

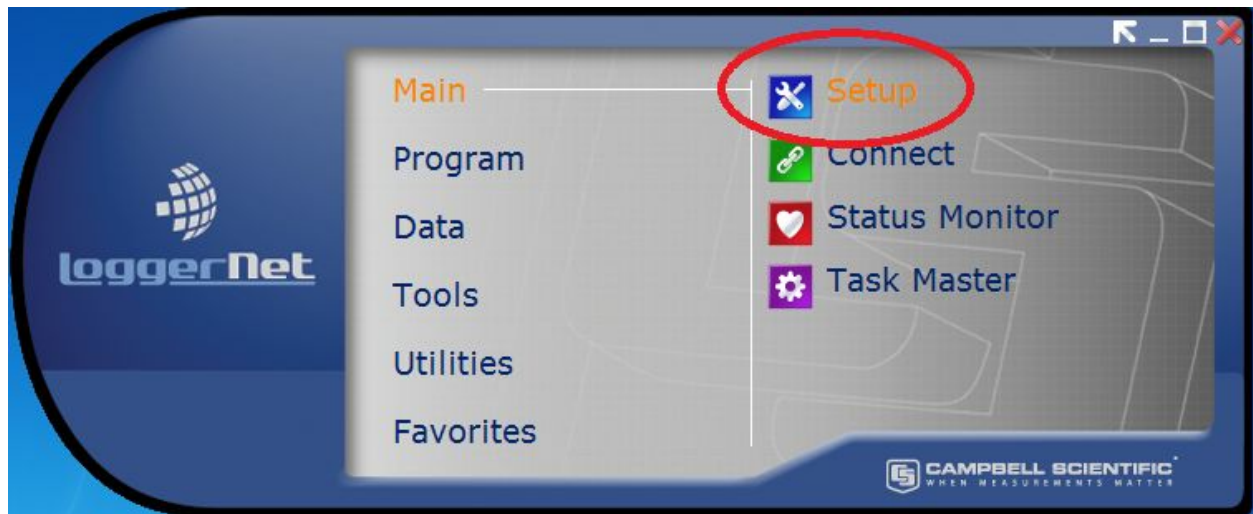
**Instructions to change the Campbell Logger “File Save Type” in Loggernet
Summit, Greenland
5/16/2019**

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Here are instructions to change the file type for the Summit albedo data that is collected, specifically the time stamp format. These steps need to be performed on the computer that collects the data from the Summit albedo CR1000 data logger (specifically for the ALB*.dat files).

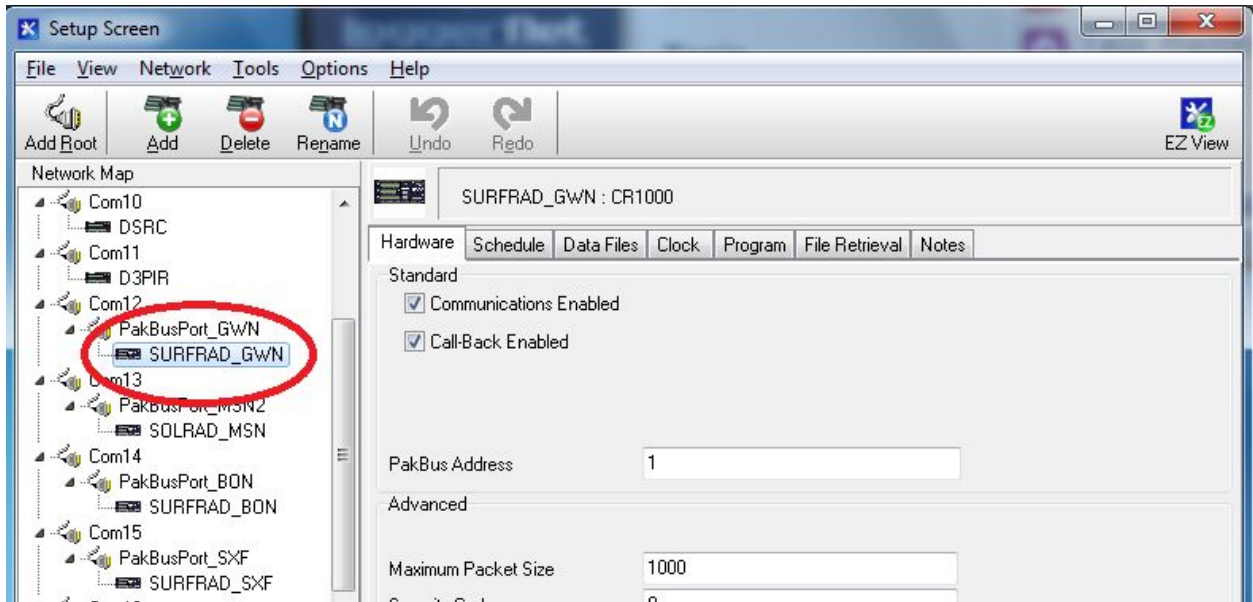
I am presenting screenshots from our Campbell LoggerNet software. Depending on the version of the software you are running there, these may look slightly different. If they are significantly different, or you are not using LoggerNet at all, then let me know and we can see what else can be done.

1. Start up LoggerNet, and go to the Setup menu, under Main.

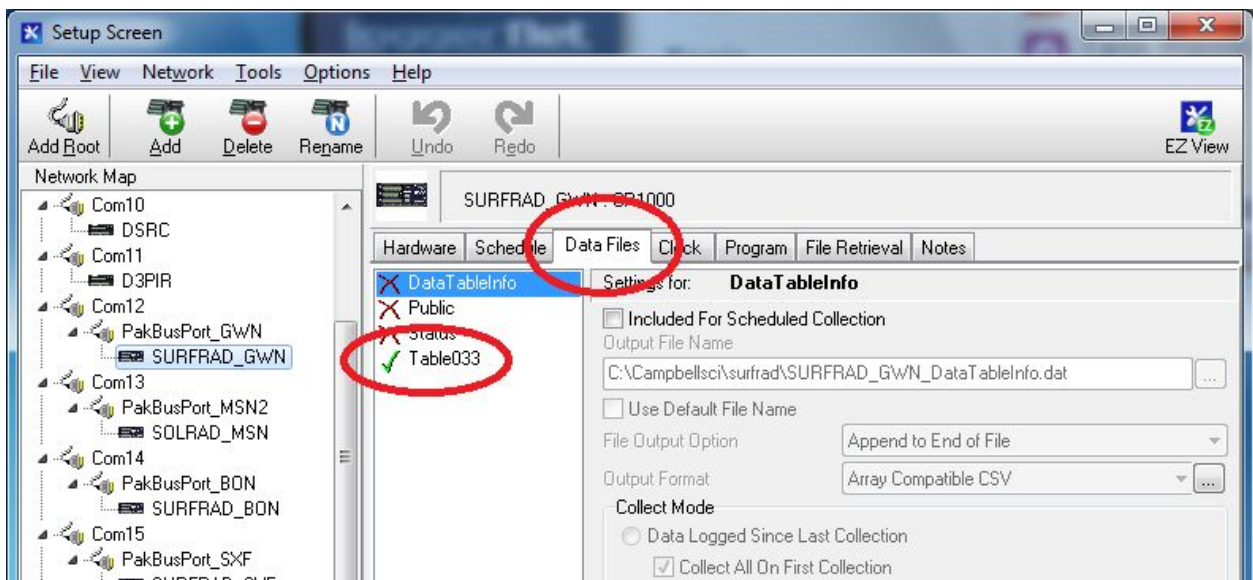


2. Find and select the albedo datalogger, to be changed, in the left pane of the Setup window.

Make sure you select the datalogger, and not one of the higher level devices used to communicate with the logger. (The name of your logger will not match what is show in the example below.)

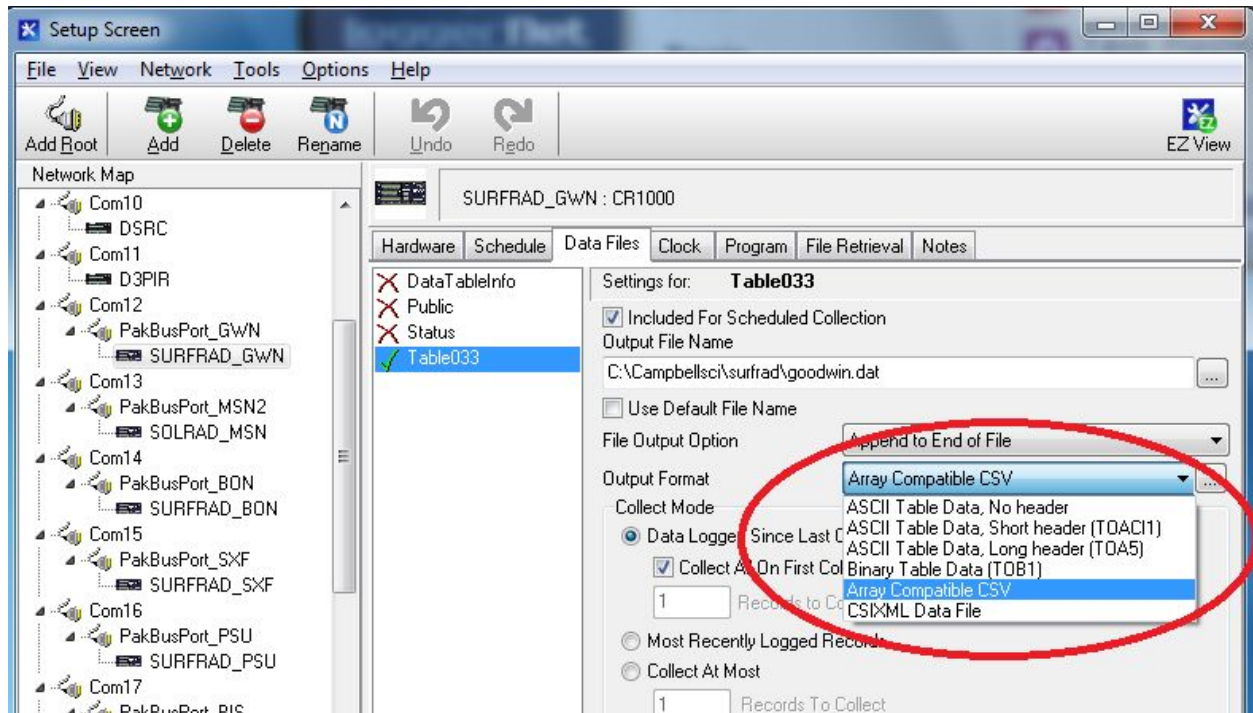


3. Click on the Data Files tab, and then on the data set being collected. This will be one of the items in the list with a green checkmark next to it. There may only be one green checkmark, or there may be multiple items being collected. Hopefully it will be obvious which is the one we are talking about. Or if everyone agrees on using the same time-date format, do this for every checked data set in the list.

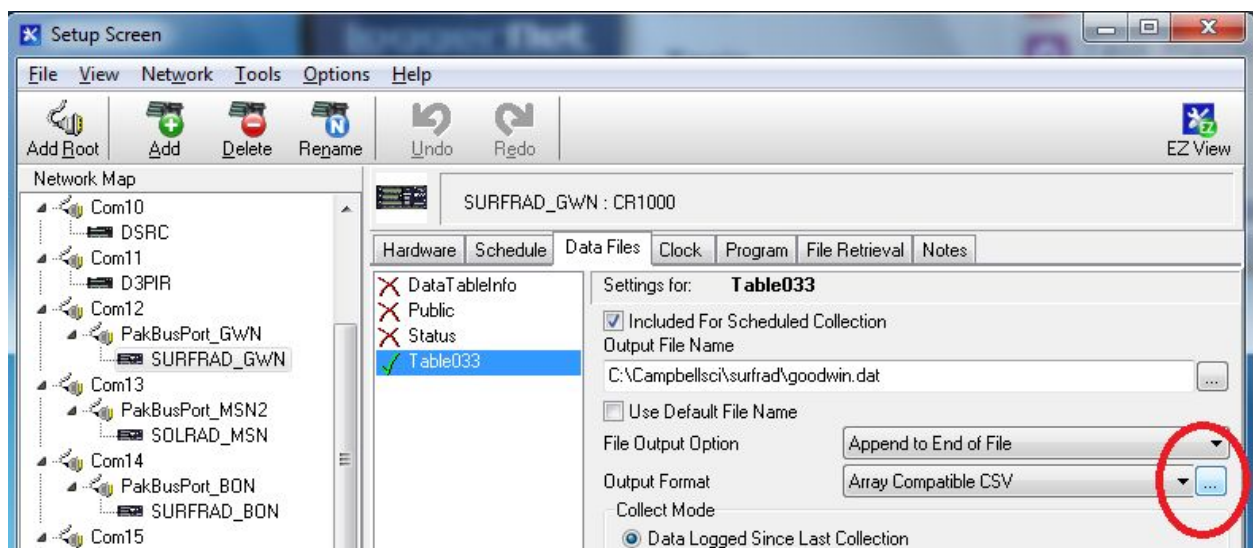


4. Click on the File Output Option pulldown list. It is currently set to “ASCII Table Data, Long header (TOA5)”.

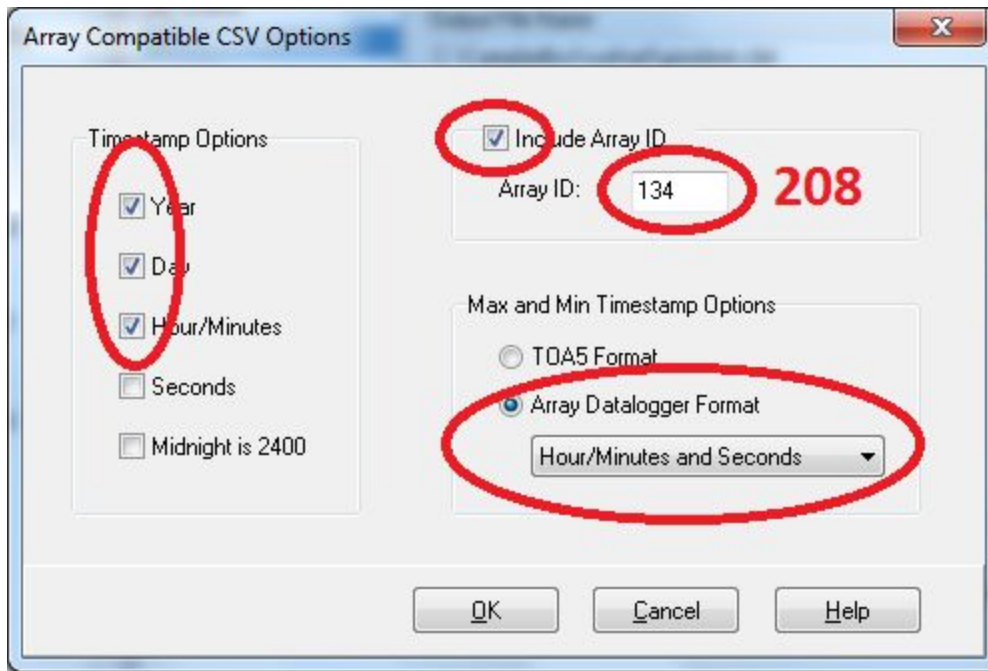
But we want it to be set to “Array Compatible CSV”.



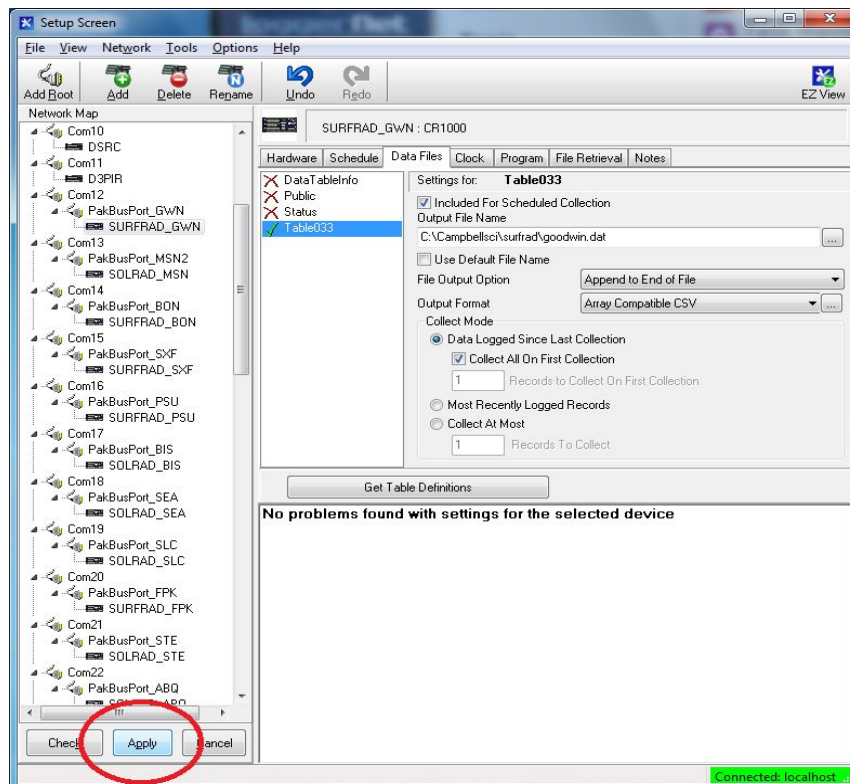
5. Next, click on the “...” button next to the “Array Compatible CSV” setting, under Output Format. This will bring up another small window.



6. Set the values in this window as shown below. Use 208 for the Array ID, to help distinguish it from other data sets. Click OK when done.



7. Finally, click the Apply button at the bottom of the Setup window to apply these settings.



Subsequent ALB data collections should now be recorded in the old-style Campbell CSV format (example below):

```
208,2019,133,1145,267569,5.599,7.088,-0.216,-17.31,-7999,5.605,7.098,-0.211,5.591,7.078,-0.217,0.004,0.006,0.002,0
```

Rather than the TOA5 format used previously:

```
"2019-05-13 11:45:00",  
267569,5.599,7.088,-0.216,-17.31,"NAN",5.605,7.098,-0.211,5.591,7.078,-0.217,0.004,0.006,0.002,0
```

The differences in the file formats are:

CSV:

- No header to the file
- First field is the Record ID, which helps distinguish between different data output lines
- Date separated into 3 fields: YYYY,Jday,HHMM
- -7999 used for missing or out-of-range values

TOA5:

- Contains header with column labels
- Does not report a Record ID
- First field is a quoted string containing "YYYY-MM-DD HH:MM:SS"
- "NAN" used for missing or out-of-range values