F3888411F3888411B44D2
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