Voyager 1 + 2 #851

High Resolution Solar Wind Data

77-084A-060 SPHE-00415

77-076A-06T SPHE-00582

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

Voyager 1

High Resolution Solar Wind Data

77-084A-060 SPHE-00415

The data were written to CD-Write Once media in ASCII format with a filename format of V1_HIRES_yyyy.ASC, each covering one year of data for year "yyyy".

The CD-Write Once KD and KW number along with the corresponding time span is as follows:

KD#	KW#	TIME SPAN
KD022364	KW000193	09/07/1977 - 12/31/1980

File: VY1PLA_HIRES_FMT.txt Version: 12/30/98 MIT

The files in this directory contain the Voyager fine resolution plasma da The plasma parameters are obtained by finding the best fit of a convected isotropic Maxwellian distribution to the data. One sigma errors are typically less than 0.5% in the speed and VR, less than 5% for the density and thermal speed, and vary greatly for VT and VN.
Sampling times range from 12 to 192 sec., with sampling generally more frequent early in the mission. The columns are:

1) Year
2) day of year (day 1 is Jan. 1)
3) decimal hour
4) proton speed in km/s (magnitude of V)
5) proton density in cm-3
6) proton thermal speed in km/s (proton temperature in eV = .0052 times the square of the thermal speed)
7) VR
8) VT (WARNING: this parameter is often NOT reliable after 1989)
9) VN (WARNING: this parameter is often NOT reliable after 1989)

The velocity components are given in the RTN coordinate system, where R is radially outward, T is in a plane parallel to the solar equatorial plane and positive in the direction of solar rotation, and N completes a right-handed system.

Please consult with us, or at least send preprints, when you use this data to prevent grievous errors or misconceptions. (John Richardson, jdr@space.mit.edu)

VOYAGER 2
High Resolution Solar Wind Data

77-076A-06T SPHE-00582

The data were written to CD-Write Once media in ASCII format with filename formats of V2_HIRES_YY.ASC, each covering one year of data for year "yyyy". Originally the data had been stored on 4-mm and 8-mm cartridge tapes, DD109277 and DC033155. Since originally processed, updated data has been received and has been fully reingested onto CD-Write Once media.

The CD-Write Once KD and KW numbers along with the corresponding time span is as follows:

KD#	KW#	TIME SPAN
KD022366	KW000195	08/21/1977 - 02/2/2006

File: VY2PLA_HIRES_FMT.txt Version: NSSDC 12/31/98 MIT

The files in this directory contain the Voyager fine resolution plasma da' The plasma parameters are obtained by finding the best fit of a convected isotropic Maxwellian distribution to the data. One sigma errors are typically less than 0.5% in the speed and VR, less than 5% for the density and thermal speed, and vary greatly for VT and VN.
Sampling times range from 12 to 192 sec., with sampling generally more frequent early in the mission. The columns are:

1) Year
2) day of year (day 1 is Jan. 1)
3) decimal hour
4) proton speed in km/s (magnitude of V)
5) proton density in cm-3
6) proton thermal speed in km/s (proton temperature in eV = .0052 times the square of the thermal
7) VR
8) VT (WARNING: this parameter is often NOT reliable after 1989)
9) VN (WARNING: this parameter is often NOT reliable after 1989)

The velocity components are given in the RTN coordinate system, where R is radially outward, T is in a plane parallel to the solar equatorial plane and positive in the direction of solar rotation, and N completes a right-handed system.

Please consult with us, or at least send preprints, when you use this data to prevent grievous errors or misconceptions. (John Richardson, jdr@space.mit.edu)