

901112 - Monterey Bay Time Series

Week 51

1. Denis Klimov
 - a. We had a technical group meeting for IFCB West Coast users, interesting discussions focused on data QA

Week 49

1. Brent Jones
 - a. Making mods to SIPPER drawings
 - b. Modifying existing SIPPER parts

Week 46

1. Brent Jones
 - a. Installed new nanobeacon mount on CPF
 - b. Installed and tested Apollo-X11 beacon on CPF
 - c. Successfully collected samples on new SIPPER/LRAUV
 - d. Ordering and manufacturing parts to convert old SIPPER to new style
2. Denis Klimov
 - a. IFCB is sitting happily in the lab; I am running the instrument every few days and performing system checks in order to keep the instrument clean and in shape.

Week 41

1. Brent Jones
 - a. Final button up of new SIPPER after minor repairs
2. Denis Klimov
 - a. Power Buoy had been recovered and IFCB opened up. The instrument looks to be in a good shape, and in the lab, for cleaning and periodic operation

Week 40

1. Brent Jones
 - a. Diagnosed dead battery in Wire Walker Cervello
 - b. Cleaned up Wire Walker from last deployment

Week 38

1. Brent Jones
 - a. Diagnosing a moving Wire Walker!

- b. Fixing water ingress in new Sampler. Required board rework
- c. Refining software to better work with existing LRAUV sampling scheme

Week 37

- 1. Brent Jones
 - a. Assembling new NanoBeacon and XEOS beacon mounts on CPF

Week 35

- 1. Brent Jones
 - a. Designing bracketry to better mount Xeos ApolloX11 tracker and nanobeacon
 - b. Diagnosing battery charging error

Week 34

- 1. Brent Jones
 - a. Diagnosing CPF GPS and batt recharge failures. Determined Antenna MUX for GPS+Iridium not working. Still working on batt recharge

Week 33

- 1. Brent Jones
 - a. Diagnosing GPS failure in CPF on last mission. Problem recreated, root cause not yet identified

Week 30

- 1. Brent Jones
 - a. Analyzing real time data for Wire Walker. Seeing if its sufficient for the science Yui and Francisco desire

Week 25

- 1. Brent Jones
 - a. New sipper assembled and awaiting test tank testing once Daphne gets back
- 2. Denis Klimov
 - a. So far, IFCB on Power Buoy is working; occasionally checking technical parameters (humidity etc) and Patrick at UCSC is monitoring imaging quality

Week 24

- 1. Brent Jones
 - a. Tuned EPOS4 in situ on SIPPER. Ready for final fill and test in water

Week 21

1. Denis Klimov
 - a. The IFCB instrument had been deployed on Power Buoy and so far performance had been good.

Week 20

1. Brent Jones
 - a. Upgraded RBR cervello and Maestro. Beginning assembly for testing in test tank

Week 19

1. Denis Klimov
 - a. We did a pre-deployment test of IFCB with Power Buoy in the Buoy Room, utilizing the second-level platform to lift the instrument up to the Power Buoy level; discovered the network issues controlling from UCSC while from inside the MBARI network things seem to be working ok; however, we need reliable data upload connectivity to UCSC server.
 - b. The IFCB is closed/ buttoned up and prepared to deployment this week

Week 18

1. Brent Jones
 - a. Acquired encoder for sipper H2O pump
 - b. Writing code to have PIC24 process encoder info
 - c. Updated PIC24 pcb to use encoder

Week 17

1. Denis Klimov
 - a. Running pre-deployment tests on IFCB; placed the order for spare parts

Week 14

1. Denis Klimov
 - a. Preparing for the upcoming deployment of Power Buoy. Also, ordering materials and spare parts.

Week 13

1. Brent Jones
 - a. Submitted new EPOS4 pcb to fab
 - b. Attempted swap of new 5G SIM card in WW modem failed. Diagnosing.

Week 12

1. Brent Jones
 - a. Received new pcb for EPOS controller. Starting fab
2. Denis Klimov
 - a. Working at diagnosing the leak in the IFCB and reviving the instrument for the upcoming deployment.

Week 11

1. Brent Jones
 - a. EPOS pcb completed and sent for manufacture
 - b. Flying LRAUV Daphne

Week 10

1. Brent Jones
 - a. Designing PIC24 interface card that uses new EPOS4 motor controller

Week 9

1. Denis Klimov
 - a. The repair/ update of IFCB with the bigger needle is underway.

Week 5

1. Brent Jones
 - a. Continuing to hack CAN bus and explore new Maxon EPOS4 controller
 - b. Updating SIPPER pic24 to work with Maxon EPOS4

Week 4

1. Brent Jones
 - a. Hacking CAN bus on new EPOS4 controller. Trying to fit stripped down C code into a PIC24

Week 1

1. Brent Jones
 - a. Received Maxon EPOS4. Learning how to use it