

DATA SET CATALOG # 99

OGO-IV
Solar X-Ray HR Avg. 'B' 1 tape

OGO-IV
Solar X-Ray HR Avg. 'C' microfilm

67-073A-21B

SOXR-00055

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

OGO 4

HOURLY AVGD SOLAR X-RAY FLUX, TAPE

67-073A-21B

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004030	DS004030	D004697	2	07/29/67 - 07/15/68

o Read error occurred in record 113 of File 1.

REVISED - 10-1-4

REPERMANT - 87-07-100 700-4 MONTHLY AVERAGE WHEEL 2-4AY FIVE
1. 000A 0.000A 00000 0

TURNED EARTH	NO	MONTHLY AVG / STANDARD DEV			
1	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
2	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
3	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
4	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
5	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
6	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
7	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
8	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
9	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
10	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
11	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
12	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
13	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
14	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
15	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
16	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
17	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
18	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
19	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
20	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
21	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
22	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
23	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
24	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
25	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
26	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
27	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
28	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
29	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00
30	0.0000-00	0.0000-00	0.0000-00	0.0000-00	0.0000-00

OGO-IV

SOLAR X-RAY HR AVG 'B'

67-073A-21B

556 BPI, BCD 7-track, 2 file, IBM 7094

D-04697 C-04607 7/29/67-7/15/68

OGO-IV

SOLAR X-RAY HR AVG 'C'

MICROFILM: WHICH WAS PRODUCED FROM
DATA 67-073A-21B

67-073A-21B
300-4
Hourly Averaged Solar X-Ray Flux
OUTPUT

FORMAT-1

FORMAT-2

FORMAT-1 - Is used to print the first line of data after the headers.
FORMAT-2 - Is used to print all remaining data.

NOTE: This tape is a 535BPI, BCD, 7 Track, 7094 Tape. There are 2 files
and the tape can be listed on the 360/30 using program control.
File 1 consists of 1 hour filter series H.
File 2 consists of 1 day filter series D.

Comments

1. Two methods were used to calculate the hourly averages (distinguished by a H or D in the first column of each data card). Both methods were designed to eliminate data contaminated by trapped particle interference with the detectors.

Method H: The data for each detector were considered in hourly blocks, and average values and standard deviations (continued)

for the hour were calculated. Any data points in the hourly block which differed from the calculated hourly average by more than + 2.5 sigma or - 2.0 sigma were discarded, and hourly averages and standard deviations were calculated a second time. Any data points which differed from these hourly averages by more than + 2.0 or - 2.5 sigma were discarded. Hourly averages and standard deviations were calculated a third time and data points differing by more than + 1.5 or - 2.0 sigma were discarded. A fourth calculation was then made, and data points differing by more than + 1.0 or - 1.5 sigma were discarded. These data points which survived the quadruple filtering process were then used to calculate the hourly averages and standard deviations which appear on the data cards. This method eliminated data for small flares and data contamination from trapped particles in the Van Allen belts but did not eliminate data for large flares or contamination caused by trapped particles in the South Atlantic Anomaly.

Method D: The data for each detector were considered in daily blocks and a daily average and standard deviation were calculated. The quadruple filtering process described above was then applied to the daily average data. The data points which survived the filtering were then considered in hourly blocks to obtain the hourly averages and standard deviations which appear on the data cards. This method eliminated almost all data from flares and data contaminated by trapped particles in the Van Allen Belts and South Atlantic Anomaly, and tended to produce an average background level of the solar output in the various X-ray bands.

2. In designating the hour the digit (s) designate the starting hour of the data sample averaged. An hourly indicator of 12 signifies that data collected between 1200 and 1300 UT were used to form the averages. An hourly indicator of 23 indicates that the data on the card are daily averages based on all data points which survived the filtering process.
3. All detector currents were converted to X-ray energy flux values based upon a grey-body solar emission spectrum. For the 0.5 to 3 Å band, a 10^7 K color temperature was used; for the 1 to 8 Å and 8 to 20 Å bands, a 2×10^6 K color temperature was used; and for the 44 to 80 Å band, a 0.5×10^6 K color temperature was used.