DE-2

UA & OA (16 SEC). ASC II

81-070B-00J

DE-2

UA & OA (16 SEC), ASC II

81-070B-00J

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 2   RECORD 2   2048 BYTES

```
0059                       invariant latitude          deg0059                        solar zenith angle          deg00601      NA
CS N2       density                         cm-300602      NACS O        density                         cm-300603     NACS HE
 density                         cm-300604       NACS AR           density                         cm-300605      NACS N       density
                      cm-300576       WATS TN              neutral temperature           K00597        WATS NVE       eastward neutral win
   m/s00598       WATS NVU       upward neutral wind          m/s00609      LANG NP           plasma density                cm-30057
     LANG TE            electron temperature          K006411      FPI  FWAV       wavelength                      Angstrom005812      FPI
ALT       tangent altitude                 km005913      FPI  FVN       northward neutral wind        m/s005714      FPI  FTEM      neutra
l temperature           K006415       FPI  RAY       intensity                      Raleighs005716      RPA  TI        ion temperature
             K006017       RPA  NI        total ion density                cm-3005918      RPA  IVE       eastward ion drift           m/s
005919      RPA  IVN       northward ion drift           m/s005920      RPA  IVU       upward ion drift             m/s00040074The nu
mbers in the first column are code numbers for the data found in0077the file UA_CATALOG_DE.DOC, which contains a list of days and ge
ophysical0031data available on that day.^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

ASCII LIST OF C032032

FILE 1655   RECORD 1   36200 BYTES

```
0366 83047  16192000  8536  198.22  -27.85  124.98 12.60 12.75    1.66   39.19   16.78  3.652570E+08  3.678144E+09  3.979402E+06  4.
```

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
```