

#817

ULYSSES
COSPIN AT2 I/P PART FLUX, 10-MIN
90-090B-02F

SPHE-00656

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ULYSSES

COSPIN AT2 I/P PART FLUX,10-MIN

90-090B-02F SPHE-00656

THIS DATA SET CONSISTS OF 2 MAGNETIC TAPES. THE D-TAPES ARE 9-TRACKS AND THE C-TAPES ARE 3480's, 6250 BPI. CREATED ON VAX COMPUTER, WRITTEN IN ASCII, LABEL NAME "ULYAT2". A DIRECTORY OF THE TAPES AS WELL AS A COPY OF THE SUPPORT DOCUMENTATIONS, AND FORMATS HAVE BEEN INCLUDED IN THE CATALOG.

THE D AND C NUMBERS ALONG WITH IT'S TIME SPAN IS LISTED BELOW.

D#	C#	FILES	TIMESPAN
D-109071	C-033055	3240	01/01/91 - 12/31/93
D-109072	C-033056	3822	01/01/94 - 06/30/97

COSPIN-AT RECORD FORMAT (REFERENCE: A&A,92,2 page 382, table 5)

LOCATION: ESTUDS::DKA500:[UDS.COSPIN.AT.TEL1]UCOSAT1R91001.ULY;1
ESTUDS::DKA500:[UDS.COSPIN.AT.TEL2]UCOSAT2R91001.ULY;1

UDS REPRESENTATIVE: S. DALLA (S.DALLA@IC.AC.UK)

RECORD FORMAT:

```
        DIMENSION A6_13(8)
C FREE FORMAT
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            A1,A2,A3,A4,A5,A6_13,A38,A39,A40
C FIXED FORMAT
        READ(1,100)IYEAR,IDOY,IHOUR,IMIN,ISEC,
            A1,A2,A3,A4,A5,A6_13,A38,A39,A40
100    FORMAT(X,I4,X,I3,3(XI2),16(X,E11.4))
```

PARAMETER LIST:

```
IYEAR: year
IDOY:  day of year
IHOUR: hour
IMIN:  minute
ISEC:  second
A1:    Z>=1    (0.7-0.9 MeV)
A2:    "      (0.9-1.3 MeV)
A3:    "      (1.3-2.2 MeV)
A4:    protons (2.2-3.6 MeV)
A5:    "      (3.6-6.6 MeV)
A6_13: Z>=1    (0.7-1.3 MeV) sectors 1 to 8
A38:   Z>=2    (3.1-7.2 MeV)
A39:   "      (7.2-12.0 MeV)
A40:   "      (12.0-23.0 MeV)
```

FLUX UNITS: (/cm2/s/sr/MeV)

TIME RESOLUTION: 10 minutes

NOTES:

The Imperial College Anisotropy Telescope

(Last updated: 6 March 1998)

This document describes the Anisotropy Telescopes, the data they provide, and the format of the data files provided by Imperial College to the Ulysses Data System.

NB. Please take careful note of the following points:

- (1) THE INFORMATION PROVIDED IN THIS FILE CORRECTS AND UPDATES INFORMATION PRESENTED IN "THE ULYSSES COSMIC RAY AND SOLAR PARTICLE INVESTIGATION", J. A. SIMPSON ET AL, ASTRONOMY AND ASTROPHYSICS "ULYSSES INSTRUMENTS" SPECIAL ISSUE, VOL 92, NO. 2, PP 365 - 399, JANUARY 1992. In particular, the Anisotropy Telescope pointing directions were given incorrectly in the Astronomy and Astrophysics paper, and the

energy channel widths quoted there have since been updated.

- (2) See the Ulysses Data System guidelines for restrictions on the use of this data.

1. The Anisotropy Telescopes

The Anisotropy Telescope (AT) experiment is a two-telescope device. The telescopes are nominally identical with Telescope T1 pointing at 60 degrees to the spacecraft spin axis (i.e. in the Earthward looking hemisphere) and telescope T2 pointing at 145 degrees (i.e. in the anti-Earthward looking hemisphere). They have a full-cone opening aperture of 70 degrees and a geometric factor of 0.7 cm² sr. Together they provide 80% coverage of the full sky. The most significant gap in the coverage is a cone with a half angle of 25 degrees centred on the Earthward pointing line along the spacecraft spin -axis. There is also a 5 degree gap in coverage between the two telescopes.

2. The full AT Data set

Spin-averaged and sectorized data in a variety of energy channels is produced by the ATs, as follows:

Channel number	Energy range /MeV (protons)	Energy Range /MeV (alphas)	Sectorized / Spin-averaged
1	0.7 - 0.9	2.3 - 2.5	Spin-averaged
2	0.9 - 1.3	2.5 - 2.7	Spin-averaged
3	1.3 - 2.2	2.7 - 3.0	Spin-averaged
4	2.2 - 3.6	-----	Spin-averaged
5	3.6 - 6.5	24.0 - 28.0	Spin-averaged
6	0.7 - 1.3	2.3 - 2.7	Sectorized (8)
7	1.3 - 2.2	2.7 - 3.0	Sectorized (8)
8	2.2 - 3.6	-----	Sectorized (8)
9	3.6 - 6.5	24.0 - 28.0	Sectorized (8)
10	-----	3.0 - 7.5	Spin-averaged
11	-----	7.5 - 12.0	Spin-averaged
12	-----	12.0 - 26.0	Spin-averaged
13	-----	3.0 - 7.5	Sectorized (4)

3. AT data provided to the Ulysses Data System

The AT data provided in these files is a subset of the total data set which is held at Imperial College.

The format of these files is as follows:

There is one data file per day per telescope. Each data file contains data records for every ten minute interval in the day, except during the Jupiter encounter (1992, days 25 to 48 inclusive) where data at 256s resolution is provided. Each record contains 21 fields of information, the first five being time-stamps referring to the centre time of the data contained in the remaining 16 fields. The definition of these

fields, including their FORTRAN format, is given below.

N.B. Fluxes are quoted for both telescopes T1 and T2.

Field	Fortran Format	Definition
1	i4	Year, e.g. 1992 (not 92)
2	i3	Day of year, Jan 1 being day 1
3	i2	Hour of day
4	i2	Minute of hour
5	i2	Second of minute
6	e11.4	Flux from channel 1
7	e11.4	Flux from channel 2
8	e11.4	Flux from channel 3
9	e11.4	Flux from channel 4
10	e11.4	Flux from channel 5
11	e11.4	Flux from channel 10
12	e11.4	Flux from channel 11
13	e11.4	Flux from channel 12
14	e11.4	Flux from channel 7, sector 1
15	e11.4	Flux from channel 7, sector 2
16	e11.4	Flux from channel 7, sector 3
17	e11.4	Flux from channel 7, sector 4
18	e11.4	Flux from channel 7, sector 5
19	e11.4	Flux from channel 7, sector 6
20	e11.4	Flux from channel 7, sector 7
21	e11.4	Flux from channel 7, sector 8

Each record is written using the FORTRAN format
1x,i4,1x,i3,3(1x,i2),16(1x,e11.4)

3.1 Definition of flux

in this table, flux means differential flux in units of $(\text{cm}^2 \text{ sr s MeV})^{-1}$ (NB. per MeV, not per MeV per nucleon). The fluxes have been computed by dividing the observed count rates by the geometric factor and the energy channel width. The energy channel width depends on species. Where a channel is sensitive to alpha particles and protons (ie, channels 1, 2, 3, 5, 6, 7 and 9), the proton width has been used since normally the alpha contribution is insignificant. However, sufficient information has been given above to reconstruct the channel count-rates if necessary.

All AT channels exhibit a "background" which may originate from electronic noise or from activation of the material of the telescopes or of the spacecraft. These background fluxes have been subtracted from the data provided in these files. Channel 3 and channel 7 are the channels least affected by background and it is for this reason that channel 7 has been selected to provide the sectorized data included in these files.

The data have also been "despiked", although it is not

guaranteed that all spikes have been removed.

3.2 Definition of sectors

All sectorized channels except channel 13 have eight 45 degree sectors. Channel 13 has only 4 sectors. Sector 1 of channel 13 is a 90 degree sector equivalent to sectors 1 & 2 of any of the other sectorized channels. Similarly, sector 2 of channel 13 is equivalent to sectors 3 & 4 of any other sectorized channel, etc.

The sectoring scheme is defined relative to the "sun crossing line". The sun-crossing line is the line in the plane defined by the Sun, the Earth and Ulysses, which is perpendicular to the Ulysses-Earth line and which makes an angle of less than 90 degrees to the Ulysses-Sun line. For channels with 8 sectors, sector 1 is the 45 degree sector which starts from the sun-crossing line and extends in the sense of spacecraft rotation. Sector 2 begins at the angle that sector 1 ends and continues in the sense of spacecraft rotation, etc, continuing through to sector 8 which ends at the the sun-crossing line.

----- END -----

D-109071

Directory MKC500: []

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Total of 1274 files.