

901405 - PowerBuoy Development

Week 50

1. Francois Cazenave
 - a. Prepared recovery
 - b. Working on new tether
2. Rich Henthorn
 - a. Checked the nav440_server for anomalies
3. Scott Jensen
 - a. Preparing operations manual for power converter

Week 49

1. Francois Cazenave
 - a. Working on tether order

Week 48

1. Francois Cazenave
 - a. Working on new tether South Bay

Week 45

1. Francois Cazenave
 - a. Getting quotes for new tether

Week 43

1. Francois Cazenave
 - a. Monitoring buoy

Week 42

1. Francois Cazenave
 - a. Monitoring buoy

Week 39

1. Francois Cazenave
 - a. Monitoring buoy

Week 36

1. Francois Cazenave
 - a. Monitoring buoy
 - b. Ordering new cables

Week 35

1. Eric Martin
 - a. Thinking about the tether change if any.

Week 34

1. Francois Cazenave
 - a. Monitoring buoy
 - b. Inspection dive on buoy

Week 33

1. Francois Cazenave
 - a. Monitoring buoy

Week 32

1. Francois Cazenave
 - a. Monitoring buoy

Week 31

1. Francois Cazenave
 - a. Monitoring buoy
2. Scott Jensen
 - a. Prepared old bridge controller for shipment as a working model to UofW

Week 30

1. Francois Cazenave
 - a. Monitoring buoy

Week 29

1. Francois Cazenave
 - a. Monitoring buoy
 - b. Building buoy stand extension
2. Rich Henthorn
 - a. Ocean Energy Webinar
3. Scott Jensen
 - a. Meetings about battery system development

Week 28

1. Francois Cazenave
 - a. Buoy Frame extension fabrication

Week 26

1. Scott Jensen
 - a. Discussions about battery situation and funding

Week 23

1. Francois Cazenave
 - a. Monitoring buoy
 - b. Designing buoy tower extension and ordering materials

Week 22

1. Francois Cazenave
 - a. Monitoring Buoy
2. Rich Henthorn
 - a. Checked on the buoy currently deployed in Monterey Bay

Week 21

1. Rich Henthorn
 - a. Wrapping up the simulation logger (for now)
 - b. Timestamps look good
 - c. Last unit conversions to match real logger
2. Scott Jensen
 - a. Started assembling the next revision of the BMS prototype

Week 20

1. Rich Henthorn
 - a. Weekly meeting with OSRF
 - b. Test sim_pblog updates

Week 19

1. Francois Cazenave
 - a. Monitoring buot
2. Rich Henthorn
 - a. Minor modifications to simulation logger (timestamps and unit conversion)
3. Eric Martin
 - a. A little look into issues with sensors on the top hat.

Week 18

1. Rich Henthorn
 - a. Testing buoy-sim with logging
2. Eric Martin
 - a. Minor support on checking items out before deployment.
3. Enoch Nicholson
 - a. Assisted with buoy rigging & deployment.

Week 17

1. Rich Henthorn
 - a. Some renaming of the sim_pblog components
2. Scott Jensen
 - a. Preparing next BSM prototype PCB for release to fabrication

Week 16

1. Francois Cazenave
 - a. Assembly buoy

Week 15

1. Francois Cazenave

- a. Preparing buoy for deployment
2. Rich Henthorn
 - a. Deployment prep
3. Scott Jensen
 - a. Working on BMS prototype. The chip talks!
4. Eric Martin
 - a. Repair of the yellow cable, checking out assets
 - b. Radar data collection tests

Week 14

1. Eric Martin
 - a. EM Cable Termination tests
 - b. Replacing Yellow Cable
 - c. Radar Testing

Week 13

1. Francois Cazenave
 - a. Preparing the buoy for deployment
2. Rich Henthorn
 - a. Simulation logging - passed baton to andermi for gazebo launch params and launch command
 - b. Addressing issues as they come up
3. Scott Jensen
 - a. First BMS prototype PCB has been sent out for fabrication

Week 12

1. Francois Cazenave
 - a. Preparing for deployment
2. Rich Henthorn
 - a. Cleared CI issues with sim_pblog
 - b. Addressing epoch seconds issue with sim_pblog
3. Eric Martin
 - a. Upgraded radar drivers for new python on upgraded ubuntu

Week 11

1. Francois Cazenave
 - a. Assembling buoy
2. Rich Henthorn
 - a. Implementing sim_pblog for buoy sim project
 - b. Populating AHRS and Trefoil sections

Week 10

1. Francois Cazenave
 - a. Shipped tether to TMT
 - b. Reassembled the buoy
 - c. Supervising fabrication of new tether guide
2. Rich Henthorn
 - a. Progress on the sim_pblog module for csv-logging of buoy simulation

Week 9

1. Francois Cazenave
 - a. Worked with Conway on taking buoy apart and welding new lifting eye and making repair
 - b. Assembled new tether with PE jacket and shipped to TMT
 - c. Design saddle for buoy on dock
2. Jon Erickson
 - a. UW turbine MBARI mods (solids and prints)
3. Rich Henthorn
 - a. sim_pblog - logger in buoy simulation
4. Scott Jensen
 - a. Current measurement error was located and fixed.
 - b. Battery ESR and Cell voltage can now be read.
 - c. Much struggles with trying to read back configuraqtion data from the BMS parts.
5. Eric Martin
 - a. Evaluating UPS board, may need a reset button.

Week 8

1. Rich Henthorn
 - a. Successfully build the ROS/Gazebo buoy_sim project
 - b. Integrating a Logger node

Week 7

1. Rich Henthorn
 - a. Porting Logger to buoy sim platform for future use on target

Week 6

1. Francois Cazenave
 - a. Met with tribology engineer regarding tether wear
2. Rich Henthorn
 - a. Implementing Logger for the buoy_sim
 - b. Issues building the buoy_sim project

Week 5

1. Francois Cazenave
 - a. Working on new tether guide design
 - b. Making various preparations for deployment
2. Rich Henthorn
 - a. Using 'buoy entrypt' docs to build simulation environment
3. Scott Jensen
 - a. An evaluation board for the BMS cell measurement has been received and understanding is beginning. It has rather poor documentation which is slowing the progress on communications.

Week 4

1. Francois Cazenave
 - a. Inspected tether
 - b. Designing new tether guide
2. Rich Henthorn
 - a. Prelim design of simulated Logger

- b. Design of trefoil and battery controllers
- 3. Scott Jensen
 - a. Found a possible solution to the battery BMS and have ordered development boards

Week 3

- 1. Francois Cazenave
 - a. Making plans for 2023.
 - b. Organizing project hardware
- 2. Rich Henthorn
 - a. Prep for buoy sim TF controller implementation
- 3. Scott Jensen
 - a. Development continuing with a parallel COTS solution is being investigated.

Week 1

- 1. Eric Martin
 - a. Assembling UPS board on test RaspberryPi to see how well it works.