DE-2

UA & OA (16 SEC). ASC II

81-070B-00J

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

DE-2

UA & OA (16 SEC), ASC II

81-070B-00J SPIO-00040

This data set consists of 1 magnetic tape. The tape is 8mm cartridge, written in ASC II and Labeled: DE2-UA. There is an addition header file and a trailer file to each of the under mentioned files. The C tape is 4mm cartridage, created on a VAX computer. The D and C number and time span is as follows:

D#	C#	FILES	TIME SPAN
D-108215	C-032032	552	08/06/81 - 02/16/93

DE-2 UA data
81-070B-00J

Label = DE2-UA

```
$   exit
$  IF F$MODE() .EQS. "BATCH" THEN EXIT
$ ALLOCATE MKA400:
%DCL-I-ALLOC, _$1$MUA4: allocated
$ ALLOCATE MKA600:
%DCL-I-ALLOC, _$1$MUA6: allocated
$ MOUNT/FOR/BLOCKSIZE=65000/NOMOUNT_VERIFICATION MKA400:
%MOUNT-I-WRITELOCK, volume is write locked
%MOUNT-I-MOUNTED, DE2-UA mounted on _$1$MUA4: (NCFMR)
$ MOUNT/FOR/BLOCKSIZE=65000/NOMOUNT_VERIFICATION MKA600:
%MOUNT-I-MOUNTED, DE2-UA mounted on _$1$MUA6: (NCFMR)
$ RUN USER:[DAVEG.COMMON.BATCH]BCOPY_RUN.EXE
ENTER INPUT TAPE DRIVE >>
MKA400:
ENTER OUTPUT TAPE DRIVE >>
MKA600:

ENTER INPUT TAPE NAME >>
DE2-IN
ENTER OUTPUT NAME >>
DE2-OUT
COPY WHOLE TAPE? [(Y),N] >>
Y
```

COPY OF DE2-IN ONTO DE2-OUT

FILE	RECORDS READ	RECORDS WRITTEN	RECORD SIZE MAXIMUM	RECORD SIZE MINIMUM	ERRORS
1	5	5	80	80	0
2	2	2	2048	2048	0
3	4	4	80	80	0
4	4	4	80	80	0
5	19	19	2048	2048	0
6	4	4	80	80	0
7	4	4	80	80	0
8	24	24	2048	2048	0
9	4	4	80	80	0
10	4	4	80	80	0
11	1	1	36200	36200	0
12	4	4	80	80	0
13	4	4	80	80	0
14	1	1	36200	36200	0
15	4	4	80	80	0
16	4	4	80	80	0
17	4	4	36200	36200	0
18	4	4	80	80	0
19	4	4	80	80	0
20	1	1	36200	36200	0
21	4	4	80	80	0
22	4	4	80	80	0
23	1	1	36200	36200	0
24	4	4	80	80	0
25	4	4	80	80	0
26	1	1	36200	36200	0
27	4	4	80	80	0
28	4	4	80	80	0
29	7	7	36200	36200	0

DE2 -UA

1623	4	4	80	80	0
1624	4	4	80	80	0
1625	9	9	36200	36200	0
1626	4	4	80	80	0
1627	4	4	80	80	0
1628	7	7	36200	36200	0
1629	4	4	80	80	0
1630	4	4	80	80	0
1631	5	5	36200	36200	0
1632	4	4	80	80	0
1633	4	4	80	80	0
1634	6	6	36200	36200	0
1635	4	4	80	80	0
1636	4	4	80	80	0
1637	10	10	36200	36200	0
1638	4	4	80	80	0
1639	4	4	80	80	0
1640	8	8	36200	36200	0
1641	4	4	80	80	0
1642	4	4	80	80	0
1643	9	9	36200	36200	0
1644	4	4	80	80	0
1645	4	4	80	80	0
1646	4	4	36200	36200	0
1647	4	4	80	80	0
1648	4	4	80	80	0
1649	6	6	36200	36200	0
1650	4	4	80	80	0
1651	4	4	80	80	0
1652	9	9	36200	36200	0
1653	4	4	80	80	0
1654	4	4	80	80	0
1655	3	3	36200	36200	0
1656	4	4	80	80	0

```
END OF COPY

BYTES COPIED = 266732720
RECORDS COPIED = 11818
ERRORS = 0

START TIME: 28-JUL-1995 06:43:42.99
END TIME:   28-JUL-1995 10:49:52.27
ELAPSED TIME: 04:06:10


REWINDING TAPES
$ DISMOUNT/NOUNLOAD MKA400:
$ DISMOUNT/NOUNLOAD MKA600:
$ DEALLOCATE MKA400:
$ DEALLOCATE MKA600:
  DUNSTON      job terminated at 28-JUL-1995 10:52:32.47

  Accounting information:
  Buffered I/O count:          2057        Peak working set size:     2241
  Direct I/O count:           26111        Peak page file size:       5217
  Page faults:                 4156        Mounted volumes:              2
  Charged CPU time:       0 00:02:31.01    Elapsed time:     0 04:10:18.09
```

ASCII LIST OF C032032

FILE 1 RECORD 1 80 BYTES

```
VOL1DE2-UA                                                                3
```

ASCII LIST OF C032032

FILE 1 RECORD 2 80 BYTES

```
HDR1UA_READ_ME_DE.DOC      00010001000100 95200 00000 000000DECFILE11A
```

ASCII LIST OF C032032

FILE 1 RECORD 3 80 BYTES

```
HDR2D0204800078                                  00
```

ASCII LIST OF C032032

FILE 1 RECORD 4 80 BYTES

```
HDR3004A020200000000000100000000000000000000000000000000000000000000
```

ASCII LIST OF C032032

FILE 1 RECORD 5 80 BYTES

```
HDR4                                                          00
```

ASCII LIST OF C032032

FILE 2 RECORD 1 2048 BYTES

```
0056                    DE-2 Unified Abstract data on NDADS0056                                                                  _____________________________________00040076The Dynamics
 Explorer 2 (DE-2) Unified Abstract (UA) ASCII files contain0074data at 16 second time resolution from the following DE-2 experiment
s:0077Neutral Atmospheric Composition Spectrometer (NACS), Wind and Temperature0078Spectrometer (WATS), Fabry-Perot Interferometer (
FPI), Retarding Potential0076Analyzer (RPA), and the Langmuir Probes (LANG).  The DE-2 UA ASCII files0066also contain the DE-2 orbit
 parameters for each data point.   00040074The UA daily files are requested with the DATA_TYPE = UA_ASCII and the0074ENTRY_ID = yydd
d and are then staged/stored as yyddd_UA_DE_16S_V01.ASC0074files; yy is the year and ddd the day of the year.  The date range for006
0the UA files is 81218-83047 with most days represented. 00040072A DOCUMENT request will stage the following documents: a listing of
 0070parameter availability for each day (UA_CATALOG_DE.DOC), a listing0069of all data and documentation files that constitute this
data set0069including the block size of each file (UA_FILES_DE.DOC), and this0029file (UA_READ_ME_DE.DOC).00040074------------------
-------------------------------------------------------0059                    Format of yyddd_UA_DE_16S_V01.ASC Files0074-----------------
-------------------------------------------------------00040075The files are written in ASCII with each record containing the data for
0070one 16 second interval.  Each record contains the following data: 00040061                                                    date                                                    yy
ddd0058                    time                                    ms0039                                    orbit number0058                                    altit
ude                    km0059                                    latitude                                    deg0059                                    longitude
        deg0058                                    local solar time                                    hr0058                                    local magnetic time                                    hr0034
                    L Shell^^^
```

ASCII LIST OF C032032

FILE 11 RECORD 1 36200 BYTES

```
0366 81218  12288000    40  312.88   -5.48  -25.00  1.70  1.68    1.11   18.31  153.16  0.000000E+00  0.000000E+00  0.000000E+00  0.
000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  2.046841E+05  1.091500E+03  0.000000E+00  0.000000E+00  0.000000
E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+000366 81218  22208000    42  86
3.68   69.96  113.57 13.60 13.50    5.48   64.71   55.25  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.00
0000E+00  0.000000E+00  0.000000E+00  2.919200E+05  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+
00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+000366 81218  55664000    47  903.00  -30.53  -26.23 13.60 13.
29    1.52   35.79   52.49  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.0000
00E+00  6.512200E+04  2.872938E+03  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+000366 81218  61216000    48  814.14  -49.07  -49.47 13.60 13.41    1.80   41.85   68.95  0.
000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.101750E+04  3.786939
E+03  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+000366 81218  61616000    48  922.82  -25.98  -51.13 13.60 13.57    1.30   28.66   48.48  0.000000E+00  0.000000E+00  0.00
0000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+
00  0.000000E+00  0.000000E+00  0.000000E+00  2.523000E+03  6.355650E+04 -3.275999E+02 -2.570000E+02  1.596100E+020366 81218  616320
00    48  926.36  -25.06  -51.20 13.60 13.58    1.29   28.29   47.70  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.0000
00E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  3.389400E+03  3.979260E+04 -1.687428E+02  1.126000E+02  7.418141E+010366 81218  61648000    48  929.84  -24.14  -51.
27 13.60 13.59    1.28   27.94   46.93  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000
E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.147000E+03
3.799640E+04 -1.836000E+02 -1.570000E+02  1.296100E+020366 81218  61664000    48  933.26  -23.22  -51.33 13.60 13.59    1.27   27.61
   46.16  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+
00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.114428E+03  4.095386E+04 -1.946000E+02 -1.
824286E+02  1.541100E+020366 81218  61680000    48  936.60  -22.30  -51.40 13.60 13.60    1.30   27.30   45.40  0.000000E+00  0.0000
00E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.134875E+03  4.292063E+04 -1.796000E+02 -1.273750E+02  1.221100E+020366 8
1218  61696000    48  939.86  -21.39  -51.47 13.60 13.60    1.26   27.02   44.64  0.000000E+00  0.000000E+00  0.000000E+00  0.000000
E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  3.198750E+03  4.437613E+04 -2.028500E+02 -1.301250E+02  1.711100E+020366 81218  61712000    48  943.06
-20.49  -51.53 13.60 13.60    1.25   26.76   43.89  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+
00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.
205250E+03  4.505475E+04 -1.876000E+02 -1.436250E+02  1.438600E+020366 81218  61728000    48  946.18  -19.58  -51.60 13.60 13.60
1.25   26.51   43.14  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.089286E+03  4.475543E+04 -2.15
7428E+02 -1.418571E+02  1.353243E+020366 81218  61744000    48  949.23  -18.67  -51.67 13.60 13.60    1.24   26.29   42.40  0.000000
E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.162625E+03  4.665938E+04 -2.033500E+02 -1.743750E+02  1.3986
00E+020366 81218  61760000    48  952.21  -17.77  -51.73 13.60 13.60    1.24   26.09   41.67  0.000000E+00  0.000000E+00  0.000000E+
00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.
000000E+00  0.000000E+00  0.000000E+00  2.927500E+03  4.641650E+04 -1.951000E+02 -2.003750E+02  1.258600E+020366 81218  61776000
48  955.11  -16.86  -51.80 13.60 13.60    1.24   25.91   40.95  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.00
0000E+00  2.996000E+03  4.803775E+04 -2.101000E+02 -2.492500E+02  1.781100E+020366 81218  61792000    48  957.94  -15.95  -51.87 13.
60 13.60    1.23   25.75   40.23  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  2.897000E+03  4.7352
57E+04 -1.951714E+02 -1.635714E+02  1.607528E+020366 81218  61808000    48  960.70  -15.05  -51.93 13.60 13.60    1.23   25.62   39.
52  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.
000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  2.889625E+03  4.847925E+04 -1.911000E+02 -1.952500
E+02  1.658600E+020366 81218  61824000    48  963.38  -14.14  -52.00 13.60 13.60    1.23   25.50   38.82  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.00
0000E+00  0.000000E+00  0.000000E+00  0.000000E+00  2.889250E+03  4.985438E+04 -1.798500E+02 -1.782500E+02  1.648600E+020366 81218
61840000    48  965.99  -13.23  -52.07 13.60 13.60    1.23   25.41   38.13  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.0000
00E+00  0.000000E+00  3.521625E+03  5.848750E+04 -2.093499E+02  3.921250E+02  1.668600E+020366 81218  61856000    48  968.53  -12.33
  -52.13 13.60 13.60    1.22   25.34   37.44  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.
000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  3.086500
```