**SeaBird37 Pre-Deployment:**

1. Check the Sea Bird for notation that it may have been used in a prior deployment or testing. Open to check O-rings and lubricant and the dummy plug on the end cap for a good seal.
2. Open “**Seaterm**”. This software is used for pre and post deployment programming. If using a computer without a com import, an adapter will be needed to connect to the SBE37 along with the appropriate cord to plug into the instrument. The com import number will need to be specified if being used to connect to the instrument for the first time. The number specification can be found in the computer's settings when connected to the computer.
3. To connect with the SBE37, plug in the USB to COM converter into the PC and go to the “Control Panel” application for Windows. Select “Devices and Printers” 🡪 Find the USB Serial Converter. Left Click on the icon and select “properties” 🡪 Select the heading “Hardware”. Take note of the specific COM # (EX: COM 8)
4. On “**Seaterm**”, press the “**Connect**” figure to connect to the instrument.
5. Enter the prompt S> “**ds**” in the command line to display the instrument's current settings. Check through these prompts to see if the instrument is currently logging and the other instrument specifications for sampling and storage.
6. To check the calibration coefficients run the command
   1. S> “**dc**”
7. Open the following link to begin filling out the SBE37 Log for your deployment.
   1. [SBE37 checklist.xlsx](https://uncw4-my.sharepoint.com/:x:/r/personal/suandas_uncw_edu/Documents/Documents/Students/Summer_2023/Summer2023_Mclawhorn/SB37/SBE37%20checklist.xlsx?d=w1e4b1c77b41a48a6b24de70b2a8fe181&csf=1&web=1&e=sD6BW1)
   2. The top and pre-deployment section will need to be filled out and followed before deploying the SBE37.
8. Run the command S> “**baud=9600**”. This is the rate at which information is transferred in a communication channel.
9. Calibrating the clock from the PC to the SBE37 is done by the next two commands on the check list.
   1. Type in the command line S> “**mmddyy=current date**” 🡪 “**Enter**”.
   2. S> “**hhmmss**=UTC time” --> “**Enter**” (Ex. 113000).
10. The next command sets the interval when an individual measurement is taken in seconds.
    1. S> “**interval**= time (s)” for 1 hour 🡪 “**interval = 3600**”
11. Next, set the format to its default with the command:
    1. S> “**format**=1”
12. The following command sets the sample number for the first sample when logging begins. Setting the command equal to zero before starting to log, deletes all stored data in the memory.
    1. S> “**samplenum**=0”
13. Next, set time to be recorded with each measurement
    1. S> “**storetime**=Y”
14. Set the instrument to not output real-time data
    1. S> “**txrealtime**=N”
15. Next, set the SBE37 to start recording data at a specific time when the instrument is being put in the water to conserve power and storge if necessary.
    1. S> “**startmmddyy** = ”
    2. S> “**starthhmmss** =”
    3. S> **startlater**
16. To check your calibration changes to the SBE37 run the display setting command
    1. S> “**ds**”
17. Finally, click the disconnect button and remove the connector. Reinstall the dummy plug.