DATA SET CATALOG #67

Mariner 2 Magnetometer A

62-041A-03A

1tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

MARINER 2

FIELD COMPONENTS

ELECTROMETER NUMBERS

PLASMA PARAMTERS

HOUR AVERAGES OF VELOCITY

3 HOUR AVERAGE OF PLASMA PARAMETERS

62-041A-03A **62-041A-06B 62-041A-06D**

62-041A-06A-D **62-041A-06C**

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY IT CONTAINED FIVE 7-TRACK, 556 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 7094 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	ID
DR01736	DS01736	D00982	1	08/29/62 - 11/15/62	03A
		D00186	2	08/29/62 - 12/29/62	06A
		D00187	3	08/29/62 - 12/29/62	06B
		D02887	4	08/29/62 - 12/30/62	06C
		D04893	5	08/29/62 - 12/29/62	06D

MARINER I

FIELD COMPONENTS

ELECTROMETER NUMBERS

PLASMA PARAMTERS

HOUR AVERAGES OF VELOCITY

3 HOUR AVERAGE OF PLASMA PARAMETERS

62-041A-03A

62-041A-06A-D

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY IT CONTAINED FIVE 7-TRACK, 556 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 7094 COMPUTER. THE DR AND DS NUMBERS ALONG WITH TEH CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN	ID
DR01736	DS01736	D00982 D00186 D00187 D02887	1 2 3 4	08/29/62 - 11/15/62 08/29/62 - 12/29/62 08/29/62 - 12/29/62 08/29/62 - 12/30/62	03A 06A 06P 06C
		D04893	5	08/29/62 - 12/29/62	06D

62-091A-03A FREGRADE MINALOW

DATA FROM UNIVERSITY OF CALIFORNIA, LOS ANGELES

.... tape, density 356 bpi.

The tape called V-8 is in binary form and was created by a FORTRAN IV Program. The output statement was WRITE (8) KALTIM, B

share KALTIN and B were declared as follows: DIMENSION KALTIM (21), B (21, 11)

Thus there are 21 data points associated with each record. Each data point consists of an element of KALTIN and eleven other quantities.

Claren print

For each K (K running from 1 to 21),

B (X, 1) is R (radius) 5 (K, 2) is \$ (colatitude)

B (K, 3) is 3 (longitude) B (K, 4) is B₃(B radial)

B(K, 5) is B T(B tangential)

B (K, 6) isB N (B normal)

3 (K, 7) N. A. E (Z, S) N. A.

B (K, 9) N. A.

3 (K, 10) N. A.

B (K, 11) is B (the total field) = RTK

KALTIM (K) contains the current time and the IFC infognation, as follows:

A sign of + means the instrument is calibrating $+ = n \cdot (n + \frac{1}{2})$ A sign of - means it is not calibrating The absolute value of the number is the current time in seconds. This was obatined as follows:

time = 86400 x day + 3600 x hour + 60 x minute + second

There is a point on the tape for every 37 seconds (approximately), except during the gap from day 304 to day 312. At points where no legitimate data is available, 4 value of 1.0 E32 is assigned to each of the eleven "B" quantities.

The last record on the tape is filled out with zeroes for the B's and a number equal to 400 x 86400 for KALTIM. This is equivalent to "day 400, hour 0, minute 0, second 0."

The legitimate times on the tape range from day 241 to day 319. Thus one can test for "day 400" to find the end of the tape.

The last record is followed by an end-of-file mark.

Programming note: Day, hour, minute, and second can be obtained in FORTRAN IV as follows:

KTIME = 1ABS (KALTIM (K)) KDAY= KTIME/86400 KHR = MOD (KTIME/3600, 24) KMIN = MUD (KTIME/60, 60) KSEC = MDD (UTIME, 60)

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MARI PERZ

DATA SET NUMBER CZ-U4LA-03A

THIS IS A BINARY TAPE CHEATED BY A FORTRAN IV PROGRAM

THE DUTPUT STATEMENT WAS WRITE(#) KALTIM-U WHEFE KALTIM AND U WERE DECLARED AS FOLICUS CIMENSION KALTIM(21) .E(21.11)

THERE ARE 21 GATA PUINTS ASSOCIATED WITH EACH RECORD. EACH CATA POINT CUNSISTS OF AN ELEMENT OF KALTIN AND ELEMEN CITHER CLANTIFIES.

** TAPE GISCRIPTION **

FOR EACH & [K RUNNING FROM 1 TC 211.

RALTIMIK) CONTAINS THE CURRENT TIPE AND THE IFC
INFORMATION AS FULLOWS A SIGN OF + MEANS THE INSTRUMENT IS CALIBRATING
A SIGN OF - MEANS IT IS NOT CALIBRATING
THE ABSOLUTE VALUE OF KALTIMIK) IS THE CURRENT
TIME IN SEGUNDS.

TIME =00400 A MAY + 3600 X FQUR + 60 X MINUTE +SECEND

E(#.2) - RADILS (F.M.)

E(#.2) - CCLATITUDE (F.M.)

B(#.2) - LENCITUDE (F.M.)

E(#.4) - B HADIAL

E(#.5) - B TANGENTIAL

E(#.6) - B NCFHAL

E(#.1) - N.A.

THERE IS A FUINT ON THE TARE FOR EVERY 27 SECONDS (APPROXIMATELY). EXCEPT DURING THE GAR I

THE LAST RECURU ON THE TAPE FANCE FROM DAY 2'1 TO DAY 319.
THE CHE CAN TEST FOR "DAY 400" TO FIND THE ENC OF THE TAPE.

THE LAST RECORD IS FULLWARD BY AN END-OF-FILE MARK.

PAGE 2 RIFAN IV PROGRAM CLLCWS 111 ITH EACH RECORD. 10 211. AND THE IFC STRUNENT IS CALIBRATING NOT CALIBRATING LTIM(K) IS THE CURRENT X FOUR + 60 X MINUTE +SECOND Y 37 SECONDS (APPROXIMATELY). EXCEPT LURING THE GAF FROM DAY 304 TO DAY 312. BLE. A VALUE OF 1.0 E321S ASSIGNED TO EACH OF THE ELEVEN "E" QUANTITIES. FFOM DAY 2'1 TO DAY 319. NO THE END OF THE TAFE. END-CF-FILE WARK.

MARINER 2 OCTAL DIMP

FIRST 5 AND LAST 5 RECORDS

BEGINNING OF TAPE

D-00982 C-00524

DAY 241 AUGUST 29+1962 HOUR 17 MIN 26 SEC 51

FNO OF TAPE DAY 315

NOV 15.1962 HOUR 12 MIN 2 SEC 30

0.34		0601 04 A 57 5 610	-			
0.047 0.0011753C1 7-0 0.001175302-0 0.001175303-0 0.001175303-0 0.001175303-0 0.00125303-0 0.0		9031 000374000000\$	000'117527142	200117527210	000117927255	000117527322
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		1297 202642561132	202431623211	501766616742	603415100210	601785436551
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FORTRAN PROGRAM USED TO SUPPLY TAPE LISTING

MARINE - EF'S SOURCE STATEMENT - IFN(S) -

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READ / WRITE MANINA 2
      DIPENSION B(21.11)
      CIMENSION KALTIMEZIJ
      CENACHOS WOSID (2). IPID. IRE: . IFILE
      CEMMON /F ID ERR/ IERR
      CERRONTE NE MYR. HO. MEL JA . F. MIN. HP. MHR
      DATA E32/0353473426555/
   99 FORMAT( 346, 214)
  100 FERMATILHI. 40%.15HM A R 1 N E R 2 //1 CX.14HRECORD NUMBER , 13 //
                  8K.12H
                                    . 90%, SHTOTAL/115H YP/MD/DA/HR/MIN/
              RADIJS COLATITUS LONGITUDE B-RADIAL B-TANG 3-NORM
     2SEC
     34 . N.A. N.A. FIELD
                                                   1111
  101 FORMATITHO. 4(12.1H). 12.1H.12.
                          1X. 213.9.1 X.F9.7.1 X.2(1 X.F9.6).2(1X.F6.3).
      1 1x4F 7.3. 1x4F 6.4.2(1x4F 6.3) .1x4F7.4)
  103 FORMAT(1HO, 4(12,1HV), 12,1HV,12,
                         20% JAH LEGITIPATE DATA IS NOT AVAIL ABLE . )
  104 FCRFAT(8HLIERR = .18)
.
     INITIALIZATION SECTION
      CALL SETHD
      ILINE=56
      IEFF=0
      GAP=5
      MYE = 62
      I HEC=0
      QUIFUTEL
     IFILE=1
      REAC(2.99) DS10. TPID
                                                                                        я
     CALL TGAP(1:1:1:1:1:1:1:GAP)
6
     FROCESSION SECTION
C
                                                                                         10
   10 READ(5) [KALTIM(1).[=1.21).((U(1.K).[=1.21).K=].11)
C
                                                                                        11
      IFTIERR.NE. O) GG TO 153
C
      DC 20 1 =1 +21
      KTIME= FAG STKAL TIM (1))
      DA=K TIME/86400
      CALL TIPE 121
      IHR = MED (KTI ME / 3600 . 24)
      MIN=MODIKTIME/60.60)
      I SEC= MJ DIKTIME.60)
      IF(E(1.1) . NE.E32 . AND. 8(1.11) . NE . E32) CALL TGAP(0. MYR. MO. NDA. 1HR.
     1 MIN. CUTPUI .GAPI
                                                                                        44
      IF ( IREC . GT . SO) GJ TO 20
```

RECORD NUMBER 1

YEA	IC/OA/HR/MIN/	SEC	EM ISAF	COLATITUDE	Langitude	B-RADIAL	B-TANG	в-нов	٧.٨	•
62/ 8	1/29/ 17/24/ 5¥	1 50 8 80 4	986 09	1.4447587	-1.740400	-1.024487	2.970	7. 053	41 9. 906	0.
62/ 8	129/17/25/28	1508804	58E 09	1.4447584	-1.740394	-1.024484	3.097	6. 998	418.653	0.
62/ 6	1/29/17/26/ 5	1503304	95E 99	1.4447580	-1.740387	-1.024482	2.503	7.346	417.421	0.
62/ 6	1/25/17/26/42	1508903	635 39	1.4447576	-1.740381	-1.024479	2,540	7.300	416.178	0.
62/ 8	/25/17/27/19			LEGI	TEMATE DATA	IS NOT AV	ATLABLE			
62/ 8	/29/17/27/56	1508802	71E 39	1 -4 44 75 69	-1.740368	-0.29032t	3,982	7.362	413.692	0.
62/ 8	/29/17/28/33	1509902	291 39	1.4447565	-1.740361	-0.290319	3.715	6.690	412.449	0.
62/ 8	/25/17/29/10			LEG1	TIMATE DATA	IS NOT AV	ATLABLE		77.00	
621 8	/29/17/29/30	1 5 08801	57E 09	1+4447550	-1 .740 351	-7.667741	1 . 3 03	5,752	410.535	0.
62/ 8	/25/17/30/ 6	1593301	03E 39	1 +4447556	~1.740345	-6.91 3667	1.896	6.258	409.325	0.
62/ 8	/29/17/30/43	1509490	74E 09	1.4447553	-1.740338	-0.178123	2.013	5.222	408-083	0.
62/ 8	/25/17/31/20	1508300	155 29	1.4447509	-1.740332	-6.91 865 9	1.669	5.612	406.840	0.
62/ 8	/25/17/31/57	1508799	745 39	1.4447545	-1.740325	-6.918656	2.404	5.061	405.597	0.
62/ 8	129/17/32/34	1309799	312 09	1.4447542	-1.740318	-3.962005	4.065	5.592	403.611	0.
62/ 8	/29/17/33/11	1508798	3 PE 09	1 +444 75 38	-1 -740312	-6-1 781 09	3.821	3.878	401.626	0.
62/ 8	/25/17/33/48	1508798	395 39	1 +4447535	-1.740305	-6:1 781 06	4.384	4.347	399.640	0.
£2/ 8	/29/17/34/25	1508797	9 3E 09	1.4447531	-1.740299	-6+1 781 02	3.959	3.737	397.654	0.
62/8	/29/17/34/43	1508797	77E 09	1.4447529	-1.740296	-3.961994	3.907	4.801	396.688	0.
62/ 8	/29/17/35/20	1508797	25E 09	1.4447525	-1.740289	-4.699807	5.021	5.752	394.702	0.
62/ 8	/25/17/35/57	1508795	101 00	1.4447522	-1.740282	-4.699804	4.124	3.554	397.146	0.7
62/ 8	/29/17/36/31	1505776	345 39	1.4447518	-1.740276	-4.659801	3.581	6.279	399.590	0.

SOUTIDE	E-RADIA	B-TANG	B-NORM	N.A.	N.A	. N.A.	N.A.	FIFLO
33828	4 +8 25657	-0.209	-2.527	402.612	0.7477	3.435	3.397	5.4520
33822	4.826659	-0.280	-2.520	402.493	0.7473	3.486	3.350	5.4520
3361 9	4.826661	-0.474	-3.324	402,173	0.7469	3.627	3.219	5 . 87 94
33808	4.826663	-0.422	-2.500	401.853	0.7465	3.588	3.256	5 .4520
33802	4.826665	0.254	-2,644	401.534	0.7461	3.089	3.717	5 +5 090
33795	4.826667	0.371	-1.848	401.534	0.7461	3.003	3.797	5 -1815
33789	4.826669	-0.109	-3.447	401.534	0.7461	3, 356	3.470	5,9324
33782	4.826671	1.742	-2.308	401.534	0.7461	1.997	4.727	5 -6264
33776	4.825673	0.944	-2.115	401.534	0.7461	2,583	4.185	5.3528
33769	4.825674	0.603	-2.914	401.533	0.7461	2.833	3.954	5.6704
33763	4.097624	0.520	-2.930	401.533	0.7461	2.399	3.362	5.0643
33756	4.825678	0,761	-2.185	402.732	0.7476	2.723	4.057	5.3528
33750	3.368049	1.760	-3.504	403.930	0.7491	1.004	3.665	5 -2373
33743	3.368051	3.062	-4.349	405,129	0.7506	0.058	4.551	6 -2 952
33736	4.097633	2.327	-2 . 24 1	406.359	0.7521	1.100	4.582	5.2180
33730	3.368055	1.853	-3.025	407.558	0.7535	0.952	2.724	4.8915
33723	4,097637	2.623	-1.659	405 - 756	0.7550	0.894	4.785	5 -143C
33717	3.358060	2.337	-3.548	408.961	0.7553	0.607	4.054	5.4216
33710	3.368062	3,352	-3.376	409-171	0.7555	-0.131	4.750	5 . 82 92
33704	3.368064	3.745	-2.799	409.381	0.7558	-0.415	5.019	5 .7621
33697	3.368066	4-174	-2.246	409.592	0.7560	-0.726	5.314	5 . 8144

MARINERS

FECONO NUMBER 50

	/MC/DI		N/MI	12	SEC	RAD	I us	COLATITUDE	LONGITUDE	8-RADIA	L B+T ANG	B-NOA	M N+	A .
62/	8/30	, 3	1551	/35	150933.	335E	ô9	1.4443907	-1.733690	3.368068	3.580	-3,007	409.80	2 0.
62/	8/30/	3	/56/	12	150833	284€	09	1.4443903	-1.733684	2.537931			410.012	
62/	8/30/	3.	1561	49	150 833	234E	09	1.4443899	-1 +733677	1-9-07-20-1			409.45	
62/	8/30/	3	1571	25	1 50 833	191E	09	1.4443896	-1.733671	3.369075			408.69	
62/	8/30/	3.	158/	3	150833	1 +1 E	99	1.4443892	-1.733664	2.5 379 38			408.336	
62/	8/30/	3,	/58/	39	1 50 83 30	99E	09	1.4443889	-1.733658	2.6 379 40			407.792	
62/	8/30/	3,	159/	15	150 8330	98	09	1.4443885	-1 • 733651	1.907211			407.233	
52/	8/30/	3,	59/	5.3	1508330	300E	09	1.4443882	-1.733645	1.907213		100	406+674	
62/	8/30/	4/	01	30	150 8329	964E	09	1.4443878	-1.733638	1.907216			406.920	
62/	8/30/	4/	1/	9	150 6329	91 JE	09	1.4443874	-1.733631	2.5 379 50			407-172	
62/	8/30/	9/	11	45	150 0326	163E	09	1.4443871	-1.733625	2.6 37952			407.418	
62/	8/30/	4/	21	22	1 50 8328	31 3E	09	1+4443867	-1.733618	2.637954	3.884	-3.062	407.663	0.7
62/	8/30/	4/	2/:	59	1508327	71E	99	1.4443864	-1.733612	1.175869	9.643	-2.983	407.909	0.7
62/	8/30/	4/	3/	36	150 8327	21E	09	1.4443860	-1.733605	2.6 379 59	-1.782 -	-3.678	408.154	0.7
621	8/30/	41	41	13	150 8326	7 BE	09	1.4443857	-1.733599	3.369098			407.622	
62/	8/30/	4/	4/5	20	150 8326	28E	99	1.4443853	-1 -73 3592	1.907233			407.089	
62/	8/30/	4/	5/	27	150 8325	85E	09	1.4443849	-1.733585	1.907235	-4.320 -	4,527	406.556	0.7
62/	8/35/	4/	61	4	1508325	35E	09	1 -4 44 38 46	-1.733579	1.907237	-3.395 -	4.801	406 .023	0.7
52/	8/3(/	4/	0/4	1	1508324	84E	0.9	1 .4443842	-1.733572	1.907240	-4.571 -	4.273	405.491	0.7
150	8/30/	4/	7/1	8	1508324	SE	09	1.4443839	-1.733566	0.443871	-4.692 -	4.140	404.958	0.7
62/	8/30/	4/	7/5	5	150 8323	99E	99	1.4443835	1.733559	2.637975	-3.018 -	4.241	405.058	0.7

ONGITUDE	B-RADIA	L B-TANG	B-NOR	4 N.	. N.	N . N.	A . N. A	TOTAL	
						4. N.	A. N.A.	FIELD	
1.733690	3.368068	3.580	-3.007	409.802	0.756	3 -0.29	2 4.906	5.7620	
.733684	2.537931	2.948	-3.734	410.012	0.7565	5 -0.33	3 3.942	5.4399	
.733677	1.907201	3.422	-4.352	409.453	0.755	-1 -1 82	3 . 7 35	5.8558	
.733671	3.365075	3.892	-2.705	408.894	0.755	-0.52	5 5.120	5.8143	
.733664	2.5 379 38	3.765	-3.962	408.336	0.7545	-0.931	4.501	8.0691	
.733658	2.6 37940	3.654	-4.065	407.792	0.7536	-0.859	4.424	6.0690	
.733651	1.907211	3.537	-4.167	407.233	0.7531	-1 .276	3.810	5. 7889	
.733645	1.907213	4.0 62	-3.739	406.674	0.7525	-1.662	4 . 168	5.8410	
.733638	1.907216	3.294	-4.362	406.920	0.7528	-1 -1 00	3.544	5. 7888	
.733631	2.5 379 50	4.052	-2.836	407.172	0.7531	-1.152	4+696	5- 60 56	
.733625	2.6 37952	1.904	-4.359	467.418	0.7534	0.416	3.227	5. 4395	
.733618	2.537954	3.884	-3.062	407.663	0.7537	-1 -027	4.581	5. 60 65	
.733612	1.175869	5.643	-2.983	407.909	0.7540	-3,309	4.720	6. 490 7	
.733605	2.6 379 59	-1.762	-3.678	408.154	0.7543	3.105	0.703	4.8640	
.733599	3.369098	1.764	-3.465	407.622	0.7536	1.018	3.663	5, 1442	
73 35 92	1.907233	3.163	-2.779	407-089	0.7530	-1.004	3,555	4. 6225	
733585	1.907235	-4.320 -	4.527	406.556	0.7523	4.457	-1.559	6. 5415	
.733579	1.907237	-3.395	4.801	406 .023	0.7517	3.783	- 0. 925	6+1822	-
733572	1.907240	-4.571 -	4.273	405.491	0.7510	4 . 643	-1.725	6.5414	
733566	0.443871	-4.692 -	4.140	404.958	0.7503	3,734	-2.375	6.2729	
733559	2.6 37975	-3-218 -	4.241	05.058	0.7505	4.006	-0.129	5.8354	