

Brent Jones Sorted By Project

701149 - Improving pCO₂ estimates

708143 - ECOHAB

- Helped prep and deploy (multiple times) 2ea SIO wire walkers in support of experiment (Week 17)
- Finishing up with SIO and MBARI Wire Walkers for the ECOHAB project (Week 18)

901009 - CANON

- Prepping CPF for canon deployment (Week 19)
- Demobed Wire Walker. Replacing cable between cervello and hammerhead junction (Week 26)

901112 - Monterey Bay Time Series

- Improving WaveGlider tracking algorithm by instituting a running mean filter (Week 2)
- Modifying WaveGlider tracking algorithm (Week 3)
- Testing WG tracking onshore (Week 3)
- Zooglider training at SIO (Week 5)
- Redesigning sediment trap housing so can use newer comp system (Week 7)
- Meetings (Week 8)
- Design of sed trap compensator (Week 8)
- Flew Daphne in support of MBTS (Week 12)
- Prepped and deployed MBARI Wire Walker. Diagnosed problems in the internal inductive modem system that prevented real-time telemetry of data (Week 17)
- Got 5 days of data including our first of pH profiles (Week 17)
- (Week 17)
- Flying LRAUV Daphne in support of MBTS (Week 18)
- Diagnosing inductive comms errors with Wire Walker (Week 18)
- Designing Wire Walker Paragon Launch and Recovery system (Week 18)
- Preliminary design for a Wire Walker launch and recovery system from the paragon (Week 19)
- Wire Walker maintenance from Paragon (Week 19)
- Deploy spray 64 (Week 25)
- Recovered Wire Walker mooring and begin cleaning, refurb (Week 25)
- Flew and recovered Daphne (Week 46)
- Diagnosed eeprom problem on sipper elmo. Updating software to move eeprom storage to pic24 (Week 48)

901502 - Passive Acoustic Sensing

- Meetings (Week 26)
- Processing Wire Walker hydrophone data (Week 33)
- Looking at clock skew between hydrophone and RBR logger (Week 36)
- Meeting (Week 44)
- Determined cause of loss of AOS serial data was due to config error in SIMRAD software (Week 44)
- Visit Sanctuary Exploration Center in SC to familiarize myself with MBARI whale exhibit. (Week 51)

901700 - Acoustical Ocean Ecology

901805 - Coastal Biogeochemical Sensing Program

- Working on getting another Wire Walker pH setup to Humboldt State (Week 2)
- Continued work on integrating Pico pH into Spray (Week 2)
- Ground station testing on Pico integration into Spray (Week 3)
- Starting to integrate elevation return from Benthos USBL for better tracking (Week 5)
- Moved into Spray lab at ESB (Week 5)
- Beginning design for more automated ballast scale readings. Matlab code to take measurement readings and run through a low pass filter (Week 7)
- Mechanical design for scale apparatus (Week 7)
- Flying spray29 in support of Yui experiments (Week 8)
- Teaching James how to do batt swaps (Week 8)
- Designed test tank bridge plate adapter for new ballasting facility (Week 8)
- Flying spray 34 (Week 9)
- Prepping spray 29 (Week 9)
- Testing code on WG tiny for upcoming tracking mission (Week 9)
- Flying spray 29 and 34 (Week 10)
- Testing WG tracking code using elevation (Week 10)
- Processing pH data from MBARI Wire Walker (Week 17)
- Monitoring spray 34 (Week 33)
- Adding more tracking capability to WG (Week 33)
- Diagnosing and fixing comms problems between pH and spray (Week 35)
- Diagnosing excessive corrosion on spray pcase (Week 35)
- Bug detection on integration of Nanofet. New code should take all flavors of MFET controllers. Bench testing in progress (Week 38)
- Flying Spray29 in support of experiment. (Week 51)
- Diagnosing issues with data coming back (Week 51)

902004 - Planktivore

- meeting (Week 8)
- meeting (Week 9)
- Building jetson for testing planktivore code (Week 10)
- Building second planktivore controller. Integrating software from Eyeris LRAUV (Week 11)
- Continuing build of planktivore cpu for LRAUV. Installed cameras. Got the backseat helper app running so can take advantage of existing clean shutdown procedures (Week 12)
- Helped deploy and recover planktivore 2x from the paragon (Week 17)
- Diagnosing and fixing network issues between LRAUV and planktivore (Week 35)
- Final testing for integration on ahi (Week 38)
- Modifying to send LCM roi avg counts back via dash (Week 40)
- Getting planktivore to send back real time ROI counts to the dash (Week 42)
- Supported planktivore LRAUV deployment. ROI's were received onshore!!! Diagnosing possible outages somewhere in the slate or LCM arenas. (Week 44)
- Investigating clock problems. Figured out we need a time server on LRAUV (Week 46)
- Debugging issues with clock sync between ptvr and lrauv (Week 48)

902101 - LRAUV Technology Development and Fleet Operations

- Looking at increasing LCM logging for Great Lakes op (Week 25)
- Reviewing performance in field for BioAcoustics LCM traffic (Week 26)

- Processing GL data. Still gaps in LCM data flow (Week 35)
- Processing navigation data trying to figure out why packets are being dropped (Week 36)
- Looking at timeservers on LRAUV. Building LCM on windoze (Week 46)

902311 - Wire-Walker Power Generation

- Doing preliminary efficiency and mechanical design calcs for piston (Week 8)
- meeting (Week 8)
- Test setup is finished. Looking to begin testing with old SOLOI pump (Week 38)
- Bench testing SOLOII motor for regen efficiency (Week 40)
- Sourced a DC motor + gearbox combo and beginning bench tests. Designed a mounting system for said motor (Week 42)
- Installed new motor+gearbox on test apparatus and am performing bench tests. Looks like its about 25% efficient at the moment (Week 44)
- Sizing ball screw for piston regen (Week 46)
- Designing piston and cylinder for 1L system (Week 51)

DQ2132 - OAH THOON

Out of Office

- Sick with covid
- 2 days storm
- Sick leave
- Jury duty
- 1 day vacation

Overhead

- meetings! (Week 12)
- Submitted wiring harness for M1 Cell to elec techs (Week 25)
- Redesigning battery layout and adding 3 packs to M1 cell (Week 25)
- Redesigned M1 cell batt pack. Printing brackets. Testing wiring (Week 26)
- Proposals (Week 26)
- Hacking smbus on Dorado batts so they will work in M1 cell test (Week 33)