

Enoch Nicholson

Week 30

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - June 26 to July 6th

Week 29

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - June 26 to July 6th

Week 28

- 706008 - READI-Net
 - FIDO packing for the Newport deployment
 - Supporting intern project
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Open house prep
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development

- 902111 - Carbon Flux Ecology
- Overhead
 - Developed presentation for Highschool Robotics Camp
- Out of Office
 - June 26 to July 6th

Week 27

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 26

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 25

- 706008 - READI-Net
 - READI-Net assembly modeling; added parts and fasteners and wrapped most insertion tasks, with BOM nearly ready to hand off
 - Set up FIDO on the dock
 - Reviewed phase separator drawings
- 901007 - Benthic Biology & Ecology
 - Wrapped up BRS instrument recovery and diagnosed chamber injection failures
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
 - Started Biolink task tracking

- Planned DOEST tour stops
 - Reviewed TIDE proposal and next-year tasking
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Started UAV project proposal form
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
 - Restarted variable buoyancy (VB) system project
- 902111 - Carbon Flux Ecology
 - Tested acoustic release with bucket; confirmed functional and handed remaining mods to the team
- Overhead
 - Vault setup for new users
- Out of Office

Week 24

- 706008 - READI-Net
 - Reprogrammed FIDO5
 - Continued FIDO wrap-up documentation and finalized open items
 - Met with Jim to plan BOM completion; focus on parts inventory and data cards
 - Continued cylinder assembly
 - Onboarded summer intern Brooke
- 901007 - Benthic Biology & Ecology
 - Cleaned lab space
 - Relocated BRS cart to the G high bay
 - Supported BRS Deployment
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
 - Attended middleware update meeting
 - Met with Nadia and Kev to scope 3G work (BioLink integration, 3G depth hardening) and next-year deep sampling requirements
 - Reviewed labor allocations with Kev for sub-task breakdown
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - Helped come up with a concept for an acoustic released recovery line. Yamir to build.
- Overhead
- Out of Office

Week 23

- 706008 - READI-Net

- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 22

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 21

- 706008 - READI-Net
 - Investigated puck metadata for Brazil deployment
 - Provided troubleshooting support to USGS
- 901007 - Benthic Biology & Ecology
 - Completed hydraulic pump assembly and resolved priming issue
 - Installed injection pumps and finished pump checkout
 - Coordinated elevator setup for BRS
- 901205 - ESP SURF Center
- 902609 - TIDE OMICS
 - Received quote for Nanoliter pump and scoped FMI pump alternatives
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Completed SUAS recurrent exam
 - Submitted flight request for Carson cruise
 - Conducted Matrice test flight off the Carson
 - Started consolidated flight request, ops, and risk-management form
 - Onboarded Karen on Matrice for test flights
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead

- Intern Mentoring agreement
- Out of Office

Week 20

- 706008 - READI-Net
 - Completed shipping prep including nitrogen leak checks and leak-rate calculations confirming systems OK to ship
 - Terminated pumps and reprogrammed pump controllers; verified operation before shipment
 - Investigated logs from Brazil deployment
- 901007 - Benthic Biology & Ecology
 - Verified all injection pumps held pressure after rebuild
 - Diagnosed leak in hydraulic pump barb fitting and rebuilt; assembled remaining two hydraulic pumps
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Completed three Matrice test flights off the Paragon searching for velella. Captured lessons learned on Paragon hatch covers and non-slip mats
 - Rebuilt spare CW prop assembly from damaged units and ordered replacement parts
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
 - Modeled BW dive jar and prepared for next prototype round
 - Sent intern mentoring agreement
 - Completed Project Management Training
 - Captured SCUBA EyeRIS component weights for buoyancy calculations
 - Final LPS Letter
 - Abstract Presentations
- Out of Office

Week 19

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 18

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 17

- 706008 - READI-Net
 - Merged code branches into test-ready sampler firmware version
 - Reinstalled vacuum pump valve with new hardware. Showed able the process
- 901007 - Benthic Biology & Ecology
 - Filled BRS compensator and injection pump; tested pressure configurations
 - Installed QDC fittings on pump manifold and validated low-pressure regulator
 - Finalized compensator configuration
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Created flight requests for Matrice test flight and state parks surveys
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
 - Scoped lifting bail FEA approach and set up ANSYS analysis from SolidWorks exports
 - Completed first MECHTECH candidate interview
- 902111 - Carbon Flux Ecology
- Overhead
 - Discussed apprenticeship program scope: one candidate, September start, drawing-focused role
 - Completed Dive First Aid Pro certification course
- Out of Office

Week 16

- 706008 - READI-Net
 - Delivered FIDO vacuum-check fix to Montana; installed and running on FIDO 6
 - Established revised vacuum sensor limits
- 901007 - Benthic Biology & Ecology

- Initiated pump tubing replacement and fluid swap from fluorinert to silicone oil; baselined dry current draw on 7 NF10 injection pumps
 - Rebuilt first injection pump with EPDM tubing and verified operation in housing
 - Ordered Cole Palmer hardware for 1/4-28 fill port conversion
 - Handed off updated pump drawing to Ray for NPT port machining and Uniontech reprint
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
 - Set up lifting bail structural analysis framework and completed hand calculations for base vehicle; ready for FEA
- 902111 - Carbon Flux Ecology
 - Supported SINKER deployment off Packard
- Overhead
- Out of Office

Week 15

- 706008 - READI-Net
 - Completed Bozeman elevation troubleshooting and filed root-cause case study
 - Began vacuum fix to FIDO sampler code branch
 - Investigated FIDO 6 nitrogen capsule depletion anomaly (volume counter / suspected slow leak)
 - Delivered READI-Net summary to USGS
 - Scoped FIDO vacuum valve install for mechanical wrap-up
- 901007 - Benthic Biology & Ecology
 - Performed BRS pump teardown and inspection; identified hydraulic pump tubing damaged by fluorinert
 - Purchased replacement tubing for hydraulic pumps
 - Submitted machine shop request for additional BRS pump housings
 - Assembled pump test equipment and trialed clamp tool
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - Moved SINKER to the dock and loaded supplies onto the Packard
- Overhead
 - Finalized prototype dive jar design and sent ordering info
 - Onboarded more users to the vault
- Out of Office

Week 14

- 706008 - READI-Net
 - Packard Deployment of FIDO
 - Supporting Bozeman FIDO deployment
- 901007 - Benthic Biology & Ecology
 - Beginning instrument prep ahead of April deployment
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Packard Flight attempt
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - SINKER packard operations
- Overhead
 - Reviewing and interviewing Interns
- Out of Office

Week 13

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - Sick

Week 12

- 706008 - READI-Net
 - Setting up for Packard install
- 901007 - Benthic Biology & Ecology
 - Injection and Hydraulic Pump Redesign
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Packard flight prep
 - Terrace Point Survey
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - Sinker Packard Recovery/redeploy planning

- Overhead
- Out of Office
 - Sick

Week 11

- 706008 - READI-Net
 - Vacuum Sensor modifications
- 901007 - Benthic Biology & Ecology
 - Pump redesign for hydraulic and dosing system
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Flight planning
 - Intern review
 - Installing polarizer
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - Sick

Week 10

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - Sick

Week 9

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead

- Out of Office
 - Sick

Week 8

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - Sick

Week 7

- 706008 - READI-Net
 - Migrated FIDO design files to MBARI vault
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - Working on SINKER OSM presentation
- Overhead
 - MARS bulkhead simulation
- Out of Office
 - Sick

Week 6

- 706008 - READI-Net
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

Week 5

- 706008 - READI-Net
 - Performed nitrogen leak and feature testing on FIDO
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Built flight data scraping tool for annual report generation
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - SINKER deployment preparation
- Overhead
- Out of Office

Week 4

- 706008 - READI-Net
 - Completed nitrogen sensor install on FIDO 8
 - Pushed nitrogen sensor firmware feature
- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - First UAV Flight with Trinity Pro outside of Moss Landing
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
 - Planned fabrication tasks for upcoming SINKER deployment
- Overhead
 - Completed annual review training
 - Created gcode signing script for Prusa slicer exports
 - Trained on Prusa 3D printing system
 - Set up new team member with PDM vault access
- Out of Office

Week 3

- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office

- Thursdays at MLML

Week 2

- 901007 - Benthic Biology & Ecology
- 901205 - ESP SURF Center
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902101 - LRAUV Technology Development
- 902111 - Carbon Flux Ecology
- Overhead
- Out of Office
 - Thursdays at MLML