



FIGURE S1. (a) Diagram of custom bulkhead designed and built by a student to hold a thermistor for faster response temperature sensing. The bulkhead was fabricated from acetal and has two screws that extend through the bulkhead to connect the 10 k Ω thermistor (orange) to the circuit. Once both screws were screwed all the way in, the hole was filled with hot glue, exposing only the thermistor. Wires from the bottom of the screws connect to the circuit on the prototyping PCB. The bulkhead is screwed into the end cap cover of the TDd and seals with a -121 O-ring. (b) With this new temperature sensor, the TDd captured the thermocline in the water column (data collected from Mobile Bay channel, May 2, 2022).