**Alternate procedure for data download from 50-Meter Tower using retrieval of Storage Module in case it is not possible to download the data from the tower via radio connection from MSF:**

* + - Go to the tower, open Logger box and take out Storage Module. Be careful with the cables, they get very stiff in cold conditions.
    - Bring Storage Module to MSF and download data from Storage Module with the ‘StgModule-download-set’. Plug blue cable into StgModule and gray cable into computer.
    - Double-click on PC208w icon
    - Choose ‘StgModule’
    - Select ‘SM4M/SM16M’ on top/right of the window
    - On the lower left side of the window choose the ‘Data’ tab
    - Click on the ‘File Naming Option’ button and choose the new filename number and saving location.
    - Click ‘Connect’
    - Click on ‘Show module directory.’ Wait a couple of seconds until all folders are listed. Open the last two folders. Compare the Pointer Numbers and save the data files that start with the Pointer Number listed on the log sheet. Eventually you will have to open an earlier folder to get to the pointer number.
    - Save the data file by choosing the ‘Save’ button.
    - Note the last Pointer Number, called File Mark, on the log sheet.
    - Close the window when the download is completed.
    - Open the downloaded file and note the day of year and the time (3rd and 4th position of the first and the last row of the file) on the log sheet
    - Copy the downloaded file on ftp-Summit-server – file path: \\Server\ftp\data\zurich\YY\_FTP\_ETH\ftp\_ETH\_YYYY
    - Complete Excel-sheet on ftp-Summit-server – file path: \\Server\ftp\data\zurich\YY\_FTP\_ETH

**Alternate procedure using laptop brought to tower site** in case it is not possible to download the data from the tower via radio connection from MSF:

* Set up the Panasonic Toughbook to minimize the amount of time it will have to be outside in the cold.
* Ensure that COM1 is enabled
* Open the Loggernet Software, and choose the ‘connect’ icon to view the options screen
* Click on ‘Custom Data Collection’. Ensure that in the dropdown menus the following are selected: ‘All the Data’, ‘Create New File’, and ‘ASCII data, short header’. Also, in the same window, further down be sure that the ‘Tower’ box is ticked. The ‘Public’ and ‘Status’ boxes do not need to be checked.
* Close the ‘Custom Data Collection’ window, but keep the Loggernet Software open.
* Go to the tower, open Logger box and disconnect the RF antenna from the RS232 port. Plug in the blue 9-pin serial connector to the RS232 port, and connect it to the laptop.
* In the Loggernet program connect screen, choose ‘Connect’
* Check to see that data is being collected: select the box 'Numeric' 1..., a new window opens; in that you tick 'Add' - a next window appears - there you select 'Public' and from the right column you highlight all the parameters and do 'paste'. That will list all parameters in the 'Monitoring' window and when you go to 'start', you should be able to see A) all the relevant data from the sensors at present, and B) a slight change of these numbers every 6 seconds.
* Click on ‘Custom Data Collection’ again. The same parameters that you chose inside should still be selected.
* Click on ‘Start Collection’. You should see the records being loaded. The program will notify you when all records have been loaded.
* Unplug. Close the window when the download is completed. Detach the computer, and replace the antenna cable in the RS232 port. Close the silver Logger box, and go inside.
* Find the file in C:\Campbellsci\LoggerNet\Data and paste it into the ETH folder on the laptop C:\ Documents and Settings\NSF1795\ETH\_YYYY\week##\
* Open the downloaded file and note the day of year and the time (3rd and 4th position of the first and the last row of the file) on the log sheet
* Copy the downloaded file on ftp-Summit-server – file path:

\\Server\ftp\data\zurich\YY\_FTP\_ETH\ftp\_ETH\_YYYY\week##\TU###.dat

* Complete Excel-sheet on ftp-Summit-server – file path:

\\Server\ftp\data\zurich\YY\_FTP\_ETH\YY\_ETH\_Logsheets.xls