#287

IMP-H

72-073A-01A

TRI-AXIS MAGNETOMETER

13 Tapes

IMP-H

15 SECOND AVERAGED MAGNETIC VECTORS

72-073A-01A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 13 9-TRACK, 1600 BPI TAPES WRITTEN IN BINARY. THERE ARE TWO RESTORED TAPES. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 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
DR01728	DS01728	D17215	1-9	09/26/72 - 10/10/72
		D17216	10-18	10/10/72 - 10/25/72
		D17217	19-27	10/25/72 - 11/06/72
		D17218	28-30	11/06/72 - 11/12/72
		D17047	31-39	11/16/72 - 11/24/72
		D17048	40-48	11/24/72 - 12/07/72
		D17221	49-59	12/07/72 - 12/27/72
DR01737	DS01737	D17049	1-9	12/27/72 - 01/16/73
		D17051	10-18	01/16/73 - 02/01/73
		D17219	19-27	02/01/73 - 02/21/73
		D17052	28-36	02/21/73 - 03/05/73
		D17050	37-45	03/05/73 - 03/22/73
		D17220	46-51	03/22/73 - 04/03/73

REQ. AGENT	RAND NO.	ACQ. AGENT
CMM	RC1303	JHK
CAW	RC5708	JHK

IMP-H

72-073A-01A

STATISTICS TAPE PRODUCED

BY PHASE II PROGRAM

This data set consists of 13 stacked tapes. The tapes are 1600 BPI, Binary, 9 track, multi-filed.

They are as follows:

D#	C#	FP#	FILE#	START & STOP TIME	ORBIT#
D-17215	C-13348	5146	1	09/26/72-09/27/72	1
		5147	2	09/27/72-09/28/72	1
		5148	3	09/28/72-09/30/72	0
		5149	4	09/30/72-10/02/72	0
		5150	5	10/02/72-10/02/72	0
		5151	6	10/02/72-10/04/72	1
		5152	7	10/04/72-10/06/72	1
		5156	8	10/06/72-10/08/72	2
		5157	9	10/08/72-10/10/72	2
D-17216	C-13349	5158	1	10/10/72-10/11/72	2
		5159	2	10/11/72-10/13/72	1
		5160	3	10/13/72-10/14/72	1
		5172	4	10/14/72-10/15/72	1
		5173	5	10/15/72-10/17/72	2
		5174	6	10/17/72-10/19/72	2
		5175	7	10/19/72-10/21/72	2
		5195	8	10/21/72-10/23/72	2
		5196	9	10/23/72-10/25/72	2
D-17217	C-13350	5197	1	10/25/72-10/27/72	2
		5198	2	10/27/72-10/27/72	2
		5199	3	10/27/72-10/29/72	3
		5202	4	10/29/72-10/31/72	3
		5203	5	10/31/72-10/31/72	3
		5204	6	10/31/72-11/02/72	3
		5205	7	11/02/72-11/04/72	3
		5206	8	11/04/72-11/04/72	3
		5211	9	11/04/72-11/06/72	3
D-17218	C-13351	5228	1	11/06/72-11/08/72	3
		5239	2	11/10/72-11/12/72	3
		5241	3	11/12/72-11/12/72	3
D-17047	C-13204	5212	1	11/12/72-11/14/72	4
		5213	2	11/14/72-11/16/72	4

D#	C#	FP#	FILE#	START & STOP TIME	ORBIT#
		5214	3	11/16/72-11/16/72	4
		5215	4	11/16/72-11/18/72	4
		5216	5	11/18/72-11/20/72	4
		5217	6	11/20/72-11/20/72	4
		5124	7	11/20/72-11/22/72	4
		5125	8	11/22/72-11/24/72	4
		5126	9	11/24/72-11/24/72	4
D-17048	C-13205	5127	1	11/24/72-11/26/72	5
		5138	2	11/26/72-11/28/72	5
		5139	3	11/28/72-11/28/72	5
		5140	4	11/28/72-11/30/72	5
		5141	5	11/30/72-12/02/72	5
		5142	6	12/02/72-12/03/72	5
		5145	7	12/03/72-12/04/72	5
		5185	8	12/04/72-12/06/72	5
		5207	9	12/06/72-12/07/72	5
D-17221	C-13354	5208	1	12/07/72-12/09/72	6
		5221	2	12/09/72-12/11/72	6
		5222	3	12/11/72-12/11/72	6
		5223	4	12/11/72-12/13/72	6
		5224	5	12/13/72-12/15/72	6
		5225	6	12/15/72-12/17/72	6
		5201	7	12/17/72-12/19/72	6
		5227	8	12/19/72-12/21/72	7
		5218	9	12/21/72-12/23/72	7
		5219	10	12/23/72-12/25/72	7
		5220	11	12/25/72-12/27/72	7
D-17049-	C-13206	5143	1	12/27/72-12/28/72	8
		5144	2	12/29/72-12/31/72	8
		3329	3	12/31/72-12/31/72	8
		5154	4	12/31/72-12/31/72	8
		5155	5	01/02/73-01/04/73	8
		5161	6	01/04/73-01/06/73	8
		5162	7	01/06/73-01/08/73	8
		5163	8	01/12/73-01/14/73	9
		5164	9	01/14/73-01/16/73	9
D-170[illegible]	C-13208	5176	1	01/16/73-01/18/73	9
		5177	2	01/18/73-01/20/73	9
		5178	3	01/20/73-01/22/73	10
		5179	4	01/22/73-01/24/73	10
		5180	5	01/24/73-01/26/73	10
		5181	6	01/26/73-01/28/73	10
		5182	7	01/28/73-01/28/73	10
		5183	8	01/28/73-01/30/73	10
		5184	9	01/30/73-02/01/73	10

D#	C#	FP#	FILE#	START & STOP TIME	ORBIT#
D-17219	C-13352	5209	1	02/01/73-02/03/73	11
		5210	2	02/03/73-02/05/73	11
		2049	3	02/05/73-02/07/73	11
		2050	4	02/07/73-02/09/73	11
		2051	5	02/09/73-02/09/73	11
		3423	6	02/09/73-02/11/73	11
		3425	7	02/11/73-02/13/73	11
		2055	8	02/17/73-02/19/73	12
		2057	9	02/19/73-02/21/73	12
D-17052	C-13209	2058	1	02/21/73-02/21/73	12
		2059	2	02/21/73-02/23/73	12
		2063	3	02/23/73-02/25/73	12
		2064	4	02/25/73-02/27/73	12
		2066	5	02/27/73-03/01/73	12
		2067	6	03/01/73-03/01/73	12
		3427	7	03/01/73-03/03/73	13
		3429	8	03/03/73-03/05/73	13
		3438	9	03/05/73-03/05/73	13
D-17050	C-13207	2265	1	03/05/73-03/08/73	13
		2269	2	03/08/73-03/09/73	13
		2270	3	03/09/73-03/10/73	13
		2272	4	03/10/73-03/12/73	13
		2373	5	03/12/73-03/14/73	13
		2374	6	03/14/73-03/16/73	14
		2376	7	03/16/73-03/18/73	14
		2378	8	03/18/73-03/20/73	14
		2380	9	03/20/73-03/22/73	14
D-17220	C-13353	5242	1	03/22/73-03/24/73	14
		2391	2	03/24/73-03/26/73	14
		2395	3	03/26/73-03/28/73	15
		2396	4	03/28/73-03/30/73	15
		2400	5	03/30/73-04/01/73	15
		2527	6	04/01/73-04/03/73	15

IMP H/J 15.36 STATISTICS TAPE PRODUCED BY PHASE II PROGRAM

This tape is written by the Phase II program using the following DD card.

```
          IMPJ.SUMMARY
//FT20F001 DD DSN=IMPH.SUMMARY,LABEL=(1,SL,,OUT),
// DISP=(SHR,KEEP),DCB=(RECFM=VBS,BLKSIZE=16564,
// LRECL=276,DEN=3)
```

ITEM	DESCRIPTION	(TYPE)(SIZE)	UNITS	NOTES
1*	Year	I*4		Last two digits only
2*	Day	I*4	Days	Jan 1 = 0
3*	Milliseconds of day	I*4	Millisec	Elapsed Millisec in day
4*	Data Quality Flag	I*4		
5*	Orbit Number	I*4		
6*	Bit Rate Flag	I*4		
7*	Pseudo Sequence Count	I*4		
8*	Fill = Zero (0)	I*4		
9*	Housekeeping Data	I*4		See Footnote (1)
10	Field Magnitude (F1) (Average over 15.36 sec.)	R*4	γ	$F1 = \frac{1}{n}\sum^{n} F_i$ where F_i is computed by PAYSTA subroutine over 1.28 seconds.
11	Field Magnitude (F2) (Average over 15.36 sec.)	R*4	γ	See Footnote (2)
12	Field Latitude (or inclination θ)(Average over 15.36 sec.)	R*4	Degrees	$-90° < \theta < +90°$ (Footnote 4)
13	Field Longitude (or azimuthal angle) ϕ (Average over 15.36 sec.)	R*4	Degrees	$0° < \phi < 360°$ (Footnote 4)

* Items 1 thru 9 are for the <u>last</u> sequence included in the 15.36 second statistical computation.

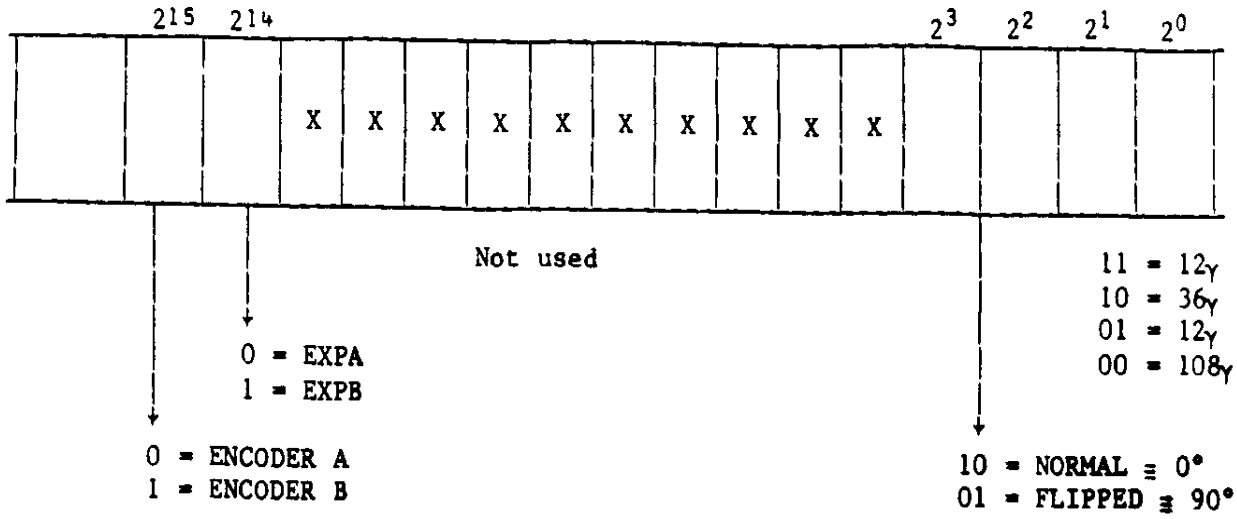
ITEM	DESCRIPTION	(TYPE)(SIZE)	UNITS	NOTES
14	Variance XX from averages	R*4	γ^2	Variance Matrix over 15.36 sec
15	Variance YY from averages	R*4	γ^2	$\begin{vmatrix} V_{XX} & -- & -- \\ V_{YX} & V_{YY} & -- \\ V_{ZX} & V_{ZY} & V_{ZZ} \end{vmatrix}$
16	Variance ZZ from averages	R*4	γ^2	
17	Variance YX from averages	R*4	γ^2	
18	Variance ZX from averages	R*4	γ^2	See footnote (3)
19	Variance ZY from averages	R*4	γ^2	
20	N	I*4		Number of sequences over which statistics were computed. N_{max} = 384
21	ND	I*4		Number of detail points over which statistics were computed. ND_{max} = 384
22	Trajectory (Day)	I*4	Day	January 1 = 0
23	Trajectory (millisec of day)	I*4	Millisec	
24	Geomagnetic Latitude of S/C	R*4	Degrees	
25	Geomagnetic Longitude of S/C	R*4	Degrees	
26	X Geocentric SE position of S/C	R*4	Kilometers	
27	Y Geocentric SE position of S/C	R*4	Kilometers	
28	Z Geocentric SE position of S/C	R*4	Kilometers	
29	Radial Distance	R*4	Kilometers	

ITEM	DESCRIPTION	(TYPE)(SIZE)	UNITS	NOTES
30	Y Solar Magnetospheric position of S/C	R*4	Kilometers	
31	Z Solar Magnetospheric position of S/C	R*4	Kilometers	
32	Geomagnetic Latitude of Sun	R*4	Degrees	
33	Geomagnetic Longitude of Sun	R*4	Degrees	
34	X Moon's Position in Geocentric SE	R*4	Kilometers	
35	Y Moon's Position in Geocentric SE	R*4	Kilometers	
36	Z Moon's Position in Geocentric SE	R*4	Kilometers	
37		R*4		Element given in following order:
38		R*4		
39		R*4		1st row, 1st col. 1st row, 2nd col. 1st row, 3rd col. 2nd row, 1st col. 2nd row, 2nd col. 2nd row, 3rd col. 3rd row, 1st col. 3rd row, 2nd col. 3rd row, 3rd col.
40	Items 37 thru 45 Rotation Matrix from SE to SM	R*4		
41		R*4		
42		R*4		
43		R*4		
44		R*4		37 thru 45
45		R*4		
46		R*4		Same order for elements
47	Items 46 thru 54 Rotation Matrix from CI to SE (CI=Celestial Inertial)	R*4		46 thru 54
48		R*4		
49		R*4		
50		R*4		
51		R*4		

ITEM	DESCRIPTION	(TYPE)(SIZE)	UNITS	NOTES
52		R*4		
53		R*4		
54		R*4		
55	Fill = Zero (0)	R*4		
56	Fill = Zero (0)	R*4		
57	Angle of right ascension of spin vector of S/C in C.I.	R*4	Degrees	
58	Angle of declenation of spin vector of S/C in C.I.	R*4	Degrees	
59	Field latitude, θ_{SE}, in SE coordinates (Averaged over 15.36 sec)	R*4	Degrees	
60	Field latitude, θ_{SM}, in SM coordinates (Averaged over 15.36 sec)	R*4	Degrees	
61	Field longitude, ϕ_{SE}, in SE coordinates (Averaged over 15.36 sec)	R*4	Degrees	
62	Field Longitude, ϕ_{SM}, in SM coordinates (Averaged over 15.36 sec)	R*4	Degrees	
63	BX_{SE} Averaged over 15.36 sec	R*4	γ	
64	BY_{SE} Averaged over 15.36 sec	R*4	γ	
65	BZ_{SE} Averaged over 15.36 sec	R*4	γ	
66	BX_{SM} Averaged over 15.36 sec	R*4	γ	
67	BY_{SM} Averaged over 15.36 sec	R*4	γ	
68	BZ_{SM} Averaged over 15.36 sec	R*4	γ	

Footnotes

(1)



(2) $F2 = SQRT((\frac{1}{N}\sum_{i=1}^{N} X_i)^2 + (\frac{1}{N}\sum_{i=1}^{N} Y_i)^2 + (\frac{1}{N}\sum_{i=1}^{N} Z_i)^2)$ where X_i, Y_i, & Z_i are computed by PAYSTA subroutine over 1.28 seconds.

(3) e.g., $V_{XX} = (N \sum_{i=1}^{N} X_i^2 - \sum_{i=1}^{N} X_i \sum_{i=1}^{N} X_i)/N(N-1)$

and $V_{ZY} = (N \sum_{i=1}^{N} Z_i Y_i - \sum_{i=1}^{N} Z_i \sum_{i=1}^{N} Y_i)/N(N-1)$, etc.

(4) The quasi-payload coordinate system is spacecraft centered with $\hat{X}_p$ toward the Sun, Z_p aligned with the spin axis and positive at or near North-SE (usually within 2°), and $X_p \times Y_p = Z_p$.

RECORD 1 OF FILE 1
LENGTH = 16564 BYTES

		HR	DAY						
40B40000	01140000	00000048	0000010D	030BC5E0	00000000	00000001	00000001	0000A7FF	00000000
FFFFBB37	416286A9	41627EE0	41CDF7C7	4268C3A0	3F4F1555	3F587C1F	3F1762E8	3EB4BA2E	3E791745
3F120F83	0000000C	00000180	0000010D	030C0780	C166134D	42295E16	4537808A	44D8B608	C491DCA6
4539DA89	4472B95B	C4EAAFC1	4185FBE2	4222341A	C53C19D2	C54109F6	446EC359	41100000	00000000
00000000	00000000	40DDB0BA	40800563	00000000	C0800563	40DDB0BA	C0FF80DE	BFE9F47F	BF65732E
3FFF0108	C0EA69C8	C065A609	00000000	C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687
42144012	C18C00F1	42699CD6	4268CD2E	C118DEA9	4158FF7D	41221769	C118DEA9	415E1E6B	C0EFBDF0
01140000	00000048	0000010D	030C01C0	00000000	00000001	00000001	0000A80B	00000000	FFFFBB37
41626924	416249BE	419C05A5	426539E0	40137455	3F5EC9B2	3F64BEE8	BF267E0F	3F7A60EA	BF4662E8
0000000C	00000180	0000010D	030C0780	C166134D	42295E16	4537808A	44D8B608	C491DCA6	4539DA89
4472B95B	C4EAAFC1	4185FBE2	4222341A	C53C19D2	C54109F6	446EC359	41100000	00000000	00000000
00000000	40DDB0BA	40800563	00000000	C0800563	40DDB0BA	C0FF80DE	BFE9F47F	BF65732E	3FFF0108
C0EA69C8	C065A609	00000000	C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687	42114FC5
C1C1A88E	4265C871	4265804B	C1132962	415BDBBC	411D3F55	C1132962	415E2C63	C1149BEF	01140000
00000048	0000010D	030C30B6	00000000	00000001	00000001	0000A817	00000000	FFFFBB37	416697E5
4166778C	419A5E72	42649560	40197345	3F67A2E8	3F157CBA	3F623E0F	BF1C7F45	3DC00000	0000000C
00000180	0000010D	030C0780	C166134D	42295E16	4537808A	44D8B608	C491DCA6	4539DA89	4472B95B
C4EAAFC1	4185FBE2	4222341A	C53C19D2	C54109F6	446EC359	41100000	00000000	00000000	00000000
40DDB0BA	40800563	00000000	C0800563	40DDB0BA	C0FF80DE	BFE9F47F	BF65732E	3FFF0108	C0EA69C8
C065A609	00000000	C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687	42113CD2	C1C3DF50
42651D8D	4264DC2F	C112DDEB	41600759	411E5D50	C112DDEB	416257ED	C115BA2D	01140000	00000048
0000010D	030C7980	00000000	00000001	00000001	0000A823	00000000	FFFFBB37	416381D9	416364CA
4160F8CE	4267822A	3FC64BA2	3F824D93	3F9CDDD1	3F5549B2	3F1E4993	BF1B0000	0000000C	00000180
0000010D	030C0780	C166134D	42295E16	4537808A	44D8B608	C491DCA6	4539DA89	4472B95B	C4EAAFC1
4185FBE2	4222341A	C53C19D2	C54109F6	446EC359	41100000	00000000	00000000	00000000	40DDB0BA
40800563	00000000	C0800563	40DDB0BA	C0FF80DE	BFE9F47F	BF65732E	3FFF0108	C0EA69C8	C065A609
00000000	C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687	41D83AF3	C1FA336E	4267EFEE
4268132E	C11746DF	415DCBE8	41173A2E	C11746DF	415CD75B	C11ACAAB	01140000	00000048	0000010D
030CB590	00000000	00000001	00000001	0000A82F	00000000	FFFFBB37	4160E1CE	4160D6D8	4141 6E65
4266C132	3F6A08BA	3F5E0F83	3F264F26	BE8764D9	3F21683E	BF1EB83E	0000000C	00000180	0000010D
030C0780	C166134D	42295E16	4537808A	44D8B608	C491DCA6	4539DA89	4472B95B	C4EAAFC1	4185FBE2
4222341A	C53C19D2	C54109F6	446EC359	41100000	00000000	00000000	00000000	40DDB0BA	40800563
00000000	C0800563	40DDB0BA	C0FF80DE	BFE9F47F	BF65732E	3FFF0108	C0EA69C8	C065A609	00000000
C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687	4189557A	C211A85B	4267113C	42677CE0
C11572EB	415C690E	411371D7	C11572EB	4159BFD0	C11D5FC6	01140000	00000048	0000010D	030CF180
00000000	00000001	00000001	0000A83B	00000000	FFFFBB37	4161C9FC	4161B391	4113A653	4264C582
3FDF8745	3F341F07	3F5144E4	BE55B26C	3F534726	BF217EC9	0000000C	00000180	0000010D	030CF1E0
C1658877	42292514	45377FC4	44D8F299	C4918502	4539DA49	44732E88	C4EA95B0	41867024	4221F3D5
C53C1A04	C54109C8	446EC359	41100000	00000000	00000000	40DDC937	407FDAF3	00000000	
C07FDAF3	40DDC937	C0FF80D2	BFE9FFB7	BF65780B	3FFF0D42	C0EA69BD	C065A604	00000000	C065D89D
40EADE6A	00000000	00000000	425C1AB9	C24A8687	418D1539	C21498CB	4264E8BD	4268896D	C1124A7C
415ECC57	40EFA0A9	C1124A7C	41599BC3	C1225ED2	01140000	00000048	0000010D	030D2D70	00000000
00000001	00000001	0000A847	00000000	FFFFBB37	4164E14C	4164C3BF	C02EA0DC	426636B6	4015DA09
3F724D93	3F282AB6	3F41C1F0	3F451B19	3F35420F	0000000C	00000180	0000010D	030CF1E0	C1658877
42292514	45377FC4	44D8F299	C4918502	4539DA49	44732E88	C4EA95B0	41867024	4221F3D5	C53C1A04
C54109C8	446EC359	41100000	00000000	00000000	40DDC937	407FDAF3	00000000	C07FDAF3	
40DDC937	C0FF80D2	BFE9FFB7	BF65780B	3FFF0D42	C0EA69BD	C065A604	00000000	C065D89D	40EADE6A
00000000	00000000	425C1AB9	C24A8687	41757C4B	C215EA22	42664F87	42672CE8	C1154ED3	4161A3EA
40CE0B8E	C1154ED3	415B05CF	C1259B96	01140000	00000048	0000010D	030D6960	00000000	00000001
00000001	0000A853	00000000	FFFFBB37	416220FC	41620E64	C1223F98	42684ED7	3F9A783E	3F7AC9E2
3F513611	3F29D745	3F2BF182	BF2F1174	0000000C	00000180	0000010D	030CF1E0	C1658877	42292514
45377FC4	44D8F299	C4918502	4539DA49	44732E88	C4EA95B0	41867024	4221F3D5	C53C1A04	C54109C8
446EC359	41100000	00000000	00000000	00000000	40DDC937	407FDAF3	00000000	C07FDAF3	40DDC937
C0FF80D2	BFE9FFB7	BF65780B	3FFF0D42	C0EA69BD	C065A604	00000000	C065D89D	40EADE6A	00000000
00000000	425C1AB9	C24A8687	41548675	C217B8AA	42685117	426999C6	C11824FD	415E9B7B	40907382
C11824FD	415678E4	C1276DB5	01140000	00000048	0000010D	030DA540	00000000	00000001	00000001

File 1
Sept 26, 1972
FP5146
Orbit 1
Sept 27, 1972

D-17215
C-13348

RECORD 1 OF FILE 2
LENGTH = 16564 BYTES

40B40000	01140000	00000048	0000010E	04C5FE50	00000000	00000001	C0000001	0002088B	00000000
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C1552885	0000000C	00000180	0000010E	04C55040	4117338B	C22A1879	4527A451	452598A1	44A057C3
45378BD5	4526D7BD	44244C1B	C113F1D1	C2567BBD	C52548EB	C551502F	44560570	41100000	00000000
00000000	00000000	40FAC961	403366A8	00000000	C03366A8	40FAC961	C0FF128D	C013F9A1	BF8A96C7
4015C5B4	C0EA0492	C0657A26	00000000	C065D89D	40EADE6A	00000000	00000000	425C1AB9	C24A8687
421BF27A	42198C5E	42AAF818	42A53C24	C15EA923	40F0E8A3	4132D9B6	C15EA923	4118F2DE	412ECB46
01140000	00000048	0000010E	04C63A40	00000000	00000001	00000001	00020897	00000000	000077E5
41560DB1	41560440	42155CD1	429E7F49	3E8345D1	3F502E8E	3EFBE0F8	3F186C9B	3E461FC7	3E9326C9
0000000C	00000180	0000010E	04C55040	4117338B	C22A1879	4527A451	452598A1	44A057C3	45378BD5
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4218ADC0	429F9B38	429A2AB3	C1465968	411A2761	412A0582	C1465968	41220EF9	4123EA19	01140000
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3F174F83	3F4A0F83	BE462E8B	3F25F64D	BF142C9B	0000000C	00000180	0000010E	04C72500	411659EC
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3F25F26C	BD9D9364	3E464D93	BE2A8BA2	0000000C	00000180	0000010E	04C72500	411659EC	C22A8D48
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File 2
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