

WeeklyReport

Engineering Weekly Report 11/20/2025 - 11/27/2025

<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
- Danelle Cline
 - 901103 - Biodiversity and Biooptics of Zooplankton
 - Trained RF-DETR large model. 0.91 mAP@50 for target species Ctenophora sp. A
 - 901221 - Midwater Time Series
 - Processed two dives with argo kubernetes workflow & loaded tracks into the Tator. No issues other than Danelle's office getting really warm as the 4 GPUs work. Reviewed track results with Rob. Next steps are swapping out the tracker and experimenting with dropped frames to inform the i2MAP recording frame rate.
 - 901502 - Ocean Soundscape
 - Working on real time workflow. Reviewed with John and now have an optimized flow design for hourly reporting. Expect to finish that next week.
 - 902111 - Carbon Flux Ecology
 - Many discussions with vendors about enterprise tools for planktivore collaboration and general ML devops with Laura Chrobak
 - Quick testing of Voxel51 to better understand the API
 - 902306 - SINKER
 - Cleaned up the production deployment code [#1](#)
 - 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
 - 701147 - DMO Support - MARS O&M
 - Updated GUI layout: add MVC and Hotel tabs, distribute ADC tab content across new tabs.
 - Test/debug changes
 - Overhead
 - Planning: staffing
 - Review prep

- Misc overhead
- Out of Office
 - 11/17-19 sick leave
 - 12/5, 8, 17, 29 in/out early (tentative)
 - 12/22-1/2 vacation
- Rich Henthorn
 - Out of Office
 - Dec 19 - Jan 1: Vacation
- Akshay Hinduja
 - 902101 - LRAUV Technology Development
 - Improvements to tethystales - lrauv log visualization.
 - Added panel for playback, scrubbing and log selection
 - Added panel to visualize attitude
 - Added realistic mesh for lrauv from osrf files
 - Working on simplifying package setup for end user
 - Spoke with Mike about possibly adding Monterey Bay geotiff to rviz map
 - 902204 - Scalable Robotics
 - Tie up loose ends on config read/write between driver, gui config client and console config client
 - Assist survey of dock
 - Assist in lcm log conversion to s7k
- Brett Hobson
- Irene Hu
 - Out of Office
 - Nov 24-28: vacation
- Scott Jensen
 - Out of Office
 - McCloud Recovery Oct 27-28
- Brent Jones
 - 901502 - Ocean Soundscape
 - meetings
 - 901805 - Coastal Biogeochemical Sensing Program
 - Working on BOM for nanoFETv2.
 - Overhead
 - Remove fouling from WG Hansen
- Chad Keczy
 - Out of Office
 - Out of office on Fridays
- Brian Kieft
 - Out of Office
 - 11/24-12/2 (PST)
- Denis Klimov
 - 902004 - Planktivore
 - I had been designing and printing several parts for the Planktivore assembly. Namely, LED ring spacers. Several parts of different thickness are typically needed. For easy identification, making the 0.100" thick part without the notch, 0.110" with one notch, 0.120" with two notches, and so on.
 - Also, organizing parts stock for this and future builds.

- 902101 - LRAUV Technology Development
 - We are setting up/ restoring LRAUV battery pack degaussing setup. This time, it is going to a mobile table setup which would allow easy relocation, faster setup, and likely better quality degaussing since the orientation of the table relative Earth's magnetic field can be adjusted.
 - Evan is helping with joining two mobile benches together to extend the table top length.
 - Daniel had assisted with restoring operation of the PC with a Labview and magnetometer, needed for setting up the table orientation, and testing battery pack degaussing results.
- 902401 - Geo-Sense
 - Assembling the DAS instrument back into the sphere.
- Eric Martin
 - Out of Office
 - Underwater Intervention 12-2-12/8
 - Vacation 11/25-11/26
 - Vacation 12/22-12/24
- Thom Maughan
 - Out of Office
 - Vacation 21 Nov to .28 Nov
- Mike McCann
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Doing final tests/checks on [auv-python's LRAUV branch](#) – about ready to merge into main
 - 902101 - LRAUV Technology Development
 - Talked with Akshay about 3D geospatial data
- 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
 - Out of Office
 - Nov 22 through Nov 30, Scotland
 - Dec 26 through Jan 4, San Diego
- Brent Roman
- Carlos Rueda
 - Out of Office
 - Dec 1–11, 22–30: vacation
 - Jan 2–5: vacation
- Karen Salamy

- Out of Office
 - On-campus 3 days/week (**T, W, TH**). New OFFICE - G106.
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Working on the [deep-sea guide](#).
 - Overhead
 - Participated in the PAIDIVER workshop in Southampton, UK.
 - 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
- George Stern
- Justin Tucker
 - 902010 - Mesopelagic LRAUV
 - Composite tube testing plan
 - Endring and endcap design and analysis
 - 902101 - LRAUV Technology Development
 - Build 5 COM and COB documentation
 - Out of Office
 - Fridays through March 2026
- Johann Voigtlander
 - 902204 - Scalable Robotics
 - Debugged Blueboat power issue
 - Completed multiple harbor tests
 - 902208 - Mini ROV Operations
 - Completed end-of-year spending sheet
 - 902402 - CSEM
 - Packing system for Antarctica
 - Refurbishing BlueROV
 - Creating niskin bottle trigger mechanism for ROV
 - Completing paperwork for shipping
 - Out of Office
 - Dec 16th - Jan 10th - Vacation
 - May 30th - June 5th
 - Oct 9-13th