843

IUE

Low Dispersion Atlas Vilspa 1984

78-012A-01I ASUV-00044

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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LOW DISPERSION ATLAS VILSPA 1984

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This data set has been updated with an ASCII version copied from the Astronomical Data Center (ADC) archives. The original data had been restored to tape written in ASCII. The data set has been processed to one CD-Write Once containing three files; file 1 contains the IUE Low-Dispersion Spectra Flux Catalogue, Part 1. Normal Stars, file 2 contains the list of sources, and file 3 contains the source reference, brief description of data set, format description and file summary.

KD#	KW#	Volume		
KD021287	KW000157	Low_Dispersion	File 1	catalog.dat
			File 2	sources.dat
			File 3	readme.txt

IUE Low-Dispersion Reference Atlas I, Normal Stars (Heck+ 1984)

IUE Low-Dispersion Spectra Reference Atlas. I. Normal Stars
Heck A., Egret D., Jaschek M., Jaschek C.
<ESA SP-1052 (1984)>
<Astron. Astrophys. Suppl. Ser. 57, 213 (1984)>
=1984A&AS...57..213H

ADC_Keywords: Spectrophotometry; Spectra, ultraviolet
Mission_Name: IUE

Description:
The atlas contains the fluxes (2 angstroms/step) of 229 low-dispersion stellar spectra collected by the International Ultraviolet Explorer (IUE) satellite, compiled for the purpose of establishing reference spectral sequences in the ultraviolet range. The sequences have been constructed and the standard stars selected directly from the ultraviolet material, staying as far as possible within the general MK frame. The catalog is essentially composed of stars exhibiting normal behaviour in the ultraviolet. A few peculiar objects have, however, been included as an illustration of typical abnormalities. This work clearly pointed out the dangers of extrapolating a spectral classification based on a given wavelength range to another one, and, in particular, of using the MK spectral type alone outside its definition range.

File Summary:

FileName	Lrecl	Records	Explanations
readme.txt	80	.	This file
catalog.dat	80	46945	Calibrated fluxes for each source
sources.dat	44	229	List of sources

Byte-by-byte Description of file: catalog.dat

Bytes	Format	Units	Label	Explanations
2- 13	A12	---	ID	*Identification of the star (preferably HD)
14- 20	I7	10-17W/m2/A	Fmax	*Maximum flux on plot
22- 24	I3	---	Num	Record number for the star
26- 29	I4	0.1nm	Lambda	Wavelength for first flux value in record
31- 40	E10.4	mW/m2/A	Flux1	*Calibrated absolute fluxes (erg s-1 cm-2 A-1)

```
  41- 50  E10.4  mW/m2/A     Flux2   Flux for ({Lambda} + 2A)
  51- 60  E10.4  mW/m2/A     Flux3   Flux for ({Lambda} + 4A)
  61- 70  E10.4  mW/m2/A     Flux4   Flux for ({Lambda} + 6A)
  71- 80  E10.4  mW/m2/A     Flux5   Flux for ({Lambda} + 8A)
--------------------------------------------------------------------------------
Note on ID:
   Each star occupies 205 records of the catalog. ID is repeated. For a list
     of the sources in order of appearance in this file, please see
     sources.dat.

Note on Fmax:
   Value used as maximum on the y-axis when plotting the spectrum for the
     atlas. Repeated on each line for same star.
   (unit : 10-14 erg cm-2 A-1 s-1)

Note on Flux1:
   Each star has fluxes given for wavelengths 1153A to 3201A stepped by 2A.
     Five fluxes are given per record. The 205 records for each star are
     labeled in the Num field.
--------------------------------------------------------------------------------

Byte-by-byte Description of file: sources.dat
--------------------------------------------------------------------------------
   Bytes Format Units                Label Explanations
--------------------------------------------------------------------------------
   2-  3  I2    h                    RAh   Right Ascension 2000 (hours)
   5-  6  I2    min                  RAm   Right Ascension 2000 (minutes)
   8- 11  F4.1  s                    RAs   Right Ascension 2000 (seconds)
      13  A1    ---                  DE-   Declination 2000 (sign)
  14- 15  I2    deg                  DEd   Declination 2000 (degrees)
  17- 18  I2    arcmin               DEm   Declination 2000 (minutes)
  20- 21  I2    arcsec               DEs   Declination 2000 (seconds)
  25- 36  A12   ---                  ID    Identification of the star
                                             (preferably HD)
  38- 44  I7    10-17W/m2/Angstroem Fmax  Maximum flux on atlas plot of spectrum
--------------------------------------------------------------------------------

Remarks and Modifications:
  Francois Ochsenbein [CDS]   03-Dec-1993
  The original file has been transformed to allow easier computer reading:
  the redundant 1025 wavelength values (1153 to 3201 stepped by 2) were removed,
  floating-point numbers were normalized with the addition of the "E" between
  the mantissa and the exponent.

  Julie Anne Watko [ADC]   02-JAN-1997
  The data file had been formatted with one line per star. The old 10270 byte
  records were difficult to read on some computers. Fluxes were reformatted
```

to accommodate an 80 byte logical record length. Running numbers and wavelengths were added. sources.dat was created, and the Intro document
from CDS was updated.

The 2000-position of stars was added at CDS (F.O., 08-Oct-1997)
==========
(End) Julie Anne Watko [SSDOO/ADC] 02-Jan-1997

partial listing - catalog.dat

HD 698	1200	1	1153	.2541E-10	.1069E-10	.1122E-10	.1235E-10	.1168E-10
HD 698	1200	2	1163	.1004E-10	.7967E-11	.1109E-10	.1051E-10	.8797E-11
HD 698	1200	3	1173	.6466E-11	.4450E-11	.4045E-11	.5412E-11	.7787E-11
HD 698	1200	4	1183	.8618E-11	.7529E-11	.7048E-11	.6763E-11	.1878E-11
HD 698	1200	5	1193	.3180E-11	.5113E-11	.7241E-11	.5874E-11	.4196E-11
HD 698	1200	6	1203	.3590E-11	.3518E-11	.1943E-11	.1893E-11	.1611E-11
HD 698	1200	7	1213	.1191E-11	.9804E-12	.1106E-11	.1357E-11	.1733E-11
HD 698	1200	8	1223	.2943E-11	.3390E-11	.4618E-11	.6277E-11	.5841E-11
HD 698	1200	9	1233	.6448E-11	.7065E-11	.7711E-11	.8520E-11	.8112E-11
HD 698	1200	10	1243	.7846E-11	.7749E-11	.8927E-11	.8077E-11	.7844E-11
HD 698	1200	11	1253	.8018E-11	.7838E-11	.8033E-11	.7703E-11	.7045E-11
HD 698	1200	12	1263	.6349E-11	.7226E-11	.7854E-11	.8344E-11	.8789E-11
HD 698	1200	13	1273	.8257E-11	.8009E-11	.7981E-11	.8516E-11	.8862E-11
HD 698	1200	14	1283	.8658E-11	.8308E-11	.1018E-10	.9113E-11	.8175E-11
HD 698	1200	15	1293	.7355E-11	.7348E-11	.7188E-11	.6652E-11	.5960E-11
HD 698	1200	16	1303	.6054E-11	.6560E-11	.6928E-11	.7361E-11	.9239E-11
HD 698	1200	17	1313	.9468E-11	.9354E-11	.9201E-11	.1064E-10	.1035E-10
HD 698	1200	18	1323	.9883E-11	.9348E-11	.9133E-11	.8871E-11	.8871E-11
HD 698	1200	19	1333	.8883E-11	.7666E-11	.8680E-11	.9539E-11	.1031E-10
HD 698	1200	20	1343	.1081E-10	.1012E-10	.1011E-10	.1025E-10	.8767E-11
HD 698	1200	21	1353	.8402E-11	.9166E-11	.1031E-10	.9658E-11	.9496E-11
HD 698	1200	22	1363	.9078E-11	.8592E-11	.8721E-11	.8866E-11	.9337E-11
HD 698	1200	23	1373	.9919E-11	.1003E-10	.8777E-11	.8375E-11	.8296E-11
HD 698	1200	24	1383	.7755E-11	.8232E-11	.8603E-11	.8787E-11	.7799E-11
HD 698	1200	25	1393	.7092E-11	.6571E-11	.6300E-11	.7431E-11	.7847E-11
HD 698	1200	26	1403	.7479E-11	.6946E-11	.7829E-11	.8065E-11	.8063E-11
HD 698	1200	27	1413	.8004E-11	.8285E-11	.8427E-11	.8148E-11	.7775E-11
HD 698	1200	28	1423	.8037E-11	.8488E-11	.8947E-11	.9420E-11	.9882E-11
HD 698	1200	29	1433	.8665E-11	.8731E-11	.9294E-11	.9723E-11	.9627E-11
HD 698	1200	30	1443	.9703E-11	.9844E-11	.9977E-11	.9493E-11	.9037E-11
HD 698	1200	31	1453	.8918E-11	.1092E-10	.1087E-10	.1063E-10	.1030E-10
HD 698	1200	32	1463	.9873E-11	.1030E-10	.9835E-11	.9155E-11	.9226E-11
HD 698	1200	33	1473	.9423E-11	.9379E-11	.9254E-11	.9192E-11	.9854E-11
HD 698	1200	34	1483	.9890E-11	.9717E-11	.9606E-11	.1083E-10	.1110E-10
HD 698	1200	35	1493	.1101E-10	.1077E-10	.1043E-10	.1005E-10	.9732E-11
HD 698	1200	36	1503	.9889E-11	.9135E-11	.9210E-11	.9606E-11	.1024E-10
HD 698	1200	37	1513	.8783E-11	.8687E-11	.9010E-11	.9237E-11	.1039E-10
HD 698	1200	38	1523	.1008E-10	.9318E-11	.8620E-11	.8820E-11	.8721E-11
HD 698	1200	39	1533	.8509E-11	.8199E-11	.8674E-11	.9112E-11	.9471E-11
HD 698	1200	40	1543	.9493E-11	.8719E-11	.7865E-11	.7393E-11	.8824E-11
HD 698	1200	41	1553	.7798E-11	.8041E-11	.8593E-11	.8910E-11	.8719E-11
HD 698	1200	42	1563	.8082E-11	.7610E-11	.8403E-11	.8501E-11	.8553E-11
HD 698	1200	43	1573	.8583E-11	.8566E-11	.9085E-11	.8720E-11	.8410E-11
HD 698	1200	44	1583	.9298E-11	.9141E-11	.9478E-11	.9819E-11	.9659E-11
HD 698	1200	45	1593	.9686E-11	.9833E-11	.9749E-11	.8624E-11	.8232E-11
HD 698	1200	46	1603	.7790E-11	.7755E-11	.9352E-11	.8075E-11	.7903E-11
HD 698	1200	47	1613	.7975E-11	.7957E-11	.8765E-11	.8444E-11	.8022E-11
HD 698	1200	48	1623	.8208E-11	.8843E-11	.8702E-11	.8457E-11	.8491E-11
HD 698	1200	49	1633	.8174E-11	.7858E-11	.7670E-11	.7927E-11	.8799E-11
HD 698	1200	50	1643	.8711E-11	.8439E-11	.8257E-11	.8238E-11	.8419E-11
HD 698	1200	51	1653	.8565E-11	.8456E-11	.7401E-11	.7082E-11	.7263E-11
HD 698	1200	52	1663	.8591E-11	.8389E-11	.8196E-11	.8039E-11	.7986E-11
HD 698	1200	53	1673	.7606E-11	.7613E-11	.7772E-11	.8168E-11	.7872E-11
HD 698	1200	54	1683	.7921E-11	.8005E-11	.7994E-11	.8464E-11	.8326E-11
HD 698	1200	55	1693	.8097E-11	.7932E-11	.8559E-11	.8767E-11	.8752E-11
HD 698	1200	56	1703	.8307E-11	.8111E-11	.7981E-11	.7918E-11	.8011E-11
HD 698	1200	57	1713	.7938E-11	.7848E-11	.7826E-11	.8005E-11	.7797E-11
HD 698	1200	58	1723	.7688E-11	.7572E-11	.7380E-11	.8034E-11	.8136E-11
HD 698	1200	59	1733	.8195E-11	.8393E-11	.8348E-11	.8526E-11	.8602E-11
HD 698	1200	60	1743	.8322E-11	.8389E-11	.8417E-11	.8334E-11	.7973E-11