

CW
4/76

794

OS0-7

Whole 2-400 Dataset on 9-Track Tape

71-083A-01A

Whole 2-400 Dataset on 4mm

71-083A-01B

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

OSO-7

WHOLE 2-400A DATASET ON 9 TRK

71-083A-01A SOUV-00007

WHOLE 2-400A DATASET ON 4MM

71-083A-01B SOUV-00011

THIS DATA SET CATALOG CONSISTS OF TWO DATASETS. THE FIRST DATASET CONTAINS 14 9-TRACK, 6250 BPI, D TAPES, AND 14 3480 C TAPES WRITTEN IN BINARY. THE SECOND DATASET CONTAINS ONE 4MM D TAPE, AND ONE 8MM C TAPE WRITTEN IN VAX BACK-UP FORMAT. BOTH DATASETS WERE CREATED ON THE VAX COMPUTER. THESE TAPES DO NOT APEAR TO ALWAYS BE IN TIME SEQUENTIAL ORDER. THE D AND C NUMBER ALONG WITH THE TIME SPANS ARE LISTED BELOW.

71-083A-01A

D#	C#	FILES	TIME SPAN
-----	-----	-----	-----
D103836	C032724	245	10/12/71 - 10/30/72
D103837	C032725	139	01/17/72 - 03/24/72
D103838	C032726	159	03/25/72 - 05/21/72
D103839	C032727	207	06/01/72 - 08/28/72
D103840	C032728	156	08/29/72 - 11/01/72
D103841	C032729	152	11/02/72 - 12/26/72
D103842	C032730	194	01/01/73 - 03/09/73
D103843	C032731	48	10/09/72 - 03/15/73
D103844	C032732	542	10/12/71 - 11/01/73
D103845	C032733	760	06/01/72 - 03/15/73
D103846	C032734	350	11/20/71 - 11/21/72
D103847	C032735	366	03/17/72 - 12/26/72
D103848	C032736	486	11/16/71 - 03/07/73
D103849	C032737	243	07/29/72 - 03/11/73

71-083A-01B

D#	C#	FILES	TIME SPAN
-----	-----	-----	-----
D103850	C032738	1	10/12/71 - 11/01/73

3.6 DESCRIPTION OF THE FINAL DATA FORMATS

The data records for each meld of small raster data consist of two parts. One will be list of formatted status and flag information that will be converted to extended binary decimal values, and buffered out onto one binary record. The second part of the record will contain a 50 x 50 integer array which is the melded raster data. The large raster has a status record identical to the small raster. The 100 x 100 data point raster pattern is given as 5, 20 line by 100 points line block data records. To make the task of reading the data as simple as possible, we have encoded the status portion of the record as a string of BCID characters into one physical record.

Because we are converting our output data to character strings, it is important to have an understanding of the type of format and the length of the data fields. Table I shows the status record. The column labeled format describes the original format before the data is created into a BCD (EBDIC) character string. The field column shows how many characters are in the string for each entry. Tables 2A through 2D list a breakdown of the ICODE flag.

III.b. DATA FORMATS - PROCESSED SPECTROHELIOGRAMS

Table 1

<u>Entry</u>	<u>List</u>	<u>Format</u>	<u>Field</u>
1	IDAY - Day of year	I3	XXX
2	MO - Month	I2	XX
3	ID - Day of Month	I2	XX
4	IDN - Decom Tape Number	I3	XXX
5	IFILE - File No.	I2	XX
6	ION - Orbit Pass No.	I5	XXXXX
7	Ground station acquiring data	A5	XXXXX
8	IRTAG - Unique Number for each raster meld	I5	XXXXX
9	JHS - Hours of day at beginning of meld	I2	XX
10	JMS - Minutes at beginning of meld	I2	XX
11	JSS - Seconds at beginning of meld	I2	XX
12	JHE - Hours at end of meld	I2	XX
13	JME - Minutes at end of meld	I2	XX
14	JSE - Seconds at end of meld	I2	XX
15	JTG - Number of rasters used in meld	I2	XX
16	ICPC - Average raster center point count for all rasters in meld	I5	XXXXX
17	SI - Averaged solar intensity value over the meld	F5.1	XXX.X
18	Roll - Roll Angle of satellite	F6.1	XXXX.X
19	Space for reading in wavelength of observation	F6.1	XXXX.1
20	Plagye Number	I4	XXXX
21	Optional label	I4	XXXX
22	X ₁	F4.3	.XXX
23	Y ₁ - Position of the four	F4.3	.XXX
24	X ₂ corners of the small raster	F4.3	.XXX
25	Y ₂ on the sun's earth sun line	F4.3	.XXX
26	X ₃ normal projection. The Y-	F4.3	.XXX

Table 1 (Cont.)

<u>Entry</u>	<u>List</u>	<u>Format</u>	<u>Field</u>
27	Y_3 axis is the local meridian	F4.3	.XXX
28	X_4 plane's intersection on the	F4.3	.XXX
29	Y_4 apparent solar disk.	F4.3	.XXX
31	α - solar longitude of center of small raster	F6.1	XXXX.X
32	δ - solar latitude of center of small raster in deg.	F6.1	XXXX.X
33	ρ_1 polar angle of center of the small raster in ecliptic coordinates.	F5.1	X.XXX
	θ_1 θ is in degrees ρ is in units of solar radii.	F6.1	XXXX.X
35	ρ_2 polar angles in solar coordinates	F5.3	X.XXX
36	θ_2 of the small raster	F6.1	XXXX.X
37	IPPA - Azimuth	I3	XXX
38	IPPE - Elevation Telemetry indicated offset point pos.	I3	XXX
39	ICODE - Provides complete labeling of the spectral channel. For EUV channel, detector and mask position For X-Rays: Detector identification (short x-ray or long x-ray), mode of readout (A., B., or A-B and filterwheel position (wavelength band (For EUV, the space for reading in the wavelength of the observation is set aside in item 19. Table 2 lists the ICODE breakdown.	I3	XXX
40	IAVC(41) - 41 words for recording the average count for the entire raster excluding line one. An average count is obtained for each raster in the meld.	40I5	XXXXX XXXXX XXXXX XXXXX
80			XXXXX

Table 2A

Channel #1

<u>ICode</u>	<u>IGH</u>			
150	1	(H-Alpha Data)		
		<u>MASKA</u>	<u>MASKB</u>	<u>Aperture Pos</u>
100	0	ON	OFF	0 (slit reference)
101	0	ON	OFF	1 (10 sec)
102	0	ON	OFF	2 (20 sec)
103	0	ON	OFF	3 (40 sec)
104	0	ON	OFF	4 (90 sec)
110	0	OFF	ON	0
111	0	OFF	ON	1
112	0	OFF	ON	2
113	0	OFF	ON	3
114	0	OFF	ON	4

Long EUV Data

Table 2B

Channel #2

<u>ICode</u>	<u>IGH</u>	<u>MASKA</u>	<u>MASKB</u>	<u>APERTURE POS</u>
200	0	ON	OFF	0 (slit reference)
201	0	ON	OFF	1 (10 sec)
202	0	ON	OFF	2 (20 sec)
203	0	ON	OFF	3 (40 sec)
204	0	ON	OFF	4 (60 sec)
210	0	OFF	ON	0
211	0	OFF	ON	1
212	0	OFF	ON	2
213	0	OFF	ON	3
214	0	OFF	ON	4

----- Short EUV Data -----

250	1	ON	OFF	0
251	1	ON	OFF	1
252	1	ON	OFF	2
253	1	ON	OFF	3
254	1	ON	OFF	4
260	1	OFF	ON	0
261	1	OFF	ON	1
262	1	OFF	ON	2
263	1	OFF	ON	3
264	1	OFF	ON	4

Medium EUV Data

Table 2C

Channel #3

Long X-Ray

<u>ICode</u>	<u>IXL</u>	<u>LFP</u>
	(A Only)	
300	1	0 Filter Wheel Pos (See Fig. 2.3-3)
301	1	1
302	1	2
303	1	3
304	1	4
305	1	5
	(B Only)	
310	2	0
311	2	1
312	2	2
313	2	3
314	2	4
315	2	5
	(A-B)	
320	3	0
321	3	1
322	3	2
323	3	3
324	3	4
325	3	5

Table 2D

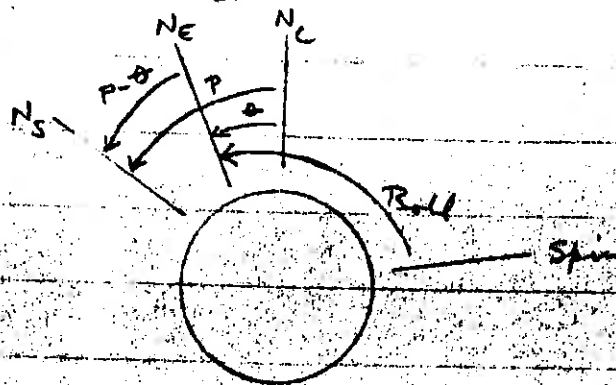
Channel #4
Short X-Ray

<u>I Code</u>	<u>IXS</u>	<u>JSEP</u>
	(A Only)	
400	1	0 Short X-ray Filter Wh 1 Pos
401	1	1
402	1	2
403	1	3
404	1	4
405	1	5
	(B Only)	
410	2	0
411	2	1
412	2	2
413	2	3
414	2	4
415	2	5
	(A-B)	
420	3	0
421	3	1
422	3	2
423	3	3
424	3	4
425	3	5

OSO-7 Angle Definitions

Looking from Spacecraft toward Sun

<u>angle</u>	<u>From</u>	<u>To</u>	<u>Measured through</u>	<u>Positive Direction</u>
Roll	Spin axis	Ecliptic N	E	CCW
P	Celestial N	Solar N	E	CCW
θ	Celestial N	Ecliptic N	E	CCW
$(P-\theta)$	Ecliptic N	Solar N	E	CCW



The entire report of ~50 pages
will be appended

Final Report

"DATA ANALYSIS OF THE GSFC
OSO-7 (H) EUV AND X-RAY
SPECTROHELIOGRAPH EXPERIMENT

GSFC Contract NAS5-23140

F77-19

August 1977

Vern Rogowski
Approved by

L. K. Rogowski

B. E. Thompson
Prepared by:

B. E. Thompson

FOREWORD

This final report for "Data Analysis of the GSFC OSO-7(H) EUV and X-ray Spectroheliograph Experiment" was prepared by Ball Brothers Research Corporation (BBRC), Boulder, Colorado, for National Aeronautics and Space Administration, Goddard Space Flight Center (NASA/GSFC). The work was accomplished under contract number NAS5-23140.

FILE 1 285/1971 - 285/1971
 FILE 2 285/1971 - 285/1971
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 FILE 4 286/1971 - 286/1971
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 FILE 6 286/1971 - 286/1971
 FILE 7 287/1971 - 287/1971 10/14
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 FILE 12 289/1971 - 289/1971
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FILE 60	316/1971 - 316/1971	
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FILE 62	317/1971 - 317/1971	11/13
FILE 63	317/1971 - 317/1971	
FILE 64	318/1971 - 318/1971	11/14
FILE 65	318/1971 - 318/1971	
FILE 66	318/1971 - 318/1971	
FILE 67	319/1971 - 319/1971	11/15
FILE 68	319/1971 - 319/1971	
FILE 69	320/1971 - 320/1971	11/16
FILE 70	320/1971 - 320/1971	
FILE 71	320/1971 - 320/1971	
FILE 72	323/1971 - 323/1971	11/19
FILE 73	323/1971 - 323/1971	
FILE 74	324/1971 - 324/1971	11/20
FILE 75	324/1971 - 324/1971	
FILE 76	324/1971 - 324/1971	
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FILE 78	326/1971 - 326/1971	11/22
FILE 79	326/1971 - 326/1971	
FILE 80	327/1971 - 327/1971	11/23
FILE 81	327/1971 - 327/1971	
FILE 82	327/1971 - 327/1971	
FILE 83	328/1971 - 328/1971	11/24
FILE 84	328/1971 - 328/1971	
FILE 85	329/1971 - 329/1971	11/25
FILE 86	329/1971 - 329/1971	
FILE 87	321/1971 - 321/1971	11/17
FILE 88	321/1971 - 321/1971	
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FILE 90	322/1971 - 322/1971	
FILE 91	322/1971 - 322/1971	
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FILE 94	327/1971 - 327/1971	11/23
FILE 95	330/1971 - 330/1971	11/26
FILE 96	330/1971 - 330/1971	
FILE 97	331/1971 - 331/1971	11/27
FILE 98	341/1971 - 341/1971	12/07
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FILE 238 13/1972 - 13/1972
FILE 239 13/1972 - 13/1972
FILE 240 14/1972 - 14/1972
FILE 241 14/1972 - 14/1972
FILE 242 14/1972 - 14/1972
FILE 243 15/1972 - 15/1972
FILE 244 15/1972 - 15/1972

5~
Listing of save set(s)

5d7-OSO

71-083A-01A,B

Save set: OSO7.BCK
Written by: GURMAN
UIC: [000200,000222]
Date: 25-JUN-1993 13:44:18.04
Command: BACKUP/NOASSIST SYS\$DATA4:[OSO7...] MAD\$BACKUP12:OSO7.BCK/BL
Operating system: VAX/VMS version V5.5
BACKUP version: V5.5-2
CPU ID register: 14000006
Node name: NEWMAX::
Written on: MAD6:
Block size: 40960
Group size: 10
Buffer count: 196

[OSO7] CATALOG_LR.OSO7;1	864	25-JUN-1993	13:3
[OSO7] CATALOG_LR.SORT;3	864	25-JUN-1993	13:3
[OSO7] CATALOG_SR.OSO7;5	2753	25-JUN-1993	13:0
[OSO7] CATALOG_SR.SORT;2	2753	25-JUN-1993	13:2
[OSO7] LAST_EXP_NUM.DAT;7	1	25-JUN-1993	13:0
[OSO7] LAST_SR_EXP_NUM.DAT;6	1	25-JUN-1993	13:0
[OSO7] LR.DIR;1	1	24-MAY-1993	14:3
[OSO7.LR] 1971.DIR;1	101	24-MAY-1993	14:3
[OSO7.LR.1971] O00001.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00002.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00003.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00004.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00005.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00006.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00007.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00008.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00009.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00010.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00011.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00012.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00013.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00014.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00015.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00016.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00017.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00018.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00019.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00020.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00021.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00022.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00023.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00024.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00025.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00026.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00027.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00028.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00029.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00030.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00031.LR;1	45	25-MAY-1993	09:3
[OSO7.LR.1971] O00032.LR;1	45	25-MAY-1993	09:3
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RECORD 1 OF FILE 1
LENGTH = 60 BYTES

*Dump
P103836*

40404040 D6E2D6F1 40404040 E3C5C3D1 C8D3C1C2 0088090F 15051492 40404040 40404040 00000000
00000000 00000000 00000000 00000000 00000000

1 RECORD IN FILE 1 OF TAPE

RECORD 1 OF FILE 2
LENGTH = 140 BYTES

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(01)D000A 000B0000 002400C6 001000BB 00050009 003B0005 00320012 00040008 2773078B 0D180000
06460001 00040000 00000000 00000000 00000000 00000000 00000027 003F0000 00000141 00650001
00000006 00070001 00000000 00000000 00000000 00000000 00DD00D6 00000000 00000000 00000000
0000000D 00060007 00000000 00000000 0000(07B3)

1973

Record #8 of File 2
Length = 4000 Bytes
but dump: all zeros...