

Data Set Catalog # 207

Explorer 33 Magnetometer
66-058A-01C 15 tapes

81 second time revolution data
(extracted from Explorer 33, 66-058A-01A)

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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 00536

IMP-D

82 SECOND VECTOR MAGFLD DATA ON TAPE

66-058A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 15 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE 3 RESTORED TAPES. THE TAPES WERE CREATED ON A 7094 COMPUTER. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR03558	DS03558	D11296	1	07/10/66 - 09/10/66
		D11297	2	09/10/66 - 11/19/66
		D11298	3	11/19/66 - 01/28/67
		D11299	4	01/28/67 - 03/25/67
		D11300	5	03/25/67 - 06/03/67
DR03559	DS03559	D11301	1	06/03/67 - 07/29/67
		D11302	2	07/29/67 - 09/02/67
		D11303	3	09/02/67 - 10/21/67
		D11304	4	10/21/67 - 12/16/67
		D11305	5	12/16/67 - 02/23/68
DR03560	DS03560	D11306	1	02/24/68 - 04/07/68
		D11307	2	04/07/68 - 05/19/68
		D11308	3	05/19/68 - 06/23/68
		D11309	4	06/23/68 - 08/04/68
		D11310	5	08/04/68 - 10/06/68

Reg. Agent

WTJ

RASH NO
R32511
FORMAT

66-058A-01C

Acq. Agent
JHK

EXPLORER 33 MAGNETOMETER - 81 SEC AVERAGE DATA

(EXTRACTED FROM DATA SET 66-058A-01A)

This data set consists of 15 data tapes that were produced on the IBM 7094. They are 7 track, 800 BPI, binary tapes that contain 1 file. These tapes are blocked 20 logical records per physical record. Each logical record contain 43,36 bit words. The time is found in the first word of each logical record where day 0 = January 1st.

Although individual data files of the experimenter supplied data set (66-058A-01A) 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 tape of this data set (01C), there is some time overlap within each tape (file) of this data set.

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-11296	C-08465	7/01/66	9/10/66
D-11297	C-08466	9/10/66	11/19/66
D-11298	C-08467	11/19/66	1/28/67
D-11299	C-08468	1/28/67	3/25/67
D-11300	C-08469	3/25/67	6/03/67 ✓
D-11301	C-08470	6/03/67	7/29/67
D-11302	C-08471	7/29/67	9/02/67
D-11303	C-08472	9/02/67	10/21/67
D-11304	C-08473	10/21/67	12/16/67
D-11305	C-08474	12/16/67	2/23/68
D-11306	C-08475	2/24/68	4/07/68
D-11307	C-08476	4/07/68	5/19/68
D-11308	C-08477	5/19/68	6/23/68
D-11309	C-08478	6/23/68	8/04/68
D-11310	C-08479	8/04/68	10/06/68

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} (R _e)	38-40	3S	R
27. Satellite position ✓ (Y,Z) _{sm} (R _e)	41-42	2S	R
28. Sequence ID (1,2,3 or 4)	43	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:

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

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

0001	001534000001	210553275535	000000000020	205653654400	000000125324	000000000102	212763400000	212763400000
0049	212763400000	212763400000	212763400000	212763400000	207666317600	203567370400	000000000005	212763400000
0097	212763400000	212763400000	000000000000	000000000000	033400000000	206432070740	206547775340	212763400000
0145	212763400000	212763400000	000000000000	000000000000	000000000000	000000000000	206432070740	206547775340
0193	212763400000	212763400000	000000000000	000000000013	000000000014	000000000014	212763400000	212763400000
0241	212763400000	212763400000	212763400000	000000000001	210553276515	000000000020	205701514000	000000125325
0289	000000000102	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	207673521300
0337	201574405400	000000000001	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000
0385	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000
0433	000000023417	212763400000	212763400000	212763400000	212763400000	000000000000	000000000013	000000000014
0481	000000000143	212763400000	212763400000	212763400000	212763400000	212763400000	000000000002	210553277476
0529	000000000020	205727363000	000000125326	000000000102	212763400000	212763400000	212763400000	212763400000
0577	212763400000	212763400000	207672664460	201750711600	000000000002	212763400000	212763400000	212763400000
0625	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000
0673	212763400000	212763400000	212763400000	000000023417	212763400000	212763400000	212763400000	212763400000
0721	000000000000	000000000013	000000000014	000000000143	212763400000	212763400000	212763400000	212763400000
0769	212763400000	000000000003	210553300456	000000000020	205755222400	000000125327	000000000102	202436540620
0817	206525225700	202441234400	575426634400	202441601200	576404735740	207661345220	203615524140	000000000006
0865	206547674000	607422705540	605527315600	205666125100	205476603700	206724257040	604724473360	211457152600
0913	206603051500	205437301000	207415470020	206504300400	206613357640	205540671600	000000000054	206644352500
0961	205505657200	205561570600	207407451060	000000000000	000000000013	000000000014	000000000016	603422012240
1009	203450333220	577732342360	203445164720	600650070000	000000000004	210553301436	000000000020	206401431000
1057	000000125330	000000000102	202436540620	206525225700	202441234400	575426634400	202441601200	576404735740
1105	207661225420	203574702140	000000000005	206606321500	607407360220	206764377000	205664722300	205473616703
1153	161400000000	206452627640	211462422100	601774506400	207523170440	206725030600	205521522200	204772463460
1201	205517235600	000000000023	206425144300	207555277120	207544500320	206640006700	000000000000	000000000013
1249	000000000014	000000000014	603425254060	203447434400	577740015700	203444266100	600646555120	000000000001
1297	210553302417	000000000020	206414350600	000000125331	000000000102	202436540620	206525225700	202441234400
1345	575426634400	202441601200	576404735740	207662561360	202724152440	000000000003	206627405540	606771764340
1393	206764377000	205704206200	205553567003	161400000000	206454702400	211464662000	577526635400	207527557640
1441	206677155140	205535414600	205401301200	205601211200	000000000024	206410273740	207550711240	207550205560
1489	206611417440	000000000000	000000000013	000000000014	000000000020	603430515700	203446535560	577745471240
1537	203443367260	600645242230	000000000002	210553303377	000000000020	206427274200	000000125332	000000000102
1585	202436540620	206525225700	202441234400	575426634400	202441601200	576404735740	207665313360	202561367300
1633	000000000003	206643644300	606757206200	206764377000	205730266700	205605631203	161400000000	206455013540
1681	211466223000	200665350000	207533106360	206663664100	205555034100	205413626400	205634324400	000000000025
1729	206400745340	207545574560	207553171360	206575524240	000000000000	000000000013	000000000014	000000000020
1777	603433757520	203445636740	577753144600	203442470440	600643727340	000000000003	210553304360	000000000020
1825	206442214000	000000125333	000000000102	202436643136	206523312300	202441052040	575426634400	202441601200
1873	575764327201	207661530540	203471332660	000000000005	206624130640	606771537240	206764377000	205677006300
1921	205562305503	161400000000	206455527640	211464504400	600410705200	207526500600	206677143640	205531753600
1969	204773475060	205607012700	000000000024	206411013740	207551304700	207545143600	206615531240	000000000000
2017	000000000013	000000000014	000000000020	603437221360	203444740120	577756115160	203441571600	600642414440
2065	000000000004	210553305340	000000000020	206455133600	000000125334	000000000102	202436643136	206523312300
2113	202441052040	575426634400	202441601200	575764327201	207663764400	202600236540	000000000003	206547724350
2161	607417325040	206764377000	205745361500	205515545503	161400000000	206454336500	211457401000	603466645440
2209	207512071140	206746543100	205567563400	205430137500	205544702200	000000000025	206442625540	207565361400
2257	207532066200	206666631700	000000000000	000000000013	000000000014	000000000020	603442463200	203444041300
2305	577760742740	203440672760	600641101550	000000000001	210553306321	000000000020	206470057200	000000125335
2353	000000000102	202436643136	206523312300	202441052040	575426634400	202441601200	575764327201	207664105520
2401	203441106100	000000000004	206525260500	607424207660	206764377000	205764205200	205512326503	161400000000
2449	206454747040	211455552000	603646072140	207504674540	206761265500	205603127500	205442317400	205541654200
2497	000000000025	206452571340	207524443000	207525201740	206702123100	000000000000	000000000013	000000000014
2545	000000000020	603445725020	203443142460	577763770520	203437774140	600637566660	000000000002	210553307301
2593	000000000020	206502777000	000000125336	000000000102	202436643136	206523312300	202441052040	575426634400
2641	202441601200	575746076701	207666750160	201501174700	000000000001	206466114300	607437276120	206764377000
2689	206407504500	205467603103	161400000000	206453560640	211452264400	604463503340	207474002540	207404467400
2737	205630045500	205464327000	205520766400	000000000025	206472344140	207603601240	207514056520	206736026340
2785	000000000000	000000000013	000000000014	000000000020	603451166640	203442213160	577767227500	203437075320
2833	600636253770	000000000003	210553310261	000000000020	206515716600	000000125337	000000000102	202436643136
2881	206522242100	202441052040	575426634400	202441601200	575746076701	207661361520	203432644220	000000000004
2929	206601755640	607406022060	206764377000	205671407500	205532265303	161400000000	206454363700	211462275600

2977	602443547400	207521541700	206722413100	205525551300	204767705540	205556752600	000000000023	206425000300
3025	207556136700	207537722700	206644533140	000000000000	000000000013	000000000014	000000000020	603454430500
3073	203441163040	577774703060	203436176460	600634741100	000000000004	210553311242	000000000020	206530636400
3121	000000125340	000000000102	202436643136	206522242100	202441052040	575426634400	202441501200	575746076701
3169	207665760520	202560035100	000000000003	206533617500	607424413660	206764377000	205766244300	205513070403
3217	161400000000	206453512240	211456123600	603576211120	207506727360	206761405200	205604610100	205443215400
3265	205542737200	000000000025	206451433040	207570560320	207526143060	206704765640	000000000000	000000000013
3313	000000000014	000000000020	603457672320	203440132740	600401167210	203435277640	600633426210	000000000001
3361	210553312222	000000000020	206543562000	000000125341	0000000000102	212763400000	212763400000	212763400000
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3553	212763400000	000000000000	000000000013	000000000014	0000000000143	212763400000	212763400000	212763400000
3601	212763400000	212763400000	000000000002	210553313203	000000000020	206556501600	000000125342	000000000102
3645	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	207663610000	203473320220
3697	000000000005	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000
3745	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	212763400000	000000023417
3793	212763400000	212763400000	212763400000	212763400000	000000000000	000000000013	000000000014	000000000143
3841	212763400000	212763400000	212763400000	212763400000	212763400000	000000000003	210553314163	000000000020
3885	206571421400	000000125343	000000000102	202436753144	206521757140	202441052040	575426634400	202441416700
3937	575727646301	207654743740	203636211000	000000000006	206525705000	607424203260	206764377000	205672617700
3985	205404537003	161400000000	206454666000	211455577500	603642613100	207505023320	206761235240	205526537000
4033	205405423100	205427463500	000000000022	206452467640	207572326740	207523500500	206710574640	000000000000
4081	000000000013	000000000014	000000000016	603471420060	203435022400	600411470320	203432363620	600627265540
4129	000000000004	210553315144	000000000020	206604345000	000000125344	000000000102	202436753144	205217571400
4177	202441052040	575426634400	202441416700	575727646301	207663075640	203473257720	000000000005	205776055300
4225	607452427440	206764377000	206413441740	204755334770	161400000000	206455007240	211445102200	604736162240
4273	207453466560	207421213660	205636122000	205500107300	205416454600	000000000024	206516375240	207625104660
4321	207473574460	206774776740	000000000000	000000000013	000000000014	000000000020	603474530400	203433772260
4369	600414316070	203431333500	600625752660	000000000001	210553316124	000000000020	206617264600	000000125345
4417	000000000102	202436753144	206521757140	202441052040	575426634400	202441416700	575727646301	207671001200
4465	200665361150	000000000001	205703550400	607472726420	206764377000	206406233040	204643006570	161400000000
4513	206446277500	211441564200	605434230400	207443655200	207442312260	205626006400	205474433400	204720764510
4561	000000000023	206540206340	207636577720	207465021160	207420040660	000000000000	000000000013	000000000014
4609	000000000013	603477640740	203432742140	600417143650	203430303360	600624437770	000000000002	210553317104
4657	000000000020	206632204400	000000125346	000000000102	202436753144	206521757140	202441052040	575426634400
4705	202441416700	575702301601	207665036500	202635360640	000000000003	205552403400	607470225020	205764377000
4753	206435474540	204612303470	161400000000	206454514540	211436135000	605541251300	207425424740	207441011320
4801	205672064400	205533547200	204672010020	000000000025	206546165740	207656474660	2074445363260	207421335600
4849	000000000000	000000000013	000000000014	000000000020	603502751300	203431712040	600421771430	203427377320
4897	600623125100	000000000003	210553320065	000000000020	206645124200	000000125347	000000000102	202436753144
4945	206522424263	202441052040	575426634400	202441416700	575702301601	207657614340	202665314340	000000000003
4993	205465310700	607466563540	206757513400	206440043040	204613231530	202406462200	206455716400	211433764700
5041	605570652300	207415115460	207434222620	205713722500	205552703000	204670217700	000000000026	206547227000
5085	207665124040	207434060240	207415124500	000000000000	000000000013	000000000014	000000000016	603506061620
5137	203430661720	600424617200	203426500500	600621612210	000000000004			

0001	001534000001	210553321045	000000000020	206660047600	000000125350	000000000102	202436753144	206547557500
0045	202441052040	575426634400	202441416700	575702301601	207653151440	203535177060	000000000005	607405446740
0097	606477633200	206757130040	205547103700	206430745600	201742025000	206467306700	210646677760	607547011700
0145	204475252100	206472027500	205432244200	205415136200	206416714100	000000000027	205567734100	210533307700
0193	204600737320	206465130500	000000000002	0000000000143	0000000000143	000000000010	603511172160	203427631620
0241	600427444770	203425601660	600620277320	000000000001	210553322026	000000000020	206672767400	000000125351
0285	000000000102	202436753144	206522424263	202441052040	575426634400	202441416700	575664051201	207663120640
0337	202450177600	000000000002	204552341400	607477317720	206764377000	206444120540	204463520500	161400000000
0385	206456322340	211426045300	605767027000	206756715640	207450336500	205725356400	205565666700	204552221220
0433	000000000025	206567033740	207723607100	2074056401700	207433447120	000000000000	000000000013	000000000014
0481	000000000014	603514302520	203426601500	600431766740	203424652460	600616764430	000000000002	210553323006
0525	000000000020	206705707200	000000125352	000000000102	202436753144	206547557500	202441052040	575426634400
0577	202441416700	575664051201	207647676340	203670413540	000000000006	607405264220	606544317540	206764377000
0625	205523362000	205632463503	161400000000	206462617400	210654446420	607550574400	204535634000	206536046140
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