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SMET: Accessing Hourly SMET Data

I. Purpose:

The purpose of this procedure is to document the process of running the code DRVTBL.EXE which generates a set of tables from the hourly health and status messages that contain hourly averages of many of the measurements made at the ARCS site and that are sent to the U.S.A. via satellite. This data is used by RESET members to test the "health and status" after changes are made and by the observers for meteorological data needs.

II. Cautions and Hazards:

None.

III. Requirements:

None.

IV. Procedure:

A. Steps:

1. Execute the running of DRVTBL.EXE at anytime, but it is best run a few hours after noon to collect all the data from the previous day.
2. Log onto the observer laptop computer in the E-Van (brings up Windows NT display). (To run DRVTBL.EXE you need a DOS command window.
3. Look for a flag with the word "START" in the lower left corner of the screen.
4. Select **START** by using the mouse to position the cursor over the **START** button and clicking the left-mouse button. (This brings up a menu that includes a selection, "PROGRAMS.")
5. Click on **PROGRAMS**. (This brings up another menu.)
6. Click on **COMMAND PROMPT** in this menu. (This brings up a black rectangular window with a command prompt which looks like: **C:\>**.)

Moving to Directory Containing the Program DRVTBL.EXE

7. Ensure that the command window is active by positioning the cursor anywhere within the black command window and clicking the left-mouse button.
8. Move to the D drive by typing: **d: <return>**

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9. Move the health and status directory under **twpsst** (TWP site science team): **CD \twpsst\shear <return>**

Type **drvtbl mmddy <return>** to run DRVTBL.EXE.

yy = 2-digit year (e.g., 1998> 98)

mm = 2-digit month

For example, to acquire a table for 15 November, 1998, type:

drvtble 111598 <return>

(This command creates a file with surface meteorology data called **smet.out**. There are also files created which contain skyrad radiation data: **skyrad.out** and gndrad radiation data: **gndrad.out**.)

Note: These files contain the date (yy mm dd) and time WHEN THE FILE WAS WRITTEN BY ADaM, and hourly averages of several variables. ADaM writes these files two hours after the data is obtained. Therefore, if the time reported in the file is 05:44, the hourly average is for the period 03:00 to 04:00. Like wise, if the time reported is 21:20, the average is for the period 19:00 to 20:00. If the time is 01:30, the time is 23.00 to 24:00 OF THE PREVIOUS DAY.

10. If required, you save files for a given day by renaming the output files because the same output file names are always used; these names can be anything, but one suggestion is for SMET files to be named **smmmddy.dat**.

The first two characters, "sm" indicate "surface meteorology" while "mmddy" indicate the month, day, and year as before.

EXAMPLE: to rename an smet file made on 30 December 1998, type, **copy smet.out sm123098.dat**.

11. When required, close the command window by typing:

exit <return>

B. Viewing the SMET File through Windows NT "Explorer":

1. Bring up Windows Explorer.

First Method

- View a row of icons across the top of the computer screen.
- Position the cursor on the icon that looks like a file folder with a magnifying glass on top of it and click the left mouse button.

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- View the Windows Explorer display.

OR

Second Method

- Move cursor to lower left hand corner of screen.
 - Look for a flag with the word **START** in the lower left corner of the screen.
 - Select **START** by positioning the mouse cursor over the “START” button and clicking the left mouse button.
 - View menu and click on **PROGRAMS**.
 - Click on “folder with magnifying glass” icon with the words “Windows NT Explorer” next to it (about halfway down the **PROGRAMS** menu, this brings up Explorer.
2. Once Windows Explorer started, view the left half of this display which looks like a series of file folders.
 3. If you do not see any folders perform following steps:
 - view an icon that says **MY COMPUTER**, position cursor on it, and double-click with left-mouse button (should view the file folder).
 - Scroll up and down this display by clicking on the up or down arrows found at the top and bottom of the right edge of this half of the display).
 4. Scroll until you see an icon (picture) next to **D:**.
 5. Position cursor over **D:** and click the left mouse button.
 6. View the right half of the Explorer display of several folders.
 7. Position the cursor on the folder labeled **twpsst** and again click the left mouse button.
 8. Position the cursor on the folder labeled **mktables** and click the left mouse button twice.
 9. View a list of files in the directory **d:\twpasst\mktables** where you typed the **drvtbl** command.
 10. Look for the file **smet.out**, **gndrad.out**, or **skyrad.out** (or the new filename for one of these if you gave the file a new name.
 11. Position cursor on desired file name and double click the left mouse button (opens the file with the **NOTEPAD** program, a text file viewer).

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12. If desired, change the size of the Notepad window by positioning the cursor on one of the four corners of the display, simultaneously click and hold down the left mouse button and drag the corner to increase or decrease the size of the window.
13. If necessary, scroll through the file by clicking the “up” or “down” arrows at the right side of the window or by positioning the cursor on the bar between these arrows and holding down the left mouse button and dragging it up or down.
14. If necessary, close the file by clicking once on the black line found on a button located in the upper right corner of the notepad; click on the square again to restore it to its former size.
15. If necessary, minimize (temporarily closes the file) by clicking once on the black line found on a button located in the upper right corner of the notepad.

Note: Clicking on the square in the upper right corner causes the notepad display to fill the screen; clicking the square again restores it to its former size.

16. When required, close the file by following the steps below:
 - Position the cursor over the word **FILE** located at the top left of the Notepad display.
 - Click with the left mouse button (this brings up a menu).
 - Position the cursor over **EXIT** and click the left mouse button.
 - Or position the cursor on the **X** in the upper right corner of the display and click the left mouse button.

V. References:

None.

VI. Attachments:

None.