HOBO DATALOGGER DOWNLOAD WITH SHUTTLE

1) Check that the red light is blinking on the HOBO datalogger (every 4 seconds)

2) Attach the Shuttle to the HOBO datalogger and press the lever down

3) The **yellow light** should blink repeatedly on the Shuttle while it offloads the data from the logger onto the Shuttle

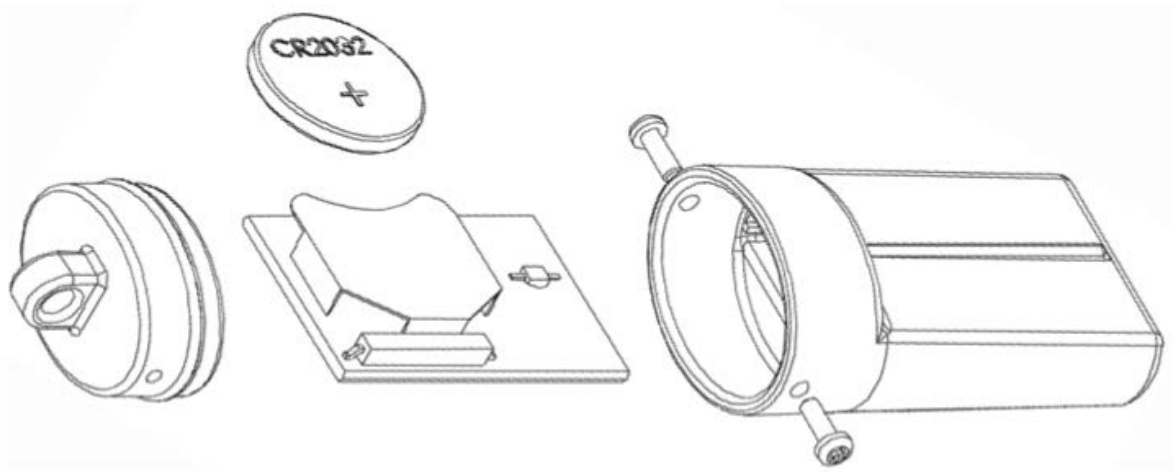
4) When it is done offloading the data, the **green light** on the Shuttle will blink

5) If there is a problem connecting to the datalogger, the **red light** on the Shuttle will light up/blink. If this happens, press the lever again to turn off the lights, then remove and reattach the Shuttle to the datalogger and try again

6) Once the data transfer is complete, remove the Shuttle from the HOBO datalogger

7) Make sure the red light on the datalogger is blinking every 4 seconds
    a. If it is blinking every 8 seconds, that means it is waiting to start (not logging)
    b. If it is blinking every 4 seconds, that means it is logging

REPLACING THE BATTERY IN THE HOBO DATALOGGER



1) Make sure to do the battery replacement over some sort of container with edges (like an open clipboard). This will minimize the risk of losing the small screws and green label.

2) Using the small screwdriver, completely unscrew the 2 screws holding the top onto the plastic case that contains the logger.

3) Put the black end cap off by inserting the metal end of the screwdriver through the loop and pulling upwards (it is a tight seal, so it may take a bit of force)

4) Carefully remove the green circuit board and green label by tipping the plastic case upside down. Set aside the green label that covers it until reassembly.

5) Remove the battery from the circuit board by pushing it from the opposite side with a small blunt non-metal object (like plastic tweezers).

6) If it is a used battery, mark the top with an X using your Sharpie. **This is a very important step so we don't mix up new and used batteries.

7) Place the used battery back in the packaging to keep it from touching other batteries and discharging.

8) Insert the new battery with the '+' symbol (positive side) facing up (see diagram above). There is a matching '+' symbol on the slot where the battery goes into that it should match up with.

9) Slide the circuit board back into the plastic housing along the guides. Then slide in the green label that covers the logger. You will know if everything is aligned if all the holes match up and you can see all of the sensors.

10) Check the color of the desiccant packet; if it is not still blue to bright blue, it likely needs to be replaced.

11) To do so remove the old desiccant packet and put it in the bag with the other used ones (they can be dried and used again), then place a new one (located in the small plastic bottles) in the underside of the little black end cap of the logger.

12) Once everything is back inside in the correct manner, replace the black end cap (ensuring that the desiccant pack is tucked into the cap, and the o-ring is seated in the groove, not pinched or twisted). Make sure no dirt or lint is trapped on the o-ring, as this could result in a leak.

13) Next screw the top back on with the two small screws. Do not over tighten the screws as they start to deform the clear plastic container where the logger sits, but make sure they are snug.

14) Note on your point count sheet that you offloaded the data from the HOBO datalogger and any problems that might have come up. Also note if you had to change the battery and/or desiccant packet.