TBM format

Info on the old Ampex TBM format and converting it to GENPRO

How to extract old TBM file from the tBM envelope

Files are GENPRO-I files, either have a CDC-DPC display code header record with 20-bit binary data packed into 60-bit CDC words followed by data records or an ASCII header and 32-bit binary data. Orig files were not cos-blocked, may be in plib/pstore format which was used in the TBM days.

Note: One can read COS blocked files using bufferin.

1998 Notes:

documentation on the old Ampex TBM format

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Hi Ron,
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The internal format of the TBM tapes themselves should be transparent.. the user bytes read back looked just like what was written. The files that were stored on the TBM tapes, however, might have been COS-blocked format (either "CH" or "BI"), and/or "PLIB" format, or the follow-on to PLIB called "PSTORE" (I think it was). This format is all but lost to antiquity.. unless the Consulting Services Group has any info on PLIB and/or PSTORE.

The COS-blocked files can be un-blocked using the cosconvert software, which is still around (you probably have access to this).

I'll cc CSG on this reply in case they have any info about PLIB/PSTORE. I'm not sure how you could even determine if a file was in this format. It might even be in CDC disply code, rather than ASCII!
---IOhn

In looking at Ron's orig. email again, I don't think there would have been any PLIB or PSTORE files involved. So maybe there's no need to look for documentation about these formats.

The only other thing besides possibly being in COS-blocked format is the thing we did at one time to convert "dedicated tapes" that were on the AMPEX system into MSS files written to to the new (current) MSS. This may be another possibility to look into. I don't remember much about how we did this, but I could try to find out.

-- John

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* John Merrill email: jhm@ucar.edu

* phone: (303)-497-1273
```

John,

We already have the "ncaru" utilities and have used them on our Linux systems for quite awhile.

It certainly is true that all the TBM-format files we have on the MSS were put there with the "dedicated tape" conversion. Their file names have not changed since then, e.g., /RAF/TL0910/G55546. If you can find info on that process, I'd greatly appreciate it.

I remember, just before "shavano" was retired, that I ran a program (TBMconvert?) to translate TBM files to COS-block. I guess this was to make the TBM files easier to handle. If they really are just binary files and byte oriented, then it may not be too hard to translate them.

However, I spendt a lot of time making COS-blocked copies of all the TBM files in the RAF archive. (Originally, hey were written by the CDC7600 with 60-bit word sizes.) I know we used "gbytes" in the Cray days to march down through the files to decode them.

Should I go to the consultants to see what they could find for me?

I thought, since you are more intimately involved with all the mass-store systems we've had here, that you'd be a good starting point for my search. I don't think anyone in that office has been around long enough to remember

any of this.

Ron

```
Ron,
   I took a look at the file /RAF/TL0910/G55546.. the "data format" field
has "C1" (the "DF" field in the msallinfo output). This is the old notation
for COS-blocked, but I'm not sure if it's "character" or "binary" COS-blocked.
It does look like ASCII, thought, with the COS control words interspersed.
Here's a hex dump of the first part of the file.. the first 8 bytes are part
of a COS control word:
 0 0 0 0 0 0 0 64
 20 42 45 47 49 4e 48 44
                            BEGINHD
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 20 20 2f 47 45 4e 50 52
                             /GENPR
 4f 20 4f 55 54 50 55 54
                           O OUTPUT
 20 48 45 41 44 45 52 20
                            HEADER
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 2f 48 44 52 4f 50 54 20
                           /HDROPT
 3d 20 28 48 45 41 44 45
                           = (HEADE
 52 2c 4e 4f 53 50 41 4e
                           R, NOSPAN
 2c 41 53 43 49 49 29 20
                           ,ASCII)
 20 20 2f 48 45 41 44 45
                             /HEADE
 52 20 52 45 43 4f 52 44
                           R RECORD
 20 4f 50 54 49 4f 4e 53
                            OPTIONS
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 2f 48 44 52 4c 4f 47 20
                           /HDRLOG
 3d 20 20 20 31 30 20 20
                               10
 20 20 20 20 20 20 20 20
 20 20 20 20 20 20 20 20
 20 20 2f 4c 4f 47 49 43
                             /LOGIC
 41 4c 20 48 45 41 44 45
                           AL HEADE
 52 20 52 45 43 4f 52 44
                           R RECORD
 53 20 50 45 52 20 50 48
                           S PER PH
 59 53 49 43 41 4c 20 52
                           YSTCAL R
 45 43 4f 52 44 20 20 20
                           ECORD
 2f 48 44 52 53 49 5a 20
                           /HDRSIZ
 3d 20 20 20 20 20 36 34
                                 64
 30 30 20 20 20 20 20 20
 I won't have any time today to work with you on this, or tomorrow either,
since we have an IBM guy here to help us install a new system, and it is
taking all my time. But I can get back to this more next week.
   You can read these files in "transparent" format using msrcp.
I'm not sure how to get
"cosconvert" to work on it, or how you use it exactly. It looks like
this particular file is made up of multiple files internally.
  I'll be more available next week, but I'll try to check my email off
and on today, if I have time.
    - John
```

Hi John and Ron -

The Data Support Section maintains the COS blocking/unblocking software. You can download it from their web page

Also, if there is question as to the format, I remember that DSS has some software to help discover how it was written.

Ron, I know you are familiar with DSS. Their contact email is datahelp@ucar.edu

bu

you may have other avenues.

--Dick

Dick Valent < valent@ucar.edu>

```
John,
You dumped a newer file that was written by a Cray. The files I need to
handle are in CDC display code and have 60-bit word sizes. One group of
examples would be:
          Name
                         Size
 /RAF/TL0152/G51038 000020889600
 /RAF/TL0152/G51042 000031457280
 /RAF/TL0152/G51044 000021258240
 /RAF/TL0152/G51046 000037969920
 /RAF/TL0152/G51048 000028876800
 /RAF/TL0152/G51049 000015114240
 /RAF/TL0152/G51050 000014254080
 /RAF/TL0152/G51051 000007004160
 /RAF/TL0152/G51053 000018800640
 /RAF/TL0152/G51054 000004423680
 /RAF/TL0152/G51055 000027033600
 /RAF/TL0152/G51056 000025313280
 /RAF/TL0152/G51057 000018677760
 /RAF/TL0152/G51058 000025559040
 /RAF/TL0152/G51060 000002088960
They are in TBM format.
I also have an example of one of these files where I ran the TBM-to-COS
conversion on shavano not long before it was retired:
 /RAF/TL0152/G51036 000037478400
                                         <-- TBM
 /RAF/TL0152/G51036C 000037396480
                                         <-- COS-blocked TBM
Do you think I can still retrieve useful data from the above files?
Thanks for any help and info.
Ron
Ron,
   I took a look at the example files (/RAF/TL0152/G51036 and
/RAF/TL0152/G51036C) and dumped out the first part. The only thing I can
tell is that the G51036C one does seem to be in COS-blocked format, but
that's about all I can tell by looking at it. It looks like a mixture of
text and data, but I can't really tell.
                                        I don't see any strings that are
8-bit ASCII bytes.
   Without knowing what utilities you used to do the conversion, I wouldn't
be able to determine if you would still be able to do this today or not.
I vaguely remember the "gbytes" and "sbytes" subroutines, but don't know
what they did exactly, or if they're still around.
  You could probably come up with a CDC Dispay code to ASCII converter,
but I'm not sure this is all you need.
  Might be a good project for a summer student assistant to work on..
  -- John
John.
```

I absolutely know that the files were written with a CDC display code header record (or records) followed by binary data (60-bit words with program output packing 3 values at 20 bits each). I do have routines for CDC display code --> ASCII and gbytes which will march down the bits and unpack all the data. From talks a long time ago with Dennis

Joseph, I understand that the MSS reads the data as bytes totally ignoring the 60-bit word size (why gbytes is needed).

To unpack the straight TBM format, I need to find out how they write tape images (things like inter-record gaps and eofs). That will go a long way to being able to unpack the data. That was my original reason to COS-block those files; those delimiters would be in place.

You are right that it would be a good student project.

Thanks for looking into this.

P.S. I'm into my last two weeks before retirement.

Ron

To: datahelp@ucar.edu

EOL/RAF has many data sets on the Mass Store in the old TBM format. These data were written in the 70s and early 80s by our GENPRO processor. It ran on the Control Data machines, so the output format was a magnetic-tape image with a header record (or records) in CDC display code followed by integer binary data records corresponding to the header. In those days to conserve space, the data values were written as integers which were first rounded, scaled and truncated to 20-bit positive integers, packed 3 per 60-bit CDC word.

I have routines to translate CDC display code to ASCII and a version of gbytes which, I hope, will work to unpack the data. I'm actually looking for a treatise on the old TBM format that can be used to write a program to read the old TBM files that would separate the records and files within a MSS bitfile. That done, I can convert the header to ASCII and unpack then unscale the data. Have you any old software or documentation that would help me? Thanks.

spangler@ucar.edu

Will Spangler wrote:

Ron,

Can you give me a mss file to peruse, so I can

determine what you have and how to recover it.

Will

Will,

Sure. Here is one group of files. The first one has a COS-block companion (ends with C) while the others are all just TBM written to the MSS when the TBM was retired.

Name Size

/RAF/TL0152/G51036 000037478400

<-- TBM

/RAF/TL0152/G51036C 000037396480

<-- COS-blocked TBM

/RAF/TL0152/G51038 000020889600

/RAF/TL0152/G51042 000031457280

/RAF/TL0152/G51044 000021258240

/RAF/TL0152/G51046 000037969920

/RAF/TL0152/G51048 000028876800

/RAF/TL0152/G51049 000015114240

/RAF/TL0152/G51050 000014254080

/RAF/TL0152/G51051 000007004160

/RAF/TL0152/G51053 000018800640

/RAF/TL0152/G51054 000004423680

/RAF/TL0152/G51055 000027033600

/RAF/TL0152/G51056 000025313280

/RAF/TL0152/G51057 000018677760

/RAF/TL0152/G51058 000025559040

/RAF/TL0152/G51060 000002088960

I've attached a header dump for G51036.

Thanks for looking into this, Will!

Ron

John

Do you have any documentation on the old TBM record structure? I believe it was similar to COS-blocking and the one time utility to convert from TBM to COS-blocking was TBMCONV. The actual data record structure which Ron Ruth indicates below is straight forward, but the unknown is how the TBM blocked these records for recording. Thanks, Will

Hi Will,

I've been emailing Ron Ruth back and forth about this, and I still don't get what Ron needs, or is asking for. The AMPEX TBM tapes just stored raw bits, with no knowledge of the internal format of the data. The data was stored in 1 Megabit blocks on tape, but that had nothing to do with the internal structure of the file being written (if there was any internal structure).

I vaguely remember "TBMCONV", but I don't know what it did, exactly. Must have been something like "cosconvert". But in either case (as with PLIB and PSTORE), any formatting of data was done before it was written to the MSS, and could be "undone" after reading the file back from the MSS by using the appropriate utilities. But the data on the MSS has always been an uninterpreted string of bits, no matter what type of media it was on. If you could still read a file from an old TBM tape, you'd get the exact same string of bits that you'd get by reading the copy of it that now resides on our current tape media. When we moved the remaning file off of the AMPEX, we just copied the files bit-for-bit with no conversion of any

The "data format" field in the msallinfo output is really kind of misleading. A lot of older files have DF=C1 (for Cray-1, I think it was). This format should be able to be "undone" using cosconvert, but I don't know for sure. And whether the text parts of a file are in ASCII or CDC "display code" or 60-bit words packed into 64 bit words, etc., can't be determined by the MSS software or the MFD (Master File Directory). You either have to

read the file in "transparent" mode, and dump it out, or have some knowledge as to how the data was written initially, and what internal formatting it may have had.

Sorry I can't give you any more information about this. Let me know if any of the above was unclear, or if I'm missing the point of Ron's question. -- John

To all,

In some respects I, too, don't really know what I'm asking for. Before the TBM, RAF obviously wrote data to magnetic tape which had inter-record gaps and file marks. After this first mass-storage system was put in place RAF wrote output files to it. Then, when users asked for copies of data, we would send a request for the TBM (or MSS) to write the data files to tape. I recall not having to specify anything; the records and files would copy to the tapes. I was under the (perhaps mistaken) impression that TBM and COS-blocked tape images had codes embedded in the files to indicate those boundaries and the I/O software would translate them into records and file marks.

As an added tidbit, I doubt that any of our data files were written in the PSTORE or PLIB format. I don't recall that even being available when the TBM was active.

In the past I have been able to handle COS-blocked files, and I used the "TBMCONV" program (tbmconvert.exe on shavano back in 1995), attributed to Jay Chalmers, to make COS-blocked copies of the TBM files that were not COS-blocked. I resurrected some email messages from 1997 that pointed out a couple of errors from a few TBM files that failed to convert:

" tce28 - label buffer table error

tce08 - record control word from tbm volume is in error

The first error most invariably comes from a file that is not in TBM format, and I have verified that in most cases when I have gotten this error, the file already was COS-blocked. In this case tbmconv.exe produces NO output file. The second error seems to indicate a corrupted TBM format bitfile. A partial conversion occurs, and a new output file is written. When retrieved, it is COS-blocked but much shorter than the original."

If the TBM (or COS-block) format had a bit/byte count indicating record length, that could easily translate to tape records. (An email from John in 1997 seemed to indicate that the TBM format had to sync to each record, and if an error occurred, there was no way to recover any data afterwards.) Otherwise, I have no idea how those output tapes would have been written

correctly.

So that's why I was asking about the TBM format. We just had a recent purge where about 500 of the COS-blocked copies I made of TBM files were deleted, and I wanted to make sure I could still read/translate the original TBM-format versions.

I actually thought you'd have some old written manuals or documentation on a dusty shelf somewhere that would have detailed descriptions of the formats and how they were represented.

Thanks again for helping.

Ron

1997 Notes:

Email to John Merrill:

For the past couple weeks I have been converting a bunch of old MSS bitfiles from TBM format to COS-blocked using the Cray Y-MP (shavano) and a program that Jay Chalmers apparently wrote (tbmconv.exe). I want to finish this entire conversion project before "shavano" goes away, because `tbmconv.exe has some CAL routines that only work with a Y-MP or earlier class machine. I picked up the executable version of the program via anonymous ftp from the SCD/DSS conversion library. It is dated Sun Dec 18 00:00:00 1994 which brings up the obvious question: Is it possible that changes to UNICOS and other libraries on "shavano" could have made `tbmconv.exe' more prone to erroneous conversion on its own (rather than from a corrupted input file)? For the most part these conversions have gone very well. The program reports the number of files converted for each bitfile unless some kind of error occurs. The program has never core dumped, only quitting with one of the following two messages:

tce28 - label buffer table error tce08 - record control word from tbm volume is in error The first error most invariably comes from a file that is not in TBM format, and I have verified that in most cases when I have gotten this error, the file already was COS-blocked. In this case tbmconv.exe produces NO output file.

The second error seems to indicate a corrupted TBM format bitfile. A partial conversion occurs, and a new output file is written. When retrieved, it is COS-blocked but much shorter than the original.

Knowing TBM format (as you do), is a file non-convertable if a "tce08" error occurs, or is it possible to recover from it and somehow convert all the data possible from such a file? To be honest, I only got this error from 7 out of over 1,000 bitfiles, but I thought you may be willing to look at one (or more) of them to see what you think.

/RAF/TL0372/G51008 /RAF/TL0372/G51014 /RAF/TL0372/G51014 /RAF/TL0519/G51500 /RAF/TL0519/G51502 /RAF/TL0519/G51507 /RAF/TL0152/ONE192

Ron

I looked at tbmconv.exe a little bit. I found out it runs on Echo (a Cray EL) as well as shavano. It also runs on Aztec (a Cray J90). I looked at one of the files that is getting the tce08 - record control word error. What is the output file supposed to look like? I tried doing a tbmconv on one of the files that is not messed up. It still came back with the error sys-9 tbmconv: FATAL error in termination even tho it says it converted 2 files. If I use the "cosfile" command on the resulting output file it says Error on record 11584. Dataset probably not COS-blocked. Is this normal? It doesn't seem right.

If you can give me an example of a file that converts successfully, it would

```
help. Maybe the one I picked has a problem.
  I also have a call in to Dennis Joseph. I'm waiting to hear from him.
I'll let you know if I make any more headway.
  John M.
Thou spake thusly:
       > Hi Ron,
             Sorry it took me so long to get back to you on this problem..
       > I looked at tbmconv.exe a little bit. I found out it runs on Echo (a Cray EL)
       > as well as shavano. It also runs on Aztec (a Cray J90). I looked at one of
       > the files that is getting the tce08 - record control word error.
That's good news. Perhaps my panic was unwarranted, thinking it would only
run on shavano which will go away soon.
             What is the output file supposed to look like? I tried doing a tbmconv on
       > one of the files that is not messed up. It still came back with the error
                                sys-9 tbmconv: FATAL error in termination
       > even tho it says it converted 2 files.
The file should be a COS-blocked CDC-7600 pair of files. The first one is
a one-record header file in CDC display code. The second file should be
a binary file with 60-bit integers. These integers actually are comprised
of 3 20-bit packed unsigned itegers. The header file describes the format
of the data file that follows it including the size of each data record.
(The data records are all the same size.)
I have gotten some kind of termination error message when successfully
converting other MSS bitfiles. When we created them, we routinely put
a double EOF at the end of the data file. It may be that tbmconv doesn't
like that.
       > If I use the "cosfile" command on the
       > resulting output file it says
             Error on record 11584. Dataset probably not COS-blocked.
       > Is this normal? It doesn't seem right.
That is not a normal respons unless it is beyond the EOD. I suppose it is
possible that the file was corrupt before it was transferred from the TBM
            If you can give me an example of a file that converts successfully, it would
       > help. Maybe the one I picked has a problem.
All the files whose names I sent you have a problem. A number of them with
similar numbers apparently converted successfully. Since I've done over 1,000 of them, I have not checked very many, perhaps 25. These all looked fine.
Examples of "good" file conversions (whose numbers are close to the failed
ones) are:
    /RAF/TL0372/G51008 Bitfile before conversion
    /RAF/TL0372/G51008C Bitfile after conversion (verified by dumping header)
    /RAF/TL0372/G51015 Bitfile before conversion
    /RAF/TL0372/G51015C Bitfile after conversion (not checked)
    /RAF/TL0152/G51116
                                    (failed to convert but I forgot to put it on your list)
    /RAF/TL0152/G51117 Bitfile before conversion
    /RAF/TL0152/G51117C Bitfile after conversion (not checked)
/RAF/TL0519/G51501 Bitfile before conversion
    /RAF/TL0519/G51501C Bitfile after conversion (not checked)
    /RAF/TL0152/ONE191 Bitfile before conversion
    /RAF/TL0152/ONE191C Bitfile after conversion (not checked)
              I also have a call in to Dennis Joseph. I'm waiting to hear from him.
       > I'll let you know if I make any more headway.
I'm not sure how much he really knows about the program either, but he may
have had much more experience with it than I.
Thanks for all your work on this. Obviously if only 8 of 1,070 files fail
to convert, I am still quite satisfied with my conversion project, because
these files that have a problem are very old--vintage 1978 and 1982.
In a separate email, I'll send you the header dump from /RAF/TL0372/G51008C.
It was read by a dump program I have, and it has been converted from CDC
display code to ASCII and formatted into normal-sized records. I hope it
helps.
-- Ron Ruth RAF Data Manager NCAR/ATD/RDP&RAF Voice: (303)497-1084 <a href="mailto:son@raf.atd.ucar.edu"><a href="mailto:son@raf.edu"><a href="mailto:son@raf.atd.ucar.edu"><a href="mailto:son@raf.edu"><a href="mailto:son@r
Here is the header I promised you -- between the =-=-== lines. The dump
program that created this added the carriage control characters in line one
and spaced it in by two characters. It also added the little heading on top.
```

and the final line at the bottom. On the line that begins with "13]" is some kind of error (non fatal), and this type of problem appears somewhere in the header of virtually EVERY converted file. Whatever causes this glitch may also corrupt the real data later on, but I don't know what causes it. In this case the corrupt line

13) 20 RAW INS GROUND SPD X COMPONENT (M/S) XVI M/S = (N/ 1000.0) - 500.0 Good luck, and thanks again.

RAF GENPRO tape dump for /RAF/TL0372/G51008C revision RLR -- 961008

without an error should be:

1

601-2 M.E.T. 08AUG78 06/14/05 FIRST TIME ON THIS FILE 6 14 7 THIS FILE I S ALL OR PART OF TIME PERIOD 6 14 5 TO 9 40 0 DESCRIPTION OF RECORD -- 68 PARAMETERS WERE SAVE D AT THEIR RESPECTIVE RATES. THIS REPRESENTS 1208 SAMPLES/PROGRAM CYCLE WHERE A CYCLE IS 1.000 SEC THE 1 CYCLES OF1208 SAMP/CYC = 1208 WERE THEN SCALED INTO 20 BIT INTEGERS AND PACKED 3 SAMPLES/WORD D INTO 403 60 BIT PACKED WORDS --METHOD OF SCALING-- A BIAS AD(I) WAS ADDED TO EACH SAMPLE OF EACH PARAMETER TO ELIMINATE ANY NEGATIVE VALUES. THE BIASED SAMPLE WAS THEN MULTIPLIED BY P(I) TO INSURE THE PROPER NUMBER OF DECIMAL PLACES WERE SAVED. THE PACKED RECORD MAY BE UNPACKED BY RIGH T JUSTIFYING 20 BITS AT A TIME AND REVERSING THE ABOVE SCALING PROCESS. AS EXAMPLE, S(I)=N/P(I)-AD(I), WHERE N IS THE 20 BIT SCALED INTEGER, S(I) THE DESIRED UNSCALED PARAMETER, AD(I),P(I) THE CORRESP ONDING SCALE FACTORS THE ORDER, RATE, PLOT TITLE, PRINT LAB, UNITS, AD AND P SCALE FACTORS OF EACH PARAMETER FOLLOW

```
PROCESSOR TIME (SECONDS) AFTER MIDNIGHT
                                                                       = (N/
                                                                       = (N/ 1.0) -
= (N/ 1.0) -
           UNALTERED TAPE TIME (SEC) AFTER MIDNIGHT TPTIME
           LTN-51 ARINC TIME LAG (SEC)
                                                    TMLAG
                                                             SEC
                                                                       = (N/1000.0) -
                                                                                      100.0
 3)
                                                                             1.0) -
             EVENT MARKER 16 BIT WORD
                                                   EVMRKS
                                                             COUNTS
                                                                       = (N/
                                                                                        0.0
 4)
                                                             COUNTS
                                                                      = (N/1000.0) - 100.0
           MAIN CONSOLE SPECIAL EVENTS
                                                   EVMAIN
 5)
     1
                                                                      = (N/ 1000.0) -
 6)
     1
           EVENT MARKS REMOTE (COUNTS)
                                                   EVRMT
                                                             COUNTS
                                                                                       100.0
                                                                      = (N/ 1000.0) - 100.0
                                                      XMIT VDC
 7)
           PILOT MICROPHONE SWITCH (XMIT) (VDC)
     1
                                                     FZV
           FIXED ZERO VOLTAGE (VDC)
                                                                      = (N/1000.0) -
 8)
                                                                                       100.0
           RAW INS LATITUDE (DEG)
                                                   ALAT
                                                             DEG
                                                                      = (N/1000.0) - 100.0
10)
    20
           RAW INS LONGITUDE (DEG)
                                                   ALONG
                                                             DEG
                                                                       = (N/1000.0) -
                                                                                       200.0
                                                                      = (N/1000.0) - 100.0
           AIRCRAFT TRUE HEADING (ARINC) (DEG)
    20
                                                   THI
                                                             DEG
11)
           INS WANDER ANGLE (DEG)
                                                   ALPHA
                                                                       = (N/1000.0) - 100.0
    20
                                                             DEG
12)
                                                             = (N/1000.0) - 500.0
13)
    20
                             ENT (M/S)
                                                    M/S
                                                             M/S
           RAW INS GROUND SPD Y COMPONENT (M/S)
                                                   YVI
                                                                      = (N/1000.0) -
                                                                                       500.0
14)
    2.0
                                                                      = (N/1000.0) - 100.0
           RAW INS GROUND SPEED (M/S)
                                                             M/S
15)
    2.0
                                                    GSF
           AIRCRAFT PITCH ATTITUDE ANGLE (DEG)
                                                             DEG
                                                                      = (N/1000.0) - 100.0
16)
    2.0
                                                   PTTCH
17)
           AIRCRAFT COARSE ROLL ANGLE (DEG)
                                                   CROLL
                                                             DEG
                                                                      = (N/1000.0) - 100.0
    20
                                                            DEG
DEG
M/S
MB
MB
           AIRCRAFT ROLL ATTITUDE ANGLE (DEG)
                                                                       = (N/1000.0) -
                                                   ROLL
           AIRCRAFT TRUE HEADING (YAW) (DEG)
19)
    20
                                                    THF
                                                                      = (N/1000.0) -
                                                   VZI
20)
    2.0
           RAW INS VERTICAL VELOCITY (M/S)
                                                                      = (N/1000.0) -
           RAW DYNAMIC PRESSURE (WING) (MB)
                                                     QCW
                                                                      = (N/1000.0) -
    20
                                                                                       100.0
21)
           RAW DYNAMIC PRESSURE (GUST PROBE) (MB)
                                                                      = (N/1000.0) - 100.0
                                                     OCG
221
    2.0
                                                             MB
MB
           CORRECTED DYNAMIC PRESR (WING) (MB)
                                                     OCWC
                                                                      = (N/1000.0) - 100.0
23)
    2.0
                                                                      = (N/1000.0) -
24)
    2.0
           CORRCTD DYNAMIC PRESR (GUST PROBE) (MB)
                                                     OCGC
                                                                                       100.0
25)
           RAW STATIC PRESSURE (FUSELAGE) (MB)
                                                      PSF
                                                               MB
                                                                       = (N/ 1000.0) -
    20
                                                                                         0.0
           RAW STATIC PRESSURE (BOOM) (MB)
                                                     PSB
                                                               MB
                                                                      = (N/1000.0) -
26)
    20
                                                                                         0.0
                                                                       = (N/1000.0)
           CORRECTED STATIC PRESR (FUSELAGE) (MB)
27)
                                                     PSFC
                                                               MB
    2.0
           CORRECTED STATIC PRESSURE (BOOM) (MB)
                                                   PSBC
                                                             MB
                                                                       = (N/1000.0) -
                                                                                         0.0
28)
                                                                       = (N/10.0) -
           NACA PRESSURE ALTITUDE (M)
29)
    20
                                                   HP
                                                             М
                                                                                       500.0
                                                                      = (N/1000.0) - 100.0
    2.0
           GEOMETRIC (RADIO) ALTITUDE (M)
                                                     HGM
                                                               М
301
                                                                      = (N/1000.0) - 100.0
           TOTAL TEMPERATURE (WING ROSEMOUNT) (C)
                                                               C
31)
    2.0
                                                      TTW
                                                                С
                                                                       = (N/1000.0) - 100.0
32)
    2.0
           TOTAL TEMPERATURE (REVERSE FLOW) (C)
                                                     TTRF
                                                                      = (N/1000.0) - 100.0
= (N/1000.0) - 100.0
                                                               С
           TOTAL TEMPERATURE (FAST RESPONSE) (C)
                                                   TTKP
33)
    20
                                                             C
C
           AMBIENT TEMPERATURE (ROSEMOUNT) (C)
                                                   ATW
34)
    20
35)
    20
           AMBIENT TEMPERATURE (REVERSE-FLOW) (C)
                                                   ATRF
                                                                       = (N/1000.0) -
36)
           AMBIENT TEMPERATURE (FAST RESPONSE) (C)
                                                   ATKP
                                                                       = (N/1000.0) - 100.0
                                                   DP
DPC
    20
           DEW/FROSTPOINT TEMP (THERMOELEC) (C)
                                                              C = (N/1000.0) - 100.0
G/M3 = (N/1000.0) - 100.0
                                                              DEG C = (N/1000.0) -
                                                                                       100.0
37)
           DEWPOINT TEMPERATURE (THERMOELEC) (C)
38)
    20
           ABSOLUTE HUMIDITY (THERMOELEC) (G/M3)
                                                   RHOTD
39)
    20
                                                                      = (N/ 1000.0) -
40)
    20
           REFRACTIVE INDEX (N-UNITS)
                                                    RFI
                                                              VOLTS
                                                                                       100.0
                                                                       = (N/1000.0) - 100.0
41)
    20
           ABSOLUTE HUMIDITY (REFRACT) (G/M3)
                                                   RHORF
                                                              G/M3
                                                              M/S
                                                                      = (N/1000.0) -
           AIRCRAFT TRUE AIRSPEED (WING) (M/S)
                                                    TASW
                                                                                       100.0
42)
    20
                                                               M/S
                                                                       = (N/1000.0) - 100.0
           AIRCRAFT TRUE AIRSPEED (GUST) (M/S)
43)
                                                      TASG
44)
           RAW J-W LIQUID WATER CONTENT (G/M3)
                                                     LWC
                                                               G/M3
                                                                      = (N/1000.0) -
                                                               G/M3
                                                                       = (N/1000.0) - 100.0
45)
    20
           CORRCTD J-W LIQUID WATER CONTENT (G/M3)
                                                    LWCC
    20
           ATTACK ANGLE (FIXED VANE) (DEG)
                                                   AFIX
                                                             DEG
                                                                       = (N/1000.0) - 100.0
46)
           ATTACK ANGLE (ROTATING VANE) (DEG)
                                                             DEG
                                                                       = (N/1000.0) - 100.0
47)
    20
                                                    AROT
                                                             DEG
                                                                       = (N/1000.0) - 100.0
48)
    20
           SIDESLIP ANGLE (FIXED VANE) (DEG)
                                                   BFIX
                                                                       = (N/1000.0) -
49)
    20
           SIDESLIP ANGLE (ROTATING VANE) (DEG)
                                                    BROT
                                                             DEG
                                                                                       100.0
                                                             M/S2
                                                                       = (N/1000.0) - 100.0
50)
    20
           GUST PROBE TIP VERT ACCEL (M/S2)
                                                   VAC
           GUST PROBE TIP LATERAL ACCEL (M/S2)
                                                                       = (N/1000.0) -
51)
    20
                                                   LAC
                                                             M/S2
                                                                                       100.0
                                                                       = (N/1000.0) -
52)
           WIND VECTOR EAST GUST COMPONENT (M/S)
                                                   IJΙ
                                                             M/S
    20
           WIND VECTOR NORTH GUST COMPONENT (M/S)
                                                   VI
                                                             M/S
                                                                       = (N/1000.0) -
                                                                                       200.0
53)
                                                                       = (N/1000.0) -
54)
    20
           WIND VECTOR VERTICAL GUST COMP (H) (M/S) WI
                                                             M/S
                                                                       = (N/1000.0)'
           WIND VECTOR LNGTDNL GUST COMPONENT (M/S) UX
                                                             M/S
55)
    20
                                                                                       200.0
           WIND VECTOR LATERAL GUST COMPONENT (M/S) VY
                                                             M/S
                                                                       = (N/1000.0) -
                                                                                       200.0
56)
    20
           HORIZONTAL WIND DIRECTION (DEG)
                                                             DEG
                                                      WDRCTN
                                                                       = (N/1000.0) - 100.0
57)
    2.0
                                                                       = (N/1000.0) - 200.0
58)
    20
           HORIZONTAL WIND SPEED (M/S)
                                                      WSPD
                                                               M/S
                                                    VEW
                                                             M/S
59)
           RAW INS GROUND SPD EAST COMP (M/S)
                                                                       = (N/1000.0) -
                                                                                       500.0
    20
60)
    20
           RAW INS GROUND SPD NORTH COMP (M/S)
                                                   VNS
                                                             M/S
                                                                       = (N/1000.0) -
                                                                                       500.0
                                                             KM
           DISTANCE EAST OF START (KM)
61) 20
                                                     DEI
                                                                       = (N/100.0) - 1000.0
                                                             KM
M/S2
                                                                      = (N/1000.0) - 100.0
62)
    20
           DISTANCE NORTH OF START (KM)
                                                     DNI
           AIRCRAFT C.G. ACCELERATION (M/S2)
                                                   CGAC
                                                                       = (N/1000.0) -
    20
                                                                                       100.0
63)
                                                             M/S
M
                                                                      = (N/1000.0) - 100.0
           DAMPED AIRCRAFT VERT VELOCITY (M/S)
                                                     WP3
    20
64)
           PRESSURE-DAMPED INERTIAL ALTITUDE (M)
                                                                       = (N/ 10.0) -
65)
    2.0
                                                      HT3
                                                                                       500.0
66)
    20
           SECONDARY BOOM PITOT PRESSURE (MB)
                                                     OCB
                                                              MB
                                                                       = (N/1000.0) - 100.0
```

```
67) 20
68) 20
             DASIBI OZONE (VDC)
                                                     DASIBI
                                                               VDC
                                                                      = (N/1000.0) - 100.0
             CCN (MEE) (VDC)
                                                                      = (N/1000.0) - 100.0
                                                      CCN
                                                               VDC
          1 PHYSICAL RECORDS IN THE HEADER FILE
THERE ARE
_______
Ron
Ron,
I tried recompiling tbmconv on shavano (Unicos 8.0) and Aztec (Unicos 9.0)
from the tar file of the source that Dennis Joseph had. It compiled and
linked OK (using /usr/local/lib/libncaro.a), but when I try to use the
binary, I get this error:
tce13 - unknown record mode - cannot perform conversion
and no output file is produced. So DON'T LOSE the binary file tbmconv.exe.
It can't be regenerated. It runs on Shavano, and also Aztec.
 As far as the 7 or 8 bad files -- there is no way to get past the bad
part of the file and continue conversion. Once it gets the tce08 error
(bad record control word), there's no hope of getting back in sync.
The best you can do is get the file or files at the beginning of the dataset,
and convert those.
 You probably already know about using cossplit to break out the files
that are good. Here's a procedure I used on a couple of the bad files to
recover what I could:
```

- 1. tbmconv.exe -1 -d rawfile conv01
- 2. cossplit -p split conv01
- 3. This should produce one or more files called split.f001, split.f002, etc. that should be normal COS-blocked files. Use "cosfile" to check if thev are really OK.
- 4. You can then use "cosconvert" to convert the split.. files possibly. You may already have done all this, but if not, give it a try. Beyond that, there is really nothing I can do to help you get the remainder of the data in the bad files. It would be a good "rainy day" project for a student assistant to try dumping the raw files, following the pointers, etc, but would be very time consuming. There is an NCAR publication "The NCAR Terabit Memory System" that shows the format of the label buffer, file control pointer, etc. Digging through the file would be complicated by the fact that there's a conversion from 60 bit words to 64 bit words involved.

Sorry I can't provide any more help with this. John M.

John,

Again, thanks for all your work. I have not tried "cossplit" or "cosconvert" after doing the conversion. If the conversion was successful and "tbmconv' didn't provide an error, I just wrote the resulting converted file back to the MSS as tbmconv created it. Also I didn't use the two options you chose (-1 -d) and just ran it straight without options. Is there any reason to add those?

I have the executable version of the code residing in my home directory on shavano. I guess it would be a good idea to archive it to the MSS so I won't lose it through some disk crash. SCD/DSS also has the executable version at their ftp site:

tp://ncardata.ucar.edu/libraries/tbmconvert/tbmconv.exe
What does "cosconvert" do besides check the files to see if they really are COS-blocked? I don't need or want to convert them to any other format. (What I'm really asking is why should I want to use "cosconvert?" Is it just a way of viewing the files after splitting?)

It just lists the names of the files it is converting, as it encounters them. (-1 option). The -d (debug) option causes it to print the number and size of the records in each file.

"cosconvert" removes the COS-blocking of a file. I guess you don't really want to do this in your case. cosconvert strips off the COS-blocking envelope and leaves either a pure binary file, or pure character file. I don't know what it does with 7600 Display Code data. There's a man page for cosconvert on shavano..

cosfile just looks at a file and tries to determine if it is COS blocked. John M.

1995 Notes:

WWW - http://www.ucar.edu/dss

1995 from Dennis Joseph, x1216, joseph@ncar: tbmconvert.exe G51508 G51508C (executed on shavano) code from our ftp area under "libraries/tbmconvert". DSS anonymous ftp information area - ncardata.ucar.edu (128.117.8.111)

Contacts that new about this in the past: Ken Hansen, Gene Harano Dennis Joseph email - <u>joseph@ncar.ucar.edu</u> Data Support Section voice - (303)-497-1216 NCAR/SCD fax - (303)-497-1298PO Box 3000 Boulder, CO 80307

```
Dennis,
I studied the "t.f" FORTRAN code that I grabbed from the SCD ftp site (which
is supposed to be the source for "tbmconv.exe") and found some BUFFER IN and
BUFFER OUT statements which could possibly point to units 5 and 6, but I get
the impression that they would only be internal assignments. I didn't see
where the command line arguments were read and decoded for use by the program,
since that is the method of specifying the input and output file names.
I suppose UNICOS may not release a unit number after the program ends.
Ron
Ken,
Here is the information you wanted.
   The MSS bitfile is the one that `tbmconv.exe' converted to COS-block
before failing to dump. We could have as many as 3600 of these TBM-formatted
bitfiles. It is important for us to be able to access any of these (in
COS-blocked form) in the future.
   The shavano job script shows the sequence of events. I obviously convert
the selected bitfile to a COS-blocked file before calling upon the tdump.exe'
program to execute. `tdump.exe' redirects both standard input and standard
output, and it gave me no trouble until I added the commands associated
with the `tbmconv.exe' program.
  The example output at the end is vintage July 1996, but it is a relatively
short example of the kind of output produced by the `tdump.exe' program when
it works correctly.
  Would it be reasonable to just reload the tbmconv.exe program using the
current version of the operating system and libraries?
=_=_=_=
                           TBM-coded MSS bitfile
                             /RAF/TL0519/G51482
=_=_=_=
                           shavano job script
                                                    =-=-=-=-=-=-=
# OSUB -eo
# q-class (premium-prem, regular-reg, economy-econ)
# QSUB -q prem
# To use c-shell
# QSUB -s /bin/csh
# To set time limit
# QSUB -1t 600
# QSUB -1T 600
set timestamp
set echo
# Change to the temporary directory
cd ${TMPDIR}
# Start up the job accounting process
ja jacct
# Set needed script variables here
set USER = ron
set HOST = chinook
set DOMAIN = atd.ucar.edu
set SOURCE = /home/local/genpro/Cray/tdump
           ----- Begin change area ------
#
# Warning: dump program's data file and output file are in following directory
set USERDIR = /home/local/genpro/Cray/tdump
set PRGDATA = tdumpRF01.638
set OUTPUT = tdoutRF01.638
set VOLUME = /RAF/TL0519/G51482
# Is the bitfile COS blocked ?
set COSBLOCK = no
#set COSBLOCK = yes
#----- End change area -----
# Acquire the executable program
echo "RAF GENPRO tape dump for $VOLUME" >! tdout
echo " revision RLR -- 961008" >> tdout
cp ~ruth/tdump.exe .
set result = $status
if ($result != 0) then
  echo Could not retrieve tdump.exe from shavano >> tdout
  No executable on Cray, so try to get executable from MSS, if possible
  msread tdump.exe /RAF/TDUMP/TDUMP.EXE.R6
  set result = $status
  if ($result != 0) then
    echo Could not retrieve tdump.exe from MSS >> tdout
  No executable on MSS, so try to get executable from $HOST, if possible
   rcp $USER@$HOST.$DOMAIN":"$SOURCE/tdump.exe tdump.exe
    set result = $status
    if ($result != 0) then
     echo
           Error $result acquiring tdump.exe from $HOST >> tdout
     goto done
    endif
  endif
endif
```

```
rcp $USER@$HOST.$DOMAIN": "$USERDIR/$PRGDATA tdump.dat
set result = $status
if ($result != 0) then
  echo "Error $result trying to acquire $PRGDATA from $HOST"
endif
# Get MSS volume
msread gdata $VOLUME
set result = $status
if ($result != 0) then
  echo "Error $result trying to acquire $VOLUME from MSS"
endif
  Convert to COS-blocked file, if necessary
if ($COSBLOCK == "no") then
   ~ruth/tbmconv.exe gdata gdatac
  Assign unit to input volume
  assign -a gdatac fort.9
  assign -a gdata fort.9
endif
  This didn't work either, after the first failure
#assign -a tdump.dat fort.5
# Run it
tdump.exe < tdump.dat >> tdout
set result = $status
done:
# Send output back
rcp tdout $USER@$HOST.$DOMAIN": "$USERDIR/$OUTPUT
if ($status != 0) then
  netng FLNM=tdout DF=bi flnm=$OUTPUT
endif
ls -1
# Done
ia -clfst jacct
                           example `tdout' file
=_=_=_=
RAF GENPRO tape dump for /RAF/1992/225/HRT/RF07
  revision RLR -- 940311
                                  /GENPRO OUTPUT HEADER
  BEGINHD
  /HDROPT = (HEADER, NOSPAN, ASCII) /HEADER RECORD OPTIONS
  /HDRLOG = 10
                                  /LOGICAL HEADER RECORDS PER PHYSICAL RECORD
              6400
  /HDRSIZ =
                                  /PHYSICAL HEADER RECORD SIZE (BITS)
  /PROJECT= "2-225-RF07 FIRE2-Cirrus KingAir 26NOV91
  /PROJECT DATE
                                  /PROJECT TIME
                      , 7.0000
                                   , 1.0000
  /BEGSNP = ( 18.000 
  /ENDSNP = ( 21.000 /COMMENT= "
                          28.000
                                      7.0000
                        NCAR RAF MAGNETIC TAPE FORMATS
            " THE CALIBRATED MAGNETIC TAPES ARE PRODUCED BY THE NCAR RAF DATA
              MANAGEMENT GROUP, WITH THE GENPRO-II DATA PROCESSING SOFTWARE.
              THE FORMAT OF THESE TAPES INCLUDES A HEADER FILE AND A DATA FILE
              WHICH CORRESPONDS TO ALL OR PART OF A PARTICULAR AIRCRAFT FLIGHT
              - HEADER FILE DESCRIPTION
              THE HEADER FILE DESCRIBING THE DATA FORMATS IS IN ASCII
              CHARACTER FORMAT, 80 CHARACTERS TO A LOGICAL RECORD AND 10
              LOGICAL RECORDS TO A PHYSICAL RECORD.
              THE HEADER FILE IS DIVIDED INTO THE FOLLOWING FIVE SECTIONS:
              1. THE GENERAL INFORMATION SECTION CONSISTS OF THREE PARTS:
                 A) THE TITLE LINE IS (BEGINHD). THIS PART CONTAINS THE
                    INFORMATION PERTAINING TO HEADER FILE: HEADER RECORD OP-
                    TIONS(HDRDPT), LOGICAL HEADER RECORDS PER PHYSICAL RECORD
                    (HDRLOG), PHYSICAL HEADER RECORD SIZE IN BITS(HDRSIZ),
                    RESEARCH FLIGHT PROJECT TITLE (PROJECT), RESEARCH FLIGHT
                    DATE(PRDATE), RESEARCH FLIGHT TIME(PRTIME), BEGINNING TIME
                    (BEGSNP), AND ENDING TIME(ENDSNP).
                  B) THE TITLE LINE IS (COMMENT= NCAR RAF MAGNETIC TAPE
                     FORMATS). THIS PART DESCRIBES THE DATA FORMAT OF
                     GENPRO-II GENERATED DATA SETS.
                  C) THIS PART CONTAINS INFORMATION PERTAINING TO DATA SET
                     GENERATION AND THE DATA FILE: PRODUCTION JOB EXECUTION
                     DATE(EXDATE), EXECUTION TIME(EXTIME), COMPUTER USED FOR
                     THE JOB(MACHINE), JOB IDENTIFICATION(JOBID), MEDIA NUMBER "
                     (MEDIA), DATA RECORD OPTIONS(DATOPT), BITS PER LOGICAL
                     DATA RECORD(LOGBIT), LOGICAL DATA RECORDS PER PHYSICAL
                     RECORD(DATLOG) AND PHYSICAL DATA RECORD SIZE IN BITS
                     (DATSIZ).
               2. THE TITLE LINE OF THE VARIABLE NAME LIST SECTION IS
                  (/VARIABLE WRITTEN FOR THIS SNAPSHOT PERIOD). VARIABLE
                  NAMES ARE LISTED ON THE FOLLOWING LINES THAT BEGIN WITH
```

Get program's data file

```
ARE ON THE DATA FILE. A BRIEF DESCRIPTION OF EACH VARIABLE
                 IS GIVEN IN SECTION 3.
              3. THE TITLE LINE OF THIS SECTION IS (ORDVAR = TITLE). EACH
                 LINE FOLLOWING WILL BEGIN WITH (LETVAR=) AND BE FOLLOWED BY
                 THE VARIABLE TITLE. AT THE END OF THAT LINE, (%FOR,) IS
                 FOLLOWED BY THE VARIABLE NAME.
              4. THE TITLE LINE OF THIS SECTION IS (ORDVAR = UNITS, SAMPLE,
                 RATE, BITS, FSTBIT, SKIP). EACH LINE FOLLOWING WILL BEGIN
                 WITH (LETVAR =), AND BE FOLLOWED BY THE VARIABLE UNITS (UNITS), SAMPLING RATE(SAMPLE), OUTPUT RATE(RATE), BIT
                 LENGTH OF EACH DATA VALUE(BITS), FIRST BIT LOCATION OF EACH
                 VARIABLE (FSTBIT) AND NUMBER OF BITS BETWEEN TWO SEQUENTIAL
                 DATA VALUES FOR THE SAME VARIABLE (SKIP). AT THE END OF
                 THAT LINE, (%FOR,) IS FOLLOWED BY THE VARIABLE NAME.
              5. THE TITLE LINE OF THIS SECTION IS (ORDVAR = CONKEY, SCLKEY,
                 TERM, FACTOR). EACH LINE FOLLOWING WILL BEGIN WITH
                 (LETVAR =) AND BE FOLLOWED BY THE CONVERSION CODE USED BY
                 GENPRO(CONKEY), THE SCALING ALGORITHM SELECTION(SCLKEY),
                 THE VALUE OF THE SCALING TERM(TERM), AND THE SCALING FACTOR
                 (FACTOR). AT THE END OF THAT LINE, (%FOR,) IS FOLLOWED BY
                 THE VARIABLE NAME.
             - DATA FILE DESCRIPTION
               THE DATA FILE CONTAINS DATA VALUES OF VARIABLES OVER A
             SPECIFIED TIME PERIOD (FROM BEGSNP TO ENDSNP) OF A PROJECT
             PRODUCTION FLIGHT. A GENPRO CYCLE INTERVAL OF DATA IS OUTPUT AS
             A DATA LOGICAL RECORD, WHERE ONE GENPRO CYCLE INTERVAL IS 1
             SECOND(S) FOR THIS PROJECT. BEFORE THE DATA ARE WRITTEN TO THE
             OUTPUT DESTINATION, EACH DATA VALUE IS SCALED AND TRUNCATED TO A
             SPECIFIED NUMBER OF BINARY BITS ("BITS") AND THEN WRITTEN AS A POSITIVE INTEGER. (I.E. A "TERM" IS ADDED TO EACH VALUE OF
             VARIABLE AND THE RESULT IS MULTIPLED BY A "FACTOR".)
               EACH VARIABLE IN THE DATA FILE HAS A CORRESPONDING "FSTBIT",
           " "BITS", "RATE", "TERM", AND "FACTOR". A GIVEN VARIABLE CAN BE
             CONVERTED FROM A PACKED INTEGER VALUE TO AN UNPACKED REAL VALUE
             BY FOLLOWING THIS PROCEDURE:
                   TAKE "BITS" NUMBER OF BITS STARTING AT "FSTBIT"
                   FROM THIS INTEGER VALUE DIVIDE BY THE "FACTOR"
                   AND THEN SUBTRACT THE BIAS "TERM" FROM THE RESULT.
               IF THE VARIABLE HAS MORE THAN ONE SAMPLE PER GENPRO CYCLE
           " INTERVAL IN A LOGICAL RECORD, THE PROCEDURE MUST BE REPEATED
             "RATE" TIMES IN A LOOP WHERE I=1 TO "RATE". THE STARTING BIT
             NUMBER FOR EACH SEPARATE ITERATION IS THEN:
                   FSTBIT + BITS*(I-1)
               IF ALL PACKED VALUES ARE UNPACKED AND PLACED IN AN ARRAY,
             THE FOLLOWING EQUATION MAY BE USED TO OBTAIN THE STARTING
            INDEX OF A GIVEN VARIABLE (IVAR) WITHIN THE UNPACKED ARRAY:
                   INDEX(IVAR) = ((FSTBIT(IVAR)-1)/BITS)+1
/EXDATE = ("29","DEC","93")
/EXTIME = ("15H","33M","53S")
                                   /EXECUTION DATE
                                   /EXECUTION TIME
/MACHINE= "CRAY"
                                   /EXECUTION MACHINE
/JOBID = "CK6496
                                                  " /JOB IDENTIFICATION
MEDIA = 1
                                   /MEDIA NUMBER
DATOPT = (AUTO, NOSPAN)
                                   /DATA RECORD OPTIONS
LOGBIT =
                                   /BITS PER LOGICAL DATA RECORD
             30048
DATLOG =
             3
                                   /LOGICAL DATA RECORDS PER PHYSICAL RECORD
DATSIZ =
             90176
                                   /PHYSICAL DATA RECORD SIZE (BITS)
/VARIABLES WRITTEN FOR THIS SNAPSHOT PERIOD
                , MIN
APPVAR = HR
                             , SEC
                                            , TPTIME
                                                          , PTIME
                                                                      , ALAT
                    , GLAT
                                 , GLON
                                             , CLAT
                                                          , CLON
                                                                      , DEI
APPVAR = ALON
                    , PSFDC
                                 , PSWC
                                             , DPTC
                                                         , DPBC
                                                                      , DPCRC
APPVAR = DNI
                                 , RHODT
                                             , RHODB
                                                          , RHOCR
                    , PALT
                                                                      , RHUM
APPVAR = HGM
                    , SPHUM
                                                          , CON2C1
                                                                      , CON2P1
APPVAR = MR
                                 , PLWCCZ
                                             , LWCCZ
                   , SEV
                                 , SWT
                                             , SWB
                                                         , IRTC
                                                                      , IRBC
APPVAR = RICE
                                                         , PSW
APPVAR = CGS
                    , GVEW
                                 , GVNS
                                             , PSFD
                                                                      , CRHP
                    , DPB
                                                         , PLWC
APPVAR = DPT
                                 , FPCRC
                                             , VCRH
                                                          , DTB
                    , IRB
                                             , STT
APPVAR = IRT
                                 , DTT
                                                         , TWCH1
                    , SDWP1
                                 , TWDA1
                                             , TWDB1
APPVAR = SDWC1
                                                                      , GALT
                                 , V10
                                                                      , TV10
APPVAR = GGEOH
                      GMODE
                                               V10R
                                                           TADS
                    , FZV
                                 , FZVR
                                                          , PLWCF
                                                                      , SUM15F
APPVAR = FLOADS
                                               VDREF
                                                          , FRANGE
                                                                      , FRESET
                    , DISPF
                                 , FACT
APPVAR = DBARF
                                               FBMFR
                    , AFSP01
                                             , AFSP03
                                                         , AFSP04
                                                                      , AFSP05
APPVAR = FSTROB
                                 , AFSP02
                                 , AFSP08
                                             , AFSP09
                                                         , AFSP10
APPVAR = AFSP06
                    , AFSP07
                                                                      , AFSP11
APPVAR = AFSP12
                    , AFSP13
                                 , AFSP14
                                             , AFSP15
                                                          , CFSP01
                                                                      , CFSP02
                    , CFSP04
                                             , CFSP06
                                                          , CFSP07
APPVAR = CFSP03
                                 , CFSP05
                                                                      , CFSP08
                    , CFSP10
                                 , CFSP11
                                                          , CFSP13
                                                                      , CFSP14
APPVAR = CFSP09
                                               CFSP12
                    , ATB
                                             , WD
                                                         , WS
APPVAR = CFSP15
                                 , ATRF
                                 , UX
                                             , VY
                                                                      , THETAE
                    , WI
APPVAR = VI
                                                           THETA
                    , THI
                                             , PITCH
APPVAR = RHOLA
                                 , ROLL
                                                          , ACINS
                                                                      , IVSPD
                                             , TASW
APPVAR = GSI
                    , VEW
                                 , VNS
                                                                      , QCWC
                                                           TASE
                    , QCW
                                             , AKRD
                                                         , SSRD
                                                                      , ADIFR
                                 , QCR
APPVAR = OCRC
                    , TTB
                                 , TTRF
                                             , VLA
                                                         , RFLAG
                                                                      , ACCFSPH
APPVAR = BDIFR
ORDVAR = TITLE
                                                    ", %FOR, HR
LETVAR = "UNALTERED TAPE TIME
 LETVAR = "UNALTERED TAPE TIME
                                                     , %FOR, MIN
LETVAR = "UNALTERED TAPE TIME
                                                      , %FOR, SEC
LETVAR = "RAW TAPE TIME
                                                       %FOR, TPTIME
LETVAR = "PROCESSOR TIME
                                                      , %FOR, PTIME
LETVAR = "IRS LATITUDE
                                                     ", %FOR, ALAT
```

(APPVAR=). THIS SECTION CONTAINS ALL THE VARIABLE NAMES THAT

```
LETVAR = "IRS LONGITUDE
                                                                                           ", %FOR, ALON
LETVAR = "GPS LATITUDE
                                                                                             , %FOR, GLAT
LETVAR = "GPS LONGITUDE
                                                                                                %FOR, GLON
LETVAR = "LORAN C LATITUDE
                                                                                                %FOR, CLAT
LETVAR = "LORAN C LONGITUDE
                                                                                                %FOR, CLON
                                                                                             , %FOR, DEI
LETVAR = "DISTANCE EAST OF START
LETVAR = "DISTANCE NORTH OF START ", %FOR, DNI
LETVAR = "CORRECTED STATIC PRESSURE (FUSELAGE DI) ", %FOR, PSFDC
LETVAR = "CORRECTED STATIC PRESSURE (WING) ", %FOR, PSWC
                                                                                             , %FOR, PSWC
LETVAR = "CORRECTED STATIC PRESSURE (WING)
LETVAR = "CORRECTED STATIC PRESSURE (WING) ", %FOR, PSWC

LETVAR = "DEW POINT TEMPERATURE (THERMOELEC) (TOP)", %FOR, DPTC

LETVAR = "DEW POINT TEMPERATURE (THERMOELEC) (BOT)", %FOR, DPBC

LETVAR = "GEOMETRIC (RADIO) ALTITUDE ", %FOR, HGM

LETVAR = "NACA PRESSURE ALTITUDE ", %FOR, PALT

LETVAR = "ABSOLUTE HUMIDITY (THERMOELEC) (TOP) ", %FOR, RHODT

LETVAR = "ABSOLUTE HUMIDITY (THERMOELEC) (BOT) ", %FOR, RHODT

LETVAR = "ABSOLUTE HUMIDITY (CRYOGENIC) ", %FOR, RHOCR

LETVAR = "RELATIVE HUMIDITY ", %FOR, RHOCR

LETVAR = "MIXING RATIO ", %FOR, MR

LETVAR = "SPECIFIC HUMIDITY ", %FOR, SPHUM

LETVAR = "CORRECTED PMS-KING LIQUID WATER CONTENT", %FOR, PLWCCZ
LETVAR = "CORRECTED PMS-KING LIQUID WATER CONTENT", %FOR, PLWCCZ
LETVAR = "CORRECTED C-T LIQUID WATER CONTENT", %FOR, LWCCZ
LETVAR = "PMS 2DC PARTICLE CONCENTRATIONS", %FOR, CON2CI
                                                                                          ", %FOR, CON2C1
", %FOR, RICE
", %FOR, SEV
", %FOR, SWT
", %FOR, SWB
", %FOR, IRTC
", %FOR, IRBC
", %FOR, CGS
 LETVAR = "PMS 2DP PARTICLE CONCENTRATION
LETVAR = "RAW ICING RATE INDICATOR
LETVAR = "ICE IMPACTOR EXPOSURE MONITOR
LETVAR = "TOP SHORTWAVE IRRADIANCE
LETVAR = "BOTTOM SHORTWAVE IRRADIANCE
LETVAR = "TOP INFRARED CORRECTED IRRADIANCE
LETVAR = "BOTTOM INFRARED CORRECTED IRRADIANCE
                                                                                          ", %FOR, CGS
", %FOR, GVEW
", %FOR, GVNS
", %FOR, PSFD
", %FOR, CRHP
", %FOR, CRHP
LETVAR = "LORAN C GROUND SPEED
LETVAR = "GPS EAST-WEST GROUND SPD COMP
LETVAR = "GPS NORTH-SOUTH GROUND SPD COMP
LETVAR = "RAW STATIC PRESSURE (FUSELAGE DI)
LETVAR = "RAW STATIC PRESSURE (WING)
LETVAR = "CYROGENIC INLET PRESSURE
LETVAR = "CYROGENIC INLET PRESSURE ", %FOR, CRHP
LETVAR = "DEW/FROST POINT TEMP (THERMOELEC) (TOP) ", %FOR, DPT
LETVAR = "DEW/FROST POINT TEMP (THERMOELEC) (BOT) ", %FOR, DPB
LETVAR = "CORRECTED CRYOGENIC FROSTPOINT TEMP ", %FOR, FPCRC
LETVAR = "RAW CYROGENIC DEW POINT TEMP ", %FOR, VCRH
LETVAR = "RAW PMS-KING POWER ", %FOR, DLWC
LETVAR = "RAW C-T LIQUID WATER CONTENT ", %FOR, LWC
LETVAR = "RAW TOP INFRARED IRRADIANCE ", %FOR, IRT
LETVAR = "TOP PYRGEOMETER DOME TEMPERATURE ", %FOR, DTT
LETVAR = "TOP PYRGEOMETER SINK TEMPERATURE ", %FOR, STT
                                                                                          ", %FOR, STT
", %FOR, STB
", %FOR, SDC1
", %FOR, SDWP1
", %FOR, SDWP1
", %FOR, TWDB1
", %FOR, TWDB1
", %FOR, TWCH1
", %FOR, GALT
", %FOR, GGEOH
", %FOR, GMODE
", %FOR, V10
", %FOR, V10
", %FOR, TADS
", %FOR, TADS
", %FOR, FZV
", %FOR, FSVR
", %FOR, SUM15F
", %FOR, DBARF
", %FOR, DBARF
", %FOR, DBARF
", %FOR, FRANGE
", %FOR, FRESET
", %FOR, FRESET
", %FOR, FRESET
", %FOR, AFSP01
", %FOR, AFSP01
", %FOR, AFSP01
", %FOR, AFSP06
", %FOR, AFSP06
", %FOR, AFSP06
", %FOR, AFSP07
", %FOR, AFSP08
", %FOR, AFSP08
", %FOR, AFSP08
", %FOR, AFSP01
", %FOR, AFSP11
LETVAR = "TOP PYRGEOMETER SINK TEMPERATURE
LETVAR = "BOTTOM PYRGEOMETER DOME TEMPERATURE
LETVAR = "BOTTOM PYRGEOMETER SINK TEMPERATURE
LETVAR = "SHADOW-OR, 2D-C, PROBE 1
LETVAR = "SHADOW-OR, 2D-P, PROBE 1
LETVAR = "PMS-2D-C1 HOUSEKEEPING
LETVAR = "PMS-2D-P1 HOUSEKEEPING
LETVAR = "PMS-2D PROBE 1 HOUSEKEEPING
LETVAR = "GPS ALTITUDE
LETVAR = "GPS GEOIDAL HEIGHT
LETVAR = "GPS MODE OF OPERATION
LETVAR = "10-V REFERENCE
 LETVAR = "10-V REFERENCE THROUGH RESISTOR
LETVAR = "AIR TEMP ADS INTERFACE
LETVAR = "TEMP OF VOLTAGE REFERENCE
LETVAR = "AIR TEMP FLOW MONITOR - ADS
LETVAR = "FIXED ZERO VOLTAGE
LETVAR = "FIXED ZERO VOLTAGE THRU RESISTOR
LETVAR = "DIFFERENCE OF 10-V REFERENCES
LETVAR = "FSSP LIQUID WATER CONTENT
LETVAR = "PMS FSSP PROBE (TOTAL COUNTS)
 LETVAR = "FSSP MEAN DIAMETER
LETVAR = "FSSP DISPERSION (SIGMA/DBARF)
LETVAR = "FSSP CALCULATED ACTIVITY FRACTION
LETVAR = "FSSP BEAM FRACTION (FSSP/FSTROB)
LETVAR = "FSSP RANGE
LETVAR = "FSSP FAST RESETS
 LETVAR = "FSSP TOTAL STROBES
 LETVAR = "PMS PROBE FSSP RAW COUNT CELL 01
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 02
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 03
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 04
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 05
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 06
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 07
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 08
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 09
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 10
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 11
 LETVAR = "PMS PROBE FSSP RAW COUNT CELL 12
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 13
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 14
                                                                                          ", %FOR, AFSP14
LETVAR = "PMS PROBE FSSP RAW COUNT CELL 15
                                                                                          ", %FOR, AFSP15
", %FOR, CFSP01
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 01
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LETVAR = "FSSP CORRECTED CONCENTRATION CELL 02
                                                                                 ", %FOR, CFSP02
                                                                                 ", %FOR, CFSP03
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 03
                                                                                   , %FOR, CFSP04
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 04
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 05
                                                                                   , %FOR, CFSP05
                                                                                 ", %FOR, CFSP06
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 06
                                                                                 ", %FOR, CFSP07
", %FOR, CFSP08
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 07
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 08
                                                                                ", %FOR, CFSP10
", %FOR, CFSP11
", %FOR, CFSP11
", %FOR, CFSP13
", %FOR, CFSP14
", %FOR, CFSP15
", %FOR, ATB
", %FOR, ATB
", %FOR, WD
", %FOR, WI
", %FOR, WI
", %FOR, WI
", %FOR, UI
", %FOR, UX
", %FOR, THETA
", %FOR, THETA
", %FOR, ROLL
", %FOR, CINS
", %FOR, CINS
", %FOR, USPD
", %FOR, QCW
", %FOR, QCW
", %FOR, QCW
", %FOR, QCR
", %FOR, AKRD
", %FOR, SSRD
", %FOR, AND TER
", %FOR, BUTTER
", %FOR, BU
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 09
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 10
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 11
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 12
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 13
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 14
LETVAR = "FSSP CORRECTED CONCENTRATION CELL 15
LETVAR = "AMBIENT TEMPERATURE (BOOM)
LETVAR = "AMBIENT TEMPERATURE (REVERSE FLOW)
LETVAR = "HORIZONTAL WIND DIRECTION
LETVAR = "HORIZONTAL WIND SPEED
LETVAR = "WIND EAST COMPONENT
LETVAR = "WIND NORTH COMPONENT
LETVAR = "WIND VERTICAL COMPONENT
LETVAR = "WIND LONGITUDINAL COMPONENT
LETVAR = "WIND LATERAL COMPONENT
LETVAR = "POTENTIAL TEMPERATURE
LETVAR = "EQUIVALENT POTENTIAL TEMPERATURE
LETVAR = "CORRECTED L-A ABSOLUTE HUMIDITY
LETVAR = "IRS AIRCRAFT TRUE HEADING
LETVAR = "AIRCRAFT ROLL ATTITUDE ANGLE
LETVAR = "AIRCRAFT PITCH ATTITUDE ANGLE
LETVAR = "IRS AIRCRAFT VERTICAL ACCELERATION
LETVAR = "IRS AIRCRAFT VERTICAL VELOCITY
LETVAR = "IRS GROUND SPEED
LETVAR = "IRS GROUND SPEED EAST COMPONENT
LETVAR = "IRS GROUND SPEED NORTH COMPONENT
LETVAR = "AIRCRAFT TRUE AIRSPEED (WING)
LETVAR = "AIRCRAFT TRUE AIRSPEED (RADOME)
LETVAR = "CORRECTED DYNAMIC PRESSURE (WING)
LETVAR = "CORRECTED DYNAMIC PRESSURE (RADOME)
LETVAR = "RAW DYNAMIC PRESSURE (WING)
LETVAR = "RAW DYNAMIC PRESSURE (RADOME)
LETVAR = "ATTACK ANGLE (RADOME)
LETVAR = "SIDESLIP ANGLE (RADOME)
LETVAR = "ATTACK DIFFERENTIAL PRESSURE (RADOME)
LETVAR = "SIDESLIP DIFFERENTIAL PRESSURE (RADOME) ", %FOR, BDIFR
LETVAR = "TOTAL TEMPERATURE (BOOM)
                                                                                   , %FOR, TTB
LETVAR = TOTAL TEMPERATURE (BOOM) , %FOR, TTB

LETVAR = "TOTAL TEMPERATURE (REVERSE FLOW) ", %FOR, TTRF

LETVAR = "RAW LYMAN-ALPHA VOLTAGE ", %FOR, VLA

LETVAR = "FLAG=-1.0,((RHOLA-RHOTD)/RHOTD) > .20 ", %FOR, RFLAG

LETVAR = "FSSP ACCUMULATED RAW COUNT(1-15) HIGH RT", %FOR, ACCFSPH
ORDVAR = UNITS, SAMPLE, RATE, BITS, FSTBIT, SKIP
LETVAR = " HR
                                                   1, 32,
                                                                                     0, %FOR, HR
                                        1.
                                                                        1.
LETVAR = " MIN
                                                   1, 32,
                                                                       33.
                                                                                    0, %FOR, MIN
LETVAR = " S
                                                 1, 32,
1, 32,
                                                                       65,
                                                                                    0, %FOR, SEC
                                        1,
LETVAR = " S
                                        1,
                                                                       97,
                                                                                    0, %FOR, TPTIME
LETVAR = " S
                                                  1, 32,
                                                                     129,
                                                                                     0, %FOR, PTIME
LETVAR = " DEG
                                                   1, 32,
                                                                      161,
                                                                                     0, %FOR, ALAT
LETVAR = " DEG
                                                  1, 32,
                                                                      193,
                                                                                     0, %FOR, ALON
LETVAR = " DEG
                                                                                     0, %FOR, GLAT
                                                   1, 32,
                                                                      225,
LETVAR = " DEG
                                                  1, 32,
                                                                      257.
                                                                                     0, %FOR, GLON
                                         1,
LETVAR = " DEG
                                                   1, 32,
                                                                      289,
                                                                                     0, %FOR, CLAT
                                         1,
LETVAR = " DEG
                                                                      321.
                                                                                     0, %FOR, CLON
                                                   1, 32.
                                         1,
LETVAR = " KM
                                                   1, 32,
                                                                                    0, %FOR, DEI
                                        1,
                                                                      353,
LETVAR = " KM
                                        1,
                                                   1, 32,
                                                                      385,
                                                                                    0, %FOR, DNI
LETVAR = " MB
                                                   1, 32,
                                                                      417,
                                                                                     0, %FOR, PSFDC
LETVAR = " MB
                                                    1, 32,
                                                                      449,
                                                                                     0, %FOR, PSWC
LETVAR = " C
                                                                      481,
                                                                                     0, %FOR, DPTC
LETVAR = " C
                                                   1, 32,
                                                                      513,
                                                                                     0, %FOR, DPBC
                                         1,
LETVAR = " C
                                                   1, 32,
                                                                      545,
                                                                                     0, %FOR, DPCRC
                                         1,
LETVAR = " M
                                                   1, 32,
                                                                      577.
                                                                                     0, %FOR, HGM
                                         1,
LETVAR = " M
                                                                      609,
                                         1,
                                                   1, 32,
                                                                                     0, %FOR, PALT
LETVAR = " G/M3
                                                   1, 32,
                                                                      641,
                                                                                     0, %FOR, RHODT
LETVAR = " G/M3
                                                   1, 32,
                                                                      673,
                                                                                     0, %FOR, RHODB
LETVAR = " G/M3
                                                   1, 32,
                                                                      705,
                                                                                     0, %FOR, RHOCR
LETVAR = " PCT
                                                    1, 32,
                                                                      737,
                                                                                     0, %FOR, RHUM
LETVAR = " G/KG
                                                   1, 32,
                                                                      769.
                                                                                     0, %FOR, MR
                                         1,
LETVAR = " G/KG
                                                                      801,
                                                                                     0, %FOR, SPHUM
                                                    1, 32,
                                         1,
LETVAR = " G/M3
                                                                                     0, %FOR, PLWCCZ
                                                    1, 32,
                                                                      833,
                                         1.
LETVAR = " G/M3
                                                                                     0, %FOR, LWCCZ
                                                    1. 32.
                                                                      865.
LETVAR = " N/L
                                                                      897.
                                                                                     0, %FOR, CON2C1
                                        1.
                                                    1, 32,
LETVAR = " N/L
                                                                      929.
                                                                                    0, %FOR, CON2P1
                                        1,
                                                   1, 32,
LETVAR = " VDC
                                        1.
                                                   1. 32.
                                                                      961.
                                                                                     0, %FOR, RICE
LETVAR = " vdc
                                                   1, 32,
                                                                      993,
                                                                                     0, %FOR, SEV
LETVAR = " W/M2
                                                    1. 32.
                                                                    1025,
                                                                                     0, %FOR, SWT
LETVAR = " W/M2
                                                   1, 32,
                                                                    1057,
                                                                                     0, %FOR, SWB
LETVAR = " W/M2
                                                    1, 32,
                                                                    1089,
                                                                                     0, %FOR, IRTC
                                         1.
LETVAR = " W/M2
                                                    1, 32,
                                                                    1121,
                                                                                    0, %FOR, IRBC
LETVAR = " M/S
                                                                                     0, %FOR, CGS
                                                    1, 32,
                                                                    1153,
LETVAR = " M/S
                                                    1, 32,
                                                                    1185,
                                                                                     0, %FOR, GVEW
LETVAR = " M/S
                                                    1. 32.
                                                                    1217.
                                                                                     0, %FOR, GVNS
```

LETVAR = " LETVAR = "									
LETVAR = "	MB	",	1,	1,	32,	1249,	0,	%FOR,	PSFD
		",	1,	1,	32,	1281,	0,	%FOR,	PSW
LETVAR = "	MB	",	1,	1,	32,	1313,	0,	%FOR,	CRHP
LETVAR = "	C	",	1,	1,	32,	1345,	0,	%FOR,	DPT
LETVAR = "	С	",	1,	1,	32,	1377,	0,	%FOR,	DPB
LETVAR = "	С	",	1,	1,	32,	1409,		%FOR,	
LETVAR = "		",	1,	1,	32,	1441,	0,	%FOR,	VCRH
LETVAR = "	W	",	1,		32,	1473,		%FOR,	
LETVAR = "		".	1,		32,	1505,		%FOR,	
LETVAR = "		".	1,		32,	1537,		%FOR,	
LETVAR = "		" <i>′</i>	1,		32,	1569,		%FOR,	
LETVAR = "		,,	1,		32,	1601,		%FOR,	
LETVAR = "		,,	1,		32,	1633,		%FOR,	
LETVAR = "		,,	1,		32,	1665,		%FOR,	
LETVAR = "		,,	1,		32,	1697,		%FOR,	
LETVAR = "		" <i>′</i>	1,		32,	1729,		%FOR,	
LETVAR = "		,,	1,		32,	1761,		%FOR,	
LETVAR = "		" <i>′</i>			•	•			
LETVAR = "		, <i>'</i>	1,		32,	1793,		%FOR,	
		,,	1,		32,	1825,		%FOR,	
LETVAR = "		<i>'</i>	1,		32,	1857,		%FOR,	
LETVAR = "		<i>'</i>	1,		32,	1889,		%FOR,	
LETVAR = "	M	<i>'</i>	1,		32,	1921,		%FOR,	
LETVAR = "		<i>'</i>	1,		32,	1953,		%FOR,	
LETVAR = "		<i>'</i>	1,		32,	1985,		%FOR,	
LETVAR = "		<i>'</i>	1,		32,	2017,		%FOR,	
LETVAR = "		" ,	1,		32,	2049,		%FOR,	
LETVAR = "		",	1,		32,	2081,		%FOR,	
LETVAR = "		",	1,		32,	2113,			FLOADS
LETVAR = "		",	1,	1,	32,	2145,		%FOR,	
LETVAR = "		",	1,		32,	2177,		%FOR,	
LETVAR = "	VDC	",	1,	1,	32,	2209,	0,	%FOR,	VDREF
LETVAR = "	G/M3	",	1,	1,	32,	2241,	0,	%FOR,	PLWCF
LETVAR = "	CNTS	",	1,	1,	32,	2273,	0,	%FOR,	SUM15F
LETVAR = "	uM	",	1,	1,	32,	2305,	0,	%FOR,	DBARF
LETVAR = "		",	1,	1,	32,	2337,	0,	%FOR,	DISPF
LETVAR = "		",	1,		32,	2369,		%FOR,	
LETVAR = "		",	1,		32,	2401,			FBMFR
LETVAR = "		",	1,		32,	2433,			FRANGE
LETVAR = "	CNTS	".	1,		32,	2465,			FRESET
LETVAR = "		".	1,		32,	2497,			FSTROB
LETVAR = "		".	1,		32,	2529,			AFSP01
LETVAR = "		".	1,		32,	2561,			AFSP02
LETVAR = "		"	1,		32,	2593,			AFSP03
LETVAR = "		" <i>'</i>	1,		32,	2625,			AFSP04
LETVAR = "		" <i>'</i>	1,		32,	2657,			AFSP05
LETVAR = "		" <i>′</i>	1,		32,	2689,			AFSP06
LETVAR = "		" <i>'</i>	1,		32,	2721,			AFSP07
LETVAR = "		" <i>′</i>	1,		32,	2753,			AFSP08
LETVAR = "		" <i>'</i>	1,		32,	2785,			AFSP09
LETVAR = "		".	1,		32,	2817,			AFSP10
LETVAR = "		" <i>'</i>	1,		32,	2849,			AFSP11
LETVAR = "		".	1,		32,	2881,			AFSP12
LETVAR = "		"	1,		32,	2913,			AFSP13
LETVAR = "	CNTS	" <i>'</i>	1,		32,	2945,			AFSP14
LETVAR = "		" <i>′</i>	1,		32,	2977,			AFSP15
LETVAR = "	N/CM3	"	1,		32,	3009,			CFSP01
LETVAR = "		" <i>′</i>	1,		32,	3041,			CFSP02
LETVAR = "		" <i>′</i>	1,		32,	3073,			CFSP03
LETVAR = "	N/CM3	" <i>′</i>	1,		32,	3105,			CFSP04
LETVAR = "		<i>'</i>	1,		32,	3137,		or ore,	
LETVAR = "	N/CM3	,,	1,					& EUB	
		,	+ /		32		0,	%FOR,	
$\Gamma_{r} = \Gamma_{r} = \Gamma_{r} = \Gamma_{r} = \Gamma_{r}$	N \ C.M ≺	" .	1		32, 32.	3169,	0, 0,	%FOR,	
LETVAR = "	N/CM3	",	1, 1.	1,	32,	3169, 3201,	0, 0, 0,	%FOR,	CFSP07
LETVAR = "	N/CM3	,	1,	1, 1,	32, 32,	3169, 3201, 3233,	0, 0, 0,	%FOR, %FOR, %FOR,	CFSP07 CFSP08
LETVAR = " LETVAR = "	N/CM3 N/CM3	",	1, 1,	1, 1, 1,	32, 32, 32,	3169, 3201, 3233, 3265,	0, 0, 0, 0,	%FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09
LETVAR = " LETVAR = " LETVAR = "	N/CM3 N/CM3 N/CM3	",	1, 1, 1,	1, 1, 1,	32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297,	0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10
LETVAR = " LETVAR = " LETVAR = " LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3	",	1, 1, 1, 1,	1, 1, 1, 1,	32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329,	0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3	", ", ",	1, 1, 1, 1,	1, 1, 1, 1,	32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361,	0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3	, , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1,	1, 1, 1, 1, 1,	32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393,	0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3	, , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1,	1, 1, 1, 1, 1, 1,	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425,	0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3	, , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1, 1, 1,	1, 1, 1, 1, 1, 1, 1,	32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457,	0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C	, , , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1, 1, 1, 20,	1, 1, 1, 1, 1, 1, 1, 1, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489,	0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C	, , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1, 1, 1, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129,	0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG		1, 1, 1, 1, 1, 1, 1, 20, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769,	0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S	, , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1, 1, 1, 20, 20, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409,	0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S		1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S		1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C C DEG M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S K		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20,	1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20,	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969, 8609, 9249,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB WD WS UI VI WI WI UX VY THETA
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C C DEG M/S M/S M/S M/S M/S K K		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969, 8609, 9249, 9889,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP11 CFSP12 CFSP13 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETAE
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S K K		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETAE RHOLA
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETAE RHOLA THI
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S K K K G/M3 DEG DEG		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETA THIA ROLL
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S M/S M/S DEG DEG DEG		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809, 12449,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATB ATRF WD WS UI VI UX VY THETA THETAE RHOLA THI ROLL PITCH
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 CC C DEG M/S M/S M/S M/S M/S M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809, 12449, 13089,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR,	CFSP07 CFSP08 CFSP09 CFSP10 CFSP11 CFSP12 CFSP13 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETAE RHOLA THI ROLL PITCH ACINS
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S K K G/M3 DEG DEG DEG M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809, 12449, 13089, 13729,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETAE RHOLA THI ROLL PITCH ACINS IVSPD
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809, 12449, 13089, 13729, 14369,		%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETA THETAE RHOLA THI ROLL PITCH ACINS GSI
LETVAR = "	N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 N/CM3 C C DEG M/S M/S M/S M/S M/S M/S M/S M/S M/S M/S		1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	1, 1, 1, 1, 1, 1, 1, 1, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	32, 32, 32, 32, 32, 32, 32, 32,	3169, 3201, 3233, 3265, 3297, 3329, 3361, 3393, 3425, 3457, 3489, 4129, 4769, 5409, 6049, 6689, 7329, 7969, 8609, 9249, 9889, 10529, 11169, 11809, 12449, 13089, 13729,		%FOR, %FOR,	CFSP07 CFSP08 CFSP10 CFSP11 CFSP12 CFSP13 CFSP14 CFSP15 ATB ATRF WD WS UI VI WI UX VY THETA THETA THETAE RHOLA THI ROLL PITCH ACINS GSI

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           M/S
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LETVAR = "
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           M/S
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                         20.
LETVAR = "
           M/S
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LETVAR = "
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LETVAR = "
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                                                        TPTIME
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LETVAR =
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LETVAR =
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LETVAR =
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LETVAR =
          1. 2.
                  1000.0000
                                  1000.0000
                                                  %FOR, SPHUM
LETVAR =
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                  1000.0000
                                  1000.0000
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T.ETVAR =
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                                  1000.0000
                                                  %FOR, LWCCZ
             2,
LETVAR =
          1,
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                                  1000.0000
                                                  %FOR, CON2C1
LETVAR =
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                                  1000.0000
                                                  %FOR, CON2P1
LETVAR =
                  1000.0000
                                  1000.0000
                                                  %FOR, RICE
          1, 2,
LETVAR =
          1. 2.
                  1000.0000
                                  1000.0000
                                                  %FOR, SEV
LETVAR =
          1, 2,
                  1000.0000
                                  1000.0000
                                                  %FOR, SWT
LETVAR =
                                  1000.0000
                                                  %FOR, SWB
          1. 2.
                  1000.0000
LETVAR =
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                                  1000.0000
                                                  %FOR, IRTC
                  1000.0000
T.ETVAR =
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          1, 2,
                  1000.0000
                                  1000.0000
LETVAR =
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                                  1000.0000
                                                  %FOR, CGS
LETVAR =
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                  1000.0000
                                  1000.0000
                                                  %FOR,
                                                        GVEW
LETVAR =
          1, 2,
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                                  1000.0000
                                                  %FOR, GVNS
LETVAR =
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                                  1000.0000
          1, 2,
                                                  %FOR, PSFD
LETVAR =
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                                  1000.0000
                                                  %FOR, PSW
LETVAR =
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                                  1000.0000
                                                  %FOR, CRHP
LETVAR =
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                                                  %FOR, DPT
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LETVAR =
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                                  1000.0000
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                                                  %FOR, DPB
LETVAR =
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                                  1000.0000
                                                  %FOR, FPCRC
LETVAR =
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                                  1000.0000
                                                  %FOR,
                                                        VCRH
LETVAR =
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                                                  %FOR, PLWC
          1,
LETVAR =
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          1, 2,
                                                  %FOR, LWC
LETVAR =
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                                  1000.0000
                                                  %FOR, IRT
LETVAR =
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                                  1000.0000
                                                  %FOR, IRB
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LETVAR =
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                                  1000.0000
                                                  %FOR, DTT
LETVAR =
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                                  1000.0000
                                                  %FOR.
          1,
             2.
                                                        STT
LETVAR =
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                                                  %FOR, DTB
LETVAR =
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                                  1000.0000
                                                  %FOR,
                                                        STB
LETVAR =
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                                  1000.0000
                                                  %FOR,
                                                        SDWC1
LETVAR =
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                                                  %FOR,
                                                        SDWP1
LETVAR =
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                                                  %FOR,
                                                        TWDA1
LETVAR =
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                                                  %FOR, TWDB1
LETVAR =
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                                                  %FOR,
                                                        TWCH1
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                                                  %FOR,
                                                        GALT
LETVAR =
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             2.
                  1000.0000
                                  1000.0000
                                                  %FOR,
                                                        GGEOH
                 0.0000000E+00.
LETVAR =
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                                                  %FOR, GMODE
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                                                  %FOR,
                                                        V10R
LETVAR =
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                                                        TADS
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                                                , %FOR, AFSP02
 LETVAR = 1.2.
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 LETVAR = 1, 2,
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 T.ETVAR =
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 LETVAR = 1, 2,
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                                                  %FOR, AFSP05
 LETVAR = 1, 2,
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                                                  %FOR, AFSP06
 LETVAR = 1, 2,
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                   1000.0000
                                                  %FOR, AFSP07
 LETVAR =
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                                   1000.0000
                                                  %FOR, AFSP08
 LETVAR = 1, 2,
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                                  1000.0000
                                                  %FOR, AFSP09
 LETVAR =
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                                                  %FOR, AFSP10
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 LETVAR =
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                                                  %FOR, AFSP12
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                                   1000.0000
                                                  %FOR, AFSP14
 LETVAR =
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                                                  %FOR, AFSP15
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 LETVAR =
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                                                  %FOR, CFSP03
 LETVAR =
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                                  1000.0000
                                                  %FOR, CFSP04
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 LETVAR =
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            1, 2,
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 LETVAR = 1, 2,
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                                                  %FOR, CFSP06
 LETVAR =
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                                                  %FOR, CFSP07
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                                                  %FOR, CFSP08
 LETVAR =
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                                                  %FOR, CFSP09
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                                                  %FOR, CFSP10
 LETVAR =
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                                                  %FOR, CFSP11
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                                                  %FOR, CFSP14
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                                                  %FOR, WD
 LETVAR = 1, 2,
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                                                  %FOR, WS
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                                                  %FOR, THETAE
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                                                , %FOR, RHOLA
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 LETVAR = 1, 2,
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                                                  %FOR, PITCH
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                                                  %FOR, ACINS
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                                                  %FOR, IVSPD
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                                                  %FOR, GSI
 LETVAR =
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                                                  %FOR, VEW
 LETVAR = 1, 2,
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                                   1000.0000
                                                  %FOR, VNS
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                                                  %FOR, TASW
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                                                  %FOR, TASR
 LETVAR =
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                                                  %FOR, OCWC
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                                                  %FOR, QCW
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                                                  %FOR,
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 LETVAR = 1, 2,
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                                                  %FOR, AKRD
 LETVAR =
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                                                  %FOR, SSRD
 LETVAR = 1, 2,
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                                                  %FOR, BDIFR
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                                                  %FOR, TTB
 LETVAR =
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                                                  %FOR, TTRF
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                                                  %FOR, VLA
 LETVAR = 1, 2,
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                                  1000.0000
                                                  %FOR, RFLAG
 LETVAR =
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                                 , 1000.0000
                                                  %FOR, ACCFSPH
EOF SENSED IN HEADER; DATA FILE REC. NO.
THERE ARE 56 PHYSICAL RECORDS IN THE HEADER FILE
 2-225-RF07 FIRE2-Cirrus KingAir 26NOV91
 THIS FILE IS ALL OR PART OF THE TIME PERIOD 18.000
                                                         7.0000
                                                                   1.0000
                                                                              то
                                                                                    21.000
                                                                                              28.000
                                                                                                         7.0000
 DESCRIPTION OF TAPE:
                          640 BITS (104 ASCII CHARACTERS) PER LOGICAL RECORD
         HEADER FILE --
                           10 LOGICAL HEADER RECORDS PER PHYSICAL RECORD
                         6400 BITS PER PHYSICAL HEADER RECORD
           DATA FILE -- 30048 BITS PER LOGICAL DATA RECORD
                            3 LOGICAL DATA RECORDS PER PHYSICAL RECORD
                        90176 BITS PER PHYSICAL DATA RECORD
 PROJECT FLIGHT DATE 26NOV91
 PROJECT FLIGHT TIME 18 07 01
 MACHINE = CRAY
 144 PARAMETERS WERE SAVED AT THEIR RESPECTIVE RATES
 939 SAMPLES WERE SCALED INTO 32 BIT INTEGER WORDS.
```

, %FOR, DBARF

, 1000.0000

LETVAR = 1, 2,

1000.0000

METHOD OF SCALING -- A BIAS TERM WAS ADDED TO EACH SAMPLE OF EACH PARAMETER TO ELIMINATE ANY NEGATIVE VALUES. THE BIASED SAMPLE WAS THEN MULTIPLIED BY FACTOR TO INSURE THAT THE PROPER NUMBER OF DECIMAL PLACES WERE SAVED. THE RECORD MAY BE DECODED BY RIGHT JUSTIFYING 32 BITS AT A TIME AND REVERSING THE ABOVE SCALING PROCESS. FOR EXAMPLE: S(I)=N/FACTOR(I)-TERM(I), WHERE N IS THE 32 BIT SCALED INTEGER WORD, AND S(I) IS THE DESIRED UNSCALED PARAMETER.

	E DESIRED						
I	NFSTWD	NFSTBT	RATE	TITLE	NAME	UNITS	FACTOR TERM
1 2	1 2	1 33	1 1	UNALTERED TAPE TIME UNALTERED TAPE TIME	HR MIN	HR MIN	(N/ 1000.0) - 1000.0 (N/ 1000.0) - 1000.0
3	3	65	1	UNALTERED TAPE TIME	SEC	S	(N/1000.0) - 1000.0
4	4	97	1	RAW TAPE TIME	TPTIME	s	(N/ 1000.0) - 1000.0
5	5	129	1	PROCESSOR TIME	PTIME	s	(N/ 1000.0) - 1000.0
6	6	161	1	IRS LATITUDE	ALAT	DEG	(N/ 1000.0) - 1000.0
7	7	193	1	IRS LONGITUDE	ALON	DEG	(N/ 1000.0) - 1000.0
8	8	225	1	GPS LATITUDE	GLAT	DEG	(N/ 1000.0) - 1000.0
9	9	257	1	GPS LONGITUDE	GLON	DEG	(N/ 1000.0) - 1000.0
10	10	289	1	LORAN C LATITUDE	CLAT	DEG	(N/1000.0) - 1000.0
11	11	321	1	LORAN C LONGITUDE	CLON	DEG	(N/1000.0) - 1000.0
12	12	353	1	DISTANCE EAST OF START	DEI	KM	(N/ 1000.0) - 1000.0
13	13	385	1	DISTANCE NORTH OF START	DNI	KM	(N/1000.0) - 1000.0
14	14	417	1	CORRECTED STATIC PRESSURE (FUSELAGE DI)	PSFDC	MB	(N/ 1000.0) - 1000.0
15	15	449	1	CORRECTED STATIC PRESSURE (WING)	PSWC	MB	(N/ 1000.0) - 1000.0
16	16 17	481	1	DEW POINT TEMPERATURE (THERMOELEC) (TOP)		C	(N/ 1000.0) - 1000.0
17 18	18	513 545	1 1	DEW POINT TEMPERATURE (THERMOELEC) (BOT) CORRECTED CYROGENIC DEW POINT TEMP	DPBC	C C	(N/ 1000.0) - 1000.0
19	19	577	1	GEOMETRIC (RADIO) ALTITUDE	HGM	M	(N/ 1000.0) - 1000.0 (N/ 1000.0) - 1000.0
20	20	609	1	NACA PRESSURE ALTITUDE	PALT	M	(N/1000.0) - 1000.0
21	21	641	1	ABSOLUTE HUMIDITY (THERMOELEC) (TOP)	RHODT	G/M3	(N/1000.0) - 1000.0
22	22	673	1	ABSOLUTE HUMIDITY (THERMOELEC) (BOT)	RHODB	G/M3	(N/ 1000.0) - 1000.0
23	23	705	1	ABSOLUTE HUMIDITY (CRYOGENIC)	RHOCR	G/M3	(N/ 1000.0) - 1000.0
24	24	737	1	RELATIVE HUMIDITY	RHUM	PCT	(N/ 1000.0) - 1000.0
25	25	769	1	MIXING RATIO	MR	G/KG	(N/ 1000.0) - 1000.0
26	26	801	1	SPECIFIC HUMIDITY	SPHUM	G/KG	(N/ 1000.0) - 1000.0
27	27	833	1	CORRECTED PMS-KING LIQUID WATER CONTENT	PLWCCZ	G/M3	(N/ 1000.0) - 1000.0
28	28	865	1	CORRECTED C-T LIQUID WATER CONTENT	LWCCZ	G/M3	(N/ 1000.0) - 1000.0
29	29	897	1	PMS 2DC PARTICLE CONCENTRATIONS	CON2C1	N/L	(N/ 1000.0) - 1000.0
30	30	929	1	PMS 2DP PARTICLE CONCENTRATION	CON2P1	N/L	(N/ 1000.0) - 1000.0
31	31	961	1	RAW ICING RATE INDICATOR	RICE	VDC	(N/1000.0) - 1000.0
32	32	993	1	ICE IMPACTOR EXPOSURE MONITOR	SEV	vdc	(N/1000.0) - 1000.0
33	33	1025	1	TOP SHORTWAVE IRRADIANCE	SWT	W/M2	(N/1000.0) - 1000.0
34	34	1057	1	BOTTOM SHORTWAVE IRRADIANCE	SWB	W/M2	(N/1000.0) - 1000.0
35	35	1089	1	TOP INFRARED CORRECTED IRRADIANCE	IRTC	W/M2	(N/ 1000.0) - 1000.0
36	36	1121	1	BOTTOM INFRARED CORRECTED IRRADIANCE	IRBC	W/M2	(N/1000.0) - 1000.0
37	37	1153	1	LORAN C GROUND SPEED	CGS	M/S	(N/ 1000.0) - 1000.0
38	38	1185	1	GPS EAST-WEST GROUND SPD COMP	GVEW	M/S	(N/ 1000.0) - 1000.0
39	39	1217	1	GPS NORTH-SOUTH GROUND SPD COMP	GVNS	M/S	(N/ 1000.0) - 1000.0
40	40	1249	1	RAW STATIC PRESSURE (FUSELAGE DI)	PSFD	MB	(N/ 1000.0) - 1000.0
41	41	1281	1	RAW STATIC PRESSURE (WING)	PSW	MB	(N/ 1000.0) - 1000.0
42 43	42 43	1313	1 1	CYROGENIC INLET PRESSURE DEW/FROST POINT TEMP (THERMOELEC) (TOP)	CRHP DPT	MB C	(N/ 1000.0) - 1000.0 (N/ 1000.0) - 1000.0
44	44	1345 1377	1	DEW/FROST POINT TEMP (THERMOELEC) (10P)	DPB	C	(N/1000.0) - 1000.0 (N/1000.0) - 1000.0
45	45	1409	1	CORRECTED CRYOGENIC FROSTPOINT TEMP	FPCRC	C	(N/1000.0) - 1000.0
46	46	1441	1	RAW CYROGENIC DEW POINT TEMP	VCRH	C	(N/1000.0) - 1000.0
47	47	1473	1	RAW PMS-KING POWER	PLWC	W	(N/ 1000.0) - 1000.0
48	48	1505	1	RAW C-T LIQUID WATER CONTENT	LWC	G/M3	(N/ 1000.0) - 1000.0
49	49	1537	1	RAW TOP INFRARED IRRADIANCE	IRT	W/M2	(N/ 1000.0) - 1000.0
50	50	1569	1	RAW BOTTOM INFRARED IRRADIANCE	IRB	W/M2	(N/ 1000.0) - 1000.0
51	51	1601	1	TOP PYRGEOMETER DOME TEMPERATURE	DTT	С	(N/1000.0) - 1000.0
52	52	1633	1	TOP PYRGEOMETER SINK TEMPERATURE	STT	С	(N/1000.0) - 1000.0
53	53	1665	1	BOTTOM PYRGEOMETER DOME TEMPERATURE	DTB	С	(N/ 1000.0) - 1000.0
54	54	1697	1	BOTTOM PYRGEOMETER SINK TEMPERATURE	STB	С	(N/1000.0) - 1000.0
55	55	1729	1	SHADOW-OR, 2D-C, PROBE 1	SDWC1	CNTS	(N/ 1000.0) - 1000.0
56	56	1761	1	SHADOW-OR, 2D-P, PROBE 1	SDWP1	CNTS	(N/ 1000.0) - 1000.0
57	57	1793	1	PMS-2D-C1 HOUSEKEEPING	TWDA1	VDC	(N/ 1000.0) - 1000.0
58	58	1825	1	PMS-2D-P1 HOUSEKEEPING	TWDB1	VDC	(N/ 1000.0) - 1000.0
59 60	59 60	1857	1	PMS-2D PROBE 1 HOUSEKEEPING	TWCH1	VDC	(N/ 1000.0) - 1000.0
60 61	60 61	1889 1921	1 1	GPS ALTITUDE GPS GEOIDAL HEIGHT	GALT GGEOH	M M	(N/ 1000.0) - 1000.0 (N/ 1000.0) - 1000.0
62	62	1953	1	GPS MODE OF OPERATION	GMODE	M	(N/1000.0) = 1000.0 (N/1.0) = 0.0
63	63	1985	1	10-V REFERENCE	V10	VDC	(N/1000.0) - 1000.0
64	64	2017	1	10-V REFERENCE THROUGH RESISTOR	V10 V10R	VDC	(N/1000.0) - 1000.0
65	65	2049	1	AIR TEMP ADS INTERFACE	TADS	C	(N/ 1000.0) - 1000.0
66	66	2081	1	TEMP OF VOLTAGE REFERENCE	TV10	c	(N/ 1000.0) - 1000.0
67	67	2113	1	AIR TEMP FLOW MONITOR - ADS	FLOADS	C	(N/ 1000.0) - 1000.0
68	68	2145	1	FIXED ZERO VOLTAGE	FZV	VDC	(N/ 1000.0) - 1000.0
69	69	2177	1	FIXED ZERO VOLTAGE THRU RESISTOR	FZVR	VDC	(N/ 1000.0) - 1000.0
70	70	2209	1	DIFFERENCE OF 10-V REFERENCES	VDREF	VDC	(N/ 1000.0) - 1000.0
71	71	2241	1	FSSP LIQUID WATER CONTENT	PLWCF	G/M3	(N/ 1000.0) - 1000.0
72	72	2273	1	PMS FSSP PROBE (TOTAL COUNTS)	SUM15F	CNTS	(N/ 1000.0) - 1000.0
73	73	2305	1	FSSP MEAN DIAMETER	DBARF	uM	(N/ 1000.0) - 1000.0
74	74	2337	1	FSSP DISPERSION (SIGMA/DBARF)	DISPF		(N/1000.0) - 1000.0
75	75	2369	1	FSSP CALCULATED ACTIVITY FRACTION	FACT		(N/ 1000.0) - 1000.0
76	76	2401	1	FSSP BEAM FRACTION (FSSP/FSTROB)	FBMFR		(N/ 1000.0) - 1000.0
77	77	2433	1	FSSP RANGE	FRANGE		(N/ 1000.0) - 1000.0
78	78	2465	1	FSSP FAST RESETS	FRESET	CNTS	(N/ 1000.0) - 1000.0
79	79	2497	1	FSSP TOTAL STROBES	FSTROB	CNTS	(N/ 1000.0) - 1000.0
80	80	2529	1	PMS PROBE FSSP RAW COUNT CELL 01	AFSP01	CNTS	(N/ 1000.0) - 1000.0
81	81	2561	1	PMS PROBE FSSP RAW COUNT CELL 02	AFSP02	CNTS	(N/ 1000.0) - 1000.0
82	82	2593	1	PMS PROBE FSSP RAW COUNT CELL 03	AFSP03	CNTS	(N/ 1000.0) - 1000.0

83	83	2625	1	PMS PROBE	FSSP RA	W COUNT CEL	L 04	AFSP04	CNTS	(N/1000.0)	- 1000.	0
84	84	2657	1	PMS PROBE	FSSP RA	W COUNT CEL	L 05	AFSP05	CNTS	(N/1000.0)	- 1000.	0
85	85	2689	1			W COUNT CEL		AFSP06	CNTS	(N/ 1000.0)		
86	86	2721	1			W COUNT CEL		AFSP07	CNTS	(N/ 1000.0)		
87	87	2753	1			W COUNT CEL		AFSP08	CNTS	(N/ 1000.0)	- 1000.	0
88	88	2785	1	PMS PROBE	FSSP RA	W COUNT CEL	L 09	AFSP09	CNTS	(N/1000.0)	- 1000.	0
89	89	2817	1	PMS PROBE	FSSP RA	W COUNT CEL	L 10	AFSP10	CNTS	(N/1000.0)	- 1000.	0
90	90	2849	1			W COUNT CEL		AFSP11	CNTS	(N/ 1000.0)		
91	91											
		2881	1			W COUNT CEL		AFSP12	CNTS	(N/ 1000.0)		
92	92	2913	1	PMS PROBE	FSSP RA	W COUNT CEL	L 13	AFSP13	CNTS	(N/ 1000.0)	- 1000.	0
93	93	2945	1	PMS PROBE	FSSP RA	W COUNT CEL	L 14	AFSP14	CNTS	(N/1000.0)	- 1000.	0
94	94	2977	1	PMS PROBE	FSSP RA	W COUNT CEL	L 15	AFSP15	CNTS	(N/ 1000.0)	- 1000.	0
95	95	3009	1			NCENTRATION		CFSP01	N/CM3	(N/ 1000.0)		
										,		
96	96	3041	1			NCENTRATION		CFSP02	N/CM3	(N/ 1000.0)		
97	97	3073	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 03	CFSP03	N/CM3	(N/ 1000.0)	- 1000.	0
98	98	3105	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 04	CFSP04	N/CM3	(N/1000.0)	- 1000.	0
99	99	3137	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 05	CFSP05	N/CM3	(N/ 1000.0)	- 1000.	0
100	100	3169	1			NCENTRATION		CFSP06	N/CM3	(N/ 1000.0)		
101	101	3201	1			NCENTRATION		CFSP07	N/CM3			
										(N/ 1000.0)		
102	102	3233	1			NCENTRATION		CFSP08	N/CM3	(N/ 1000.0)		
103	103	3265	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 09	CFSP09	N/CM3	(N/1000.0)	- 1000.	0
104	104	3297	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 10	CFSP10	N/CM3	(N/1000.0)	- 1000.	0
105	105	3329	1			NCENTRATION		CFSP11	N/CM3	(N/ 1000.0)		
106	106	3361	1			NCENTRATION		CFSP12	N/CM3	(N/ 1000.0)		
107	107	3393	1			NCENTRATION		CFSP13	N/CM3	(N/ 1000.0)		
108	108	3425	1			NCENTRATION		CFSP14	N/CM3	(N/ 1000.0)	- 1000.	0
109	109	3457	1	FSSP CORR	ECTED CO	NCENTRATION	CELL 15	CFSP15	N/CM3	(N/ 1000.0)	- 1000.	0
110	110	3489	20	AMBIENT T	EMPERATI	RE (BOOM)		ATB	С	(N/ 1000.0)		
111	130	4129	20			RE (REVERSE	ET OW)	ATRF	c	(N/ 1000.0)		
						•	riow)			•		
112	150	4769	20	HORIZONTA				WD	DEG	(N/ 1000.0)		
113	170	5409	20	HORIZONTA	L WIND S	PEED		WS	M/S	(N/1000.0)	- 1000.	0
114	190	6049	20	WIND EAST	COMPONE	INT		UI	M/S	(N/1000.0)	- 1000.	0
115	210	6689	20	WIND NORT	H COMPON	ENT		VI	M/S	(N/ 1000.0)	- 1000.	0
116	230	7329	20	WIND VERT				WI	M/S	(N/ 1000.0)		
										•		
117	250	7969	20			COMPONENT		UX	M/S	(N/ 1000.0)		
118	270	8609	20	WIND LATE	RAL COME	ONENT		VY	M/S	(N/1000.0)	- 1000.	0
119	290	9249	20	POTENTIAL	TEMPERA	TURE		THETA	K	(N/1000.0)	- 1000.	0
120	310	9889	20	EQUIVALEN	T POTENT	'IAL TEMPERA	TURE	THETAE	K	(N/ 1000.0)	- 1000.	0
121	330	10529	20			OLUTE HUMID		RHOLA	G/M3	(N/ 1000.0)		
122									DEG	(N/ 1000.0)		
	350	11169	20	IRS AIRCR				THI				
123	370	11809	20			ITUDE ANGLE		ROLL	DEG	(N/ 1000.0)		
124	390	12449	20	AIRCRAFT	PITCH AT	TITUDE ANGL	E	PITCH	DEG	(N/1000.0)	- 1000.	0
125	410	13089	20	IRS AIRCR	AFT VERT	ICAL ACCELE	RATION	ACINS	M/S2	(N/1000.0)	- 1000.	0
126	430	13729	20			ICAL VELOCI		IVSPD	M/S	(N/ 1000.0)		
127	450	14369	20	IRS GROUN		TOTAL VELOCE		GSI	M/S	(N/ 1000.0)		
										•		
128	470	15009	20			EAST COMPON		VEW	M/S	(N/ 1000.0)		
129	490	15649	20	IRS GROUN	D SPEED	NORTH COMPO	NENT	VNS	M/S	(N/1000.0)	- 1000.	0
130	510	16289	20	AIRCRAFT	TRUE AIF	SPEED (WING	;)	TASW	M/S	(N/1000.0)	- 1000.	0
131	530	16929	20			SPEED (RADO	•	TASR	M/S	(N/ 1000.0)	_ 1000	0
	550											
132		17569	20			PRESSURE (QCWC	MB	(N/ 1000.0)		
133	570	18209	20			PRESSURE (RADOME)	QCRC	MB	(N/ 1000.0)		
134	590	18849	20	RAW DYNAM	IC PRESS	URE (WING)		QCW	MB	(N/1000.0)	- 1000.	0
135	610	19489	20	RAW DYNAM	IC PRESS	URE (RADOME	:)	QCR	MB	(N/1000.0)	- 1000.	0
136	630	20129	20	ATTACK AN			,	AKRD	DEG	(N/ 1000.0)		
137	650	20769	20	SIDESLIP				SSRD	DEG	(N/ 1000.0)		
							(222011)					
138	670	21409	20			AL PRESSURE		ADIFR	MB	(N/ 1000.0)		
139	690	22049	20	SIDESLIP	DIFFEREN	TIAL PRESSU	RE (RADOME)	BDIFR	MB	(N/ 1000.0)		
140	710	22689	20	TOTAL TEM	PERATURE	(BOOM)		TTB	С	(N/1000.0)	- 1000.	0
141	730	23329	20	TOTAL TEM	PERATURE	REVERSE F	LOW)	TTRF	С	(N/ 1000.0)		
142	750	23969	20	RAW LYMAN		`	,	VLA	VDC	(N/ 1000.0)		
143	770	24609	20				MD) > 20	RFLAG	VDC	(N/1000.0)		
						-RHOTD)/RHC			a			
144	790	25249	150	rssP ACCU	MULATED	KAW COUNT(1	-15) HIGH RT	ACCESPH	CNTS	(N/ 1000.0)	- 1000.	U
1												
				2-225		RE2-Cirrus	KingAir 26NO					PAGE 1
HR MI								V91				
1111 1111	SEC	HR		MIN	SEC	TPTIME	PTIME	ALAT	ALON	GLAT	GLON	CLAT
1111	SEC		R	MIN			PTIME	ALAT				
		H		MIN MIN	S	S	PTIME S	ALAT DEG	DEG	DEG	DEG	DEG
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19:60: 20:00: 20:00: 20:00: 20:00: 1 HR MI 19:60: 20:00: 20:00: 20:00: 20:00: 1 HR MI	0.000 1.000 2.000 3.000 4.000 5.000 SEC 0.000 1.000 2.000 3.000 4.000 5.000	HI 20.00 20.	00 00 00 00 00 00 00 00 EG 10 09 08 06 05 04	MIN	S 0.000 1.000 2.000 3.000 4.000 5.000 -RF07 FI DNI KM -0.961 -1.042 -1.121 -1.127 -1.268 -1.340 -RF07 FI RHOCR G/M3	S 72000.000 72001.000 72002.000 72003.000 72004.000 72005.000 RE2-Cirrus PSFDC MB 343.246 343.230 343.218 343.218 343.214 343.174	PTIME S 72000.000 72001.000 72001.000 72003.000 72004.000 72005.000 KingAir 26NO PSWC MB 343.844 343.810 343.802 343.809 343.809 343.808 343.801 KingAir 26NO MR G/KG	ALAT DEG 37.089 37.088 37.087 37.086 37.086 37.086 V91 DPTC C -46.254 -46.202 -46.156 -46.107 -46.064 -46.015 V91 SPHUM G/KG	DEG -95.617 -95.617 -95.616 -95.615 -95.614 -95.612 DPBC C -45.618 -45.610 -45.603 -45.596 -45.590 -45.583 PLWCCZ G/M3	DEG 37.080 37.079 37.078 37.077 37.077 37.076 DPCRC C -44.370 -44.290 -44.177 -44.137 -44.172 -44.218 LWCCZ G/M3	DEG -95.612 -95.610 -95.609 -95.608 -95.607 HGM M 710.648 710.646 710.644 710.644 710.644 710.648	DEG 37.070 37.069 37.069 37.068 37.067 37.067 PAGE 2 PALT M 8247.780 8248.107 8248.350 8248.108 8248.418 8249.230 PAGE 3 CON2P1 N/L
19:60: 20:00: 20:00: 20:00: 20:00: 1 HR MI 19:60: 20:00: 20:00: 20:00: 1 HR MI HR MI	0.000 1.000 2.000 3.000 4.000 5.000 SEC 0.000 1.000 2.000 3.000 4.000 5.000	HI 20.00 20.	00 00 00 00 00 00 00 00 EG 10 009 08 006 005 004	MIN	S 0.000 1.000 2.000 3.000 4.000 5.000 -RF07 FI DNI KM -0.961 -1.042 -1.121 -1.197 -1.268 -1.340 -RF07 FI RHOCR G/M3 0.112	S 72000.000 72001.000 72002.000 72003.000 72004.000 72005.000 RE2-Cirrus PSFDC MB 343.246 343.230 343.218 343.214 343.274 343.174 RE2-Cirrus RHUM PCT 63.765	PTIME S 72000.000 72001.000 72001.000 72003.000 72004.000 72005.000 KingAir 26NO PSWC MB 343.844 343.810 343.802 343.809 343.808 343.801 KingAir 26NO MR G/KG 0.176	ALAT DEG 37.089 37.088 37.088 37.086 37.086 37.086 V91 DPTC C -46.254 -46.202 -46.156 -46.107 -46.064 -46.015 V91 SPHUM G/KG 0.176	DEG -95.617 -95.617 -95.616 -95.615 -95.614 -95.612 DPBC C -45.618 -45.610 -45.603 -45.596 -45.590 -45.583 PLWCCZ G/M3 0.000	DEG 37.080 37.079 37.078 37.077 37.077 37.076 DPCRC C -44.370 -44.290 -44.177 -44.137 -44.1218 LWCCZ G/M3 0.000	DEG -95.612 -95.610 -95.609 -95.608 -95.607 HGM M 710.648 710.646 710.644 710.648 710.642 CON2C1 N/L 6.394	DEG 37.070 37.069 37.069 37.068 37.067 37.067 PAGE 2 PALT M 8247.780 8248.107 8248.350 8248.108 8248.418 8249.230 PAGE 3 CON2P1 N/L 75.767

	20:00: 3.000	0.092	0.098	0.114	64.652	0.179	0.179	0.000	0.000	25.950	86.521
	20:00: 4.000	0.093	0.098	0.114	64.910	0.180	0.180	0.000	0.000	30.490	93.967
1	20:00: 5.000	0.093	0.098	0.113	65.135	0.181	0.181	0.000	0.000	38.062	93.878
1	L		2-2	25-RF07 FIR	E2-Cirrus K	ingAir 26NO	0V91			I	PAGE 4
	HR MI SEC	RICE	SEV	SWT	SWB	IRTC	IRBC	CGS	GVEW	GVNS	PSFD
	10 60 0 000	VDC	vdc	W/M2	W/M2	W/M2	W/M2	M/S	M/S	M/S	MB
	19:60: 0.000 20:00: 1.000	1.457 1.458	8.592 8.591	229.929 231.894	255.884 257.945	129.551 131.125	193.182 191.522	103.137 103.549	73.600 77.600	-86.300 -83.700	343.131 343.119
	20:00: 2.000	1.458	8.592	236.244	261.551	133.532	189.428	104.063	81.500	-81.000	343.107
	20:00: 3.000	1.458	8.592	241.510	265.890	136.009	187.090	104.578	85.200	-78.200	343.125
	20:00: 4.000	1.458	8.592	249.493	268.239	139.094	185.310	105.195	88.800	-75.300	343.112
1	20:00: 5.000	1.458	8.591	259.758	266.917	142.688	184.491	105.195	92.300	-72.100	343.090
-	•		2-2	25-RF07 FIR	E2-Cirrus K	ingAir 26NO	0V91			I	PAGE 5
	HR MI SEC	PSW	CRHP	DPT	DPB	FPCRC	VCRH	PLWC	LWC	IRT	IRB
	19:60: 0.000	MB 345.278	MB 314.264	C -42.443	C -41.835	C -40.664	C -41.452	₩ 0.372	G/M3 0.003	W/M2 -67.484	W/M2 4.114
	20:00: 1.000	345.242	314.204	-42.443	-41.833	-40.588	-41.432	0.372	0.003	-65.973	2.434
	20:00: 2.000	345.234	314.452	-42.349	-41.821	-40.480	-41.263	0.372	0.004	-63.599	0.273
	20:00: 3.000	345.237	314.442	-42.302	-41.815	-40.442	-41.226	0.373	0.003	-61.146	-2.074
	20:00: 4.000	345.234	314.494	-42.262	-41.808	-40.475	-41.257	0.374	0.004	-58.081	-3.879
1	20:00: 5.000	345.214	314.562	-42.215	-41.803	-40.519	-41.298	0.374	0.004	-54.472	-4.777
			2-2	25-RF07 FIR	E2-Cirrus K	ingAir 26NC)V91			I	PAGE 6
	HR MI SEC	DTT	STT	DTB	STB	SDWC1	SDWP1	TWDA1	TWDB1	TWCH1	GALT
	19:60: 0.000	C -36.628	C -35.501	C -35.508	C -34.964	CNTS 148.989	CNTS 1650.512	VDC 0.000	VDC 0.000	VDC 0.000	M 8331.400
	20:00: 1.000	-36.636	-35.501	-35.508	-34.965	189.857	1646.959	0.000	0.000	0.000	8331.900
	20:00: 2.000	-36.642	-35.508	-35.518	-34.968	379.899	1723.851	0.000	0.000	0.000	8332.500
	20:00: 3.000	-36.648	-35.512	-35.522	-34.970	603.133	1879.920	0.000	0.000	0.000	8333.100
	20:00: 4.000 20:00: 5.000	-36.654 -36.658	-35.516 -35.520	-35.525 -35.531	-34.972 -34.973	708.025 879.105	2040.227 2027.426	0.000	0.000	0.000	8333.600 8334.000
1		-30.030	-33.320	-33.331	-34.973	079.103	2027.420	0.000	0.000	0.000	0334.000
					E2-Cirrus K						PAGE 7
	HR MI SEC	GGEOH	GMODE	V10	V10R	TADS	TV10	FLOADS	FZV	FZVR	VDREF
	19:60: 0.000	M -27.800	3.000	VDC 10.000	VDC 9.301	C 17.642	C 19.299	C 21.928	VDC -0.002	VDC -0.006	VDC 0.000
	20:00: 1.000	-27.800	3.000	9.999	9.301	17.636	19.305	21.928	-0.002	-0.007	-0.001
	20:00: 2.000	-27.800	3.000	10.000	9.301	17.642	19.305	21.928	-0.001	-0.006	-0.001
	20:00: 3.000	-27.800	3.000	9.999	9.301	17.648	19.299	21.928	-0.002	-0.007	-0.001
	20:00: 4.000 20:00: 5.000	-27.800 -27.800	3.000 3.000	10.000 9.999	9.301 9.229	17.648 17.642	19.305 19.311	21.941 21.941	-0.001 -0.001	-0.006 -0.007	0.000
1		-27:000	3.000	3.333	3.223	17.042	17.511	21.741	-0.001	-0.007	0.000
			2 2								
					E2-Cirrus K	-					PAGE 8
	HR MI SEC	PLWCF	SUM15F	DBARF	E2-Cirrus K DISPF	ingAir 26NC FACT	DV91 FBMFR	FRANGE	FRESET	FSTROB	AFSP01
		G/M3	SUM15F CNTS	DBARF uM	DISPF	FACT	FBMFR		CNTS	FSTROB CNTS	AFSP01 CNTS
	HR MI SEC 19:60: 0.000 20:00: 1.000		SUM15F	DBARF		-		FRANGE 1.000 1.000		FSTROB	AFSP01
	19:60: 0.000 20:00: 1.000 20:00: 2.000	G/M3 0.012 0.017 0.019	SUM15F CNTS 44.000 58.000 89.000	DBARF uM 23.477 21.966 21.331	0.352 0.371 0.333	FACT 0.003 0.004 0.006	FBMFR 0.605 0.505 0.585	1.000 1.000 1.000	CNTS 820.000 1110.000 1880.000	FSTROB CNTS 71.000 116.000 148.000	AFSP01 CNTS 1.000 2.000 1.000
	19:60: 0.000 20:00: 1.000 20:00: 2.000 20:00: 3.000	G/M3 0.012 0.017 0.019 0.028	SUM15F CNTS 44.000 58.000 89.000 129.000	DBARF uM 23.477 21.966 21.331 22.523	0.352 0.371 0.333 0.329	0.003 0.004 0.006 0.007	FBMFR 0.605 0.505 0.585 0.664	1.000 1.000 1.000 1.000	CNTS 820.000 1110.000 1880.000 2240.000	FSTROB CNTS 71.000 116.000 148.000 193.000	AFSP01 CNTS 1.000 2.000 1.000
	19:60: 0.000 20:00: 1.000 20:00: 2.000 20:00: 3.000 20:00: 4.000	G/M3 0.012 0.017 0.019 0.028 0.030	SUM15F CNTS 44.000 58.000 89.000 129.000 137.000	DBARF uM 23.477 21.966 21.331 22.523 22.069	0.352 0.371 0.333 0.329 0.353	FACT 0.003 0.004 0.006 0.007 0.007	FBMFR 0.605 0.505 0.585 0.664 0.663	1.000 1.000 1.000	CNTS 820.000 1110.000 1880.000 2240.000 2210.000	FSTROB CNTS 71.000 116.000 148.000 193.000 201.000	AFSP01 CNTS 1.000 2.000 1.000 1.000 3.000
1	19:60: 0.000 20:00: 1.000 20:00: 2.000 20:00: 3.000 20:00: 4.000 20:00: 5.000	G/M3 0.012 0.017 0.019 0.028	SUM15F CNTS 44.000 58.000 89.000 129.000	DBARF uM 23.477 21.966 21.331 22.523	0.352 0.371 0.333 0.329	0.003 0.004 0.006 0.007	FBMFR 0.605 0.505 0.585 0.664	1.000 1.000 1.000 1.000 1.000	CNTS 820.000 1110.000 1880.000 2240.000	FSTROB CNTS 71.000 116.000 148.000 193.000	AFSP01 CNTS 1.000 2.000 1.000
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19:60: 0.100	-42.089	-41.500	240.999	18.277	15.985	8.861	0.415	2.484	18.107	313.639
19:60: 0.150	-42.089	-41.474	240.814	18.341	16.013	8.944	0.500	2.468	18.174	313.636
19:60: 0.200	-42.079	-41.509	241.077	18.382	16.089	8.890	0.608	2.592	18.198	313.649
19:60: 0.250	-42.093	-41.518	240.631	18.302	15.950	8.976	0.562	2.473	18.134	313.630
19:60: 0.300	-42.108	-41.521	240.159	18.242	15.823	9.077	0.455	2.350	18.090	313.611
19:60: 0.350	-42.095	-41.498	240.523	18.218	15.860	8.965	0.496	2.496	18.046	313.632
19:60: 0.400	-42.095	-41.507	240.541	18.257	15.896	8.979	0.534	2.541	18.079	313.635
19:60: 0.450	-42.100	-41.515	240.575	18.257	15.902	8.969	0.556	2.587	18.073	313.629
19:60: 0.500	-42.094	-41.561	240.738	18.185	15.865	8.889	0.527	2.661	17.989	313.637
19:60: 0.550	-42.092	-41.516	240.899	18.261	15.955	8.881	0.474	2.757	18.051	313.640
19:60: 0.600	-42.085	-41.479	240.995	18.330	16.031	8.888	0.534	2.832	18.110	313.649
19:60: 0.650	-42.087	-41.465	241.028	18.375	16.076	8.901	0.642	2.885	18.148	313.646
19:60: 0.700	-42.082	-41.501	241.056	18.430	16.128	8.919	0.626	2.937	18.195	313.649
19:60: 0.750	-42.083	-41.516	241.554	18.319	16.108	8.726	0.509	3.111	18.053	313.646
19:60: 0.800	-42.087	-41.539	241.355	18.288	16.050	8.767	0.534	3.078	18.027	313.638
19:60: 0.850	-42.082	-41.498	241.378	18.367	16.122	8.798	0.531	3.134	18.097	313.644
19:60: 0.900	-42.096	-41.568	241.123	18.260	15.989	8.818	0.515	3.071	18.000	313.625
19:60: 0.950	-42.089	-41.488	241.231	18.371	16.103	8.842	0.567	3.159	18.097	313.635
20:00: 1.000	-42.097	-41.551	240.989	18.283	15.989	8.867	0.643	3.104	18.017	313.624
20:00: 1.050	-42.092	-41.531	241.061	18.227	15.951	8.820	0.676	3.153	17.952	313.632
20:00: 1.100	-42.089	-41.484	241.252	18.227	15.980	8.766	0.659	3.249	17.935	313.639
20:00: 1.150	-42.094	-41.497	241.114	18.170	15.909	8.777	0.607	3.233	17.880	313.635
20:00: 1.200	-42.087	-41.489	241.257	18.198	15.956	8.751	0.553	3.320	17.893	313.647
20:00: 1.250	-42.082	-41.508	241.281	18.061	15.839	8.679	0.555	3.339	17.750	313.654
20:00: 1.300	-42.081	-41.552	241.106	17.766	15.555	8.584	0.573	3.267	17.463	313.654
20:00: 1.350	-42.084	-41.554	241.045	17.736	15.519	8.586	0.590	3.280	17.430	313.649
20:00: 1.400	-42.094	-41.555	240.806	17.679	15.433	8.623	0.621	3.234	17.381	313.635
20:00: 1.450	-42.086	-41.535	240.976	17.783	15.549	8.628	0.773	3.341	17.466	313.649
20:00: 1.500	-42.094	-41.515	240.910	17.794	15.550	8.651	0.745	3.362	17.474	313.641
20:00: 1.550	-42.088	-41.535	240.852	17.778	15.527	8.659	0.744	3.380	17.454	313.651
20:00: 1.600	-42.070	-41.509	241.388	17.832	15.655	8.540	0.744	3.594	17.466	313.679
20:00: 1.650	-42.071	-41.528	241.400	17.909	15.724	8.573	0.694	3.655	17.532	313.678
					15.694					
20:00: 1.700	-42.069	-41.545	241.622	17.837		8.478	0.503	3.749	17.439	313.681
20:00: 1.750	-42.081	-41.527	241.064	17.838	15.611	8.631	0.435	3.621	17.466	313.663
20:00: 1.800	-42.089	-41.495	240.883	17.707	15.469	8.616	0.449	3.582	17.341	313.651
20:00: 1.850	-42.087	-41.553	240.691	17.793	15.515	8.710	0.393	3.585	17.428	313.652
20:00: 1.900	-42.084	-41.566	240.563	17.821	15.520	8.759	0.441	3.596	17.455	313.653
20:00: 1.950	-42.076	-41.530	240.801	17.837	15.570	8.702	0.387	3.716	17.446	313.661
20:00: 2.000	-42.089	-41.605	240.412	17.814	15.491	8.796	0.283	3.638	17.439	313.642
20:00: 2.050	-42.080	-41.578	240.403	17.834	15.507	8.808	0.287	3.684	17.450	313.653
20:00: 2.100	-42.072	-41.556	240.585	17.836	15.537	8.760	0.333	3.785	17.430	313.665
20:00: 2.150	-42.061	-41.565	241.038	17.914	15.674	8.674	0.428	3.986	17.465	313.681
20:00: 2.200	-42.069	-41.542	241.199	17.887	15.674	8.618	0.513	4.074	17.417	313.672
20:00: 2.200	-42.069	-41.542	241.199	17.887	15.674	8.618	0.513	4.074	17.417	313.672
20:00: 2.250	-42.063	-41.536	241.251	17.870	15.667	8.595	0.638	4.132	17.386	313.680
20:00: 2.250 20:00: 2.300	-42.063 -42.062	-41.536 -41.516	241.251 241.560	17.870 17.923	15.667 15.760	8.595 8.536	0.638 0.727	4.132 4.284	17.386 17.404	313.680 313.683
20:00: 2.250	-42.063	-41.536	241.251	17.870	15.667	8.595	0.638	4.132	17.386	313.680
20:00: 2.250 20:00: 2.300	-42.063 -42.062	-41.536 -41.516	241.251 241.560	17.870 17.923	15.667 15.760	8.595 8.536	0.638 0.727	4.132 4.284	17.386 17.404	313.680 313.683
20:00: 2.250 20:00: 2.300 20:00: 2.350 20:00: 2.400	-42.063 -42.062 -42.065 -42.059	-41.536 -41.516 -41.592 -41.586	241.251 241.560 241.577 241.876	17.870 17.923 17.864 17.837	15.667 15.760 15.711 15.731	8.595 8.536 8.503 8.408	0.638 0.727 0.701 0.657	4.132 4.284 4.320 4.450	17.386 17.404 17.334 17.273	313.680 313.683 313.678 313.687
20:00: 2.250 20:00: 2.300 20:00: 2.350 20:00: 2.400 20:00: 2.450	-42.063 -42.062 -42.065 -42.059 -42.069	-41.536 -41.516 -41.592 -41.586 -41.550	241.251 241.560 241.577 241.876 241.777	17.870 17.923 17.864 17.837 17.963	15.667 15.760 15.711 15.731 15.828	8.595 8.536 8.503 8.408 8.495	0.638 0.727 0.701 0.657 0.820	4.132 4.284 4.320 4.450 4.496	17.386 17.404 17.334 17.273 17.392	313.680 313.683 313.678 313.687 313.672
20:00: 2.250 20:00: 2.300 20:00: 2.350 20:00: 2.400 20:00: 2.450 20:00: 2.500	-42.063 -42.062 -42.065 -42.059 -42.069 -42.073	-41.536 -41.516 -41.592 -41.586 -41.550 -41.545	241.251 241.560 241.577 241.876 241.777 241.651	17.870 17.923 17.864 17.837 17.963 18.077	15.667 15.760 15.711 15.731 15.828 15.909	8.595 8.536 8.503 8.408 8.495 8.584	0.638 0.727 0.701 0.657 0.820 0.809	4.132 4.284 4.320 4.450 4.496 4.531	17.386 17.404 17.334 17.273 17.392 17.500	313.680 313.683 313.678 313.687 313.672 313.664
20:00: 2.250 20:00: 2.300 20:00: 2.350 20:00: 2.400 20:00: 2.450 20:00: 2.500 20:00: 2.550	-42.063 -42.062 -42.065 -42.059 -42.069 -42.073 -42.057	-41.536 -41.516 -41.592 -41.586 -41.550 -41.545 -41.492	241.251 241.560 241.577 241.876 241.777 241.651 241.955	17.870 17.923 17.864 17.837 17.963 18.077 18.064	15.667 15.760 15.711 15.731 15.828 15.909 15.943	8.595 8.536 8.503 8.408 8.495 8.584 8.493	0.638 0.727 0.701 0.657 0.820 0.809 0.731	4.132 4.284 4.320 4.450 4.496 4.531 4.665	17.386 17.404 17.334 17.273 17.392 17.500 17.451	313.680 313.683 313.678 313.687 313.672 313.664 313.684
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20:00: 2.250 20:00: 2.300 20:00: 2.350 20:00: 2.400 20:00: 2.450 20:00: 2.500 20:00: 2.550	-42.063 -42.062 -42.065 -42.059 -42.069 -42.073 -42.057	-41.536 -41.516 -41.592 -41.586 -41.550 -41.545 -41.492	241.251 241.560 241.577 241.876 241.777 241.651 241.955	17.870 17.923 17.864 17.837 17.963 18.077 18.064	15.667 15.760 15.711 15.731 15.828 15.909 15.943	8.595 8.536 8.503 8.408 8.495 8.584 8.493	0.638 0.727 0.701 0.657 0.820 0.809 0.731	4.132 4.284 4.320 4.450 4.496 4.531 4.665	17.386 17.404 17.334 17.273 17.392 17.500 17.451	313.680 313.683 313.678 313.687 313.672 313.664 313.684
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20:00: 4.350	-42.054	-41.552	241.559	17.912	15.751	8.531	1.205	5.813	16.943	313.694
20:00: 4.400	-42.053	-41.510	241.828	17.918	15.795	8.459	1.155	5.928	16.909	313.696
20:00: 4.450	-42.038	-41.539	241.992	18.008	15.899	8.456	1.406	6.040	16.965	313.715
20:00: 4.500	-42.043	-41.558	241.868	18.201	16.051	8.582	1.397	6.102	17.148	313.705
20:00: 4.550	-42.040	-41.547	242.100	18.312	16.184	8.569	1.333	6.244	17.215	313.707
20:00: 4.600										
	-42.031	-41.503	242.698	18.456	16.400	8.465	1.495	6.509	17.270	313.720
20:00: 4.650	-42.049	-41.501	242.480	18.524	16.428	8.559	1.523	6.503	17.345	313.696
20:00: 4.700	-42.041	-41.492	242.938	18.497	16.472	8.415	1.511	6.669	17.253	313.710
20:00: 4.750	-42.043	-41.504	243.354	18.280	16.339	8.198	1.468	6.751	16.988	313.710
20:00: 4.800	-42.026	-41.495	243.916	18.481	16.599	8.126	1.417	7.029	17.092	313.738
20:00: 4.850	-42.035	-41.523	244.234	18.221	16.409	7.921	1.243	7.058	16.798	313.728
20:00: 4.900	-42.055	-41.566	243.680	18.381	16.476	8.150	1.168	6.992	16.999	313.703
20:00: 4.950	-42.053	-41.553	243.660	18.422	16.510	8.174	0.986	7.037	17.025	313.707
20:00: 5.000	-42.059	-41.570	243.174	18.311	16.341	8.263	0.806	6.887	16.967	313.700
20:00: 5.050	-42.051	-41.585	243.450	18.336	16.402	8.196	0.835	7.014	16.941	313.711
20:00: 5.100	-42.045	-41.570	243.623	18.400	16.484	8.175	0.816	7.127	16.964	313.720
20:00: 5.150	-42.041	-41.587	243.315	18.706	16.713	8.401	0.984	7.189	17.269	313.725
	-42.032			18.830	16.867	8.372	1.093	7.362	17.332	313.740
20:00: 5.200		-41.507	243.603							
20:00: 5.250	-42.057	-41.575	242.770	18.800	16.717	8.602	1.206	7.136	17.393	313.705
20:00: 5.300	-42.035	-41.577	243.154	18.862	16.829	8.518	1.045	7.313	17.387	313.740
20:00: 5.350	-42.027	-41.563	244.062	18.743	16.855	8.198	1.112	7.577	17.143	313.754
20:00: 5.400	-42.027	-41.549	244.260	18.671	16.819	8.109	1.105	7.644	17.035	313.756
20:00: 5.450	-42.040	-41.514	244.110	18.476	16.622	8.068	0.963	7.556	16.861	313.736
20:00: 5.500	-42.038	-41.528	244.204	18.450	16.612	8.029	0.908	7.609	16.808	313.736
20:00: 5.550	-42.044	-41.574	243.967	18.303	16.446	8.033	0.928	7.514	16.690	313.724
20:00: 5.600	-42.037	-41.571	244.194	18.249	16.429	7.944	0.906	7.591	16.596	313.731
20:00: 5.650	-42.036	-41.598	244.281	18.352	16.534	7.964	0.942	7.692	16.662	313.734
20:00: 5.700	-42.035	-41.580	244.344	18.479	16.657	8.001	0.886	7.798	16.753	313.736
20:00: 5.750	-42.023	-41.557	245.112	18.423	16.712	7.753	1.052	8.031	16.581	313.753
20:00: 5.800	-42.040	-41.548	244.976	18.491	16.756	7.822	0.908	8.054	16.645	313.729
20:00: 5.850	-42.042	-41.542	244.775	18.527	16.761	7.896	0.912	8.044	16.690	313.725
20:00: 5.900	-42.033	-41.529	244.761	18.676	16.893	7.963	1.115	8.137	16.809	313.735
20:00: 5.950	-42.030	-41.582	244.928	18.783	17.013	7.959	1.142	8.267	16.866	313.738
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				E2-Cirrus K						PAGE 14
HR MI SEC	THETAE	RHOLA	THI	ROLL	PITCH	ACINS	IVSPD	GSI	VEW	VNS
	K	G/M3	DEG	DEG	DEG	M/S2	M/S	M/S	M/S	M/S
19:60: 0.000	314.326	0.070	143.403	-25.068	3.355	-0.033	0.637	114.704	79.447	-82.807
19:60: 0.050	314.314	0.070	143.296	-25.052	3.361	-0.052	0.641	114.734	79.640	-82.671
19:60: 0.100	314.323	0.070	143.187	-25.041	3.367	-0.079	0.644	114.758	79.827	-82.535
19:60: 0.150	314.321	0.071	143.081	-25.039	3.368	-0.067	0.647	114.782	80.019	-82.401
19:60: 0.200	314.334	0.071	142.972	-25.037	3.378	-0.024	0.651	114.812	80.205	-82.266
19:60: 0.250	314.315	0.071	142.866	-25.039	3.382	0.067	0.659	114.862	80.368	-82.130
19:60: 0.300	314.296	0.070	142.758	-25.041	3.390	0.086	0.667	114.919	80.530	-81.994
						0.086	0.667			
19:60: 0.350	314.317	0.070	142.648	-25.047	3.390	0.086 -0.017	0.667 0.676	114.976	80.716	-81.855
19:60: 0.350 19:60: 0.400	314.317 314.321	0.070 0.070	142.648 142.539	-25.047 -25.052	3.390 3.390	0.086 -0.017 -0.045	0.667 0.676 0.680	114.976 115.027	80.716 80.909	-81.855 -81.723
19:60: 0.350 19:60: 0.400 19:60: 0.450	314.317 314.321 314.315	0.070 0.070 0.070	142.648 142.539 142.430	-25.047 -25.052 -25.060	3.390 3.390 3.390	0.086 -0.017 -0.045 -0.089	0.667 0.676 0.680 0.683	114.976 115.027 115.058	80.716 80.909 81.099	-81.855 -81.723 -81.619
19:60: 0.350 19:60: 0.400	314.317 314.321	0.070 0.070	142.648 142.539	-25.047 -25.052	3.390 3.390	0.086 -0.017 -0.045	0.667 0.676 0.680	114.976 115.027	80.716 80.909	-81.855 -81.723
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500	314.317 314.321 314.315 314.323	0.070 0.070 0.070 0.071	142.648 142.539 142.430 142.324	-25.047 -25.052 -25.060 -25.064	3.390 3.390 3.390 3.394	0.086 -0.017 -0.045 -0.089 -0.014	0.667 0.676 0.680 0.683 0.689	114.976 115.027 115.058 115.082	80.716 80.909 81.099 81.289	-81.855 -81.723 -81.619 -81.508
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550	314.317 314.321 314.315 314.323 314.326	0.070 0.070 0.070 0.071 0.069	142.648 142.539 142.430 142.324 142.215	-25.047 -25.052 -25.060 -25.064 -25.074	3.390 3.390 3.390 3.394 3.400	0.086 -0.017 -0.045 -0.089 -0.014 0.091	0.667 0.676 0.680 0.683 0.689 0.700	114.976 115.027 115.058 115.082 115.109	80.716 80.909 81.099 81.289 81.478	-81.855 -81.723 -81.619 -81.508 -81.348
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.600	314.317 314.321 314.315 314.323 314.326 314.335	0.070 0.070 0.070 0.071 0.069 0.070	142.648 142.539 142.430 142.324 142.215 142.106	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084	3.390 3.390 3.390 3.394 3.400 3.402	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010	0.667 0.676 0.680 0.683 0.689 0.700	114.976 115.027 115.058 115.082 115.109 115.136	80.716 80.909 81.099 81.289 81.478 81.667	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.600 19:60: 0.650	314.317 314.321 314.315 314.323 314.326 314.335 314.332	0.070 0.070 0.070 0.071 0.069 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097	3.390 3.390 3.390 3.394 3.400 3.402 3.401	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028	0.667 0.676 0.680 0.683 0.689 0.700 0.702	114.976 115.027 115.058 115.082 115.109 115.136 115.160	80.716 80.909 81.099 81.289 81.478 81.667 81.857	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.600	314.317 314.321 314.315 314.323 314.326 314.335	0.070 0.070 0.070 0.071 0.069 0.070	142.648 142.539 142.430 142.324 142.215 142.106	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084	3.390 3.390 3.390 3.394 3.400 3.402	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010	0.667 0.676 0.680 0.683 0.689 0.700	114.976 115.027 115.058 115.082 115.109 115.136	80.716 80.909 81.099 81.289 81.478 81.667	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.550 19:60: 0.660 19:60: 0.700	314.317 314.321 314.315 314.323 314.326 314.335 314.332 314.336	0.070 0.070 0.070 0.071 0.069 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.107	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.190	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.550 19:60: 0.660 19:60: 0.700 19:60: 0.750	314.317 314.321 314.315 314.323 314.326 314.335 314.332 314.336 314.333	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.107 -25.120	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.190 115.241	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.600 19:60: 0.650 19:60: 0.700 19:60: 0.750 19:60: 0.800	314.317 314.321 314.315 314.323 314.326 314.335 314.332 314.336 314.333 314.325	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.107 -25.120 -25.146	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.190 115.241 115.299	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.6600 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.800 19:60: 0.850	314.317 314.321 314.315 314.323 314.326 314.335 314.336 314.336 314.333 314.325	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666 141.554	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.107 -25.120 -25.146 -25.163	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406 3.406 3.408	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425 82.645	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.600 19:60: 0.650 19:60: 0.700 19:60: 0.750 19:60: 0.800	314.317 314.321 314.315 314.323 314.326 314.335 314.332 314.336 314.333 314.325	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.107 -25.120 -25.146	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.190 115.241 115.299	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.660 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.800 19:60: 0.850 19:60: 0.850	314.317 314.321 314.315 314.323 314.326 314.335 314.332 314.333 314.333 314.333 314.332 314.332	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.887 141.778 141.666 141.554	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.107 -25.120 -25.146 -25.163 -25.185	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406 3.406 3.408 3.406	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.729 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425 82.645 82.859	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.600 19:60: 0.650 19:60: 0.700 19:60: 0.750 19:60: 0.850 19:60: 0.850 19:60: 0.900 19:60: 0.950	314.317 314.321 314.323 314.323 314.335 314.332 314.336 314.333 314.325 314.332 314.312 314.312	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666 141.554 141.441	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.107 -25.120 -25.146 -25.163 -25.185 -25.206	3.390 3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406 3.406 3.408 3.406 3.404	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177 -0.165	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.727 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408 115.438	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425 82.645 82.859 83.026	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315 -80.173
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.650 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.850 19:60: 0.850 19:60: 0.950 20:00: 1.000	314.317 314.321 314.315 314.323 314.336 314.332 314.333 314.333 314.325 314.332 314.332 314.332 314.313	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666 141.554 141.441 141.329 141.214	-25.047 -25.052 -25.060 -25.064 -25.084 -25.084 -25.107 -25.120 -25.146 -25.163 -25.185 -25.206 -25.236	3.390 3.390 3.390 3.394 3.400 3.401 3.406 3.406 3.406 3.406 3.406 3.406 3.406 3.404	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177 -0.165 -0.088	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.729 0.723 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408 115.438 115.438	80.716 80.909 81.099 81.289 81.478 81.667 82.047 82.232 82.425 82.645 82.859 83.026 83.185	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315 -80.173 -80.044
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.800 19:60: 0.850 19:60: 0.900 19:60: 0.950 20:00: 1.000	314.317 314.321 314.325 314.326 314.335 314.336 314.336 314.333 314.325 314.332 314.312 314.312 314.323	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.778 141.666 141.554 141.441 141.329 141.214	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.120 -25.120 -25.146 -25.163 -25.206 -25.236 -25.236	3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406 3.406 3.406 3.408 3.406 3.404 3.402	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177 -0.165 -0.088 -0.038	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.729 0.723 0.723 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408 115.438 115.438	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425 82.645 82.859 83.026 83.185 83.371	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315 -80.173 -80.044 -79.940
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.550 19:60: 0.650 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.850 19:60: 0.850 19:60: 0.950 20:00: 1.000	314.317 314.321 314.315 314.323 314.336 314.332 314.333 314.333 314.325 314.332 314.332 314.332 314.313	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.887 141.778 141.666 141.554 141.441 141.329 141.214	-25.047 -25.052 -25.060 -25.064 -25.084 -25.084 -25.107 -25.120 -25.146 -25.163 -25.185 -25.206 -25.236	3.390 3.390 3.390 3.394 3.400 3.401 3.406 3.406 3.406 3.406 3.406 3.406 3.406 3.404	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177 -0.165 -0.088	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.729 0.723 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408 115.438 115.438	80.716 80.909 81.099 81.289 81.478 81.667 82.047 82.232 82.425 82.645 82.859 83.026 83.185	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315 -80.173 -80.044
19:60: 0.350 19:60: 0.400 19:60: 0.450 19:60: 0.500 19:60: 0.550 19:60: 0.650 19:60: 0.750 19:60: 0.750 19:60: 0.800 19:60: 0.850 19:60: 0.900 19:60: 0.950 20:00: 1.000	314.317 314.321 314.325 314.326 314.335 314.336 314.336 314.333 314.325 314.332 314.312 314.312 314.323	0.070 0.070 0.070 0.071 0.069 0.070 0.070 0.070 0.070 0.070 0.070 0.070 0.070	142.648 142.539 142.430 142.324 142.215 142.106 141.996 141.778 141.666 141.554 141.441 141.329 141.214	-25.047 -25.052 -25.060 -25.064 -25.074 -25.084 -25.097 -25.120 -25.120 -25.146 -25.163 -25.206 -25.236 -25.236	3.390 3.390 3.394 3.400 3.402 3.401 3.406 3.406 3.406 3.406 3.408 3.406 3.404 3.402	0.086 -0.017 -0.045 -0.089 -0.014 0.091 0.010 -0.028 -0.007 0.009 -0.019 -0.056 -0.177 -0.165 -0.088 -0.038	0.667 0.676 0.680 0.683 0.689 0.700 0.702 0.710 0.716 0.719 0.727 0.729 0.723 0.723 0.723	114.976 115.027 115.058 115.082 115.109 115.136 115.160 115.241 115.299 115.357 115.408 115.438 115.438	80.716 80.909 81.099 81.289 81.478 81.667 81.857 82.047 82.232 82.425 82.645 82.859 83.026 83.185 83.371	-81.855 -81.723 -81.619 -81.508 -81.348 -81.182 -81.043 -80.911 -80.779 -80.641 -80.478 -80.315 -80.173 -80.044 -79.940
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20:00: 2.600	314.363	0.070	136.842	-25.341	3.367	0.263	0.702	116.544	88.924	-75.387
20:00: 2.650	314.365	0.071	136.699	-25.360	3.361	0.186	0.718	116.567	89.145	-75.228
20:00: 2.700	314.357	0.070	136.559	-25.380	3.347	0.010	0.726	116.598	89.358	-75.063
20:00: 2.750	314.361	0.070	136.420	-25.399	3.337	-0.088	0.724	116.652	89.527	-74.869
20:00: 2.800	314.367	0.070	136.285	-25.426	3.324	-0.029	0.727	116.707	89.682	-74.683
20:00: 2.850	314.382	0.070	136.153	-25.450	3.312	0.003	0.735	116.737	89.842	-74.545
20:00: 2.900	314.351	0.070	136.022	-25.469	3.308	-0.093	0.732	116.761	90.008	-74.413
20:00: 2.950	314.351	0.070	135.895	-25.491	3.297	-0.176	0.731	116.788	90.193	-74.254
	314.331	0.070	133.693	-23.491	3.291	-0.176	0.731	110.700	90.193	-/4.234
1										
		2-22	25-RF07 FIR	E2-Cirrus Ki	ingAir 26NO	791			I	PAGE 15
HR MI SEC	THETAE	RHOLA	THI	ROLL	PITCH	ACINS	IVSPD	GSI	VEW	VNS
	K	G/M3	DEG	DEG	DEG	M/S2	M/S	M/S	M/S	M/S
20:00: 3.000	314.365	0.070	135.767	-25.516	3.289	-0.187	0.727	116.815	90.386	-74.088
20:00: 3.050	314.350	0.070	135.640	-25.536	3.285	-0.030	0.731	116.839	90.579	-73.925
20:00: 3.100	314.362	0.071	135.515	-25.547	3.285	0.091	0.731	116.869	90.766	-73.762
20:00: 3.150	314.374	0.071	135.390	-25.575	3.283	0.119	0.745	116.920	90.929	-73.600
20:00: 3.200	314.368	0.070	135.266	-25.586	3.285	0.024	0.752	116.978	91.092	-73.438
20:00: 3.250	314.362	0.071	135.142	-25.606	3.285	-0.095	0.747	117.036	91.281	-73.275
20:00: 3.300	314.364	0.070	135.020	-25.625	3.285	-0.055	0.744	117.087	91.470	-73.112
20:00: 3.350	314.369	0.070	134.901	-25.639	3.285	0.006	0.748	117.117	91.633	-72.954
20:00: 3.400	314.360	0.070	134.783	-25.652	3.285	0.022	0.748	117.141	91.796	-72.789
20:00: 3.450	314.353	0.071	134.666	-25.676	3.287	0.023	0.748	117.168	91.985	-72.598
20:00: 3.500	314.364	0.071	134.548	-25.692	3.293	-0.045	0.749	117.195	92.174	-72.408
20:00: 3.550	314.376	0.070	134.432	-25.701	3.297	-0.071	0.745	117.219	92.340	-72.243
20:00: 3.600	314.362	0.071	134.317	-25.715	3.300	0.077	0.752	117.250	92.499	-72.085
20:00: 3.650	314.358	0.071	134.204	-25.727	3.307	0.187	0.762	117.299	92.658	-71.925
20:00: 3.700	314.364	0.071	134.090	-25.730	3.312	0.141	0.774	117.356	92.823	-71.759
	314.371	0.071	133.976	-25.730	3.318	0.089	0.780		93.013	-71.569
20:00: 3.750								117.414		
20:00: 3.800	314.379	0.071	133.861	-25.730	3.328	0.105	0.792	117.465	93.203	-71.379
20:00: 3.850	314.372	0.071	133.746	-25.728	3.336	0.211	0.804	117.495	93.365	-71.214
20:00: 3.900	314.377	0.071	133.634	-25.727	3.340	0.206	0.815	117.519	93.527	-71.055
20:00: 3.950	314.378	0.071	133.520	-25.719	3.341	0.130	0.829	117.546	93.717	-70.896
20:00: 4.000	314.358	0.071	133.408	-25.711	3.343	0.024	0.835	117.573	93.907	-70.729
20:00: 4.050	314.377	0.071	133.295	-25.706	3.347	0.060	0.838	117.600	94.073	-70.540
20:00: 4.100	314.384	0.071	133.183	-25.692	3.343	0.155	0.843	117.628	94.233	-70.351
20:00: 4.150	314.363	0.070	133.071	-25.676	3.343	0.188	0.855	117.655	94.391	-70.185
20:00: 4.200	314.398	0.071	132.959	-25.652	3.340	0.117	0.860	117.682	94.557	-70.026
20:00: 4.250	314.388	0.070	132.846	-25.631	3.331	0.006	0.861	117.706	94.747	-69.867
20:00: 4.300	314.379	0.071	132.732	-25.610	3.328	0.069	0.867	117.736	94.937	-69.702
20:00: 4.350	314.393	0.071	132.621	-25.587	3.322	0.181	0.877	117.790	95.102	-69.512
20:00: 4.400	314.394	0.071	132.510	-25.567	3.320	0.230	0.882	117.845	95.260	-69.322
20:00: 4.450	314.414	0.073	132.397	-25.548	3.318	0.193	0.890	117.875	95.420	-69.155
20:00: 4.500	314.404	0.074	132.279	-25.528	3.312	0.220	0.894	117.899	95.586	-68.996
20:00: 4.550	314.407	0.073	132.165	-25.510	3.312	0.228	0.902	117.926	95.775	-68.834
20:00: 4.600	314.420	0.075	132.047	-25.493	3.316	0.323	0.911	117.953	95.964	-68.672
20:00: 4.650	314.397	0.074	131.927	-25.479	3.316	0.370	0.923	117.977	96.130	-68.513
20:00: 4.700	314.411	0.074	131.805	-25.477	3.316	0.366	0.936	118.008	96.290	-68.346
20:00: 4.750	314.411	0.073	131.681	-25.479	3.312	0.287	0.949	118.058	96.450	-68.157
20:00: 4.800	314.439	0.074	131.562	-25.489	3.305	0.165	0.950	118.114	96.616	-67.968
20:00: 4.850	314.429	0.071	131.444	-25.514	3.289	0.170	0.955	118.172	96.805	-67.806
20:00: 4.900	314.404	0.071	131.323	-25.544	3.273	0.110	0.958	118.223	96.994	-67.643
20:00: 4.950	314.409	0.071	131.203	-25.569	3.256	-0.085	0.956	118.253	97.163	-67.454
20:00: 5.000	314.401	0.071	131.080	-25.586	3.238	-0.280	0.939	118.277	97.319	-67.265
20:00: 5.050	314.413	0.071	130.959	-25.609	3.223	-0.428	0.921	118.301	97.451	-67.102
20:00: 5.100	314.422	0.071	130.835	-25.633	3.207	-0.270	0.903	118.331	97.589	-66.939
20:00: 5.150	314.428	0.071	130.713	-25.644	3.199	-0.227	0.885	118.386	97.776	-66.749
20:00: 5.200	314.442	0.072	130.713	-25.664	3.191	-0.268	0.875	118.440	97.969	-66.559
20:00: 5.250	314.407	0.071	130.465	-25.685	3.189	-0.275	0.860	118.471	98.134	-66.393
20:00: 5.300	314.442	0.071	130.341	-25.711	3.191	-0.189	0.845	118.494	98.293	-66.235
20:00: 5.350	314.457	0.073	130.218	-25.729	3.197	-0.078	0.839	118.518	98.459	-66.076
20:00: 5.400	314.458	0.073	130.094	-25.730	3.199	-0.038	0.835	118.549	98.619	-65.909
20:00: 5.450	314.439	0.071	129.971	-25.738	3.203	-0.184	0.832	118.599	98.754	-65.720
20:00: 5.500	314.439	0.071	129.848	-25.742	3.203	-0.359	0.817	118.657	98.890	-65.531
20:00: 5.550	314.428	0.071	129.729	-25.742	3.203	-0.351	0.805	118.715	99.048	-65.368
20:00: 5.600	314.434	0.071	129.614	-25.742	3.203	-0.280	0.792	118.766	99.214	-65.205
20:00: 5.650	314.437	0.071	129.499	-25.737	3.203	-0.239	0.783	118.796	99.373	-65.016
20:00: 5.700	314.439	0.071	129.384	-25.723	3.203	-0.206	0.778	118.820	99.540	-64.827
20:00: 5.750	314.457	0.071	129.269	-25.706	3.207	-0.338	0.766	118.846	99.729	-64.664
20:00: 5.800	314.433	0.071	129.154	-25.672	3.207	-0.316	0.752	118.872	99.918	-64.502
20:00: 5.850	314.429	0.071	129.042	-25.637	3.213	-0.160	0.747	118.896	100.087	-64.313
20:00: 5.900	314.440	0.071	128.929	-25.598	3.219	-0.045	0.743	118.927	100.243	-64.124
20:00: 5.950	314.443	0.072	128.817	-25.543	3.227	-0.071	0.738	118.978	100.383	-63.957
1										
=		2 2	25_RF07 ETP	E2-Cirrus Ki	ngAir 26NO	791			т	PAGE 16
IID MT CEC	ma ora						AUDD	CCDD		
HR MI SEC	TASW	TASR	QCWC	QCRC	QCW	QCR	AKRD	SSRD	ADIFR	BDIFR
	M/S	M/S	MB	MB	MB	MB	DEG	DEG	MB	MB
19:60: 0.000	111.876	111.592	33.495	33.315	32.096	33.140	3.696	0.275	9.976	0.777
19:60: 0.050	111.863	111.610	33.488	33.328	32.089	33.156	3.682	0.238	9.942	0.685
19:60: 0.100	111.871	111.478	33.495	33.246	32.096	33.071	3.685	0.228	9.926	0.658
19:60: 0.150	111.870	111.531	33.495	33.280	32.095	33.096	3.739	0.230	10.086	0.663
19:60: 0.200	111.880	111.438	33.502	33.221	32.102	33.026	3.790	0.211	10.213	0.616
19:60: 0.250	111.853	111.572	33.484	33.306	32.085	33.120	3.760	0.189	10.156	0.562
19:60: 0.300	111.871	111.711	33.495	33.394	32.096	33.222	3.700	0.189	10.010	0.565
19:60: 0.350	111.868	111.594	33.492	33.318	32.093	33.142	3.710	0.151	10.016	0.469
19:60: 0.400	111.864	111.588	33.488	33.313	32.089	33.134	3.729	0.152	10.069	0.472
19:60: 0.450	111.859	111.603	33.485	33.323	32.086	33.143	3.737	0.146	10.095	0.457
19:60: 0.500	111.865	111.581	33.488	33.309	32.089	33.134	3.703	0.114	9.993	0.378
19:60: 0.550			33.492	33.260	32.093	33.086		0.140	9.922	
	111.869	TTT • DO 2								() . 44()
19.60. 0 600	111.869	111.503					3.683 3.721			0.440
19:60: 0.600	111.869	111.441	33.488	33.221	32.089	33.039	3.721	0.140	10.019	0.440

10 60 0 650	111 056	111 405	22 405	22 212	20 006	22 000	2 774	0 100	10 165	0 205
19:60: 0.650	111.856	111.425	33.485	33.212	32.086	33.020	3.774	0.122	10.165	0.395
19:60: 0.700	111.871	111.414	33.495	33.205	32.096	33.014	3.771	0.142	10.154	0.446
19:60: 0.750	111.861	111.276	33.491	33.121	32.092	32.941	3.687	0.098	9.892	0.335
19:60: 0.800	111.866	111.346	33.495	33.166	32.096	32.988	3.685	0.070	9.900	0.268
19:60: 0.850	111.867	111.329	33.495	33.155	32.096	32.976	3.687	0.080	9.902	0.291
19:60: 0.900	111.855	111.423	33.488	33.215	32.089	33.045	3.652	0.012	9.824	0.123
19:60: 0.950	111.845	111.359	33.482	33.174	32.083	32.995	3.698	0.049	9.939	0.215
20:00: 1.000	111.855	111.441	33.488	33.226	32.089	33.045	3.717	0.002	10.010	0.098
20:00: 1.050	111.848	111.455	33.482	33.233	32.083	33.053	3.718	-0.026	10.015	0.028
20:00: 1.100	111.859	111.423	33.488	33.212	32.089	33.033	3.707	-0.026	9.976	0.030
20:00: 1.150	111.845	111.468	33.478	33.240	32.079	33.069	3.666	-0.049	9.869	-0.027
20:00: 1.200	111.852	111.399	33.482	33.195	32.083	33.026	3.642	-0.040	9.790	-0.004
20:00: 1.250	111.842	111.381	33.475	33.183	32.076	33.019	3.611	-0.101	9.698	-0.155
20:00: 1.300	111.854	111.458	33.482	33.231	32.083	33.077	3.558	-0.235	9.561	-0.488
20:00: 1.350	111.870	111.488	33.492	33.250	32.093	33.098	3.553	-0.250	9.553	-0.526
20:00: 1.400	111.864	111.584	33.488	33.311	32.089	33.159	3.564	-0.279	9.604	-0.598
20:00: 1.450	111.854	111.512	33.481	33.265	32.082	33.094	3.662	-0.257	9.865	-0.543
20:00: 1.500	111.866	111.521	33.488	33.270	32.089	33.102	3.653	-0.231	9.841	-0.480
20:00: 1.550	111.858	111.529	33.482	33.273	32.083	33.106	3.647	-0.237	9.826	-0.494
20:00: 1.600	111.850	111.352	33.475	33.161	32.077	32.988	3.649	-0.225	9.799	-0.463
20:00: 1.650	111.845	111.368	33.472	33.170	32.074	32.999	3.649	-0.162	9.800	-0.305
20:00: 1.700	111.850	111.347	33.475	33.157	32.077	33.001	3.556	-0.136	9.536	-0.242
20:00: 1.750	111.841	111.521	33.469	33.267	32.070	33.117	3.547	-0.081	9.543	-0.106
20:00: 1.800	111.840	111.591	33.469	33.312	32.070	33.165	3.537	-0.111	9.528	-0.182
20:00: 1.850	111.835	111.629	33.466	33.335	32.067	33.190	3.538	-0.044	9.537	-0.015
20:00: 1.900	111.819	111.657	33.456	33.353	32.058	33.203	3.572	-0.022	9.638	0.038
20:00: 1.950	111.807	111.583	33.449	33.307	32.051	33.156	3.565	0.020	9.605	0.143
20:00: 2.000	111.806	111.703	33.449	33.384	32.051	33.241	3.533	0.080	9.536	0.293
20:00: 2.050										
	111.808	111.681	33.450	33.369	32.052	33.222	3.556	0.115	9.596	0.381
20:00: 2.100	111.787	111.603	33.436	33.320	32.039	33.165	3.585	0.128	9.663	0.412
20:00: 2.150	111.802	111.443	33.446	33.219	32.049	33.049	3.651	0.147	9.822	0.457
20:00: 2.200	111.794	111.399	33.443	33.193	32.045	33.014	3.697	0.129	9.942	0.412
20:00: 2.250	111.801	111.382	33.446	33.181	32.049	32.991	3.760	0.106	10.116	0.355
20:00: 2.300	111.784	111.277	33.436	33.116	32.039	32.913	3.817	0.126	10.256	0.404
20:00: 2.350	111.779	111.308	33.433	33.135	32.036	32.933	3.816	0.148	10.260	0.458
20:00: 2.400	111.773	111.246	33.429	33.096	32.032	32.894	3.804	0.184	10.213	0.548
20:00: 2.450	111.760	111.252	33.423	33.102	32.026	32.878	3.921	0.232	10.544	0.665
20:00: 2.500	111.747	111.264	33.416	33.111	32.020	32.881	3.947	0.305	10.620	0.845
20:00: 2.550	111.726	111.170	33.403	33.052	32.007	32.827	3.902	0.327	10.476	0.898
20:00: 2.600	111.704	111.247	33.390	33.101	31.994	32.894	3.827	0.274	10.281	0.769
20:00: 2.650	111.719	111.217	33.400	33.083	32.004	32.873	3.832	0.335	10.290	0.920
20:00: 2.700	111.732	111.245	33.410	33.102	32.013	32.900	3.794	0.301	10.188	0.837
20:00: 2.750	111.725	111.230	33.406	33.093	32.009	32.892	3.786	0.322	10.163	0.887
20:00: 2.800	111.741	111.163	33.416	33.051	32.020	32.849	3.775	0.340	10.120	0.930
20:00: 2.850	111.726	111.084	33.406	33.000	32.009	32.799	3.758	0.356	10.055	0.967
20:00: 2.850	111.726	111.084	33.406	33.000	32.009	32.799	3.758	0.356	10.055	0.967
20:00: 2.850 20:00: 2.900	111.726 111.735	111.084 111.327	33.406 33.410	33.000 33.152	32.009 32.013	32.799 32.957	3.758 3.758	0.356 0.390	10.055 10.103	0.967 1.057
20:00: 2.850 20:00: 2.900 20:00: 2.950	111.726	111.084	33.406	33.000	32.009	32.799	3.758	0.356	10.055	0.967
20:00: 2.850 20:00: 2.900	111.726 111.735	111.084 111.327	33.406 33.410	33.000 33.152	32.009 32.013	32.799 32.957	3.758 3.758	0.356 0.390	10.055 10.103	0.967 1.057
20:00: 2.850 20:00: 2.900 20:00: 2.950	111.726 111.735	111.084 111.327 111.419	33.406 33.410 33.403	33.000 33.152 33.208	32.009 32.013 32.007	32.799 32.957 33.018	3.758 3.758	0.356 0.390	10.055 10.103 10.065	0.967 1.057 1.091
20:00: 2.850 20:00: 2.900 20:00: 2.950 1	111.726 111.735 111.728	111.084 111.327 111.419	33.406 33.410 33.403 25-RF07 FIRI	33.000 33.152 33.208 E2-Cirrus K	32.009 32.013 32.007 ingAir 26NO	32.799 32.957 33.018	3.758 3.758 3.739	0.356 0.390 0.403	10.055 10.103 10.065	0.967 1.057 1.091 AGE 17
20:00: 2.850 20:00: 2.900 20:00: 2.950	111.726 111.735 111.728	111.084 111.327 111.419 2-22	33.406 33.410 33.403 25-RF07 FIRI QCWC	33.000 33.152 33.208 E2-Cirrus K	32.009 32.013 32.007 ingAir 26NO	32.799 32.957 33.018 V91 QCR	3.758 3.758 3.739	0.356 0.390 0.403	10.055 10.103 10.065 PADIFR	0.967 1.057 1.091 AGE 17 BDIFR
20:00: 2.850 20:00: 2.900 20:00: 2.950 1	111.726 111.735 111.728	111.084 111.327 111.419	33.406 33.410 33.403 25-RF07 FIRI	33.000 33.152 33.208 E2-Cirrus K	32.009 32.013 32.007 ingAir 26NO	32.799 32.957 33.018	3.758 3.758 3.739	0.356 0.390 0.403	10.055 10.103 10.065	0.967 1.057 1.091 AGE 17
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC	111.726 111.735 111.728 TASW M/S	111.084 111.327 111.419 2-22 TASR M/S	33.406 33.410 33.403 25-RF07 FIRI QCWC MB	33.000 33.152 33.208 E2-Cirrus K QCRC MB	32.009 32.013 32.007 ingAir 26NO QCW MB	32.799 32.957 33.018 V91 QCR MB	3.758 3.758 3.739 AKRD DEG	0.356 0.390 0.403 SSRD	10.055 10.103 10.065 PADIFR MB	0.967 1.057 1.091 AGE 17 BDIFR MB
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000	111.726 111.735 111.728 TASW M/S 111.730	111.084 111.327 111.419 2-22 TASR M/S 111.301	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007	32.799 32.957 33.018 V91 QCR MB 32.925	3.758 3.758 3.739 AKRD DEG 3.827	0.356 0.390 0.403 SSRD DEG 0.318	10.055 10.103 10.065 PADIFR MB 10.290	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050	111.726 111.735 111.728 TASW M/S 111.730 111.725	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199	32.009 32.013 32.007 ingair 26NO QCW MB 32.007 32.004	32.799 32.957 33.018 V91 QCR MB 32.925 32.994	3.758 3.758 3.739 AKRD DEG 3.827 3.827	0.356 0.390 0.403 SSRD DEG 0.318 0.358	10.055 10.103 10.065 PADIFR MB 10.290 10.311	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050	111.726 111.735 111.728 TASW M/S 111.730 111.725	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199	32.009 32.013 32.007 ingair 26NO QCW MB 32.007 32.004	32.799 32.957 33.018 V91 QCR MB 32.925	3.758 3.758 3.739 AKRD DEG 3.827 3.827	0.356 0.390 0.403 SSRD DEG 0.318 0.358	10.055 10.103 10.065 PADIFR MB 10.290 10.311	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.100	111.726 111.735 111.728 TASW M/S 111.730 111.725 111.721	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311	10.055 10.103 10.065 P.ADIFR MB 10.290 10.311 10.273	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.150	111.726 111.735 111.728 TASW M/S 111.730 111.725 111.721 111.716	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.307	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.135	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.827 3.815 3.795	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292	10.055 10.103 10.065 P.ADIFR MB 10.290 10.311 10.273 10.201	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.100	111.726 111.735 111.728 TASW M/S 111.730 111.725 111.721	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.307 111.286	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.984 32.925	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311	10.055 10.103 10.065 P.ADIFR MB 10.290 10.311 10.273	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.100 20:00: 3.150 20:00: 3.200	TASW M/S 111.725 111.725 111.726 111.726	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.307 111.286	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.135 33.123	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274	10.055 10.103 10.065 PADIFR MB 10.290 10.311 10.273 10.201 10.146	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.100 20:00: 3.150 20:00: 3.200 20:00: 3.200	TASW M/S 111.725 111.735 111.730 111.725 111.721 111.716 111.709 111.721	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.386 111.386	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390 33.397	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.135 33.135 33.123 33.185	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994 32.001	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934 32.925 32.987	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777 3.793	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274 0.277	10.055 10.103 10.065 PADIFR MB 10.290 10.311 10.273 10.201 10.146 10.212	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769 0.777
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.150 20:00: 3.250 20:00: 3.250 20:00: 3.250 20:00: 3.300	TASW M/S 111.725 111.725 111.721 111.716 111.709 111.721 111.710	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.386 111.386 111.386	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390 33.397 33.390	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.123 33.123 33.123 33.174	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994 32.001 31.994	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934 32.925 32.937 32.976	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777 3.793 3.789	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274 0.277 0.304	10.055 10.103 10.065 PADIFR MB 10.290 10.311 10.273 10.201 10.146 10.212 10.196	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769 0.777 0.845
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.100 20:00: 3.150 20:00: 3.200 20:00: 3.200	TASW M/S 111.725 111.735 111.730 111.725 111.721 111.716 111.709 111.721	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.386 111.386	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390 33.397	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.135 33.135 33.123 33.185	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994 32.001	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934 32.925 32.987	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777 3.793	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274 0.277	10.055 10.103 10.065 PADIFR MB 10.290 10.311 10.273 10.201 10.146 10.212	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769 0.777
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.150 20:00: 3.250 20:00: 3.250 20:00: 3.250 20:00: 3.300	TASW M/S 111.735 111.728 TASW 111.730 111.725 111.721 111.716 111.709 111.721 111.710 111.700	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.386 111.386 111.386 111.386 111.388	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390 33.397 33.390 33.384	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.123 33.123 33.123 33.174	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994 32.001 31.994 31.988	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934 32.925 32.987 32.987 32.987	3.758 3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777 3.793 3.778	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274 0.277 0.304 0.299	10.055 10.103 10.065 P.ADIFR MB 10.290 10.311 10.273 10.201 10.146 10.212 10.196 10.160	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769 0.777 0.845 0.832
20:00: 2.850 20:00: 2.900 20:00: 2.950 1 HR MI SEC 20:00: 3.000 20:00: 3.050 20:00: 3.150 20:00: 3.250 20:00: 3.250 20:00: 3.300 20:00: 3.350 20:00: 3.350 20:00: 3.400	TASW M/S 111.725 111.730 111.725 111.721 111.716 111.709 111.721 111.710 111.700 111.690	111.084 111.327 111.419 2-22 TASR M/S 111.301 111.408 111.386 111.386 111.386 111.386 111.386 111.399	33.406 33.410 33.403 25-RF07 FIRI QCWC MB 33.403 33.400 33.397 33.393 33.390 33.397 33.397 33.397	33.000 33.152 33.208 E2-Cirrus K. QCRC MB 33.132 33.199 33.185 33.135 33.123 33.185 33.174 33.155 33.191	32.009 32.013 32.007 ingAir 26NO QCW MB 32.007 32.004 32.001 31.997 31.994 32.001 31.994 31.988 31.982	32.799 32.957 33.018 V91 QCR MB 32.925 32.994 32.982 32.934 32.925 32.937 32.925 32.9387 32.925 32.9387	3.758 3.758 3.739 AKRD DEG 3.827 3.827 3.815 3.795 3.777 3.793 3.789 3.778	0.356 0.390 0.403 SSRD DEG 0.318 0.358 0.311 0.292 0.274 0.277 0.304 0.299 0.273	D. 0.55 10.103 10.065 P. ADIFR MB 10.290 10.311 10.273 10.201 10.146 10.212 10.196	0.967 1.057 1.091 AGE 17 BDIFR MB 0.879 0.979 0.862 0.815 0.769 0.777 0.845 0.832 0.769
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20:00: 4.900	111.671	110.573	33.371	32.679	31.975	32.451	3.850	0.177	10.213	0.522	
20:00: 4.950	111.667	110.559	33.368	32.670	31.973	32.457	3.756	0.232	9.951	0.656	
20:00: 5.000	111.654	110.728	33.357	32.774	31.963	32.584	3.651	0.246	9.688	0.692	
20:00: 5.050	111.654	110.622	33.357	32.708	31.963	32.513	3.661	0.251	9.698	0.704	
20:00: 5.100	111.654	110.537	33.357	32.655	31.963	32.458	3.660	0.285	9.680	0.786	
20:00: 5.150	111.644	110.529	33.351	32.650	31.956	32.426	3.799	0.387	10.063	1.033	
20:00: 5.200	111.634	110.410	33.344	32.575	31.950	32.337	3.859	0.384	10.205	1.024	
20:00: 5.250	111.631	110.685	33.342	32.747	31.948	32.504	3.926	0.392	10.446	1.047	
20:00: 5.300	111.608	110.554	33.325	32.662	31.931	32.426	3.864	0.439	10.247	1.159	
20:00: 5.350	111.628	110.335	33.338	32.525	31.944	32.288	3.853	0.321	10.172	0.870	
20:00: 5.400	111.617	110.309	33.331	32.509	31.937	32.274	3.839	0.280	10.129	0.769	
20:00: 5.450	111.627	110.402	33.339	32.568	31.944	32.354	3.740	0.237	9.874	0.667	
20:00: 5.500	111.603	110.359	33.325	32.543	31.931	32.331	3.718	0.230	9.807	0.650	
20:00: 5.550	111.624	110.495	33.338	32.628	31.944	32.422	3.711	0.178	9.813	0.524	
20:00: 5.600	111.633	110.465	33.344	32.610	31.950	32.407	3.690	0.142	9.748	0.438	
20:00: 5.650	111.622	110.394	33.338	32.566	31.944	32.356	3.723	0.160	9.828	0.481	
20:00: 5.700	111.610	110.326	33.331	32.524	31.937	32.312	3.717	0.209	9.799	0.599	
20:00: 5.750	111.600	110.156	33.325	32.419	31.931	32.196	3.761	0.088	9.888	0.303	
20:00: 5.800	111.607	110.204	33.331	32.451	31.937	32.236	3.716	0.143	9.773	0.438	
20:00: 5.850	111.591	110.253	33.322	32.481	31.928	32.266	3.725	0.156	9.808	0.470	
20:00: 5.900	111.585	110.192	33.318	32.443	31.925	32.205	3.852	0.161	10.146	0.480	
20:00: 5.950	111.567	110.094	33.308	32.384	31.915	32.136	3.889	0.190	10.228	0.549	
1											
-		2_22	5_RF07 FTRE	E2-Cirrus K	ingAir 26NO	791			PA	GE 18	
HR MI SEC	TTB	TTRF	VLA	RFLAG	ingilii zono	· · · ·				OL 10	
HR MI SEC	С	C	VLA	Kr LAG							
10 60 0 000				0 000							
19:60: 0.000	-36.201	-37.846	-6.258	0.000							
19:60: 0.050	-36.208	-37.786	-6.256	0.000							
19:60: 0.100	-36.214	-37.779	-6.257	0.000							
19:60: 0.150	-36.208	-37.750	-6.254	0.000							
19:60: 0.200	-36.208	-37.792	-6.254	0.000							
19:60: 0.250	-36.208	-37.792	-6.255	0.000							
19:60: 0.300	-36.208	-37.785	-6.258	0.000							
				0.000							
19:60: 0.350	-36.208	-37.769	-6.257								
19:60: 0.400	-36.208	-37.779	-6.258	0.000							
19:60: 0.450	-36.211	-37.787	-6.257	0.000							
19:60: 0.500	-36.208	-37.834	-6.254	0.000							
19:60: 0.550	-36.214	-37.794	-6.261	0.000							
19:60: 0.600	-36.214	-37.761	-6.256	0.000							
19:60: 0.650	-36.217	-37.747	-6.257	0.000							
19:60: 0.700	-36.214	-37.785	-6.256	0.000							
19:60: 0.750	-36.229	-37.809	-6.258	0.000							
19:60: 0.800	-36.226	-37.828		0.000							
			-6.257								
19:60: 0.850	-36.222	-37.788	-6.258	0.000							
19:60: 0.900	-36.226	-37.853	-6.256	0.000							
19:60: 0.950	-36.226	-37.775	-6.257	0.000							
20:00: 1.000	-36.226	-37.834	-6.258	0.000							
20:00: 1.050	-36.219	-37.813	-6.256	0.000							
20:00: 1.100	-36.220	-37.767	-6.256	0.000							
20:00: 1.150	-36.219	-37.777	-6.256	0.000							
	-36.220			0.000							
20:00: 1.200		-37.773	-6.257								
20:00: 1.250	-36.217	-37.794	-6.257	0.000							
20:00: 1.300	-36.208	-37.834	-6.258	0.000							
20:00: 1.350	-36.208	-37.834	-6.258	0.000							
20:00: 1.400	-36.208	-37.828	-6.256	0.000							
20:00: 1.450	-36.207	-37.813	-6.254	0.000							
20:00: 1.500	-36.214	-37.792	-6.256	0.000							
20:00: 1.550	-36.207	-37.811	-6.256	0.000							
20:00: 1.600	-36.208	-37.798	-6.257	0.000							
20:00: 1.650	-36.207	-37.816	-6.261	0.000							
20:00: 1.700	-36.208	-37.834	-6.262	0.000							
20:00: 1.750	-36.201	-37.804	-6.261	0.000							
20:00: 1.800	-36.201	-37.767	-6.261	0.000							
20:00: 1.850	-36.195	-37.824	-6.262	0.000							
20:00: 1.900	-36.189	-37.834	-6.261	0.000							
20:00: 1.950	-36.190	-37.803	-6.262	0.000							
20:00: 2.000	-36.189	-37.871	-6.261	0.000							
20:00: 2.050	-36.183	-37.846	-6.262	0.000							
20:00: 2.100	-36.183	-37.828	-6.261	0.000							
20:00: 2.150	-36.189	-37.848	-6.263	0.000							
20:00: 2.200	-36.201	-37.828	-6.261	0.000							
20:00: 2.250	-36.198	-37.823	-6.259	0.000							
20:00: 2.300	-36.208	-37.810	-6.253	0.000							
20:00: 2.350	-36.208	-37.885	-6.256	0.000							
20:00: 2.400	-36.208	-37.883	-6.256	0.000							
20:00: 2.450	-36.217	-37.845	-6.256	0.000							
20:00: 2.500	-36.220	-37.840	-6.254	0.000							
20:00: 2.550	-36.214	-37.793	-6.256	0.000							
20:00: 2.600	-36.214	-37.785	-6.256	0.000							
20:00: 2.650	-36.214	-37.823	-6.255	0.000							
20:00: 2.700	-36.214	-37.825	-6.257	0.000							
20:00: 2.750	-36.211	-37.831	-6.257	0.000							
20:00: 2.800	-36.214	-37.859	-6.258	0.000							
20:00: 2.850	-36.214	-37.827	-6.257	0.000							
20:00: 2.900	-36.214	-37.816	-6.258	0.000							
20:00: 2.950	-36.208	-37.824	-6.259	0.000							
1											
		2-22	25-RF07 FIRE	E2-Cirrus K	ingAir 26NO	V91			PA	GE 19	

	a	C	MDC	
20.00. 2 000	C	C	VDC	0.000
20:00: 3.000	-36.214	-37.871	-6.257	0.000
20:00: 3.050	-36.214	-37.804	-6.258	0.000
20:00: 3.100	-36.208	-37.840	-6.254	0.000
20:00: 3.150	-36.207	-37.856	-6.254	0.000
20:00: 3.200	-36.214	-37.859	-6.256	0.000
20:00: 3.250	-36.207	-37.863	-6.256	0.000
20:00: 3.300	-36.208	-37.828	-6.256	0.000
20:00: 3.350	-36.208	-37.858	-6.257	0.000
20:00: 3.400	-36.208	-37.822	-6.256	0.000
20:00: 3.450	-36.208	-37.822	-6.255	0.000
20:00: 3.500	-36.208	-37.804	-6.254	0.000
20:00: 3.550	-36.207	-37.832	-6.256	0.000
20:00: 3.600	-36.214	-37.865	-6.254	0.000
20:00: 3.650	-36.208	-37.869	-6.253	0.000
20:00: 3.700	-36.208	-37.828	-6.252	0.000
20:00: 3.750	-36.214	-37.860	-6.253	0.000
20:00: 3.800	-36.214	-37.846	-6.253	0.000
20:00: 3.850	-36.211	-37.840	-6.254	0.000
20:00: 3.900	-36.214	-37.846	-6.254	0.000
20:00: 3.950	-36.214	-37.851	-6.254	0.000
20:00: 4.000	-36.214	-37.834	-6.256	0.000
20:00: 4.050	-36.204	-37.851	-6.255	0.000
20:00: 4.100	-36.201	-37.846	-6.254	0.000
20:00: 4.150	-36.195	-37.856	-6.257	0.000
20:00: 4.200	-36.208	-37.865	-6.254	0.000
20:00: 4.250	-36.211	-37.853	-6.256	0.000
20:00: 4.300	-36.208	-37.828	-6.252	0.000
20:00: 4.350	-36.198	-37.846	-6.255	0.000
20:00: 4.400	-36.208	-37.810	-6.254	0.000
20:00: 4.450	-36.201	-37.844	-6.243	0.000
20:00: 4.500	-36.208	-37.865	-6.240	0.000
20:00: 4.550	-36.213	-37.859	-6.241	0.000
20:00: 4.600	-36.226	-37.828	-6.235	0.000
20:00: 4.650	-36.238	-37.822	-6.238	0.000
20:00: 4.700	-36.244	-37.822	-6.236	0.000
20:00: 4.750	-36.253	-37.838	-6.243	0.000
20:00: 4.800	-36.262	-37.846	-6.239	0.000
20:00: 4.850	-36.268	-37.873	-6.251	0.000
20:00: 4.900	-36.274	-37.907	-6.252	0.000
20:00: 4.950	-36.274	-37.895	-6.253	0.000
20:00: 5.000	-36.262	-37.901	-6.253	0.000
20:00: 5.050	-36.265	-37.924	-6.255	0.000
20:00: 5.100	-36.268	-37.914	-6.253	0.000
20:00: 5.150	-36.265	-37.932	-6.252	0.000
20:00: 5.200	-36.268	-37.859	-6.250	0.000
20:00: 5.250	-36.265	-37.909	-6.251	0.000
20:00: 5.300	-36.256	-37.920	-6.252	0.000
20:00: 5.350	-36.271	-37.920	-6.245	0.000
20:00: 5.400	-36.274	-37.907	-6.245	0.000
20:00: 5.450	-36.277	-37.866	-6.252	0.000
20:00: 5.500	-36.280	-37.883	-6.252	0.000
20:00: 5.550	-36.271	-37.921	-6.252	0.000
20:00: 5.600	-36.268	-37.921	-6.253	0.000
20:00: 5.650	-36.274	-37.952	-6.254	0.000
20:00: 5.700	-36.280	-37.932	-6.251	0.000
20:00: 5.750	-36.286	-37.936	-6.251	0.000
20:00: 5.800	-36.298	-37.920	-6.251	0.000
20:00: 5.850	-36.295	-37.914	-6.252	0.000
20:00: 5.900	-36.292	-37.895	-6.252	0.000
20:00: 5.950	-36.299	-37.895	-6.249	0.000
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NCAR/ATD/RDP&RAF

Voice: (303)497-1084 Fax: (303)497-1092