

#347

IMP-D
&
IMP-E

HALF HOURLY SUM DATA

66-058A-05H (IMP-D)

67-070A-01H (IMP-E)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMP-D

HALF HOUR SUMMED DATA ON MAG TAPE

66-058A-05H PSFP-00122

This data set has been restored. There were originally three 7-track, 800 BPI tapes written in Binary. There are two restored tapes. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tapes were created on a IBM 360 computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03770	DS03770	D23733	1	06/30/66 - 01/14/68
		D23732	2	01/14/68 - 05/31/69
DR03797	DS03797	D23731	1	05/31/69 - 11/02/71

Refer to 67-070A-01H

IMP-E

HALF HOUR SUMMED DATA ON MAG TAPE

67-070A-01H PSFP-00021

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 3
7-TRACK, 800 BPI TAPES, WRITTEN IN BINARY. THERE ARE TWO
RESTORED TAPES. THE TAPES ARE NOT IN SEQUENTIAL ORDER. 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
-----	-----	-----	-----	-----
DR03858	DS03858	D25132	1	07/18/67 - 02/21/69
		D25134	2	11/24/70 - 06/23/73
DR03859	DS03859	D25133	1	03/11/69 - 10/28/70

REQ. AGENT
CMP
CAW

RAND NO.
RC6126
RC6565

ACQ. AGENT
CDW
CDW

IMP-D & IMP-E

HALF HOURLY SUM DATA

66-058A-05H

67-070A-01H

The IMP-D data set (66-058A-05H) contains 3 tapes of Half Hourly Sum Data. The IMP-E data set (67-070A-01H) contains 3 tapes (5 'C' tapes) of Half Hourly Sum Data. These tapes were created on the UNIVAC 418 computer and are all 7-track, 800 BPI, Binary with 1 file. The format for both data sets are on the following pages. Listed below are th 'D' and 'C' numbers along with the time spans.

IMP-D

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-23731	C-17905	05/31/69 - 11/02/71
D-23732	C-17906	01/14/68 - 05/31/69
D-23733	C-17907	06/30/66 - 01/14/68

IMP-E

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-25132	C-18356	07/18/67 - 02/21/69
	C-18357	02/21/69 - 03/09/69
D-25133	C-18358	03/11/69 - 10/28/70
	C-18359	10/28/70 - 11/20/70
D-25134	C-18360	11/24/70 - 06/23/73

Explorers 33/35
UNIVERSITY OF IOWA

IPESUM TAPE

These tapes contain 1/2 hour sums for each detector. The data are stored in either 18 or 36 bit integer format. To convert to counts per second the following conversion needs to be made.

1. Unsectored Detectors

$$\text{CPS} = \text{SUM} / (\text{NUMBER-OF-SAMPLES} * 25.57)$$

2. Sected Detectors

$$\text{CPS} = \text{SUM} / (\text{NUMBER-OF-SAMPLES} * 25.57/4.)$$

Special Considerations for IMP-D Tapes.

1. To obtain PN1 Sector Sums the following items must be summed together.

15 + 27 P1SECT NO + P4SECT NO
16 + 28 P1S1 + P4S1
17 + 29 P1S2 + P4S2
18 + 30 P1S3 + P4S3
19 + 31 P1S4 + P4S4

There is no PN4 sectored data for IMP-D.

2. Items 33 and 34 (PN4 NO. and PN4 Sums) are not valid data for IMP-D.

Explorers 33/35
UNIVERSITY OF IOWA

IPESUM OUTPUT FORMAT

	<u>WORDS</u>
1 Block Count	0
2 Number of words in each record	1
3 Beginning Year	2
4 Beginning Day	3
5 Beginning Day Fraction	4,5
6 End Year	6
7 End Day	7
8 End Day Fraction	8,9
9 G1Sect No.	10
10 G1S1 Sum	11,12
11 G1S2 Sum	13,14
12 G1S3 Sum	15,16
13 G1S4 Sum	17,18
14 G1Sect Sum	19,20
15 P1Sect No.	21
16 P1S1 Sum	22,23
17 P1S2 Sum	24,25
18 P1S3 Sum	26,27
19 P1S4 Sum	28,29
20 P1Sect Sum	30,31
21 PN2 No.	32
22 PN2 Sum	33,34
23 GM2 No.	35
24 GM2 Sum	36,37
25 GM3 No.	38
26 GM3 Sum	39,40
27 P4Sect No.	41
28 P4S1 Sum	42,43
29 P4S2 Sum	44,45
30 P4S3 Sum	46,47
31 P4S4 Sum	48,49
32 P4Sect Sum	50,51
33 PN4 No.	52
34 PN4 Sum	53,54
35 PN3 No.	55
36 PN3 Sum	56,57
37 PNL No.	58
38 PNL Sum	59,60
39 GM1 No.	61
40 GM1 Sum	62,63

```

IEF2251 VOL SER NOS= K3SYS1.
IEF2251 SYS76256.T080403.RV000.YZJRJWE3.LODMCD PASSED
IEF2251 VOL SER NOS= K3SCR3.
IEF2251 SYS76256.T080403.SV000.YZJRJWE3.R0000607 SYSOUT
IEF2251 VOL SER NOS= K3SCR3.
IEF2251 SYS76256.T080403.SV000.YZJRJWE3.R0000608 SYSCUT
IEF2251 VOL SER NOS= K3SCR2.
IEF2251 SYS76256.T080403.RV000.YZJRJWE3.R0000609 DELETED
IEF2251 VOL SER NOS= K3SCR2.
IEF2251 SYS76256.T080403.RV000.YZJRJWE3.S0000610 SYSIN
IEF2251 VOL SER NOS= K3SCR3.
IEF2251 SYS76256.T080403.RV000.YZJRJWE3.S0000610 DELETED
IEF2251 VOL SER NOS= K3SCR3.

```

```

IEF3731 STEP /LINK / START 76258.1954
IEF3741 STEP /LINK / STOP 76258.1955 CPU 0MIN 02.67SEC MAIN 130K LCS OK
- STEP 01 - RETURN CODE = 0000

```

```

XXGO EXEC PGM=*.LINK.SYSLMCD,COND=(4,LT),REGION=70K STEP TIME = .22 MINS=(CPU=.04,I/O=.18)
XXFT05F001 DD DDNAME=DATA5 ID IN SECS. DISK= 10.55,DRUM= .56,TAPE= .00,CEL=.00,OTHR=.15
XXFT06F001 DD SYSOUT=8OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=8BLKSIZE) 00000230
IEF6531 SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265) 00000240
XXFT07F001 DD SYSOUT=8,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80) 00000250
XXSYSPRINT DD SYSOUT=8CUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=8BLKSIZE). 00000260
IEF6531 SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265), 00000270
XX SPACE=(CYL,(0,1)),UNIT=(DISK,3) 00000280
//GO.FT08F001 DD UNIT=7TRACK,DISP=(OLD,KEEP),LABEL=(01,BLP.,IN),
// DCB=(BLKSIZE=32000,RECFM=U,DEN=2),
// VOL=SER=JJ0043
//GO.DATAS DC *

```

```

IEF2361 ALLOC. FOR YZJRJWE3 GO
IEF2371 232 ALLOCATED TO PGM=*.DD
IEF2371 231 ALLOCATED TO FT05F001
IEF2371 331 ALLOCATED TO FT06F001
IEF2371 331 ALLOCATED TO FT07F001
IEF2371 331 ALLOCATED TO SYSPRINT
IEF2371 231 ALLOCATED TO SYSPRINT
IEF2371 232 ALLOCATED TO SYSPRINT
IEF2371 0C0 ALLOCATED TO FT08F001

```

IMP-E

(67-070A-01H) 1 of 1

70 318
 RECCRD 1 OF FILE 1 HALF HOUR SUM DATA
 LENGTH = 192 BYTES
 11/24/70 - 06/23/73
 DUMP OF D-25134

1(1)	000012000100	000106000510	000416161734	000106000510	000425635350	000023000000	000067000000	000064000000
9(49)	040654000000	000100000000	041127000013	000000000032	000000000043	000000000061	000000000034	000000000212
17(97)	000013000000	000111000013	000000000130	000013000000	000243000013	000000000002	000000000002	000000000001
25(145)	000000000000	000000000005	000013000000	000004000013	000000000000	000013000000	000220000012	000000021361

RECCRD 2 OF FILE 1
 LENGTH = 192 BYTES

1(1)	00135000C100	000106000505	000256736462	000106000505	000266412102	000023000000	000144000000	000144000000
9(49)	113400000000	000126000000	114036000013	000000000026	000000000031	000000000046	000000000032	000000000157
17(97)	000013000000	000065000013	000000000126	000013000000	000435000013	000000000000	000000000000	000000000001
25(145)	000000000000	000000000001	000013000000	000003000013	000000000000	000013000000	000173000011	000000044601

RECCRD 3 OF FILE 1
 LENGTH = 192 BYTES

1(1)	001351000100	000106000505	000266703045	000106000505	000276356470	000023000000	000152000000	000163000000
9(49)	077266000000	000142000000	077765000013	000000000027	000000000025	000000000052	000000000034	000000000162
17(97)	000013000000	000056000013	000000000121	000013000000	000426000013	000000000000	000000000000	000000000000
25(145)	000000000002	000000000002	000013000000	000003000013	000000000000	000013000000	000140000012	000000041416

UJGR 8:34:2
CLASS IN MS5 FI SCA SI TY
EXEC MAIN FI

X-433

IMP-D

D-23731

5/31/69-11/2/71

INPUT TAPE ON MS5

DATA INPUT

1 3 5

61

151

FILE 1 RECORD 1 LENGTH 192 BYTES

(0) 000300000100 000105000227 000306750523 000105000227 000306750523 000014000000 000050000000 000062000000

(48) 000041000000 000063000000 000256000007 000000000011 000000000021 000000000011 000000000010 000000000053

(96) 000000000000 000000000007 000000000137 000003000000 001635000006 000000000010 000000000013 000000000012

(144) 000000000007 000000000044 000000000000 000000000006 000000000004 000000000000 000000000006 000000000132

FILE 1 RECORD 2 LENGTH 192 BYTES

(0) 000301000100 000105000227 000306750523 000105000227 000316404305 000025000000 000102000000 000063000000

(48) 000055000000 000056000000 000340000013 000000000010 000000000012 000000000012 000000000014 000000000050

(96) 000002000000 000000000013 000000000236 000001000000 000551000013 000000000016 000000000015 000000000017

(144) 000000000014 000000000066 000000000000 000000000013 000000000005 000001000000 000000000013 000000000171

FILE 1 RECORD 3 LENGTH 192 BYTES

(0) 000302000100 000105000227 000316675246 000105000227 000326351031 000025000000 000074000000 000103000000

(48) 000101000000 000103000000 000403000013 000000000010 000000000016 000000000006 000000000005 000000000041

(96) 000001000000 000000000013 000000000166 000005000000 001766000013 000000000004 000000000007 000000000011

(144) 000000000007 000000000033 000001000000 000002000013 000000000006 000000000000 000000000013 000000000210

FILE 1 RECORD 22569 LENGTH 192 BYTES

(0) 000547000100 000107000460 000565600036 000107000460 000574770607 000023000000 000112000000 000100000000

(48) 000047000000 000101000000 000402000012 0000000021075 0000000020436 0000000020746 0000000022716 000000105417

(96) 000000000000 000000000013 000000000200 000000000000 000000000012 0000000020145 000000017767 000000020052

(144) 000000021777 000000102205 000000000000 000000000012 000000000032 000000000000 000000000010 000000000146

FILE 1 RECORD 22570 LENGTH 192 BYTES

(0) 000650000100 000107000461 000005447117 000107000462 000007574510 000007000000 000025000000 000021000000

(48) 000031000000 000027000000 000126000003 0000000000703 0000000000673 0000000000733 0000000000760 000000003511

(96) 000001000000 000132000003 000000000047 000002000000 000031000003 0000000000740 000000001123 000000001107

(144) 000000001167 000000004361 000003000000 001504000004 0000000000366 000000000000 000000000004 000000000057

FILE 1 RECORD 22571 LENGTH 192 BYTES

(0) 000650000100 000107000462 000000005461 000107000462 000016757334 000022000000 000073000000 000063000000

(48) 000104000000 000073000000 000342000010 000000002451 000000002511 000000002507 000000002654 000000012545

(96) 000001000000 000123000011 000000000145 000000000000 000072000010 0000000003167 0000000003422 000000003352

(144) 000000003532 000000010015 000002000000 001272000011 0000000001135 000000000000 000000000010 000000000150

FILE 1 # OF DATA RECORDS 22571 # SUCCESSFUL READS 22574
PERMANENT READ ERRORS 0 # ZERO BYTE ERRORS 0 # SHORT RECORDS 0 # UNDEFINED ERRORS 0
OF RECORDS RETRIED 0 TOTAL # OF RETRIES 0