

#250

HEOS-1

68-109A-06B

PROTON AND ~~NEUTRON~~ COUNT RATES

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

HE05-1

PROTON AND ALPHA COUNT RATES

68-109A-06B

This data set has been restored. The original tape was 1600 BPI, binary, 9-track. The DR and DS tape is 9-track, binary and has 2 files. The DR tape is a 3480 cartridge and the DS tape is 6250 BPI.

The DR, DS, and DD numbers along with the time spans are given as follows:

| DR#     | DS#     | DD#     | FILES | TIME SPAN           |
|---------|---------|---------|-------|---------------------|
| DR02939 | DS02939 | D-12782 | 1     | 01/01/69 - 12/26/70 |
|         |         |         | 2     | 01/01/71 - 12/24/72 |

## HEOS-1

68-109A-06B

## PROTON AND ALPHA COUNT RATES

| WORD<br>---- | ID<br>---- | DESCRIPTION<br>-----   | FORMAT<br>----- |
|--------------|------------|--|-----------------|
| *1           | LCW        | Logical control word   | I4              |
| 2            | IWINDO     | Window   | I4              |
| 3            | ISUBNO     |  | I4              |
| 4            | IDAY       | Starting day of year   | I4              |
| 5            | ITIMSC     | Seconds  | I4              |
| 6-3005       | MAT        | Matrix containing 3000<br>points of window, starting<br>day at IDAY at ITIMSC<br>seconds | I2              |

\* The first word in each physical record is a block control word.

The tape has the following characteristics:  
DCB=(RECFM=VBS,LRECL=6020,BLKSIZE=24084,DEN=3)

WINDOW DEFINITIONS FOR 68-109A-06

| <u>WINDOW</u> | <u><math>\Delta E</math> (KEV)<br/>in <math>J_1</math></u> | <u>COUNTS<br/>IN</u> | <u>ENERGY RANGE<br/>(MEV) FOR MAIN<br/>PROTON RESPONSE</u> | <u>SECONDARY<br/>RESPONSE</u>         | <u>GEOM FR<br/>(CM<sup>2</sup> STER)</u> |
|---------------|--|----------------------|--|---------------------------------------|--|
| 1             | 145- 348   | $J_1$                |  |                                       |  |
| 2             | 145- 348   | $J_1J_2$             | >1200  | ELECTRONS                             | 0.52                                     |
| 3             | 145- 348   | $J_1J_3$             | >1200  | ELECTRONS                             | 0.60                                     |
| 4             | 358- 850   | $J_1J_4$             | 220-1200   |                                       | 0.78                                     |
| 5             | 358- 850   | $J_1$                | 3.82-4.87  | ELECTRONS,<br>220-1200 MEV<br>Protons | 0.697                                    |
| 6             | 358- 850   | $J_1J_2$             | 220-1200   |                                       | 0.52                                     |
| 7             | 358- 850   | $J_1J_3$             | 220-1200   |                                       | 0.60                                     |
| 8             | 850- 2040  | $J_1J_4$             | 81-220   |                                       | 0.39                                     |
| 9             | 850- 2040  | $J_1$                | 4.34-5.24  | ELECTRONS,<br>67.8-220 MEV<br>Protons | 2.04                                     |
| 10            | 850- 2040  | $J_1J_2$             | 67.8-220   |                                       | 0.26                                     |
| 11            | 850- 2040  | $J_1J_3$             | 67.8-220   |                                       | 0.39                                     |
| 12            | 2010- 4820   | $J_1J_4$             | 138-150*   |                                       | 0.39                                     |
| 13            | 2010- 4820   | $J_1$                | 5.24-7.15<br>22.8-67.8                                     |                                       | 4.0                                      |
| 14            | 2010- 4820   | $J_1J_2$             | 22.8-67.8  |                                       | 0.26                                     |
| 15            | 2010- 4820   | $J_1J_3$             | 41-67.8  |                                       | 0.30                                     |
| 16            | 4750-11500   | $J_1J_4$             | 134-138*   | ALPHAS                                | 0.39                                     |
| 17            | 4750-11500   | $J_1$                | 7.15-22.8  |                                       | 4.25                                     |
| 18            | 4750-11500   | $J_1J_2$             | 21.5-24  | ALPHAS(21.5-<br>24 MEV/N)             | 0.26                                     |
| 19            | 4750-11500   | $J_1J_3$             | 134-138*   | ALPHAS                                | 0.30                                     |
| 20            | 145- 348   | $J_1J_4$             | >1200  |                                       | 0.78                                     |

\*Backwards moving protons



INPUT TAPE LIZA ON HT1  
DATA INPUT PG NF=2 FL=2-2=2

| FILE    | 1        | RECORD    | 1        | LENGTH   | 24,848 BYTES |
|---------|----------|-----------|----------|----------|--------------|
| ( 0 )   | 5E14C000 | 17844000  | 00000001 | 00001B58 | 00000001     |
| ( 4 )   | 0E1E002E | J01C0018  | 001C001A | 001E0021 | 0019101F     |
| ( 8 )   | 0E1E001C | J012001A  | J01F001C | J01E0021 | J01240018    |
| ( 12 )  | 0E23001B | J01C001F  | J0270012 | 001E001C | 00210024     |
| ( 16 )  | J023001B | J0260023  | 0020001F | 002600FE | 00249028     |
| ( 20 )  | J0190026 | J01E001D  | J01A001F | 001A001C | 001B0015     |
| ( 24 )  | J0180026 | J0190024  | J0260018 | J018002F | J0210025     |
| ( 28 )  | J0190026 | J029001F  | J01D001D | 001B0012 | 001D0018     |
| ( 32 )  | J01E001B | J0230023  | J021001F | 00260018 | 0020001F     |
| ( 36 )  | J02E001E | J026002F  | J0200023 | J01C001D | J01F0014     |
| ( 40 )  | 0E1E001A | J01C001A  | J0240024 | J0230024 | J0250019     |
| ( 44 )  | J0220025 | J02280029 | 00200016 | 00160020 | 001B0022     |
| ( 48 )  | J01B0011 | J0270024  | J01E0028 | J01F0028 | 001A0024     |
| ( 52 )  | J0250021 | J01C0021  | 00000000 | 00000000 | 00000000     |
| ( 56 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 60 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 64 )  | 0E220024 | 0E220024  | 0E220024 | 0E220024 | 0E220024     |
| ( 68 )  | 0E230024 | 0E250024  | 0E250024 | 0E250024 | 0E250024     |
| ( 72 )  | 0E2C0024 | 0E250024  | 0E250024 | 0E250024 | 0E250024     |
| ( 76 )  | J0220014 | J01E0012  | J0260022 | J021001E | J01A0024     |
| ( 80 )  | 0E1E001E | J0270019  | J01F001D | J0210023 | J0220025     |
| ( 84 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 88 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 92 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 96 )  | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 100 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 104 ) | J01C0024 | 0E1E0018  | J01B0028 | J01E001F | 0E1E001E     |
| ( 108 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 112 ) | J01B0014 | J01B0020  | J0200019 | J0260015 | J0260015     |
| ( 116 ) | 0E1E001E | J01C0017  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 120 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 124 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 128 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 132 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 136 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 140 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 144 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 148 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 152 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 156 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 160 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 164 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 168 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 172 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 176 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 180 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 184 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 188 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 192 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 196 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 200 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 204 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 208 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 212 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 216 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 220 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 224 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |
| ( 228 ) | 0E1E001E | 0E1E001E  | 0E1E001E | 0E1E001E | 0E1E001E     |

seconds  
1.23 s

1/1/69-12/24/72

DS 02939

Handwritten initials/signature

