

## CTD SBE19 V2

### Downloading Data

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1. Attach the interface cable to the CTD. **DO NOT TWIST OR WIGGLE CONNECTORS** – pull/push them straight on or off (otherwise you can break the pins). There is a thin guide pin that lines up with a small hole in the plug.
2. Attach the other end of the interface cable (the DB-9 RS232 serial connector) to the CTD laptop.
3. Start SEATERM V2 from the short cut on the Desktop.
4. Under the “Instruments” menu, select “SBE 19plus V2”. Wait for the communication (detailed in the command window) to finish until a command line with prompt “S>” appears.
5. Type “ds” on the command line to check battery voltage, total number of casts, and free memory available.
6. Type “dh” on the command line to check the time of individual casts. Identify the cast numbers that correspond to your data (make sure the # and time of casts matches the log sheets).
7. Select “Upload” menu. In the pop-up dialog box:
  - save files into the “C:\Users\sbe19\_2724\bamfield20\_7274\hex” directory with the following name convention “bam18xyyy” where x=0 (signals that the instrument is the SBE19 V2, use 1, 2 for other CTDs at Bamfield) and yyy is a number that starts at 001 and increments through the week. 7274 is the serial number of our SBE19v2.
  - select “Save”
  - select “From a single cast”, “binary”, and set the cast number to match the cast number in the “dh” output.
  - Write the file name on the log sheet under the “Filename” line. This is VERY important for later cross-referencing!
8. Once upload is complete, tell the instrument to sleep via typing ‘qs’ on the command line.
9. Close or minimize the SEATERM V2 window.
10. In “C:\Users/sbe19\_7274\bamfield20\_7274\hex” open the .hex files you have written in Notepad and edit the header information (right before the hexadecimal data appears. Use the EXACT format:  
Feb 16 2014 09:27 (Mmm DD yyyy hh:mm) for time  
123 34.245 W (DDD MM.MMM [NIW] for lat/lon)  
105 m for depth (this is the total depth of water at the station)  
Bamfield20 (for cruise)
11. Save.