DSC# 847

ACE SIS Level 2
Fluxes, HDF

97-045A-05A
97-045A-05B
97-045A-05C

97-045A-05D
97-045A-05E
97-045A-05F
97-045A-05G
97-045A-05H

847	97-045A-05A	SPHE-00835
847	97-045A-05B	SPHE-00834
847	97-045A-05C	SPHE-00833
847	97-045A-05D	SPHE-00832
847	97-045A-05E	SPHE-00831
847	97-045A-05F	SPHE-00830
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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ACE
SIS LEVEL-2 FLUXES HDF

97-045A-05A-H

THIS DATA CONSISTS OF 8 MM &4MM TAPES. A DIRECTORY OF TAPES AS WELL AS COPY'S OF THE REFERENCE DOCUMENT HAS BEEN PLACED IN THE CATALOG. THE DATA CAN BE FOUND AT NSSDCFTP.GSFC.NASA.GOV/SPACECRAFT_DATA/ACE_SIS/LEVEL2. DD &DC NUMBER AND TIME SPAN AS FOLLOWS:

DD#	DC#	ID	TIME SPAN	
DD109489	DC033277	97-045A-05A	08/14/1997 - 03/28/2001	SPHE-00835
DD109490	DC033278	97-045A-05B	08/14/1997 – 03/28/2001	SPHE-00834
DD109491	DC033279	97-045A-05C	08/14/1997 – 03/28/2001	SPHE-00834
DD109492	DC033280	97-045A-05D	08/14/1997 – 03/28/2001	SPHE-00832
DD109493	DC033281	97-045A-05E	08/14/1997 – 03/28/2001	SPHE-00831
DD109494	DC033282	97-045A-05F	08/14/1997 – 03/28/2001	SPHE-00830
DD109495	DC033283	97-045A-05G	08/14/1997 – 03/28/2001	SPHE-00829
DD109496	DC033284	97-045A-05H	08/14/1997 – 03/28/2001	SPHE-00828

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) 256-sec Cosmic Ray Fluxes, HDF

NSSDC ID:SPHE-00835

Other ID

97-045A-05A

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains Level 2 data at 256-sec resolution in binary Hierarchical Data Format (HDF) format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain 256-sec time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory

/spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

Experiment Information
Mission Information

NSSDC Space Physics page

NSSDC home page

For questions about this dataset, please contact:
Dr. John F. Cooper
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NASA Goddard Space Flight Center, Greenbelt, MD 20771
301-286-1193
jfcooper@pop600.gsfc.nasa.gov

NSSDC Security and Privacy Statement

NASA Official: Ed Grayzeck, edwin.j.grayzeck@nasa.gov
Last Updated: 2004-07-02
Output Generated: 2005-01-02
Programming by: E. V. Bell, II (ed.bell@gsfc.nasa.gov)

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) 256-sec Cosmic Ray Fluxes, ASCII

NSSDC ID:SPHE-00834

Other ID

97-045A-05B

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains Level 2 data at 256-sec resolution in ASCII format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain 256-sec time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory

/spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

Experiment Information
Mission Information

NSSDC Space Physics page

NSSDC home page

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NSSDC Security and Privacy Statement

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) Hourly Average Cosmic Ray Fluxes, ASCII

NSSDC ID:SPHE-00832

Other ID

97-045A-05D

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains hourly Level 2 data in ASCII format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain hourly time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory /spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

Experiment Information
Mission Information

NSSDC Space Physics page

NSSDC home page

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NSSDC Security and Privacy Statement
NASA Official: Ed Grayzeck, edwin.j.grayzeck@nasa.gov
Last Updated: 2004-07-02
Output Generated: 2005-01-02

Programming by: E. V. Bell, II (ed.bell@gsfc.nasa.gov)

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) Daily Average Cosmic Ray Fluxes, HDF

NSSDC ID:SPHE-00831

Other ID

97-045A-05E

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains daily Level 2 data in binary Hierarchical Data Format (HDF) format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain daily time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory

/spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

Experiment Information
Mission Information

NSSDC Space Physics page

NSSDC home page

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NSSDC Security and Privacy Statement

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) Daily Average Cosmic Ray Fluxes, ASCII

NSSDC ID:SPHE-00830

Other ID

97-045A-05F

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains daily Level 2 data in ASCII format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain daily time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory /spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

Experiment Information
Mission Information

NSSDC Space Physics page

NSSDC home page

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NSSDC Security and Privacy Statement
NASA Official: Ed Grayzeck, edwin.j.grayzeck@nasa.gov
Last Updated: 2004-07-02
Output Generated: 2004-12-31

Programming by: E. V. Bell, II (ed.bell@gsfc.nasa.gov)

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) 27-Day Average Cosmic Ray Fluxes, HDF

NSSDC ID:SPHE-00829

Other ID

97-045A-05G

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains 27-day Level 2 data in binary Hierarchical Data Format (HDF) format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Data records contain 27-day (Bartels solar rotation period) averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory /spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/

Mission Name: Experiment

ACE: Solar Isotope Spectrometer (SIS)

Discipline

Space Physics: Heliospheric Studies

Archive Location

National Aeronautics and Space Administration (Nationa

Media Information

Online
1 4-mm Tape

Personnel Information

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NSSDC Space Physics page

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NSSDC Security and Privacy Statement
NASA Official: Ed Grayzeck, edwin.j.grayzeck@nasa.gov
Last Updated: 2004-07-02
Output Generated: 2005-01-02

Programming by: E. V. Bell, II (ed.bell@gsfc.nasa.gov)

NSSDC Master Catalog Display: Data Set

ACE Solar Isotope Spectrometer (SIS) Hourly Average Cosmic Ray Fluxes, HDF

NSSDC ID:SPHE-00833

Availability: At NSSDC, Ready for Offline Distribution (or Staging if Digital)
Time Span: 1997-08-14 to 2001-03-28 (as determined by NSSDC)

Description

This data set contains hourly Level 2 data in binary Hierarchical Data Format (HDF) format from the Solar Isotope Spectrometer (SIS) instrument on the Advanced Composition Explorer (ACE) spacecraft. This data set includes all measurements from solar quiet and active periods. Each data file covers one 27-day Bartels interval of solar rotation. Data records contain hourly time averages of fluxes in units of particles/(cm^2*sr*sec*Mev/nucleon) in eight energy bands within the overall range of ~ 3 to 170 MeV/nucleon for the following elements: He, C, N, O, Ne, Mg, Si, S, and Fe. Isotopic data are not included. Energy bands for each element are different and are listed in the text file sis_energy_bands.txt. SIS counts for He may be low during periods of high solar activity and of consequently reduced livetimes for He. A data value of -999.9 indicates bad or missing data for the given time period. The number of counts is also given from which the statistical uncertainties can be calculated. Statistical flux uncertainties are computed from flux/sqrt(N), where N is the number of counts or events during the averaging period. The SIS team currently recommends adding an additional 5% to the statistical uncertainties computed from the counts data for other instrumental effects. Current release notes on Level 2 processing are given in the text file sis_release_notes.txt.

This data set and the associated documents are accessible on-line at NSSDC either by anonymous ftp login at nssdcftp.gsfc.nasa.gov in directory /spacecraft_data/ace/sis/level_2/ or via Web browser at the following URL address:

ftp://nssdcftp.gsfc.nasa.gov/spacecraft_data/ace/sis/level_2/