

901112 - Monterey Bay Time Series

Week 48

1. Brent Jones
 - a. Diagnosed eeprom problem on sipper elmo. Updating software to move eeprom storage to pic24

Week 46

1. Brent Jones
 - a. Flew and recovered Daphne
2. Denis Klimov
 - a. Table for the IFCB repair is configured, IFCB is suspended from the overhead rail system. Ordering a new leak tray for under-the instrument and to hold reagent bags.

Week 40

1. Denis Klimov
 - a. Parts for IFCB repair finally received. Looking into configuring a repair space which is challenging due to the instrument size and configuration

Week 39

1. Denis Klimov
 - a. Looks like McLane is going to ship parts for IFCB repair this week

Week 38

1. Denis Klimov
 - a. We are still waiting for parts for IFCB from McLane

Week 32

1. Denis Klimov
 - a. Repaired pumps are received from McLane but the rest of the order for rotary valve, needle, and filter cartridges is still back-ordered.

Week 29

1. Denis Klimov
 - a. The IFCB pumps had been refurbished at McLane. Turned out, one of the motors did not just come out of alignment, but actually failed. McLane is shipping back the refurbished pumps as well as the failed motor for a post-mortem.

Week 25

1. Brent Jones
 - a. Deploy spray 64
 - b. Recovered Wire Walker mooring and begin cleaning, refurb

Week 21

1. Denis Klimov
 - a. We had to do emergency recovery of IFCB using a trip with Paragon to Power Buoy location due to rising humidity. Suspecting internal needle clogging similar to what other groups along the Western seaboard are experiencing, especially close to shore due to silt contamination. First time emergency recovery was an experience; overall it came OK and we certainly learned of some improvements for the next time. Opening the instrument, there was about 5 mL of the water inside; so not a significant leak, luckily, and no much damage.
 - b. We are consulting with McLANE and other users on possible solutions and have parts on order. A new model of the needle introduced by McLANE recently, slightly larger and polished inside, is of particular interest.

Week 19

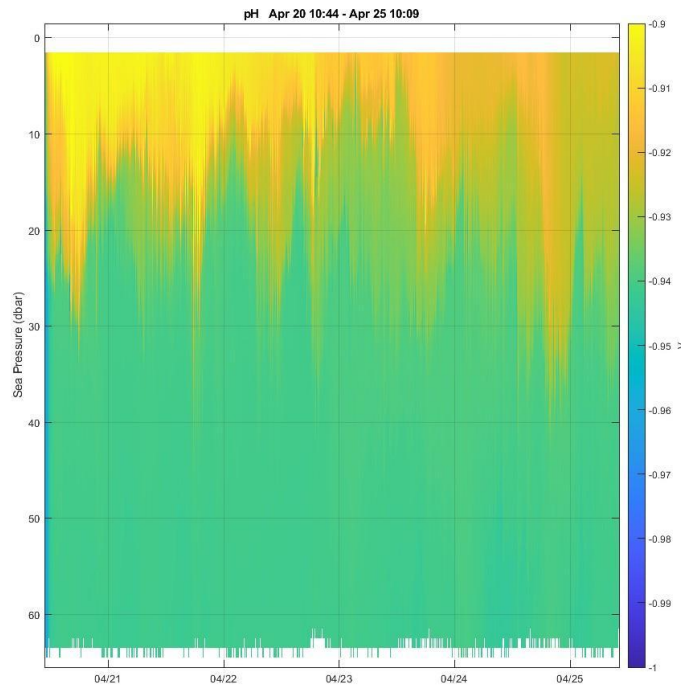
1. Brent Jones
 - a. Preliminary design for a Wire Walker launch and recovery system from the paragon
 - b. Wire Walker maintenance from Paragon
2. Denis Klimov
 - a. We are running into some issues on the IFCB operation on Power Buoy after a power outage and not sure yet if they can be rectified remotely; also, possibly, the issue came about during towing of Power Buoy out of the harbor due to silt contamination such as happening to the other IFCBs used near harbors and jetties by other users on the western seaboard this is

Week 18

1. Brent Jones
 - a. Flying LRAUV Daphne in support of MBTS
 - b. Diagnosing inductive comms errors with Wire Walker
 - c. Designing Wire Walker Paragon Launch and Recovery system
2. Denis Klimov
 - a. We had finally deployed IFCB on Power Buoy! Due to deployment delays, we had to keep the instrument in the lab in closed configuration which means we had to set a local network test environment in order to monitor and control the IFCB. Deployment went well but then we lost power overnight due to calm conditions which created what looks like bubbles in the sheaf circuit. This issue is taking some effort to overcome using remote controls but looks like performance is getting better so with any luck we could get the instrument back to 100% performance without recovering.

Week 17

1. Brent Jones
 - a. Prepped and deployed MBARI Wire Walker. Diagnosed problems in the internal inductive modem system that prevented real-time telemetry of data
 - b. Got 5 days of data including our first of pH profiles



c.

Week 13

1. Denis Klimov
 - a. Software update for the IFCB instrument had created some problems which were eventually resolved. We are continuing testing the software and started equalizing the instrument to the seawater in a preparation for the upcoming deployment

Week 12

1. Brent Jones
 - a. Flew Daphne in support of MBTS

Week 8

1. Brent Jones
 - a. Meetings
 - b. Design of sed trap compensator

Week 7

1. Brent Jones
 - a. Redesigning sediment trap housing so can use newer comp system

Week 5

1. Brent Jones
 - a. Zooglider training at SIO
2. Tom O'Reilly
 - a. Attended Imaging Flow Cytobot workshop hosted by Kudela lab at UCSC, along with other West Coast IFCB users from Scripps, UCSB, and others. Learned that McLane now provides a kit to enable IFCB operation while in a horizontal orientation, which opens interesting possibilities to integrate the

instrument with Wave Glider or an AUV. Learned that latest IFCB software offers more flexibility in sampling procedure and schedules, no longer assumes constant power and communications.

Week 4

1. Tom O'Reilly
 - a. Attending Imaging Flow Cytobot (IFCB) workshop at UCSC

Week 3

1. Brent Jones
 - a. Modifying WaveGlider tracking algorithm
 - b. Testing WG tracking onshore

Week 2

1. Brent Jones
 - a. Improving WaveGlider tracking algorithm by instituting a running mean filter