

WeeklyReport

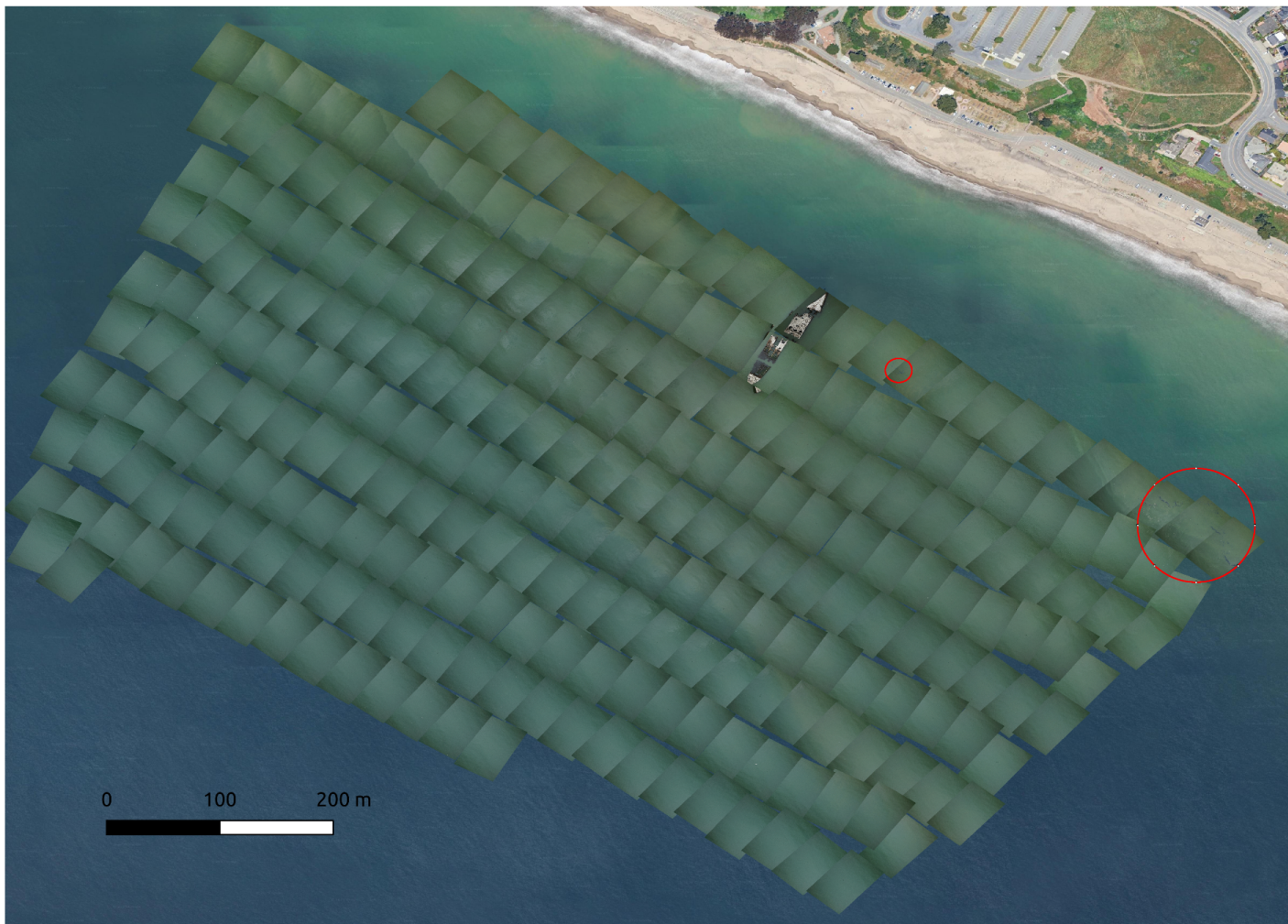
Engineering Weekly Report 4/17/2025 - 4/24/2025

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

Executive Council Notes

- **Unoccupied Aerial Vehicles for Science, Operations and Outreach**

Our routine survey of Seacliff State Beach this week caught a nice example of a large Velella (by-the-wind sailor) raft.





Individual Activities

- Michael Anderson
- Kevin Barnard
 - Out of Office
 - Apr 16, 2025 - Apr 17, 2025 – vacation
 - May 8, 2025 - May 9, 2025 – vacation
 - May 22, 2025 - May 23, 2025 – vacation
 - Jun 3, 2025 - Jun 10, 2025 – vacation
 - Jun 11, 2025 - Jun 15, 2025 – CVPR
 - Aug 7, 2025 – vacation
 - Aug 11, 2025 - Aug 12, 2025 – vacation
- Francois Cazenave
- Danelle Cline
 - 901103 - Biodiversity and Biooptics of Zooplankton
 - Processed four years Ventana/DocR dives with strided Ctenophora sp. A pipeline. Next steps are to cluster and get feedback on performance. .
 - 901221 - Midwater Time Series
 - Speed improvements on strided processing pipeline.
 - Processing latest spring experiment i2MAP dive with strided + sdcats clustering pipeline. Discussion with Rob Sherlock on reporting requirements

- 901502 - Ocean Soundscape
 - Hydrophone deployed. This was a major upgrade with a new (refurbished) hydrophone, new recording computer, new node, upgraded tripod, upgraded shore side code and network storage (thalassa). The only thing left untouched was the streaming Shoutcast server. Stream is up and running on Amazon Alexa and shoutcast. Few recording resets are concerning; one due to network timeout and another Windows patches.
 - Team meeting
- 901902 - Unoccupied Aerial Vehicles for Science, Operations and Outreach
 - Assisted as VO for deployment and ongoing improvements to processing code with the team. [Need to move the master branch to main.](#)
 - Summer intern correspondence
- 902111 - Carbon Flux Ecology
 - Working on performance improvements to sdcat for CFE processing
 - Counsel t
- Overhead
 - Vacation 4/28-5/2
- Duane Edgington
- Jon Erickson
- Kevin Gomes
 - 200105 - Core Navigation - MDUC
 - Deployed navproc and API updates to Carson
 - Merged develop branch into master branch. We are fully merged and on the master!
 - Configuring the new navproc spare with Navproc 2.0
 - Starting build of navproc-dpkd-sim and coredata-dpkd-sim
 - Tested navproc 2.0 spare, small issues fixed.
 - Test with all vehicle systems on
 - We are officially cutover to Navproc 2.0 on the Carson
 - 300059 - DMO Support - RV David Packard
 - Build of navproc-dpkd-sim
 - Telepresence re-factor scoping meeting with Eric M
 - Documented the data meeting a bit.
 - Overhead
 - Promotion committee work
 - Hosting visit from AWS this Thursday
 - Wiped a bunch of old computers that have been lingering and returned to IS
- Andy Hamilton
- Kent Headley
 - Out of Office
 - Apr 25 (vacation)
 - Jul 14-31 (vacation)
- Rich Henthorn
 - Out of Office
 - Apr 21 - May 1: WFH and sick time, email and phone OK
 - May 19 - May 29: Vacation
- Akshay Hinduja
- Brett Hobson
- Irene Hu
- Scott Jensen
- Brent Jones

- Chad Key
 - Out of Office
 - Out of office on Fridays
- Brian Kieft
 - Out of Office
 - Mostly vacation this week. Working Mon/Wed at least. On call other days.
 - 4/9-19 (MDT)
 - 6/16-24 TBD (UTC+2)
 - 9/15-30 (UTC+2)
- Denis Klimov
- Eric Martin
- Thom Maughan
 - Out of Office
 - TBD, Trip to UW after MSC3 passes our test plan, new forecast is mid-May.
- Mike McCann
 - 901221 - Midwater Time Series
 - Gave Rob some STOQS UI tips and communicated what it can't do
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Still preparing for a Dorado archive reprocess and stoqs_all_dorado reload
 - 902403 - Expedition DB Modern
 - Wrote days_at_sea management function for Matt to get total days at sea for all our ships
 - Able now to incorporate schema changes from expd_next_foggy on the expd-next branch
 - Able to merge web app improvements on the main branch into expd-next
 - Working on display and usability issues for better Postcruise functionality
 - Out of Office
 - 25 April - Vacation
 - 8-9 May
 - 10-14 August - SIGGRAPH
 - 8-13 September - Web3D & Digital Heritage Conference
- Paul McGill
 - Out of Office
 - Medical appt on Mon morning
- Enoch Nicholson
 - 901007 - Benthic Biology & Ecology
 - Testing lid check valve & spring closure
 - Revised hydraulic pump and submitted
 - Ordered second attempt at BRS side plates
 - 902306 - SINKER
 - Finalizing SINKER Lander design & drawings
- 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
- Paul Roberts
- Brent Roman
- Carlos Rueda
- Karen Salamy
 - Out of Office

- Personal Bereavement April 9-14, 2025 - Family funeral
 - On-campus 3 days/week (**T, W, TH**). New OFFICE - G106.
- Brian Schlining
 - Out of Office
 - Jun 2 - Vacation
 - Jul 21 - 24 - Vacation
 - Aug 18 - 21 - Vacation
- Alana Sherman
 - Out of Office
 -
- George Stern
- Justin Tucker
 - Out of Office
 - On leave April 8th - May 5th
- Johann Voigtlander
 - Out of Office
 - Dec 16th - Jan 10th - Vacation