902305 - Event Detection Using the Sedimentation Event Sensor

Week 27

1. Denis Klimov
    a. Assessing previous design of a fluorometer and camera system. We have a number of options going forward, especially regarding a second video channel. But the consensus so far is that we should keep the existing 2-channel fluorometer for fluorescence signal reference and method continuity. Besides, its housing is likely too small for camera integration.
    b. The other important point, we are looking at eliminating a legacy solution of using liquid interface between cans with optics, and carousel disks which would allow better illumination and simplified assembly and maintenance.
    c. Preparing materials for proposal

Week 25

1. Rich Henthorn
    a. Check-in with SES using Waveglider - all good

Week 23

1. Irene Hu
    a. Looked into cameras for fluorocam, found one or two I think is good

Week 22

1. Irene Hu
    a. Looked into Rover's fluorometer with Alana and got box of spare parts

Week 21

1. Irene Hu
    a. Took a look at some schematics for ROVER
2. Denis Klimov
    a. Post-deployment discussions and looking at the previous design data for the imaging sensor.

Week 20

1. Rich Henthorn
    a. Spinning up the spare stack
    b. Looking into software design update

Week 19

1. Rich Henthorn
    a. Wave Glider heading out to meet the SES mooring next week

Week 15

1. Rich Henthorn
    a. Preparing for Durkin cruise SES mooring deployment
    b. Swapped flooded LF modem with spare we picked from ESP inventory reduction sale a couple years ago
2. Irene Hu
    a. In tank tests, SES modem flooded (pinched Oring?). Replaced with old SES modem (directional), with some older batteries installed. Overnight mission triggering TT seemed to work.
    b. Calibrated pH sensors
3. Denis Klimov
    a. Preparing for SES deployment; a number of runs in the Test Tank, to get some familiarity with how the instrument runs.
    b. Handling flooded LF modem and flooded/ corroded (DDR) battery pack; parts cleaned up and the board stack was washed and backed in the oven.

Week 14

1. Irene Hu
    a. Battery sphere conversion for standalone mode
    b. Changed batteries for modem. TT's modem somehow drained its batteries again, needs investigation
    c. Helping Crissy with O2 sensors

Week 13

1. Irene Hu
    a. Weekly meetings; prepping for deployment in April

Week 12

1. Rich Henthorn
    a. Integrate new detection algorithm into image processing

2. Irene Hu
    a. Trying to figure out connector orders

Week 11

1. Rich Henthorn
    a. Reviewing new event detection algorithm
2. Irene Hu
    a. Sent our incorrectly received oxygen logger back to Pyroscience

Week 9

1. Rich Henthorn
    a. Tested both sediment traps by soaking and then running the carousels
2. Denis Klimov
    a. We are starting regular meetings in the face of the upcoming deployments.
    b. Pre-deployment testing of SES instrument, to get familiar with its operation.

Week 8

1. Rich Henthorn
    a. Documentation project
2. Irene Hu
    a. Found the wrong model Aquaphox logger w/ Crissy, working on getting it exchanged

Week 7

1. Rich Henthorn
    a. SES documentation

Week 5

1. Rich Henthorn
    a. Reviewing Fluorometer data looking for event correlations

Week 3

1. Irene Hu
    a. Tested batteries for next deployment. Drawdown under load is higher than expected, but after some convos w/ Paul M and Alana, think it's within reason considering losses through measurement setup
2. Denis Klimov

    a. Looking how to use the upcoming deployment to have a repeatable fluorescence standard.

Week 2

1. Rich Henthorn
    a. Focusing on upcoming Deep-Canyon deployment scheduled in 13 weeks
2. Irene Hu
    a. Meeting; measuring some battery voltages