ULYSSES
COSPIN LET I/P DATA 10-MIN
90-090B-02B

COSPIN HFT I/P PARTICLE FLUX 10-MIN
90-090B-02C

COSIN KET I/P PARTICLE DATA 10-MIN
90-090B-02D

COSPIN HFT I/P PARTICLE FLUX 10-MIN
90-090B-02E

These datasets has been updated on one CD-RW. The original datasets were written on 9trk, 6250 bpi tapes. The replacement CD-RW incubuses the data that existed previously and data that were generated since the DD and DC tapes were created. The data has been downloaded from ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/ written in ASCII format and compressed. The KD and KW numbers along with the time spans are as follows:

90-090B-02B

KD021813	KW000176		10/23/1990 12/31/2003
DD108969	DC032985	130	10/23/1990 12/30/1995
DD108970	DC032986	255	01/01/1996 12/31/1996
DD109141	DC033116	164	01/01/1998 06/30/1999

90-090B-02C

KD021813	KW000176		10/23/1990 12/31/2003
DD108971	DC032987	27	10/01/1990 12/31/1992
DD108972	DC032988	36	01/01/1993 12/31/1995
DD108973	DC032989	366	01/01/1996 12/31/1996
DD109092	DC033076	1098	01/01/1997 12/31/1997
DD109142	DC033117	164	01/01/1998 06/30/1999

90-090B-02D

KD021813	KW000176		10/23/1990 07/08/2004
DD108974	DC032990	435	10/23/1990 12/31/1991
DD108975	DC032991	665	01/01/1992 10/26/1993
DD108976	DC032992	530	10/27/1993 04/09/1995
DD108977	DC032993	632	04/10/1993 12/31/1996
DD109093	DC033077	1098	01/01/1997 12/31/1997
DD109143	DC033118	164	01/01/1998 06/30/1999

90-090B-02E

KD021813	KW000176		10/23/1990 12/31/2003
DD108978	DC032994	1634	10/23/1990 07/18/1992
DD108979	DC032995	532	07/19/1992 12/31/1993
DD108980	DC032996	464	01/01/1994 04/09/1995
DD108981	DC032997	632	04/10/1995 12/31/1996
DD109094	DC033078	1095	01/01/1997 12/31/1997

ULYSSES

COSPIN HET I/P PART DATA 10-MIN

90-090B-02B

THIS DATASET CONSISTS OF TWO 9-TRACK MAGNETIC TAPES. THE TAPES ARE 6250 BPI, LABELLED, AND IN ASCII FORMAT. CONTAINED IN THE DATASET CATALOG IS A DIRECTORY OF THE TAPES, NUMBER OF FILES, AND THE D AND C NUMBER, ALONG WITH IT'S TIME SPAN. THE DIRECTORY PATH TO WHICH THE DATA CAN BE FOUND IS: ANON_DIR:[COHO.ULYSSES.PARTICLE.COSPIN. HET.10_MIN]

D#	C#	LABEL	FILES	TIMESPAN
D-108969	C-032985	HET	130	10/23/90-12/30/95
D-108970	C-032986	HET2	255	01/01/96-12/31/96

3/3/04?

INFORMATION SHEET FOR INCOMING DATA

DATE DATA RECEIVED: 4/1/98

NSSDC ID: (AIM / NSDF) 90-090B-02B

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, NUMBER OF CD-ROMS,ETC.)
PI AND AFFILIATION:	2 mag tapes

SATELLITE NAME./NSDF NAME: ULYSSES

EXPERIMENT NAME: COSMIC RAY SOLAR PART.

DATA SET SHORT NAME: COSPIN HET I/P PART DATA 10-MIN

CONTACT: _____ ACQUISITION SCIENTIST: JFC

FORM CODE DATA TO BE ANNOUNCED IN AIM / NSDF: DD

THESE ARE : A NEW DATA SET ___ ADDITIONS ___ REPLACEMENTS ___ OTHER

ACCESSION UNIT NUMBERS: DD 108969-70
C 032985-86

REMARKS:

DATA RECEIPT NOTIFICATION SENT? _____

Ralph Post
DATA TECHNICIAN

933.0 (1/91)

★U.S. GPO: 1994-301-871/00701

UNIT RECORD FILE

From: NCF::POST 18-FEB-1998 10:57:50.54
To: MYERS
CC:
Subj: 90-090B-02B

From: NCF::JCOOPER "John F. Cooper" 15-JAN-1998 16:12:15.33
To: POST BANDERSON
CC: JCOOPER
Subj: New data set for Ulysses COSPIN HET 10-min particle counting rates

Ralph and Betty (or Pat):

This is a new data set for 10-min. average data from the High Energy Telescope (HET) in the COSPIN experiment on Ulysses. The ascii data are blocked into daily files in yearly subdirectories (1990, ..., 1996) of anon_dir:[coho.ulysses.particle.cospin.het.10_min], along with the UCOSHET.FMT format description file in that main directory. All the files can be put into one directory or tape for the backup media.

Please archive the data and format files off-line and create a new data set ID as per below.

John

****

Dataset ID: 90-090B-02B

Name (short): COSPIN HET I/P Part Data, 10-min

Type Code: 3

Contact: McKibben

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: A

First date of data: 1990-10-23

Last date of data: 1996-12-31

Change of available date: 1998-01-15

Long Name: Ulysses COSPIN High Energy Telescope (HET) Interplanetary Energetic Particle Data, 10-minute Spin Averaged

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO

Label = HET
1990 - 1995
Label = HET2
1996 = 255 files

completed 3/11/98

Title: Dr.
First & middle initial: Robert B.
Last name: McKibben
Current affl: University of Chicago
City, State: Chicago, IL

Brief Description:

This data set consists of 10-min average interplanetary data for protons, heavy ions (Z>2), and electrons from the High Energy Telescope (HET) instrument in the COSPIN experiment on Ulysses. The 13 instrument channel parameters include spin averaged counting rates (cps) for protons at 5 - 92 MeV and above 92 MeV, heavy (Z>2) ions at 26 - 173 MeV and above 173 MeV (energies calculated for C-12), and electrons at 1 - 10 MeV. The 3 - 5 MeV and 5 - 10 MeV electron channels also respond to high energy ions. The data file format is ASCII with one file per day. An accompanying text file specifies the record format. Some spurious spikes still remain in the data records. Large excursions confined to a single 10 minute interval should therefore be viewed with suspicion. It is recommended that the COSPIN team be contacted before extensive interpretation and analysis of these counting rate data is undertaken. This data set was provided to NSSDC and updated through the Ulysses Data System at ESA's ESTEC facility. Further details about the data and the experiment, including geometric factors for conversion of counting rates to flux units, may be found in Simpson et al., Astron. Astrophys. Suppl. Ser., 92(2), 365-399. 1992. The on-line entries for COSPIN in NSSDC's Space Physics Data Availability Catalog (SPDAC) include links to other HET data and plots at the University of Chicago. This data set is available on-line at NSSDC as part of the Coordinated Heliospheric Observations (COHO) data base, accessable via anonymous FTP login at anonymous@nssdca.gsfc.nasa.gov or via WWW at the following URL:

http://nssdca.gsfc.nasa.gov/htbin/htdir/anon_dir/coho/ulysses/particle/cospin/

Acknowledgements:

"the principal investigator, Dr. Robert B. McKibben of the University of Chicago, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This data set is typically updated within one year of data processing and will continue throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys.

Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of UCOSHET.FMT file.

Directory MKC400:[] NET (90-090B-02B)

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Total of 130 files.

Directory MKC400:[] HET2 (90-090B-02B)

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Total of 255 files.

ULYSSES

COSPIN HFT I/P PARTICLE FLUX 10-MIN

90-090B-02C

THIS DATASET CONSISTS OF THREE 9-TRACK MAGNETIC TAPES. THE TAPES ARE 6250 BPI, LABELLED, AND IN ASCII FORMAT. CONTAINED IN THE DATASET CATALOG IS A DIRECTORY OF THE TAPES, NUMBER OF FILES, THE D AND C NUMBER ALONG WITH IT'S TIME SPAN.

THE DIRECTORY PATH IS ANON_DIR:[COHO.ULYSSES.PARTICLE.COSPIN.HFT.10_MIN]

D#	C#	LABEL	FILES	TIMESPAN
D-108971	C-032987	HFT	27	10/01/90-12/31/92
D-108972	C-032988	HFT2	36	01/01/93-12/31/95
D-108973	C-032989	HFT3	366	01/01/96-12/31/96

5/31/ 2008 day 151

INFORMATION SHEET FOR INCOMING DATA

DATE DATA RECEIVED: 4/1/98

NSSDC ID: (AIM / NSDF) 90-090B-02C

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, NUMBER OF CD-ROMS,ETC.)
PI AND AFFILIATION:	3 mag tapes

SATELLITE NAME./NSDF NAME: ULYSSES

EXPERIMENT NAME: COSMIC RAY SOLAR PART.

DATA SET SHORT NAME: COSPIN HET I/P PART FLUX 10-MIN

CONTACT: _____ ACQUISITION SCIENTIST: JFC

FORM CODE DATA TO BE ANNOUNCED IN AIM / NSDF: AA

THESE ARE : ✓ A NEW DATA SET ___ ADDITIONS ___ REPLACEMENTS ___ OTHER

ACCESSION UNIT NUMBERS: AA 108971-73
C 032987-89

REMARKS:

DATA RECEIPT NOTIFICATION SENT? _____

Ralph Lost
DATA TECHNICIAN

933.0 (1/91)
★U.S. GPO: 1994-301-871/00701

UNIT RECORD FILE

From: NCF::POST 18-FEB-1998 10:58:10.90
To: MYERS
CC:
Subj: 90-090B-02C

From: NCF::JCOOPER "John F. Cooper" 15-JAN-1998 16:12:50.12
To: POST BANDERSON
CC: JCOOPER
Subj: New data set for Ulysses COSPIN HFT 10-min particle fluxes

Ralph and Betty (or Pat):

This is a new data set for 10-min. average data from the High Flux Telescope (HFT) in the COSPIN experiment on Ulysses. The ascii data are blocked into daily files in yearly subdirectories (1990, ..., 1996) of anon_dir:[coho.ulysses.particle.cospin.hft.10_min], along with the UCOSHFT.FMT format description file in that main directory. All the files can be put into one directory or tape for the backup media.

Please archive the data and format files off-line and create a new data set ID as per below.

John

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Dataset ID: 90-090B-02C

Name (short): COSPIN HFT I/P Part Flux, 10-min

Type Code: 3

Contact: Anglin

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: A

First date of data: 1990-10-23

Last date of data: 1996-12-31

Change of available date: 1998-01-15

Long Name: Ulysses COSPIN High Flux Telescope (HFT) Interplanetary Energetic Particle Fluxes, 10-minute Averages

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO

then NEEDS EOF after YR 92

Label= HFT1 st tape 90001- ~~9307~~ -92
HFT2 - 2nd Vol. = 93-95
3RD Vol = 96

Title: Dr.
First & middle initial: J. David
Last name: Anglin
Current affl: Herzberg Institute of Astrophysics / NRCC
City, State: Ottawa, Ontario, Canada

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Canada K1A 0R6
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Internet: dave@hiauly1.hia.nrc.ca
SPAN/NSI: HIAULY::DAVE

Brief Description:

This data set consists of 10-min average interplanetary data for protons, helium, and heavy ions from the High Flux Telescope (HFT) instrument in the COSPIN experiment on Ulysses. All data from the HFT are accumulated for an integral number of spacecraft rotations. The 53 instrument channel parameters include spin averaged fluxes (/cm2 s sr) for protons at 0.28 - 7 MeV, alphas at 0.31 - 5.4 MeV/nucleon, and heavier ions with thresholds at 0.34 MeV/nucl (oxygen) to 1.28 MeV/nucl (sulfur). Directional fluxes for 0.29 - 6.7 MeV protons are provided in 32 spacecraft spin sectors. Generally, each channel for a nominal ion (e.g., protons) has some contamination from heavier ions. When the energy spectra are steep, heavier ions may in fact dominant a channel. Thus, caution is required in the interpretation of these data. The energy limits are based on accelerator calibrations and estimations from range-energy loss tables for particles incident at right angles to the HFT detector. For precise work, these intervals need to be adjusted because of the 60 degree opening angle of the HFT collimator. Some spurious spikes still remain in the data records. Large excursions confined to a single 10 minute interval should therefore be viewed with suspicion. It is recommended that the COSPIN team be contacted before extensive interpretation and analysis of these counting rate data is undertaken. The data file format is ASCII with one file per day or month. An accompanying text file specifies the record format. This data set was provided to NSSDC and updated through the Ulysses Data System at ESA's ESTEC facility. Further details about the data and the experiment, including geometric factors for conversion of counting rates to flux units, may be found in Simpson et al., Astron. Astrophys. Suppl. Ser., 92(2), 365-399. 1992. The on-line entries for COSPIN in NSSDC's Space Physics Data Availability Catalog (SPDAC) include links to other HET data and plots at the University of Chicago. This data set is available on-line at NSSDC as part of the Coordinated Heliospheric Observations (COHO) data base, accessable via anonymous FTP login at anonymous@nssdca.gsfc. nasa.gov or via WWW at the following URL:

http://nssdca.gsfc.nasa.gov/htbin/htdir/anon_dir/coho/ulysses/particle/cospin/

Acknowledgements:

"the principal investigator, Dr. Robert B. McKibben of the University of Chicago, "

Archive Plan Flag: A
Archiving status flag: C

Archiving Planning/Status:
This data set is typically updated within one year of data processing and will continue throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of UCOSHFT.FMT file.

90-0908-02C

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Total of 36 files.

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Total of 366 files.

ULYSSES

COSPIN KET I/P PARTICLE DATA 10_MIN

90-090B-02D

THIS DATASET CONSISTS OF THREE 9-TRACK MAGNETIC TAPES. THE TAPES ARE 6250 BPI, LABELLED, AND IN ASCII FORMAT. CONTAINED IN THE DATASET CATALOG IS A DIRECTORY OF THE TAPES, NUMBER OF FILES, THE D AND C NUMBER ALONG WITH IT'S TIME SPAN.

THE DIRECTORY PATH IS ANON_DIR:[COHO.ULYSSES.PARTICLE.COSPIN.KET.10_MIN]

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D-108975	C-032991	KET2	665	01/01/92-10/26/93
D-108976	C-032992	KET3	530	10/27/93-04/09/95
D-108977	C-032993	KET4	632	04/10/93-12/31/96

09/20/2003 263

INFORMATION SHEET FOR INCOMING DATA

DATE DATA RECEIVED: 4/1/98

NSSDC ID: (AIM / NSDF) 90-090B-02D

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, NUMBER OF CD-ROMS,ETC.)
PI AND AFFILIATION:	4 mag tapes

SATELLITE NAME./NSDF NAME: ULYSSES

EXPERIMENT NAME: COSMIC RAY SOLAR PART.

DATA SET SHORT NAME: COSPIN KET I/P PART DATA 10 MIN

CONTACT: _____ ACQUISITION SCIENTIST: JFC

FORM CODE DATA TO BE ANNOUNCED IN AIM / NSDF: DD

THESE ARE : ✓ A NEW DATA SET ___ ADDITIONS ___ REPLACEMENTS ___ OTHER

ACCESSION UNIT NUMBERS: DD 108974-77
DC 032990-93

REMARKS:

DATA RECEIPT NOTIFICATION SENT?_____

Ralph Lost
DATA TECHNICIAN

933.0 (1/91)

★U.S. GPO: 1994-301-871/00701

UNIT RECORD FILE

90-090B-02D (1st tape)

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Total of 632 files.

From: NCF::POST 18-FEB-1998 10:58:28.42
To: MYERS
CC:
Subj: 90-090B-02D

From: NCF::JCOOPER "John F. Cooper" 15-JAN-1998 16:13:27.09
To: POST BANDERSON
CC: JCOOPER
Subj: New data set for Ulysses COSPIN KET 10-min particle counting rates

Ralph and Betty:

This is a new data set for 10-min. average data from the Electron Telescope (KET) in the COSPIN experiment on Ulysses. The ascii data are blocked into daily files in yearly subdirectories (1990, ..., 1996) of anon_dir:[coho.ulysses.particle.cospin.ket.10_min], along with the UCOSKETA.FM format description file in that main directory.

Please archive the data and format files off-line and create a new data set ID as per below.

John

****

Completed 3/19/98

Dataset ID: 90-090B-02D

Name (short): COSPIN KET I/P Part Data, 10-min

Type Code: 3

Label = KET-1st 90-91 (90296-91365) = 435 files / 3
KET2-2nd 92-933299 (=665 files

Contact: Heber

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

yr-90 = 70 files (90296-90365) } 02D
yr-91 = 365 files (91001-91365) }
yr-92 - 366 files (92001-92366) + 93001-93299
yr-93 - 299 files
yr-93300-365 = 66 files
yr-94001-365 = 365 + 1995001-099
yr-95 - 95100- (100) (95200=100) 95300-365-66
96

Avail Code: A

First date of data: 1990-10-23

Last date of data: 1996-12-31

Change of available date: 1998-01-15

Long Name: Ulysses COSPIN Electron Telescope (KET) Interplanetary Energetic Particle Data, 10-minute Spin Averaged

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
Title: Dr.

First & middle initial: Bernd
Last name: Heber
Current affl: University of Kiel
City, State: Kiel, Germany

Here is Heber's address information:

Name: Dr. Bernd Heber
Address: Inst. f|r Experiment. und Angewandte Physik
Arbeitsgruppe f|r Extraterrestrische Physik
Christian Albrechts Universitaet
Otto-Hahn-Platz 1
24118 Kiel, Germany
Phone: (49) 431-880-2486
Telefax: (49) 431 85660
Internet: bheber@kernphysik.uni-kiel.de
SPAN/NSI: IFKKI::HEBER

Brief Description:

This data set consists of 10-minute average interplanetary data for protons, helium, and electrons from the Electron Telescope (KET) instrument in the COSPIN experiment on Ulysses. The 29 instrument channel parameters include spin averaged counting rates (cps) for protons at 2.7 - 2100 MeV and above 2100 MeV, alphas at 6.0 - 2100 MeV and above 2100 MeV, and electrons at 2.5 - 170 MeV and above 170 MeV. Sectored rate channels are provided in 8 sectors for 5.4 - 23.1 MeV protons and 2.5 - 7.0 MeV electrons. All data are provided as counting rates, since extensive pulse height analysis (PHA) is required to calculate flux intensities. Some instrument channels have contamination from RTG background and side-penetrating cosmic ray particles. Some spurious spikes still remain in the data records. Large excursions confined to a single 10 minute interval should therefore be viewed with suspicion. It is recommended that the COSPIN team be contacted before extensive interpretation and analysis of these counting rate data is undertaken. The data file format is ASCII with one file per day. An accompanying text file specifies the record format. This data set was provided to NSSDC and updated through the Ulysses Data System at ESA's ESTEC facility. Further details about the data and the experiment, be found in Simpson et al., Astron. Astrophys. Suppl. Ser., 92(2), 365-399. 1992. This data set is available on-line at NSSDC as part of the Coordinated Heliospheric Observations (COHO) data base, accessible via anonymous FTP login at anonymous@nssdca.gsfc.nasa.gov or via WWW at the following URL:

http://nssdca.gsfc.nasa.gov/htbin/htdir/anon_dir/coho/ulysses/particle/cospin/

Acknowledgements:

"the principal investigator, Dr. Robert B. McKibben of the University of Chicago, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This data set is typically updated within one year of data processing and will continue throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

940461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of UCOSKETA.FMT file.

ULYSSES

COSPIN LET I/P PARTICLE FLUX,10_MIN

90-090B-02E

THIS DATASET CONSISTS OF THREE 9-TRACK MAGNETIC TAPES. THE TAPES ARE 6250 BPI, LABELLED, AND IN BINARY FORMAT. CONTAINED IN THE DATASET CATALOG IS A DIRECTORY OF THE TAPES, NUMBER OF FILES, THE D AND C NUMBER ALONG WITH IT'S TIME SPAN.

THE DIRECTORY PATH IS ANON_DIR:[COHO.ULYSSES.TRAJ.SEDR]

D#	C#	LABEL	FILES	TIMESPAN
D-108978	C-032994	LET	634	10/23/90-07/18/92
D-108979	C-032995	LET2	532	07/19/92-12/31/93
D-108980	C-032996	LET3	464	01/01/94-04/09/95
D-108981	C-032997	LET4	632	04/10/95-12/31/96

1095
365 data files

INFORMATION SHEET FOR INCOMING DATA

DATE DATA RECEIVED: 4/1/98

NSSDC ID: (AIM / NSDF) 90-090B-02E

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, NUMBER OF CD-ROMS,ETC.)
PI AND AFFILIATION:	4 mag tapes

SATELLITE NAME./NSDF NAME: ULYSSES

EXPERIMENT NAME: COSMIC RAY SOLAR PART

DATA SET SHORT NAME: COSPIN LET I/P PART FLUX, 10 MIN

CONTACT: _____ ACQUISITION SCIENTIST: JFC

FORM CODE DATA TO BE ANNOUNCED IN AIM / NSDF: DD

THESE ARE : ✓ A NEW DATA SET ___ ADDITIONS ___ REPLACEMENTS ___ OTHER

ACCESSION UNIT NUMBERS: DD 108978-81
AC032994-97

REMARKS:

DATA RECEIPT NOTIFICATION SENT?_____

Ralph Post
DATA TECHNICIAN

UNIT RECORD FILE

933.0 (1/91)

★U.S. GPO: 1994-301-871/00701

From: NCF::POST 18-FEB-1998 10:58:43.94
To: MYERS
CC:
Subj: 90-090B-02E

From: NCF::JCOOPER "John F. Cooper" 15-JAN-1998 16:14:18.26
To: POST BANDERSON
CC: JCOOPER
Subj: New data set for Ulysses COSPIN LET 10-min particle fluxes

Ralph and Betty:

This is a new data set for 10-min. average particle flux data from the Low Energy Telescope (LET) in the COSPIN experiment on Ulysses. The ascii data are blocked into daily files in yearly subdirectories (1990, ..., 1996) of anon_dir:[coho.ulysses.particle.cospin.let.10_min], along with the UCOSLET.FMT format description file in that main directory.

Please ingest the COHO data set into the off-line archive and create the new NMC entry for this data set.

John

****

ASCII

started 3/19/98

Dataset ID: 90-090B-02E

Name (short): COSPIN LET I/P Part Flux,10-min

Type Code: 3

Contact: Sanderson

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: A

First date of data: 1990-10-23

Last date of data: 1996-12-31

Change of available date: 1998-01-15

Long Name: Ulysses COSPIN Low Energy Telescope (LET) Interplanetary Energetic Particle Fluxes, 10-minute Averages

yr 1990 = 70 files (90296-365)

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
Title: Dr.

First & middle initial: Trevor R.
Last name: Sanderson
Current affl: SSD-ESA, ESTEC
City, State: Noordwijk, The Netherlands

Name: Dr. Trevor R. Sanderson
Address: Space Science Department of ESA, ESTEC
Postbus 299
2200 AG Noordwijk
The Netherlands

Phone: (31) 71 565 3577
Telefax: (31) 71 565 4697
Internet: tsanders@estec.esa.nl
SPAN/NSI: ESTSO3::TSANDERS

Brief Description:

This data set consists of 10-min average interplanetary fluxes for protons, alphas, and electrons from the Low Energy Telescope (LET) instrument in the COSPIN experiment on Ulysses. The LET data include spin-averaged fluxes (/cm2 s sr MeV) in various channels for protons at 0.9 - 19 MeV, alphas at 1.0 - 19 MeV, heavier ions at 1.9 - 75 MeV, and electrons at 0.3 - 1.0 MeV. Directional fluxes are provided in eight spin sectors separately for 1.8 - 3.8 MeV and 3.8 - 8.0 MeV protons. Some additional counting rates from single detectors are also included. There are 38 instrument data channels in the data set. The data file format is ASCII with one file per day, and a accompanying text file describes the record format. Some spurious spikes still remain in the data records. Large excursions confined to a single 10 minute interval should therefore be viewed with suspicion. It is recommended that the COSPIN team be contacted before extensive interpretation and analysis of these counting rate data is undertaken. This data set was provided to NSSDC and updated through the Ulysses Data System at ESA's ESTEC facility. Further details about the data and the experiment may be found in Simpson et al., Astron. Astrophys. Suppl. Ser., 92(2), 365-399. 1992. This data set is available on-line at NSSDC as part of the Coordinated Heliospheric Observations (COHO) data base, accessable via anonymous FTP login at anonymous@nssdca.gsfc. nasa.gov or via WWW at the following URL:

http://nssdca.gsfc.nasa.gov/htbin/htdir/anon_dir/coho/ulysses/particle/cospin/

Acknowledgements:

"the principal investigator, Dr. Robert B. McKibben of the University of Chicago, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This dataset is complete through 1996 and updates are expected to continue throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A

Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Lwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of UCOSLET.FMT file.

90-090B-02E Vol

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Total of 632 files.

ULYSSES
COSPIN HET 24-HR PROTON, HEL FLUX
90-090B-02G

COSPIN LET 24-HR PROTON, HEL FLUX
90-090B-02H

COSIN LET 20-DAY O,N,NE FLUXES
90-090B-02I

COSPIN HET 10 MIN SECTORED RATES
90-090B-02K

These datasets has been updated on one CD-RW. The data has been downloaded from ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/ written in ASCII format and compressed. The KD and KW numbers along with the time spans are as follows:

90-090B-02G

KD022359	KW000188	SPHE-00815	10/23/1990	09/16/2004

90-090B-02H

KD022360	KW000189	SPHE-00839	10/23/1990	12/31/2003

90-090B-02I

KD022361	KW000190	SPHE-00840	10/23/1990	07/08/2004

90-090B-02K

KD022362	KW000191	SPHE-00864	10/23/1990	09/23/2004

Gail and Betty:

This data set has been updated for March 31 to Sept. 8, 2004.

The NSSDC location of this data set is at the following directory:
/raid/ftp/spacecraft_data/ulysses/particle/cospin/het/het_pha_flux_h_he_1day/

Please ingest the new data file, cospin_het_phaflx_h_he_1day_1990_200409.asc
and discard the old file.

Please update the marked (#) NMC fields below.

Thanks.

John
**********4**********

Dataset ID: 90-090B-02G

Name (short): COSPIN HET 24-hr Proton,Hel Flux

Type Code: 3

Contact: McKibben

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: S

First date of data: 1990-10-23

#Last date of data: 2004-09-08 {updated from 2004-03-31}

#Change of available date: 2004-10-04

Long Name: Ulysses COSPIN High Energy Telescope
Daily Average Proton and Helium Fluxes

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
Title: Dr.
First & middle initial: R. Bruce
Last name: McKibben
Current affl: University of Chicago
City, State: Chicago, IL

Brief Description:

This data set consists of daily average fluxes in certain energy intervals for interplanetary protons and helium nuclei stopping in the detectors K1 - K6 of the High Energy Telescope (HET) sensor in the COSPIN experiment on Ulysses. The particles contributing to these fluxes have been identified by pulse height analysis which allows subtraction of telescope backgrounds and computation of

fluxes with known geometric factors. The data file in ascii table format includes proton fluxes in /cm2-s-sr-MeV units at 39 - 70 MeV and 71 - 94 MeV, and helium fluxes in /cm2-s-sr-MeV/n units at 39 - 71 and 72 - 95 MeV/nucleon. Errors are also given for each flux in the same units and correspond to one-sigma counting errors for Poisson statistics. Other errors due to uncertainties in geometric factors and energy bands are estimated at 10 to 20 percent of the measured flux. During solar energetic particle events, HET count rates are dominated by low energy protons, and fluxes of higher energy protons and helium nuclei may be underestimated. Missing, invalid, or meaningless data are represented by values of -1.0. Times are given at the mid-point of each daily interval in fractional year and day of year (noon Jan. 1 = 1.5). The HET sensor is described in detail by Simpson et al. (Astron. & Astrophys., vol 92, pp. 365-399, 1992). This data set is available on-line at the NSSDC Anonymous FTP site via login at nssdcftp.gsfc.nasa.gov in directory spacecraft_data/ulysses/particle/cospin/het/ or via the World Wide Web at the following URL:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/cospin/het/

Acknowledgements:

"the principal investigator, Dr. R. Bruce McKibben of the University of New Hampshire, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This dataset is up to date and will be extended at six to twelve month intervals throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of file cospin_het_phaflux_format.txt

Gail and Betty,

This updated data set is located on nssdcftp at the following directory:

/raid/ftp//spacecraft_data/ulysses/particle/cospin/het/10min_sectored/

This is an update of the Ulysses COSPIN HET 10-min sectored data for April 9 to August 30, 2004.

All files have the format ucoshetaYYDDD.asc for 2-digit year YY and day DDD. The new files for YY=04 are from days 100-243.

Files for various years are located in the YY subdirectories.

Thanks.

John

****

Dataset ID: 90-090B-02K

Name (short): COSPIN HET 10min Sectored Rates

Type Code: 3

Contact: McKibben

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: S

First date of data: 1990-10-23

#Last date of data: 2004-08-30 {updated from 2004-04-09}

#Change of available date: 2004-10-04

Long Name: Ulysses COSPIN High Energy Telescope
(HET) Sectored 10-min H and e Flux

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
Title: Dr.
First & middle initial: Robert B.
Last name: McKibben
Current affl: University New Hampshire
City, State: Durham, NH

Brief Description:

This data set consists of 10-minute-averaged interplanetary proton (34-92 MeV) and electron (5 - 10 MeV) count rates in eight directional sectors of

spacecraft spin from the High Energy Telescope (HET) instrument in the COSPIN experiment on Ulysses. The proton and electron data are respectively from the H45s and H7s rate channels. Each record includes data fields for start year, day, hour, and minute for date/time, eight sectored rates for protons followed by eight more for electrons, and then ends with two date parameters for fractional year of 1900 (i.e., 1900 is subtracted) and fractional day of year. The fill value "-1" is used to represent missing data. Data records are written in ASCII format. Further details about the data and the experiment, including geometric factors for conversion of counting rates to flux units, may be found in Simpson et al., Astron. Astrophys. Suppl. Ser., 92(2), 365-399. 1992.

This data set may be access on-line, either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory spacecraft_data/ulysses/particle/cospin/het or via the Internet at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/cospin/het/

Acknowledgements:

"the principal investigator, Dr. Robert B. McKibben of the University of New Hampshire, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This new data set is typically updated within less than one year of data processing.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of format file ulycsp_het_10m_sectored_fmt.txt

Gail and Betty:

This is an update of the data set for daily PHA fluxes of H and He from the Low
Energy Telescope (LET) sensor of the COSPIN instrument on Ulysses for Jan. 1 to Aug. 31, 2004.

The NSSDC location of this data set is at the following directory:
/raid/ftp/spacecraft_data/ulysses/particle/cospin/let/let_pha_flux_h_he_1day/

Please ingest the revised data file, let_phaflux_h_he_1day_1990_200408.asc and discard the old *.asc file.

Please update the marked (#) NMC fields below.

Thanks.

John
****

Dataset ID: 90-090B-02H

Name (short): COSPIN LET 24-hr Proton,Hel Flux

Type Code: 3

Contact: Sanderson

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: S

First date of data: 1990-10-23

#Last date of data: 2004-08-31 {updated from 2004-01-01}

#Change of available date: 2004-09-23

Long Name: Ulysses COSPIN Low Energy Telescope
Daily Average Proton and Helium Fluxes

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
Title: Dr.
First & middle initial: Trevor R.
Last name: Sanderson
Current affl: SSD-ESA, ESTEC
City, State: Noordwijk, The Netherlands

NO PSC not in IDA

Brief Description:

This data set consists of daily average fluxes in certain energy intervals for interplanetary protons and helium nuclei from the Low Energy Telescope (LET) sensor in the COSPIN experiment on Ulysses. The particles contributing to these
fluxes have been identified by pulse height analysis which allows subtraction of telescope backgrounds and computation of fluxes with known geometric factors. The data file in ascii table format includes proton fluxes (/cm2-s-sr-MeV) at 2 to 20 MeV in five channels and helium fluxes (/cm2-s-sr-MeV/n) at 4 to 20 MeV/nucleon in three channels. Statistical errors for the flux from each channel are also included. The LET sensor is described in detail by Simpson et al. (Astron. & Astrophys., vol 92, pp. 365-399, 1992).
This data set is available on-line at the NSSDC Anonymous FTP site via login at
nssdcftp.gsfc.nasa.gov in directory

spacecraft_data/ulysses/particle/cospin/let/

or via the World Wide Web at the following URL:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/cospin/let/

Acknowledgements:

"the principal investigator, Dr. R. Bruce McKibben of the University of New Hampshire, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This dataset is up to date and will be extended at six to twelve month intervals throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of file cospin_let_users_notes.txt.

7

Gail and Betty:

This is an update of the data set for daily PHA fluxes of O, N, and Ne ions from the Low Energy Telescope (LET) sensor of the COSPIN instrument on Ulysses for Jan. 1 to Aug. 31, 2004.

The NSSDC location of this data set is at the following directory:
/raid/ftp/spacecraft_data/ulysses/particle/cospin/let/let_pha_flux_o_n_ne_20day/

Please ingest the revised data file, let_phaflux_o_n_ne_20day_1990_200408.asc and discard the old data file *.asc. The last 20-day average in this file extends through 2004-09-09.

Please update the marked (#) NMC fields below.

Thanks.

John
****

Dataset ID: 90-090B-02I

Name (short): COSPIN LET 20-Day O,N,Ne Fluxes

Type Code: 3

Contact: Sanderson

Acq. Agent: JFC

NASA HQ Discipline Code: SPHE

NASA HQ Interest Code: 5E

Avail Code: S

First date of data: 1990-11-02

#Last date of data: 2004-09-09

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Long Name: Ulysses COSPIN Low Energy Telescope
20-Day Oxygen, Nitrogen, Neon Fluxes

Dfqdat;
Date:
Form: DD
Quantity: 1

Dataset Contact:
Type: CO
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no DSC
not in IDA

City, State: Noordwijk, The Netherlands

Brief Description:

This data set consists of 20-day average fluxes in certain energy intervals for interplanetary oxygen, nitrogen, and neon nuclei from the Low Energy Telescope (LET) sensor in the COSPIN experiment on Ulysses. The particles contributing to these fluxes have been identified by pulse height analysis which allows subtraction of telescope backgrounds and computation of fluxes with known geometric factors. The data file in ascii table format includes oxygen fluxes (/cm2-s-sr-MeV/n) at 4 to 20 MeV/nucleon in four channels, nitrogen fluxes at 4 to 20 MeV/n in two channels, and neon fluxes at 4 to 30 MeV/n in two channels. Statistical errors for the flux from each channel are also included. The LET sensor is described in detail by Simpson et al. (Astron. & Astrophys., vol 92, pp. 365-399, 1992). This data set is available on-line at the NSSDC Anonymous FTP site via login at nssdcftp.gsfc.nasa.gov in directory

spacecraft_data/ulysses/particle/cospin/let/

or via the World Wide Web at the following URL:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ulysses/particle/cospin/let/

Acknowledgements:

"the principal investigator, Dr. R. Bruce McKibben of the University of New Hampshire, "

Archive Plan Flag: A
Archiving status flag: C
Archiving Planning/Status:
This dataset is up to date and will be extended at six to twelve month intervals throughout the Ulysses mission.
Archiving Location: NSSDC
Archiving Organization: NASA
Archive Type: P
Documentation Status Flag: C

Bibliographic References:

B40461-000A
Simpson, J. A., J. D. Anglin, A. Balogh, M. Bercovitch, J. M. Bouman, E. E. Budzinski, J. R. Burrows, R. Carvell, J. J. Connell, R. Ducros, P. Ferrando, J. Firth, M. Garcia-Munoz, J. Henrion, R. J. Hynds, B. Iwers, R. Jacquet, H. Kunow, G. Lentz, R. G. Marsden, R. B. McKibben, R. Mueller-Mellin, D. E. Page, M. Perkins, A. Raviart, T. R. Sanderson, H. Sierks, L. Treguer, A. J. Tuzzolino, K.-P. Wenzel, and G. Wibberenz, The Ulysses cosmic ray and solar particle investigation, Astron. Astrophys. Suppl. Ser., 92, No. 2, 365-399, Jan. 1992.

Materials for Distribution:

Paper copy of file cospin_let_users_notes.txt.