#347

IMP-D
&
IMP-E

HALF HOURLY SUM DATA

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

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

IMP-D

HALF HOUR SUMMED DATA ON MAG TAPE

66-058A-05H

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

REQ. AGENT	RAND NO.	ACQ. AGENT
CMP	RC6126	CDW
CAW	RC6565	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

D#	C#	TIME SPAN
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

D#	C#	TIME SPAN
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

   CPS = SUM/(NUMBER-OF-SAMPLES * 25.57)

2. Sectored Detectors

   CPS = SUM/(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

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IPESUM OUTPUT FORMAT

		WORDS
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	PN1 No.	58
38	PN1 Sum	59,60
39	GM1 No.	61
40	GM1 Sum	62,63

```
IEF285I    VOL SER NOS= K3SYS1.
IEF285I    SYS76258.T080403.RV000.YZJRJWE3.LODMCD          PASSED
IEF285I    VOL SER NOS= K3SCR3.
IEF285I    SYS76258.T080403.SV000.YZJRJWE3.R0000607        SYSOUT
IEF285I    VOL SER NOS= K3SCR3.
IEF285I    SYS76258.T080403.SV000.YZJRJWE3.R0000608        SYSOUT
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS76258.T080403.RV000.YZJRJWE3.R0000609        DELETED
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS76258.T080403.RV000.YZJRJWE3.S0000610        SYSIN
IEF285I    VOL SER NOS= K3SCR3.
IEF285I    SYS76258.T080403.RV000.YZJRJWE3.S0000610        DELETED
IEF285I    VOL SER NOS= K3SCR3.
IEF373I STEP /LINK     / START 76258.1954
IEF374I STEP /LINK     / STOP  76258.1955 CPU    0MIN 02.67SEC MAIN 130K LCS    0K
- STEP 01 -      RETURN CODE = 0000                                  STEP TIME =      .22 MINS=(CPU=      .04,IO=      .18)
                                        IO IN SECS. DISK=    10.55,DRUM=      .56,TAPE=      .00,CELL=      .00,OTHR=      .15
     XXGO        EXEC PGM=*.LINK.SYSLMCD,COND=(4,LT),REGION=70K                  00000230
     XXFT05F001 DD  DDNAME=DATA5                                                 00000240
     XXFT06F001 DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE)        00000250
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
     XXFT07F001 DD SYSOUT=B,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80)                 00000260
     XXSYSPRINT DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE),       00000270
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
     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.DATA5 DD *
     //
IEF236I ALLOC. FOR YZJRJWE3 GO
IEF237I 232    ALLOCATED TO PGM=*.DD
IEF237I 231    ALLOCATED TO FT05F001
IEF237I 331    ALLOCATED TO FT06F001
IEF237I 331    ALLOCATED TO FT07F001
IEF237I 331    ALLOCATED TO SYSPRINT
IEF237I 231    ALLOCATED TO SYSPRINT
IEF237I 232    ALLOCATED TO SYSPRINT
IEF237I 0C0    ALLOCATED TO FT08F001
```

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

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

70 328

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

RECORD 2 OF FILE 1
LENGTH = 192 BYTES

1(1)	001350000100	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

RECORD 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

IMP-D

X-433

D-23731

5/31/69 - 11/2/71

```
-JOB    8:34:2
CASS IN MS5 RI SCA SI TY
*EXEC MAIN RI
 INPUT TAPE ON MS5
 DATA INPUT    1 3 5              41    49
  FILE  1      RECORD    1        LENGTH    192  BYTES
  (     0)  000300000100  000105000227  000321064550  000105000227  000306437562  000014000000  000050000000  000062000000
  (    48)  000041000000  000063000000  000256000007  000000000011  000000000021  000000000011  000000000010  000000000053
  (    96)  000000000000  000000000007  000000000137  000003000000  001635000006  000000000010  000000000013  000000000012
  (   144)  000320000007  000000010044  000000000000  000000000006  000000000004  000000000000  000000000006  000000000132
  FILE  1      RECORD    2        LENGTH    192  BYTES
  (     0)  000301000100  000105000227  000306750523  000105000227  000316404305  000025000000  000102000000  000063000000
  (    48)  000045000000  000056000000  000340000013  000000000010  000000000012  000000000012  000000000014  000000000050
  (    96)  000202000000  000000000013  000000000236  000001000000  000551000013  000000000016  000000000015  000000000017
  (   144)  000000000014  000000000066  000000000000  000000000013  000000000005  000001000000  000000000013  000000000171
  FILE  1      RECORD    3        LENGTH    192  BYTES
  (     0)  000320000100  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  000061000000  000002000013  000000000006  000000000000  000000000013  000000000210
  FILE  1      RECORD   22569     LENGTH    192  BYTES
  (     0)  000347000100  000107000460  000565600036  000107000460  000574770607  000023000000  000112000000  000100000000
  (    48)  000067000000  000101000000  000402000012  000000021075  000000020436  000000020746  000000022716  000000105417
  (    96)  000000000000  000000000013  000000000200  000000000000  000000000012  000000020145  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  000000000703  000000000673  000000000733  000000000760  000000003511
  (    96)  000001000000  000132000003  000000000047  000002000000  000031000003  000000000740  000000001123  000000001107
  (   144)  000000001107  000000004361  000003000000  001504000004  000000000366  000000000000  000000000004  000000000057
  FILE  1      RECORD   22571     LENGTH    192  BYTES
  (     0)  000650000100  000107000462  000010065461  000107000462  000016757334  000022000000  000073000000  000063000000
  (    48)  000104000000  000070000000  000352000010  000000002451  000000002511  000000002507  000000002654  000000012545
  (    96)  000591000000  000123000011  000000000145  000000000000  000072000010  000000003167  000000003422  000000003352
  (   144)  000000003632  000000016015  000002000000  001272000011  000000001135  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

$$
$REW LO
```