**RBR Tridente Pre-Deployment Setup:**

1. Screw off the red cap and connect the USB-C to the RBR tri and plug in the USB to a PC. Open the software “Ruskin.exe”. The instrument's connection should be available upon opening the software. Check the SN on the “RBRconcerto3 \_ \_ \_ \_ \_ \_” tab with the SN located on the side of instrument.
2. Select the tab for configuration and begin by choosing a time zone for which the clock will be set to collect data. Either “Local” or “UTC”.
3. Next, select a date and time when the instrument is to begin sampling or check the “Now” box to start sampling after deployment configurations have been enabled.
4. Next, select the mode and rate at which the instrument is to sample for during the length of the deployment.
   1. Mode: “Continuous”
   2. Rate: “00:00:10”
5. The “End:” prompt provides the battery and storage capacity for the selected sampling scheme. The sampling options should be selected based on the battery’s life for the intended number of days the RBRtri will be actively sampling.
6. Next, Select the battery type that is currently installed.
7. To save the configuration settings select “Enable”. The current memory will be erased once a new configuration has been set. Select “Erase and enable logging” to continue.
8. The instrument can be disconnected, and the red cap can be reinstalled.

**RBR Tridente Post-Deployment:**

1. Screw off the red cap and connect the USB-C to the RBR tri and plug in the USB to a PC. Open the software “Ruskin.exe”. The instrument's connection should be available upon opening the software.
2. Under Configuration, select “Stop” to turn off the configuration settings. The software will prompt you to select a file output location for the “.rsk” file.
3. The RSKtools toolbox is needed to process the “.rsk” file. It can be downloaded at this link: <https://rbr-global.com/support/matlab-tools/> . The file directory for this folder is needed to run the “rsk\_process\_deployment.m” function.
4. The .rsk file name and RSKtools toolbox are the inputs to the rsk\_process\_deployment function. It will output a structure with the values and units of time, chlorophyll-a, FDOM, and turbidity.