

771131 - Great Lakes PCM/HAB

Week 50

1. Brent Roman
 - a. Supporting GLERL in their efforts to divorce their ESPs from the locked down NOAA lab networks

Week 33

1. Brent Roman
 - a. Supported 3 ESPs deployed in the Lake Erie
 - i. Including first deployment on autonomous boat

Week 30

1. Brent Roman
 - a. Added support for a water sensor so ESP3G can be deployed without an LRAUV
 - b. Strategizing on how best to handle new Function cartridges
 - i. Because they define actuators differently depending on the type of cartridge loaded

Week 29

1. Scott Jensen
 - a. Preparing for full up thermal chamber testing
2. Brent Roman
 - a. Tweaking Honu's configuration in preparation for next month's deployments

Week 28

1. Scott Jensen
 - a. Thermal testing setup

Week 26

1. Scott Jensen
 - a. Cooler is capable of maintaining front chamber temperature with a simulated SPR module loaded.
2. Brent Roman
 - a. Readyg comms: a router and a macbook for Ussler

Week 25

1. Scott Jensen
 - a. There seems to be enough insulation on the flower pot ESP container to allow the cooler to keep the front section cool in a 40C environment.

Week 23

1. Enoch Nicholson
 - a. Test mounted pump and phase separator.
 - b. Added connector to hatch.
 - c. Cleaned and reassembled SEATRAC for shipping.

Week 22

1. Scott Jensen
 - a. The electronics that need to be added to Seatrac have been checked out
 - b. Wiring for Honu fabricated and tested.
2. Enoch Nicholson
 - a. Mounted phase separator & pump on SEATRC with bracket.
 - b. Finished machining control housing. Handed it off for wiring.

Week 21

1. Scott Jensen
 - a. Some effort in completing drawings for the installation of ESP into SeaTrac
2. Enoch Nicholson
 - a. Tested $\frac{1}{8}$ " moon pool mount. Too flimsy, made out of $\frac{1}{4}$ " 5052.
 - b. Designed a fairing for the pump to reduce drag and deflect debris.

Week 20

1. Enoch Nicholson
 - a. Produced and submitted drawings for phase separator / pump mounting bracket and electrical enclosure mounting plate.
 - b. Built phase separator.

Week 19

1. Enoch Nicholson
 - a. Mocked up mounting arrangement for phase separator, pump, and control / power housing.

Week 18

1. Scott Jensen
 - a. Parts location for powering ESP components in SeaTrac
2. Enoch Nicholson
 - a. Obtained parts for phase separator and discussed mounting plans with NOAA GLERL collaborators.

Week 17

1. Scott Jensen
 - a. Bring up of the TEC controller
2. Enoch Nicholson
 - a. On hold awaiting discussion of priorities.
3. Brent Roman
 - a. Documented our concerns about SeaTrans battery to GLERL

Week 16

1. Brent Roman
 - a. Installed OpenSSH on the Windows 10 machine in GLERL's SeaTrac autonomous boat.
 - i. A startup script holds open a tunnel to ESPshore allowing secure remote access
 - ii. Of course, since its Windoze, everything is done graphically via VNC
 - iii. Windoze has "PowerShell" now, which is vaguely POSIX-like.
 - iv. Configured a Remmina client on Linux to provide one click remote screen access

Week 15

1. Scott Jensen
 - a. Supported integration of ESP into SeaTrac

Week 14

1. Brent Roman
 - a. First test deployment of ESP in SeaTrac autonomous boat
 - b. Coded new set of high level methods to facilitate driving the 3G ESP on surface vessels

Week 13

1. Scott Jensen
 - a. Wiring is beginning

Week 12

1. Brent Roman
 - a. Starting work on ESP comms issues in the Sea-trac boat

Week 7

1. Brent Roman
 - a. Updated their 3 ESPs with Linux kernel that fixes long standing serial driver bug.