

WeeklyReport

Engineering Weekly Report 11/27/2025 - 12/4/2025

<https://docs.mbari.org/internal/projects/Engineering/Weeklies/2025/>

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - Out of Office
 - Nov 26 - Dec 2: vacation
- Francois Cazenave
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Working with Abel to assemble cable terminations
 - Working on replacement for leaky fittings on PTO
 - 902106 - Niobicon-Based AUV Docking Development
 - Purchasing stretch hose
 - Project management
 - Out of Office
 - 2 days of vacation
- Danelle Cline
 - Out of Office
 - November 26th vacation
- Duane Edgington
 - Out of Office
 - Dec 1 - Dec 5 Acoustic Society of America meeting.
- Jon Erickson
- Kevin Gomes
- Andy Hamilton
- Kent Headley
 - 902204 - Scalable Robotics
 - meeting
 - Overhead
 - staffing
 - review prep
 - hyperion meeting
 - misc admin
 - Out of Office
 - 12/22-1/2 vacation
- Rich Henthorn
 - 902305 - Event Detection Using the Sedimentation Event Sensor
 - Numerous updates and fixes to SES control
 - Refactoring detection

- Investigated Trigger Trap malfunctions
- Overhead
 - Rachel Carson cookie break and swag orders
- Out of Office
 - Dec 4 - WFH
 - Dec 11 - WFH
 - Dec 19 - Jan 1: Vacation
- Akshay Hinduja
 - 901809 - Deep Sea Bioinspiration
 - Preparations for kick-off meeting with CVision for DeepPIV pipeline automation
 - 902101 - LRAUV Technology Development
 - Finished v1.0 of tethystales, pending feedback on install and runtime from users
 - Meet with LRAUV team to scope next iteration requirements
 - 902204 - Scalable Robotics
 - Test data collected last week for harbor surveys
 - Resume Sonar based navigation development
- Brett Hobson
- Irene Hu
 - 901217 - Chemical Sensors
 - Minor help with TIP can
 - 901805 - Coastal Biogeochemical Sensing Program
 - Continued work on alkalinity sensor. Code updates to speed up. Collect data and process to detect inflection points, but setup is imprecise so inflection points don't always show up. Code update for file write but FatFS seems broken. New rev B board works well but shows a consistent 2-3% error in current generation, trying to troubleshoot
 - Out of Office
 - Dec 25 - Jan 2: vacation
- Scott Jensen
 - 706008 - READI-Net
 - Wrapping up project and preparing for training meeting
 - 901205 - ESP SURF Center
 - Preparing for FIDO training meeting
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - 6x build of power electronics is now complete
 - Supporting design of HDS battery system
 - Out of Office
 - Vacation December 22- January 2
- Brent Jones
- Chad Key
 - Out of Office
 - Out of office on Fridays
- Brian Kieft
 - 901513 - Targeted Sampling by AUVs
 - Met to discuss ESP sampling strategy for Brizo deployment.
 - 902101 - LRAUV Technology Development
 - Brizo/Makai launched today to kick off ESP sampling and Arctic sim testing.
 - Mission work for arctic demo
 - Fixed issue with reliability plots

- Overhead
 - Hyperion meeting
 - Met with Ivan/team to go over last deployment and discuss plans for this coming and final deployment
- Out of Office
 - 12/05 (MST)
 - 12/08 (MST)
 - 12/20-01/02 (various)
- Denis Klimov
- Eric Martin
 - Out of Office
 - Underwater Intervention 12-2-12/8
 - Vacation 11/25-11/26
 - Vacation 12/22-12/24
- Thom Maughan
 - 300078 - DMO Support - AUV
 - Hyperion power supply design and layout
 - Review and discussion on next steps for MVC2 / SOM carrier, LCB, backplane
 - Hyperion Meeting
 - 300083 - DMO Support - LRAUV
 - Batman firmware release and test
 - First two packs are in assembly and then will be de-guassed and installed in Galene
 - Working on procedure for identifying weak battery sticks from the old packs
 - 901009 - CANON
 - Deep Edna support
 - Spec'ing out another high perf compute server as a possible spend path for science department year end funds
 - Meeting with IS regarding backup of larger 60TB drive possibility for deepedna1 and 2
 - 901217 - Chemical Sensors
 - Dana Swift at UW has requested a point release for the MSC3. Working with the chem sensors team on the bug listed slated for the point release as well as setting up for testing.
 - 901805 - Coastal Biogeochemical Sensing Program
 - Working with Jim Davis on v5.2 MoSoS for MFET, NanoFET, MpHOX
 - Reviewed Brent Jones new NanoFET hardware design
 - Support for Irene's Alkalinity effort on MpHOX rB
 - 902004 - Planktivore
 - Housings are on track for fab by end of year
 - Planktivore V2 assembly has been delayed, plan is to resume mid-December
 - Out of Office
 - Vacation 21 Nov to .28 Nov
- Mike McCann
 - 901101 - Seafloor Mapping
 - Counseling the capstone students through a merge conflict issue
 - With Plankton Proxies work at a checkpoint can now start on the SMDB infrastructure update
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Closed [auv-python Issue #6](#), now loading pontus biolume data into stoqs_lrauv_jun2025
 - 902101 - LRAUV Technology Development
 - Fred said that auv-python processed ahi data has thebad interpolation problem fixed
 - Overhead

- Had to restart several services following VM cluster work Tuesday night
- Out of Office
 - 22 December - 2 January: Vacation
 - 5-23 January: Remote work from Seattle area
- Paul McGill
 - Out of Office
 - I've been busy sleeping in because I'm retired!
- Enoch Nicholson
 - Out of Office
 - Thursdays at MLML
- Tom O'Reilly
- Mike Risi
 - Out of Office
 - Offsite on Tuesday and Friday
 - March 3 - March 6, 2025 - vacation
 - June 2 - June 6, 2025 - vacation
 - June 16, 2025 - vacation
 - July 2, 2025 - vacation
 - July 29 - August 1st - vacation
 - November 10 - November 14 - vacation
 - December 1 - vacation
 - January 19, 2026 - January 30, 2026 - vacation
- Paul Roberts
 - 901513 - Targeted Sampling by AUVs
 - Review of krill detection deployment
 - Planning for EPS target sampling deployment
 - 901809 - Deep Sea Bioinspiration
 - Scuba-EyeRIS build
 - 902306 - SINKER
 - Data management
 - EOY spending
 - Out of Office
 - Nov 22 through Nov 30, Scotland
 - Dec 26 through Jan 4, San Diego
- Brent Roman
 - 901205 - ESP SURF Center
 - Helped Nadia diagnosed Forearm problems at NWFSC (with ESPeddie at Steph's lab)
 - Rewrote and debugged udev rules to configure cell modems on FIDO and ESP
 - 902304 - Piscivore Cam
 - Configured G3 camera for another deployment
- Carlos Rueda
 - Out of Office
 - Dec 1–11, 22–30: vacation
 - Jan 2–5: vacation
- Karen Salamy
 - 300057 - Mooring Maintenance
 - Weekly review and maintenance of coredata8
 - 901101 - Seafloor Mapping
 - Planning final upgrades to the SMDB Dash and push to the production server next week.
 - 902306 - SINKER

- Majority of week spent on the SINKER for final updates to requests on the app before the recovery of the system on Dec. 17.
 - Attended a SINKER meeting yesterday to discuss the need to create a SQL Database for the data we have collected and will collect in the future.
- Overhead
 - Out of Office for Thanksgiving Holiday last week.
- Out of Office
 - On Vacation for Christmas Holidays: Mon. Dec. 22, 2025 - Fri. Jan 9, 2026. Back in the office on Jan 12th. I will be online and available to help during this time, albeit intermittently.
 - On-campus 3 days/week (**T, W, TH**). New OFFICE - G106.
- Brian Schlining
 - Out of Office
 - Nov 15, 2025 - Nov 21, 2025 - PAIDIVER workshop. University of Southampton, UK.
 - Nov 26, 2025 - Dec 3, 2025 - Vacation
 - Apr 6, 2026 - Apr 24, 2026 - Vacation
 - May 18, 2026 - May 22, 2026 - Marine Imaging Workshop, Gibraltar
- Alana Sherman
 - 902401 - Geo-Sense
 - Looking at new linden cable option
 - Revisiting our winter deployment plan due to the delay of the Mini
 - Budget and spending
 - Overhead
 - Working on submitting all promotion materials
 - Working on new hire resource requests
- George Stern
 - 902204 - Scalable Robotics
 - Opened OakD500M can to replace SD card and timing card
 - Updated HSI schematic
 - 902304 - Piscivore Cam
 - End of year spending plans
- Justin Tucker
 - Out of Office
 - Fridays through March 2026
- Johann Voigtlander
 - 902204 - Scalable Robotics
 - Completed blueboat survey of the harbour
 - Purchased blueboat spares
 - Looking at transport case for blueboat
 - 902208 - Mini ROV Operations
 - Powered 10' van to inspect AC unit
 - Purchased VN100, computer equipment, made PO for DVL
 - 902402 - CSEM
 - Completed BlueROV water sampling modification and validated functionality in the test tank
 - Working on shipping paperwork
 - Packing gear for shipping
 - Out of Office
 - Dec 16th - Jan 10th - Vacation
 - May 30th - June 5th
 - Oct 9-13th

