We did science, lots and lots of science! The morning began at Snugg Harbor, a beautiful, slightly breezy, sunny day, with only a few clouds in the distance. We brought a guest on board, Stefan, who stayed with us the duration of the day. As we set off on our way, we hoped and prayed that the whales would surprise us with an appearance, but we had no such luck. We decided to sample at one location, Kellett Bluff, for the entire day to get samples of the change in various science measurements.

Each hour, from 10:00-16:00, we lowered the calibrated hydrophone, took horizontal and vertical secchi disk readings (Phinn jumped in the icy water seven times!), and did a plankton tow. At 16:00, we finished our science goals for the day with a spreading experiment, using *Ratoncito.* The hydrophone data was really cool because we were able to see the received level changing in one location as ships passed by throughout the day. From the secchi disk, we found that the vertical deployment data stayed the same throughout the day, and the horizontal deployment’s visibility decreased throughout the day. The horizontal deployment started with decent visibility, then decreased significantly. The lowest reading was during middle of day. The last two readings showed an increase in visibility again (after 3:00). There are many physical and biological oceanographic factors that could have affected this, such as wind and phytoplankton abundance. The wind died dramatically from 14 knots to 1-2 and the plankton tows showed a lot of *Skeletonema costatum*, a *Protoperidinium*, and also an unknown creature that even Robin could not identify, which looked like a tiny, tiny moving circle with cilia all around it. Robin suggested it may have been a developing organism. We did not deploy the YSI, but in the future, we hope to do so in anticipation to compare more variables.

After returning back to Snugg Harbor for the night, Bre and Jamey made burritos. Stefan left the boat and returned with a really awesome and useful tripod so we could make progress on our Cherry Point video. We busted through the paper animation, in the dark and in the cold, but with lots of laughs and hearty, warm (garlicy?) brownies made by Bre and Phinn. Overall, it was a very successful day!