DATA SET CATALOG #67

Mariner 2
Magnetometer A

62-041A-03A 1 tape

Table of Contents

---

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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 2

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	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

FREGRADE 62-091A-03A
MINROV

DATA FROM UNIVERSITY OF CALIFORNIA, LOS ANGELES

[illegible], unlabeled tape, density 556 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

where KALTIM 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 KALTIM and eleven other quantities.

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

B (K, 1) is R (radius)
B (K, 2) is θ (colatitude)
B (K, 3) is ζ (longitude)
B (K, 4) is B_R (B radial)
B(K, 5) is B_T (B tangential)
B (K, 6) is B_N (B normal)
B (K, 7) N. A.
B (K, 8) N. A.
B (K, 9) N. A.
B (K, 10) N. A.
B (K, 11) is B (the total field) = RTK

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

A sign of + means the instrument is calibrating
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, a 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 = IABS (KALTIM (K) )
KDAY= KTIME/86400
KHR = MOD (KTIME/3600, 24)
KMIN = MOD (KTIME/60, 60)
KSEC = MOD (KTIME, 60)
```

MARINER 2

DATA SET NUMBER 62-081A-03A

THIS IS A BINARY TAPE CREATED BY A FORTRAN IV PROGRAM

THE OUTPUT STATEMENT WAS
WRITE(6) KALTIM,B
WHERE KALTIM AND B WERE DECLARED AS FOLLOWS
DIMENSION KALTIM(21),B(21,11)

THERE ARE 21 DATA POINTS ASSOCIATED WITH EACH RECORD.
EACH DATA POINT CONSISTS OF AN ELEMENT OF KALTIM AND
ELEVEN OTHER QUANTITIES.

** TAPE DESCRIPTION **

FOR EACH K (K RUNNING FROM 1 TO 21),

KALTIM(K) CONTAINS THE CURRENT TIME AND THE IFC
INFORMATION AS FOLLOWS -
A SIGN OF + MEANS THE INSTRUMENT IS CALIBRATING
A SIGN OF - MEANS IT IS NOT CALIBRATING
THE ABSOLUTE VALUE OF KALTIM(K) IS THE CURRENT
TIME IN SECONDS.

TIME=86400 X DAY + 3600 X HOUR + 60 X MINUTE +SECOND

B(K,1) - RADIUS (KM)
B(K,2) - COLATITUDE (radians) 0,π
B(K,3) - LONGITUDE (radians) 0,-π
B(K,4) - B RADIAL (gamma)
B(K,5) - B TANGENTIAL (gamma)
B(K,6) - B NORMAL (gamma)
B(K,7) - N.A.
B(K,8) - N.A.
B(K,9) - N.A.
B(K,10) - N.A.
B(K,11) - B (THE TOTAL FIELD) (gamma)

THERE IS A POINT ON THE TAPE FOR EVERY 37 SECONDS (APPROXIMATELY), EXCEPT DURING THE GAP

AT POINTS WHERE NO LEGITIMATE DATA IS AVAILABLE, A VALUE OF 1.0 E32 IS ASSIGNED TO EACH OF THE E

THE LAST RECORD ON THE TAPE RANGE FROM DAY 271 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.

1 2

RTRAN IV PROGRAM

GLLCWS
11)

ITH EACH RECORD.
T OF KALTIN AND

TO 21).

AND THE IFC

STRUMENT IS CALIBRATING
NOT CALIBRATING
LTIM(K) IS THE CURRENT

) X HOUR + 60 X MINUTE +SECOND

Y 37 SECONDS (APPROXIMATELY).EXCEPT DURING THE GAP FROM DAY 304 TO DAY 312.

IBLE. A VALUE OF 1.0 E32IS ASSIGNED TO EACH OF THE ELEVEN 'E' QUANTITIES.

FROM DAY 271 TO DAY 319.
INC THE END OF THE TAPE.

END-OF-FILE MARK.

MARINER 2 OCTAL DUMP

FIRST 5 AND LAST 5 RECORDS

BEGINNING OF TAPE

D-00982
C-00524

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

END OF TAPE DAY 319

NOV 15,1962
HOUR 12
MIN 2
SEC 39

FILE 0001 REC 0001 OF 0015 EW

0001	000374000001	000117527142	000117527210	000117527255	000117527322	0
0049	000117527546	000117527572	000117527436	000117527703	000117527780	0
0097	000117530174	000117530241	000117530263	000117530330	000117530375	0
0145	234437620114	234437620066	353473426555	234437620018	234437617761	2
0193	234437617643	234437617613	234437617564	234437617539	234437617507	2
0241	234437617267	234437617340	234437617312	201561667325	201561667278	2
0289	201561667133	201561667102	353473426555	201561667035	201561667009	2
0337	201561666644	201561666613	201561666563	201561666533	201561666517	2
0385	601675425613	601675424722	601675424033	601675423143	353473426555	5
0433	601675417225	601675416351	601675415461	601675414571	601675413701	6
0481	601675410342	601675407124	601675406234	601675405344	601675405344	6
0529	601406210370	353473426555	577451223740	577451222850	353473426555	6
0577	603672626502	603672626436	602773105744	603513314222	603613314126	6
0625	603456623132	603456623042	202574134570	202614314314	202501020012	2
0673	201533454116	353473426555	201515541242	201745401761	202401164526	2
0721	202751035172	203430491301	202772623460	202754055202	203501254721	2
0769	203677701203	203726112651	203723131051	353473426555	203727130420	2
0817	203620376300	202616167645	203547136676	203503711206	203545674220	2
0865	203463206431	203560107577	202706732604	203621703541	211643717746	2
0913	353473426555	211635642264	211634346020	353473426553	211632421602	2
0961	211629461531	211623470764	211621500220	211617507452	211615516707	2
1009	211617455654	200611264126	200610457750	200607552477	200607044131	3
1057	353473426555	200603451174	200602647232	200602031414	200601812466	2
1105	200574554742	200573342413	200572643012	200571426126	200573073543	2
1153	603502271655	602516614776	353473426555	602612611723	602562416456	3
1201	603554233763	603574457212	603636457132	603552201432	603677746370	6
1249	603670062762	603615535130	603554222206	201523607677	201551141561	2
1297	202504410214	202454347616	353473426555	603453333140	602736137166	6
1345	576425524663	601761462064	601624270234	601742416734	577453024370	5
1393	203756107426	203756110552	203765063342	203765364467	353473426555	2
1441	204465435210	204460502211	204437674507	204442023152	204434705040	2
1489	204407404414	203726263123	204436717344	203714236433	204423720541	

FILE 0001 REC 0002 OF 1515

0001	000374000001	000117530507	000117530554	000117530621	000117532666	0
0049	000117531111	000117531156	000117531223	000117531270	000117531335	0
0097	000117531561	000117531626	000117531673	000117531740	000117532006	0
0145	234437617206	234437617157	234437617131	234437617103	234437617054	2
0193	234437616721	234437616672	234437616644	234437616614	234437616566	2
0241	234437616433	353473426555	234437616356	201561666355	201561666325	2
0289	201561666164	201561666134	201561665103	201561666053	201561666023	2
0337	201561665661	201561665631	201561665600	201561665550	201561665520	2
0385	601675404454	601675403564	601675402674	601675402004	601675401130	6
0433	601675375571	601675374701	601675374010	601675373121	601675372231	6
0481	601675366671	601675366001	601675365111	353473426555	601675363345	6
0529	602634631464	601700704550	177713071060	177713072200	202660012160	2
0577	202122362344	202522362454	202660013004	202522362670	202660013210	2
0625	353473426555	202660013724	203417306211	203425703357	202760757466	2
0673	202530124652	603614266071	603707066601	602622502621	603675140624	6
0721	603701726241	603705265604	603710515522	603713627255	603672170556	3
0769	203541377437	203476537647	203527077710	203573360201	203596443771	2
0817	377615511312	601657174776	600601217560	602804543115	602463341350	6
0865	602115462567	602625773455	353473426555	602575437174	211622026754	2
0913	211636505313	211644033225	211651361342	211656737357	211664235374	2
0961	211675271165	211676445631	211677622275	211700776742	211701656124	2
1009	211702546247	200576171202	200577621262	200601245003	200602664207	2
1057	200617754713	200623122603	200636244244	200637013356	200627551467	2
1105	200632400177	200632544065	200632707704	200633053462	353473426555	2
1153	603542543327	603541033060	603414742623	602636457333	601633417347	2
1201	203721756766	203563732152	203700126316	203743305656	203662613561	2
1249	203760153325	353473426555	203723360105	523722534000	174734556700	5
1297	202542561132	202431623211	601766616742	603415100210	601755436551	6
1345	602556634072	602632014242	602537061454	602443153234	602450073477	6
1393	204402066021	204402056430	203735047011	203756603736	203734035671	2

117527142	000117527210	000117527255	000117527322	000117527367	000117527434	000117527501
117527572	000117527636	000117527703	000117527750	000117530019	000117530062	000117530127
117530241	000117530263	000117530330	000117530375	000117530442	234437620172	234437620143
437620066	353473426555	234437620016	234437617761	353473426555	234437617716	234437617676
437617613	234437617564	234437617535	234437617507	234437617457	234437617432	234437617417
437617240	234437617312	201561667325	201561667274	201561667244	201561667214	353473426555
561667102	353473426555	201561667035	201561667005	201561666755	201561666725	201561666674
561666613	201561666563	201561666533	201561666517	201561666466	201561666436	201561666406
675424723	601675424033	601675423143	353473426555	601675421363	601675420473	353473426555
675416351	601675415461	601675414571	601675413701	601675413013	601675412122	601675411232
675410014	601675407124	601675405234	601675405344	601406211450	601406211150	601406210670
473426555	577451223740	577451222440	353473426555	603752574416	603672626676	603613314572
672626406	603773105744	603513314223	603613314126	603613314032	6027731 05164	603454623222
454623042	202574134570	202614314314	202501020012	202521751077	353473426555	202775533501
473426555	201515541242	201745401761	202401164526	201651146364	202463584201	203404201057
430451301	202772623460	202764055202	203501254721	203407750727	202712853403	203703306540
726112651	203723131051	353473426555	203727130420	203654137060	3534734265 55	203566104115
616167645	203547136676	203503711206	203545674220	202760338641	203426135571	202736252240
560107577	202706732604	203621703541	211643717746	211642523502	211641327237	211640132773
635542264	211634346020	353473426555	211632421602	211631246504	211630052840	211626655774
623470764	211621500220	211617507453	211615516707	211614540217	211612547453	211615112553
611254126	202610457750	200607652477	200607044131	353473426555	200605423734	200604612076
603451174	200603647232	200602031414	200601212466	200600372434	200577170747	200575764330
573342410	200572643012	200571426125	200573073543	200574534555	602554411376	602570345643
516614776	353473426555	602612611723	602562416456	353473426555	603616413321	603607754206
574457212	603636457132	603553201432	603677746370	603732140661	603706673571	603543500775
615605130	603564222206	201523607677	201551141561	200777231526	201426064156	353473426555
454347616	353473426555	603453333140	602736137165	602620274340	602764372466	602665356637
761462064	601624270234	601742416724	577453024370	576646156100	600537516410	601411115432
756110552	203765063342	203765064467	353473426555	204413777074	203752105715	353473426555
460502311	204437674507	204442023150	204434705040	203775776534	204407403615	204427373215
726263123	204436717344	203714236433	204423720541			

117530507	000117530554	000117530621	000117530666	000117530732	000117530777	000117531044
117531156	000117531223	000117531270	000117531335	000117531402	000117531447	000117531514
117531626	000117531673	000117531740	000117531005	000117532051	234437617263	234437617234
437617157	234437617131	234437617103	234437617054	234437617025	234437616776	234437616750
437616672	234437616644	234437616614	234437616566	234437616537	234437616510	234437616462
473426555	234437616356	201561666335	201561666325	201561666274	201561666244	201561666214
561666134	201561665103	201561666053	201561666023	201561665772	201561665742	201561665711
561665631	201561665600	201561665550	201561665520	201561665467	353473426555	201561665407
675403664	601675402674	601675402004	601675401130	601675400240	601675377351	601675376461
675374701	601675374010	601675373121	601675372231	601675371341	601675370451	601675367561
675366001	601675365111	353473426555	601675363345	602773104314	602773104144	602773103764
700704550	177713071000	177713072200	202660012160	201456245440	177713076100	202660012470
622362454	202650013004	202522362670	202660013210	203406630634	203406600674	203406600732
660013724	203417306211	203425703357	202760757466	203442464221	203410516141	203417427450
614256071	603707066601	602622502621	603675140624	602546663553	603724200006	603727114067
705265604	603710515822	603713627255	603672170556	353473426555	603701353766	203546403141
476537647	203527077710	203573360201	203563443771	203545737271	601634401544	602610355277
657174776	600601217560	602504143115	602463341350	602577642450	602557153172	602536357525
625773455	353473426555	602575437174	211622020754	211624364055	211626727165	211631272256
640433325	211651361342	211656707357	211664235374	211671563411	211672740055	211674114521
676445631	211677622275	211700776742	211701656124	211701535307	211702014472	353473426555
576171202	200577621262	200601245003	200602664207	200606077012	200611343222	200614562374
623122603	200526244244	200627013356	200627561467	200630326604	200631072723	200631636046
632544065	200632707704	200633053462	353473426555	200633360041	603663320660	603570124544
541033060	603414742623	602636457333	601633417347	203661425532	203566552462	202503213041
663732152	203700126316	203743305656	203662615561	203726402133	203772250071	203774252244
473426555	203723360105	593722534000	174734556700	576747522400	200610205100	201626024645
431623211	601766616742	603415100210	601755436551	602515023734	602424233661	602661727666
632014242	602537061454	602443153234	602450073477	602417172240	353473426555	602533211353
602056430	203735047011	203756603736	203734035671	203717421214	203616140474	203717015237

FORTRAN PROGRAM USED TO SUPPLY TAPE LISTING

```
C      READ / WRITE MARINA 2
       DIMENSION B(21,11)
C
       DIMENSION KALTIM(21)
       COMMON/DSX/DSID(2),TPID,IREC  ,IFILE
       COMMON /FIOERR/ IERR
       COMMON/TIM/MYR,MO,MDA,DA,FMIN,HR,MHR
       DATA B32/Z05347F426555/
C
   99 FORMAT(3A6,2I4)
  100 FORMAT(1H1, 40X,15HM A R I N E R 2  //1CX,14HRECORD NUMBER  ,I3 //
      1            8X,12H                , 90X, 5HTOTAL/115H  YR/MO/DA/HR/MIN/
      2SEC     RADIUS COLATITUDE  LONGITUDE  R-RADIAL B-TANG B-NORM    N.
      3A.   N.A.   N.A.   N.A.  FIELD                ///)
  101 FORMAT(1HO, 4(I2,1H/), I2,1H/,I2,
      *                    1X,E13.9,1X,F9.7,1X,2(1X,F9.6),2(1X,F6.3),
      1 1X,F7.3,1X,F6.4,2(1X,F6.3),1X,F7.4)
  103 FORMAT(1HO, 4(I2,1H/), I2,1H/,I2,
      1                  20X, 34H LEGITIMATE DATA IS NOT AVAILABLE  )
  104 FORMAT(8H1IERR =    ,I8)
C
C     INITIALIZATION SECTION
C
       CALL SETHD
C                                                                        2
       ILINE=56
       IERR=0
       GAP=5
       MYR=62
       IREC=0
       OUTPUT=1
       IFILE=1
C
       READ(2,99) DSID,TPID                                              8
       CALL TGAP(1,1,1,1,1,1,1,GAP)
C
C     PROCESSION SECTION
C                                                                        10
   10 READ(5) (KALTIM(I),I=1,21),(((B(I,K),I=1,21),K=1,11)
C                                                                        11
       IREC=IREC+1
       IF(IERR.NE.0) GO TO 103
C
C
       DO 20 I=1,21
       KTIME=IABS(KALTIM(I))
       DA=KTIME/86400
       CALL TIME(2)                                                      36
       IHR=MOD(KTIME/3600,24)
       MIN=MOD(KTIME/60,60)
       ISEC=MOD(KTIME,60)
       IF(B(I,1).NE.E32 .AND. B(I,11).NE.E32) CALL TGAP(0,MYR,MO,MDA,IHR,
      1 MIN,OUTPUT,GAP)                                                  44
       IF(IREC.GT.50) GO TO 20
C
```

MARINER 2

RECORD NUMBER 1

YR/MO/DA/HR/MIN/SEC	RADIUS km	COLATITUDE radians	LONGITUDE radians	B-RADIAL γ	B-TANG γ	B-NORM γ	V.A.
62/ 8/29/17/24/51 150880498E 09	1.4447587	-1.740400	-1.024487	2.970	7.053	419.906	0.
62/ 8/29/17/25/28 150880458E 09	1.4447584	-1.740394	-1.024484	3.097	6.998	418.653	0.
62/ 8/29/17/26/ 5 150880405E 09	1.4447580	-1.740387	-1.024482	2.503	7.346	417.421	0.
62/ 8/29/17/26/42 150880363E 09	1.4447576	-1.740381	-1.024479	2.540	7.300	416.178	0.
62/ 8/29/17/27/19	LEGITIMATE DATA IS NOT AVAILABLE						
62/ 8/29/17/27/56 150880271E 09	1.4447569	-1.740368	-0.290321	3.982	7.362	413.692	0.
62/ 8/29/17/28/33 150880229E 09	1.4447565	-1.740361	-0.290319	3.715	6.690	412.449	0.
62/ 8/29/17/29/10	LEGITIMATE DATA IS NOT AVAILABLE						
62/ 8/29/17/29/30 150880157E 09	1.4447560	-1.740351	-7.667741	1.303	5.752	410.535	0.
62/ 8/29/17/30/ 6 150880109E 09	1.4447556	-1.740345	-6.918667	1.896	6.258	409.325	0.
62/ 8/29/17/30/43 150880074E 09	1.4447553	-1.740338	-6.178123	2.010	6.222	408.083	0.
62/ 8/29/17/31/20 150880015E 09	1.4447549	-1.740332	-6.918659	1.669	5.612	406.840	0.
62/ 8/29/17/31/57 150879974E 09	1.4447545	-1.740325	-6.918656	2.404	5.061	405.597	0.
62/ 8/29/17/32/34 150879931E 09	1.4447542	-1.740318	-3.962005	4.065	5.592	403.611	0.
62/ 8/29/17/33/11 150879889E 09	1.4447538	-1.740312	-6.178109	3.821	3.878	401.626	0.
62/ 8/29/17/33/48 150879839E 09	1.4447535	-1.740305	-6.178106	4.384	4.347	399.640	0.
62/ 8/29/17/34/25 150879793E 09	1.4447531	-1.740299	-6.178102	3.959	3.737	397.654	0.
62/ 8/29/17/34/43 150879777E 09	1.4447529	-1.740296	-3.961994	3.907	4.801	396.688	0.
62/ 8/29/17/35/20 150879725E 09	1.4447525	-1.740289	-4.699807	5.021	5.752	394.702	0.
62/ 8/29/17/35/57 150879676E 09	1.4447522	-1.740282	-4.699804	4.124	3.554	397.146	0.
62/ 8/29/17/36/34 150879634E 09	1.4447518	-1.740276	-4.699801	3.581	6.279	399.590	0.

INER2

GITUDE	B-RADIAL	B-TANG	B-NORM	N.A.	N.A.	N.A.	N.A.	TOTAL FIELD
33828	4.826657	-0.209	-2.527	402.812	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
33815	4.826661	-0.474	-3.324	402.173	0.7469	3.627	3.219	5.8794
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	5.5090
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	4.826673	0.944	-2.115	401.534	0.7461	2.583	4.185	5.3528
33769	4.826674	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	4.826678	0.761	-2.185	402.732	0.7476	2.723	4.057	5.3528
33750	3.368049	1.760	-3.604	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	6.2952
33736	4.097633	2.327	-2.241	406.359	0.7521	1.100	4.582	5.2180
33730	3.368055	1.853	-3.025	407.558	0.7535	0.953	3.724	4.8915
33723	4.097637	2.623	-1.659	408.756	0.7550	0.894	4.785	5.1430
33717	3.368060	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	5.8292
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

MARINER 2

RECORD NUMBER 50

YR/MO/DA/HR/MIN/SEC	RADIUS	CO-LATITUDE	LONGITUDE	B-RADIAL	B-TANG	B-NORM	N.A.
62/ 8/30/ 3/55/35 150833335E	09	1.4443907	-1.733690	3.368068	3.580	-3.007	409.802	0.7
62/ 8/30/ 3/56/12 150833284E	09	1.4443903	-1.733684	2.537931	2.948	-3.734	410.012	0.7
62/ 8/30/ 3/56/49 150833234E	09	1.4443899	-1.733677	1.907201	3.422	-4.352	409.453	0.7
62/ 8/30/ 3/57/25 150833191E	09	1.4443896	-1.733671	3.368075	3.892	-2.765	408.894	0.7
62/ 8/30/ 3/58/ 3 150833141E	09	1.4443892	-1.733664	2.537938	3.765	-3.962	408.336	0.7
62/ 8/30/ 3/58/39 150833099E	09	1.4443889	-1.733658	2.537940	3.654	-4.065	407.792	0.7
62/ 8/30/ 3/59/15 150833049E	09	1.4443885	-1.733651	1.907211	3.537	-4.167	407.233	0.7
62/ 8/30/ 3/59/53 150833006E	09	1.4443882	-1.733645	1.907213	4.062	-3.739	406.674	0.7
62/ 8/30/ 4/ 0/30 150832964E	09	1.4443878	-1.733638	1.907216	3.294	-4.362	406.920	0.7
62/ 8/30/ 4/ 1/ 9 150832913E	09	1.4443874	-1.733631	2.537950	4.052	-2.836	407.172	0.7
62/ 8/30/ 4/ 1/45 150832863E	09	1.4443871	-1.733625	2.537952	1.904	-4.359	407.418	0.7
62/ 8/30/ 4/ 2/22 150832813E	09	1.4443867	-1.733618	2.537954	3.884	-3.062	407.663	0.7
62/ 8/30/ 4/ 2/59 150832771E	09	1.4443864	-1.733612	1.175869	5.643	-2.983	407.909	0.7
62/ 8/30/ 4/ 3/36 150832721E	09	1.4443860	-1.733605	2.537959	-1.782	-3.678	408.154	0.7
62/ 8/30/ 4/ 4/13 150832678E	09	1.4443857	-1.733599	3.368098	1.764	-3.465	407.622	0.7
62/ 8/30/ 4/ 4/50 150832628E	09	1.4443853	-1.733592	1.907233	3.163	-2.779	407.089	0.7
62/ 8/30/ 4/ 5/27 150832585E	09	1.4443849	-1.733585	1.907235	-4.320	-4.527	406.556	0.7
62/ 8/30/ 4/ 6/ 4 150832535E	09	1.4443846	-1.733579	1.907237	-3.395	-4.801	406.023	0.7
62/ 8/30/ 4/ 6/41 150832484E	09	1.4443842	-1.733572	1.907240	-4.571	-4.273	405.491	0.7
62/ 8/30/ 4/ 7/18 150832442E	09	1.4443839	-1.733566	0.443871	-4.692	-4.140	404.958	0.7
62/ 8/30/ 4/ 7/55 150832399E	09	1.4443835	-1.733559	2.537975	-3.018	-4.241	405.058	0.7

R I N E A 2

LONGITUDE	B-RADIAL	B-TANG	B-NORM	N.A.	N.A.	N.A.	N.A.	TOTAL FIELD
-1.733690	3.368068	3.580	-3.007	409.802	0.7563	-0.292	4.906	5.7620
-1.733684	2.537931	2.948	-3.734	410.012	0.7565	-0.333	3.942	5.2399
-1.733677	1.907201	3.422	-4.352	409.453	0.7559	-1.182	3.735	5.8558
-1.733671	3.368075	3.892	-2.705	408.894	0.7552	-0.525	5.120	5.8143
-1.733664	2.537938	3.765	-3.962	408.336	0.7545	-0.937	4.501	5.0691
-1.733658	2.537940	3.654	-4.065	407.792	0.7538	-0.859	4.424	6.0690
-1.733651	1.907211	3.537	-4.167	407.233	0.7531	-1.276	3.810	5.7886
-1.733645	1.907213	4.062	-3.739	406.674	0.7525	-1.662	4.168	5.8410
-1.733638	1.907216	3.294	-4.362	406.920	0.7528	-1.100	3.644	5.7888
-1.733631	2.537950	4.052	-2.836	407.172	0.7531	-1.152	4.696	5.6056
-1.733625	2.537952	1.904	-4.359	407.418	0.7534	0.416	3.227	5.4395
-1.733618	2.537954	3.884	-3.662	407.663	0.7537	-1.027	4.581	5.6055
-1.733612	1.175869	5.643	-2.983	407.909	0.7540	-3.309	4.720	6.4907
-1.733605	2.537959	-1.782	-3.678	408.154	0.7543	3.105	0.703	4.8640
-1.733599	3.368098	1.764	-3.465	407.622	0.7536	1.018	3.663	5.1442
-1.733592	1.907233	3.163	-2.779	407.089	0.7530	-1.004	3.555	4.6225
-1.733585	1.907235	-4.320	-4.527	406.556	0.7523	4.457	-1.559	6.5415
-1.733579	1.907237	-3.395	-4.801	406.023	0.7517	3.783	-0.925	6.1822
-1.733572	1.907240	-4.571	-4.273	405.491	0.7510	4.643	-1.725	6.5414
-1.733566	0.443871	-4.692	-4.140	404.958	0.7503	3.734	-2.875	6.2729
-1.733559	2.537975	-3.018	-4.241	405.058	0.7505	4.006	-0.129	5.8354