

Data Set Catalog # 214

Explorer 35 Magnetometer
67-070A-04B 10 tapes

81 second time resolution data
(Extracted From Explorer 35, 67-070A-04A)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

SPHE - 00615

IMP-E

82 SEC VR MAG FLD DATA ON TAPE

67-070A-04B

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 21 9-TRACK, 1600 BPI TAPES, WRITTEN IN BINARY. THERE ARE THREE RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN	
-----	-----	-----	-----	-----	
DR03860	DS03860	D11558	1	07/19/67 - 09/21/67	
		D11559	2	09/21/67 - 12/14/67	a
		D11560	3	12/14/67 - 02/15/68	b
		D11561	4	02/15/68 - 04/17/68	
		D11562	5	04/18/68 - 06/19/68	
		D11563	6	06/20/68 - 08/22/68	c
		D11564	7	08/22/68 - 10/24/68	
		D11565	8	10/24/68 - 12/31/68	
DR03861	DS03861	D11566	1	01/01/69 - 02/27/69	d
		D11567	2	02/27/69 - 05/01/69	e
		D17731	3	05/01/69 - 07/24/69	
		D17732	4	07/24/69 - 10/12/69	
		D17733	5	11/06/69 - 03/11/70	
		D17734	6	03/12/70 - 06/04/70	
		D17735	7	06/04/70 - 08/27/70	
		D17736	8	08/27/70 - 11/19/70	f
DR03862	DS03862	D17737	1	11/19/70 - 02/11/71	
		D17738	2	02/11/71 - 05/06/71	
		D17739	3	05/06/71 - 07/28/71	
		D17740	4	07/28/71 - 12/01/71	
		D17741	5	12/01/71 - 02/23/72	

*ERRORS

a RECORDS 879, 1119, 1417; FILE 1
b RECORDS 2685; FILE 1
c RECORDS 1; FILE 1
d RECORDS 246, 1870; FILE 1
e RECORDS 1160, 2430; FILE 1
f RECORDS 1; FILE 1

REQ AGENT

WTJ
ROP

RAND NO.

RB3299
RC2741

ACQ. AGENT

JHK

EXPLORER 35 MAGNETOMETER

82 SEC. AVERAGE DATA

67-070A-04B

(EXTRACTED FROM DATA SET 67-070A-04A)

This data set consists of 21 data tapes that were produced on the IBM 7094 computer. They are 7 track, 800 BPI, binary tapes that contain one file of data. These tapes are blocked 20 logical records per physical record. Each logical record contains 46, 36 bit words. The time is found in the first word of each logical record, where day 0 equals January 1st.

Although individual data files of the experimenter supplied data set (67-070A-04A) had no time overlap periods, there was often some overlap between successive files. Because data from several files of the experimenter's tapes are found on each of this set (04B), there is some time overlap within each tape (file) of this data set.

The last physical record may be filled with data from the previous record. The last meaningful logical record in that case will be followed by a logical record with the value, -1, in the time field.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-11558	C-08852	07/19/67 - 09/21/67
D-11559	C-08853	09/21/67 - 12/14/67
D-11560	C-08854	12/14/67 - 02/15/68
D-11561	C-08855	02/25/68 - 04/17/68
D-11562	C-08856	04/18/68 - 06/19/68
D-11563	C-08857	06/20/68 - 08/22/68
D-11564	C-08858	08/22/68 - 10/24/68
D-11565	C-08859	10/24/68 - 12/31/68
D-11566	C-08860	01/01/69 - 02/27/69
D-11567	C-08861	02/27/69 - 05/01/69
D-17731	C-14051	05/01/69 - 07/24/69
D-17732	C-14052	07/24/69 - 10/16/69
D-17733	C-14053	11/06/69 - 03/11/70
D-17734	C-14054	03/12/70 - 06/04/70
D-17735	C-14055	06/04/70 - 08/27/70
D-17736	C-14056	08/27/70 - 11/19/70
D-17737	C-14057	11/19/70 - 02/11/71
D-17738	C-14058	02/11/71 - 05/06/71
D-17739	C-14059	05/06/71 - 07/29/71
D-17740	C-14060	07/29/71 - 12/01/71
D-17741	C-14061	12/01/71 - 02/23/72

QUANTITY	WORD NO.	SINGLE OR DOUBLE PRECISION	INTEGER OR REAL
1. Decimal day of sequence	1	1S (Single)	R (Real)
2. Hour of sequence	2	1S	I (Integer)
3. Minute of sequence	3	1S	R
4. Sequence number (Clock)	4	1S	I
5. Year	5	1S	I
6. Spin period (seconds)	6	1S	R
7. Optical Aspect time (sec.)	7	1S	R
8. Spin axis right ascension (deg. Solar Ecliptic)	8	1S	R
9. Spin axis declination (deg. - SE)	9	1S	R
10. Spin axis right ascension (Deg. Solar Magnetospheric)	10	1S	R
11. Spin axis declination (deg. - SM)	11	1S	R
12. Sequence Average Field Magnitude (gammas)	12	1S	R
13. Magnitude Standard Deviation (gammas)	13	1S	R
14. F Ratio *	14	1S	I
15. Sequence Averages (BX, BY, BZ), payload coords. (gammas)	15-17	3S	R
16. (X,Y,Z) RMS deviations (gammas)	18-20	3S	R
17. Payload Field Latitude and Azimuth-deg.	21-22	2S	R
18. Sequence Average (BX, BY, BZ), S.E. coords. (gammas)	23-25	3S	R
19. (X,Y,Z) _{se} RMS deviations (gammas)	26-28	3S	R

QUANTITY	WORD NO.	SINGLE OR DOUBLE PRECISION	INTEGER OR REAL
20. C Ratio **	29	1S	I
21. SE Field Latitude and azimuth-deg.	30-31	2S	R
22. Sequence average (BY,BZ) _{sm} SM coords. (gammas)	32-33	2S	R
23. Data quality flag	34	1S	I
24. Experiment flags 12 A,B	35-36	1S	I
25. No. of digitized data points	37	1S	I
26. Satellite position (X,Y,Z) _{se} (Re)	38-40	3S	R
27. Satellite position (Y,Z) _{sm} (Re)	41-42	2S	R
28. Selenocentric satellite position (X,Y,Z) _{SSE} (RL)	43-45	3S	R
29. Sequence ID (1,2,3,or 4)	46	1S	I

* This magnitude ratio is defined by:

$$F \text{ Ratio} = \left(\frac{\text{Sequence total field RMS deviations}}{\text{Sequence average total field magnitude}} \right) \times 100$$

** This component ratio is defined by:

$$C \text{ Ratio} = \left(\frac{\text{Sum of components RMS deviations}}{3\sqrt{\overline{BX^2} + \overline{BY^2} + \overline{BZ^2}}} \right) \times 100$$

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

TO LOCATE TIME SPAN:

REAL NUMBERS (R) NEED TO BE CONVERTED BY THIS METHOD:

EX. 210617174741

↓
HOW MANY BITS (IN OCTAL) ARE NEEDED. $10_8 = 8_{10}$

6 1 7
110 001 111

COUNT OVER 8 BITS

11000111
↓ ↓ ↓
3 0 7₈

COUNT BACK THREE BITS (CONVERTS BITS TO CHARACTERS)

307₈ IS CONVERTED FROM OCTAL TO DECIMAL GIVING THE JULIAN DAY 199₁₀

INTEGER NUMBERS (I) ARE SIMPLY CONVERTED FROM OCTAL TO DECIMAL .

EX 103₈

63₁₀

START 7/19/67

STOP 9/21/67

DOPE OF D-11558

0001	001630000001	210617174741	000000000016	206675455040	000000033700	000000000103	202420542305	206522427500
0049	202422254701	574746076710	202425540500	577443241640	207627775420	204473631370	000000000012	206530375440
0097	507410414620	206740335040	205460216100	205427452603	163500000000	206452123000	211457044400	203400262020
0145	207471020200	206746155040	205400414100	204454235740	205437034400	000000000017	206456277500	207534214720
0193	207506345200	206700617300	000000000000	000000000010	000000000014	000000000012	602572777000	202632414700
0241	575767036100	202621436240	601470243600	207522663540	607500142500	204713256520	000000000001	210617175722
0289	000000000016	206710375400	000000033701	000000000103	202420542305	206522427600	202422254701	574746076710
0337	202425540500	577443241640	207646555340	204406632620	000000000010	206621646000	607405171620	206740335040
0385	205547611600	205444713503	163500000000	206440546740	211463440500	204501400310	207510133340	206735370600
0433	205457234700	204541716430	205457132500	000000000020	206436517640	207514043420	207525235320	206666240500
0481	000000000000	000000000010	000000000014	000000000016	602600167600	202631647340	576406545640	202620670740
0529	601470243600	207522247500	607500065760	204712773740	000000000002	210617176702	000000000016	206723316340
0577	000000033702	000000000103	202420542305	206522427600	202422254701	574746076710	202425540500	577443241640
0625	207651623760	203751065000	000000000007	206604501740	607412644340	206740335040	205602146300	205474241103
0673	163500000000	206440272000	211462040700	204425001440	207505020260	206751077540	205505455500	204571306560
0721	205510005700	000000000021	206446333200	207517532400	207522402740	206702225240	000000000000	000000000010
0769	000000000014	000000000020	602605360400	202631102000	576421674440	202620123400	601470243600	207521633420
0817	607500011220	204712511170	000000000003	210617177663	000000000016	206736237300	000000033703	000000000103
0865	202420577342	206510165640	202422254701	574746076710	202425540500	577443241640	207651550120	203742556660
0913	000000000007	206651216400	606766055500	206740335040	205607422600	205505150203	163500000000	206441050540
0961	211466207600	204620457660	207515601440	206710206340	205512055200	204575623650	205521104600	000000000022
1009	206420353100	207505675040	207532201560	206640373000	000000000000	000000000010	000000000014	000000000020
1057	602612551240	202630334440	576435023340	202617356040	601470243600	207521217360	607477734500	204712226410
1105	000000000004	210617200643	000000000017	201447012000	000000033704	000000000103	202420577342	206510165640
1153	202422254701	574746076710	202425540500	577443241640	207651477640	203744704560	000000000007	206600544140
1201	607416410140	206740335040	205567435200	205445276403	163500000000	206437112300	211461324100	204407572450
1249	207504171160	206760511640	205474473500	204561724610	205460310700	000000000020	206452341740	207520615660
1297	207521734340	206711706040	000000000000	000000000010	000000000014	000000000020	602617742040	202627567100
1345	576450152140	202616610500	601470243600	207520603320	607477657740	204711743630	000000000001	210617201624
1393	000000000017	202502023600	000000033705	000000000103	202420577342	206510165640	202422254701	574746076710
1441	202425540500	577443241640	207624554660	203460170000	000000000007	206564270200	607417707020	206740335040
1489	205606115000	205442441503	163500000000	206440565400	211460315600	203722474640	207473247200	206755645500
1537	204434315740	203564114120	204411446420	000000000021	206456305100	207524163300	207516642740	206715352540
1585	000000000002	000000000143	000000000143	000000000012	602625132640	202627021540	576463301000	202616043140
1633	601470243600	207520167240	607477603220	204711461050	000000000006	210617205525	000000000017	203776047300
1681	000000033711	000000000103	202420577342	206510165640	202422254701	574746076710	202425540500	577443241640
1729	206527723740	201630401700	000000000002	205435332600	605716076400	205616652100	204626576060	204411262050
1777	161400000000	206442237640	211455547000	202467225240	206410413040	205636333000	203637156420	203404153060
1825	203453266600	000000000024	206472113540	207534407660	206420244600	205613245300	000000000000	000000000010
1873	000000000014	000000000020	602652075640	202624173740	576540034100	202617215400	601470243600	207516107000
1921	607477320460	204710146160	000000000006	210617206506	000000000017	204452526340	000000033712	000000000103
1969	202420577342	206510165640	202422254701	574746076710	202425540500	577443241640	207644022620	200752647660
2017	000000000001	206567303600	607421477740	206740335040	206421323400	205546646603	163500000000	206437161700
2065	211460345200	203642567420	207500160640	206777043400	204776064510	204445652770	204620434720	000000000027
2113	206457115440	207523303700	207517661240	206720542200	000000000000	000000000010	000000000014	000000000020
2161	602657266440	202623426400	576553162700	202612450100	601470243600	207515472760	607477243720	204707663400
2209	000000000007	210617207466	000000000017	204526232100	000000033713	000000000103	202420631351	206526617540
2257	202422254701	574746076710	202425540500	577443241640	207641706220	201652153400	000000000001	206516074700
2305	607443204540	206740335040	206411271600	205470106103	163500000000	206434512440	211453654600	202513247600
2353	207467221020	207414174060	204700311260	204411616760	204462610510	000000000025	206506550000	207537347040
2401	207507066440	206766374440	000000000000	000000000010	000000000014	000000000020	602664457300	202622661040
2449	576556311540	202611702540	601470243600	207515056700	607477167200	204707400620	000000000010	210617210447
2497	000000000017	204601735640	000000033714	000000000103	202420631351	206526617540	202422254701	574746076710
2545	202425540500	577443241640	207644562500	202563613700	000000000001	205727307100	607465155240	206740335040
2593	206453353340	205431616103	163500000000	206437641300	211442671600	603563551320	207443043460	207440244660
2641	205445143100	204541556010	204476603610	000000000027	206550750740	207577575400	207457130000	207420336140
2689	000000000000	000000000010	000000000014	000000000017	602671650040	202622113500	576601440340	202611135200
2737	601470243600	207514442640	607477112440	204707116040	000000000005	210617211427	000000000017	204655441400
2785	000000033715	000000000103	202420631351	206526617540	202422254701	574746076710	202425540500	577443241640
2833	207642363420	202404226340	000000000001	205743454400	607467255440	206740335040	206447425400	204710337600
2881	163500000000	206435631500	211443161400	604444744360	207433047500	207447323020	205400021600	204467405310
2929	203715525620	000000000025	206551250240	207575450240	207461043600	207422251200	000000000000	000000000010

2977	000000000014	000000000020	602677040700	202621346140	576614567200	202610367640	601470243600	207514026600
3025	607477035720	204706633260	000000000006	210617212407	000000000017	204731145140	000000033716	000000000103
3073	202420631351	206526617540	202422254701	574746076710	202425540500	577443241640	207637175220	202406500140
3121	000000000003	205542352500	607500513420	206740335040	206423627700	204567413130	163500000000	206436522600
3165	211435345600	604553314660	207425476160	207452175700	204664072030	204415760100	203423634720	000000000023
3217	206573430740	207625225240	207441033020	207435620160	000000000000	000000000010	000000000014	000000000020
3265	602704231500	202620600600	576627716000	202607622300	601470243600	207513412520	607476761160	204706350500
3313	000000000007	210617213370	000000000017	205402324300	000000033717	000000000103	202420651617	206515374400
3361	202422254701	574746076710	202425540500	577443241640	207631633600	202535076600	000000000007	205650644700
3405	607467731760	206740335040	205736252700	204545721220	163500000000	206440572200	211440633000	604574300670
3457	207424142100	207450762360	203714621660	203442670320	202630224640	000000000021	206557223100	207610106720
3505	207451240220	207423731220	000000000000	000000000010	000000000014	000000000020	602711422300	202620033200
3553	576643044640	202607055000	601470243600	207512776460	607476704440	204706065730	000000000010	210617214350
3601	000000000017	205430166200	000000033720	000000000103	202420651617	206515374400	202422254701	574746076710
3649	202425540500	577443241640	207633127720	202506225340	000000000006	205551410200	607477060520	206740335040
3697	205725064100	204623455350	163500000000	206437250700	211435640500	604561405040	207425012320	207450314320
3745	204447000170	203540672360	203605702000	000000000021	206571705300	207623750240	207441626640	207434076000
3793	000000000000	000000000010	000000000014	000000000020	602716613100	202617265640	576656173500	202606307440
3841	601470243600	207512362420	607476627700	204705603150	000000000005	210617215331	000000000017	205456030100
3889	000000033721	000000000103	202420651617	206515374400	202422254701	574746076710	202425540500	577443241640
3937	207642376740	202425200740	000000000001	205603752400	607474352000	206740335040	206456715340	204625575560
3985	163500000000	206437607300	211437024200	604633703360	207421767440	207455353660	205406411500	204501252640
4033	203646715100	000000000025	206565630100	207616752020	207444766040	207431031720	000000000000	000000000010
4081	000000000014	000000000020	602724003640	202616520300	576671322240	202605542100	601470243600	207511746360
4129	607476553160	204705720370	000000000006	210617216311	000000000017	205503671700	000000033722	000000000103
4177	202420651617	206515374400	202422254701	574746076710	202425540500	577443241640	207642562020	202440542300
4225	000000000002	204645533600	607513464220	206740335040	206437131040	204431317530	163500000000	206434513540
4273	211427020200	605522170200	206773171600	207470360360	205406136000	204510334410	203435431700	000000000023
4321	206615025740	207661724560	207417241360	207453072040	000000000000	000000000010	000000000014	000000000020
4369	602731174500	202615752740	576704451100	202604774540	601470243600	207511332300	607476476420	204705035610
4417	000000000007	210617221232	000000000017	205605236400	000000033725	000000000103	202420667741	206525437700
4465	202422254701	574746076710	202425540500	577443241640	207636751160	203407323400	000000000007	204434402150
4513	607504563660	206735243240	205776566600	204477710270	201601625000	206441154100	211424177700	605610510200
4561	206745772700	207466542760	205433437500	204527643060	203465423540	000000000022	206615303640	207700220040
4609	207403774300	207445513420	000000000000	000000000010	000000000014	000000000020	602750746700	202613672500
4657	576746055400	202602714340	601470243600	207507666120	607476270420	204704005500	000000000006	210617222213
4705	000000000017	205633100300	000000033726	000000000103	202420667741	206525437700	202422254701	574746076710
4753	202425356200	577437573600	207634151340	202532500600	000000000005	204745551630	607510145040	206735050540
4801	205747414400	204546147020	201637357200	206434331340	211430366100	605503704400	206774027000	207465123560
4849	204560567630	203717162340	203501030620	000000000021	206612163440	207653551000	207510610160	206722103340
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