

Karen Salamy Sorted By Project

200103 - Core CTD Data - MDUC

- Discussions with Kevin G. and Rob on the proper O2 Data Flow issues. (Week 6)
- Trying to help Rob figure out why new CTD O2 plots are displaying “jittery” than the same data a few months ago. (Week 11)
- Working with Rob S. to get updated CTD coefficients for the O2 flag for the EXPD. (Week 13)
- Recently received ROV CTD O2 QC requests from Rob and began on them today. (Week 14)
- Reviewed emails from Rob but still need to implement his updates. I will get to that today or tomorrow. (Week 15)
- Update the O2 flags on EXPD for the ROV this week. (Week 19)

300057 - Mooring Maintenance

- Working with Kevin G., Jared F., and IS on some serious M1 download issues observed over the last few weeks. (Week 6)
- Aided IS with determining if the shift over to StarLink for Data Downloads was successful. I have been monitoring the downloads for the team and have been pleased that few download failures have occurred since the transition. (Week 10)
- M1, OA1, and OA2 mooring data downloads were failing most of yesterday. M1 downloads failed from 5AM - 5PM but eventually caught up. Adriana S. stated that the Starlink Tunnel did not go down yesterday and that the issue was most likely related to the Viper Radios. I believe Brett J and Doug C. may take a trip up to Mr. Toro tomorrow to inspect them and possibly improve the radio's connections/signals. (Week 11)
- Still chasing some M1 Viper issues for downloads with Brett H. (Week 13)
- Worked with Kevin Gomes to make sure the oasis shares move from Titan to Thalassa went smoothly. So far so good. (Week 14)
- Worked with Brent Jones on determining issues with the viper radios occasionally failing for M1. (Week 14)
- Watching the M1, OA1 and OA2 downloads since the addition of satellite infrastructure. (Week 15)
- Weekly maintenance and download stability verification. (Week 17)
- Attended a ZOOM meeting regarding the new SatLink updates for Mooring data downloads. Things are looking good. There are only one to two dropouts daily anymore which is a huge improvement in data download stability. (Week 17)
- Weekly maintenance and verification of data downloads (Week 19)
- Set up filesystem and scripts on coredata8 for upcoming M1 Mooring Deployment turn in June. (Week 20)

- Working with Jared F. to prepare new M1 mooring deployment in June (20260606). Spent a bit of time testing settings and scripts for him. (Week 21)
- Working with Jared F. on the next M1 mooring turn June 19th. (Week 23)
- 901101 - Seafloor Mapping (Week 23)
- Preparing for M1 Mooring turn on (Week 24)
- Preparing for M1 turn this Friday. (Week 25)
- Successful 202606 M1-Mooring Turn (Week 26)
- Weekly maintenance and monitoring of newly deployed M1 Mooring 202606. (Week 27)
- Received a note from Jason Adelaars regarding an upcoming OA1 deployment: (Giving you a heads up that Jules and I are prepping an OA1 turnaround in about a month. We'll be swapping the microcat for an RBR CTD - will likely have similar column parsing as the current OA2 deployment. No pH probe on this deployment. Otherwise, the CO2 system, VR2C, dissolved oxygen, MET, and chlorophyll fluorescence will be there.) No set deployment date yet though (We don't have an exact date yet. We still have a couple of blockers. I'm hopeful either the week of July 27th or August 3rd. But probably won't know for another few weeks.) (Week 27)
- *Weekly maintenance and download checks.* (Week 28)
- Working on the new OA1 Mooring turn - potentially occurring at the end of the month. (Week 28)
- Spent time setting up for the new OA1 Mooring Turn on coredata8 (Week 29)
- Created a spreadsheet to help Jason and Jules clarify what the deployment will need (Week 29)

901101 - Seafloor Mapping

- This week I worked on the Pull Request for the SMDB updates that Jenny has been asking for from the smdb-dev server to the production server (smdb). I am hopeful that Mike will be able to merge this PR with several review updates soon to the production server. (Week 6)
- I also fixed a bug in the leaflet-measure application for the SMDB dash and pushed that as well to be merged into the production. (Week 6)
- Today I am fine-tuning various bugs and map views for the Missions, Expeditions and Compilations pages under the Data Menu for the SMDB dash and hope to test and push those as well this week. (Week 6)
- Spent time this week trying to wrap up the SMDB Dash. I am aware my time to give to this project will be limited throughout the rest of the year and wanted to address it now. (Week 10)
- This week I took on some final major updates for the SMDB Dash for the team. Jenny P. indicated that various updates were needed and that I might be able to wrap up my time on the project for a while if these were completed. Needing to focus on other projects (SINKER and LRAUV), this was a logical step to complete now. (Week 11)

- Finished testing and fixes of updated SMDB Dash code on smdb-dev and awaiting Mike M.'s review and hopeful push to production.... (Week 13)
- Pushed all recent updates and testing from smdb-dev (development server) into the Production server. All updates are now live on production. (Week 14)
- Bug Fixes — Merged into Development (smdb-dev) and Production (smdb) servers (Week 14)
 - Map Tooltip Fix (PR #296, merged Mar 27) (Week 14)
 - Dates were showing as "Invalid Date" for non-standard slug formats — now uses start_date directly from GeoJSON feature properties with slug-parsing as a fallback (Week 14)
 - route_file showing as "null" when not present in the database — fixed null handling (Week 14)
 - Also addressed Copilot review suggestions: improved slug-parsing fallback logic and added escapeHtml() to prevent XSS from DB-backed fields in tooltip HTML (Week 14)
- Received a new request from Jenny P. for citation filtering on the SMDB. I am scoping out the amount of work and time to do this. (Week 15)
- Discussed updates on sinkerdev with Jenny Paduan. She has expressed that she is happy with the recent updates tested there. (Week 17)
- Requested Mike M. to update the production server database and surveyTally.xlsx imports. (Week 17)
- I have completed my time on SMDB for the year resolving all of the requested issues and outstanding PR's for the team. (Week 17)
- Deployed final SMDB updates/merges to the production server (all is working well): (Week 17)
 - #299 Filter panel: reactive hover/click feedback on Filter and Clear buttons (#297) (Week 17)
 - #302 Sidebar filter: Citation search fields in sidebar UI (Home & Missions pages) (#301) (Week 17)
 - #301. feat: citation search in Missions sidebar and tally load (#301) (Week 17)
 - #297 ux: Filter/Clear sidebar button hover & click (#297) (Week 17)
- Finished my work on this project for 2026 proposal work. (Week 19)
- Fixed .fnv file parser to always skip lines beginning with # (PR #308, Jun 2) (Week 24)
- Received an update request from Jenny P. Will look into it despite being out of project time. (Week 26)
- Received a request from Jenny P. to make quick updates on SMDB. (Week 27)
- Out of project time but plan to implement the quick fixes next week. (Week 27)

901805 - Coastal Biogeochemical Sensing Program

902101 - LRAUV Technology Development

- Waiting on a meeting with Brian K. to discuss exact expectations for my time in 2026 for the LRAUV project. (Week 6)
- The last two weeks I have set up the Dash5 production server for the LRAUV team and established the dash5-staging url link as a development-only server for the software to be thoroughly tested through prior to being deployed to the production server. (Week 10)
- I attended the Friday meeting with the team (Week 10)
- I send out a Slack message to all of the #lrauv-operations group to ensure that all lrauv pilots only use the new Dash5 production server. (Week 10)
- I will be refreshing my lrauv pilot training this week and will take the test asap. (Week 10)
- Attending the Monday meetings (Week 11)
- I began my Pilot in Training (PIC) refresher course and test. I tried to sign up to be on watch for the Ahi deployment this week but Steve H. and his lab indicated they had it all covered. (Week 11)
- I reached out to Brian K. and Quinn S. this morning to see if they wanted me to take a PIC position for the Triton deployment today. (Week 11)
- Was PIC for several recent LRAUV missions (Week 13)
- Planning to attend the next MBARI/SAAB discussion for SAAB's development of LRAUVs (Week 13)
- Continuing to work on the dash5 issues and updates. I have several fixes that have gone through review on dash5 on my local system and are awaiting review by Jim Jeffers and hopefully pushes to first dash5-staging and then dash5 for official rollout. (Week 13)
- DevOps / CI: (Week 14)
 - Diagnosed and documented the staging deployment process (yarn version:patch → git tag → GitHub Actions → Docker :staging image → Watchtower auto-update). Confirmed production is now safely isolated. (Week 14)
- Features — In Review (open PRs): (Week 14)
 - DocType Display in Docs Section (Issue #514, PR #528) (Week 14)
 - Schedule History Running-Status Accuracy (Issues #516, #488, #523, PR #531) (Week 14)
 - Schedule Event Details Modal (Issue #517, PR #530) (Week 14)
- Bug Fixes — Merged to develop: (Week 14)
 - Browser Refresh Session Logout (Issue #515) (Week 14)
 - DocCell Label Truncation (Issue #514) (Week 14)
- The LRAUV UI has been the bulk of my work this past week. I have been running through Github Issues for the Dash5 and addressing updates for the team. Many of these updates are being reviewed by Zack Lyon. Once they are approved, I

am pushing them to the dash5-staging development server for staging prior to adding them to the production server (dash5),. I am hopeful that many of these updates will be on the production server in the near future. (Week 15)

- Last week, I spent time as PIC on the LRAUV deployments. (Week 15)
- Fixed the compose.yml for both production and development servers for the Dash5 on tethysdash2. The reboot of the server on April 10th for the LRAUV group (tethysdash2) caused a major dash5-staging error as the compose.yml did not have the “restart: unless stopped” in it. That has now been added and should not occur again. (Week 17)
- Performed code reviews and merged the following Dash5 code updates for Zack Lyon (last week was his final week on the project: (Week 17)
 - #533 Remove Data Events from Logs by Default (Week 17)
 - #540 Fix Incorrect Vehicle Status Icon / Comms Indicator (Week 17)
 - #547 GH262 — Docs Section Defaults to This Vehicle (Week 17)
 - #532 GH459 — Frequent Mission Parameters (Week 17)
 - #552 Argos Battery Indicator (Week 17)
- Performed the following LRAUV Dash5 Code merges into the development server: dash5-staging.mbari.org: (Week 17)
 - #537 Enhancement — Add Polygons, TILE Layers, and KML Layers to the Add Layers dropdown; search/filter modal matching TrackDB (Week 17)
 - #531 Fix: improve schedule running-status accuracy and matching safety (Week 17)
 - #543 Fix: Overview Map partial render and React warning on refresh (Week 17)
 - #554 Feat: add Center Map On button to TrackDB platform list (Week 17)
 - #551 Fix: recovery display + ship TrackDB 7-day window for SPOT trackers (Week 17)
 - #549 Feat: Quick-Access Resources dropdown near PIC section (#545) (Week 17)
 - #528 Fix: show full document name and docType in Docs section (#514) (Week 17)
 - #530 Feat: add schedule history details modal quick view (Week 17)
- **Tuesday, April 22 (Week 19)**
 - Opened / built #563 UI polish work: Email Notifications modal — blue header/table headers, title alignment, then Copilot review follow-ups (items-center on header container, darker close button for contrast). (Week 19)
- **Sunday, April 27 (Week 19)**
 - Production: release PR #565 (develop → main, v5.1.13) merged per GitHub history. (Week 19)
 - #567 merged — operator-cancelled missions show “Cancelled” in Schedule; Copilot/review fixes. (Week 19)
 - #566 — backport / review fixes after develop→main. (Week 19)

- #569 ground work: “Delete from Queue” renamed to “Cancel this Directive” (Week 19)
- Monday, April 28 (Week 19)
 - #564 merged — Email Notifications modal stylization (tracker #563). (Week 19)
 - #563 — deployment lifecycle labels in VehicleHeader / OverviewToolbar; pre-launch wording iteration, tests, epoch fallback guard; revert + docs locking in final pre-launch wording. (Week 19)
 - #569 — Cancel this Directive - feature merged. (Week 19)
 - #571 — invalidate event queries after cancel so UI updates immediately. (Week 19)
- Tuesday, April 29 (Week 19)
 - #572 — Schedule History search/filter row stays visible when search has no matches. (Week 19)
 - #573 — distinguish mission param updates vs vehicle configSet in labeling. (Week 19)
- Wednesday, April 30 (Week 19)
 - #575 — Overview map: stale ResizeObserver + rAF / invalidateSize guards. (Week 19)
 - #576 — Overview map partial render after client-side navigation (offsetWidth poller). (Week 19)
- Sunday, May 4 (Week 19)
 - #581 — preserve newlines in log events. (Week 19)
 - #582 — ESRI tile URL + env interpolation fixes. (Week 19)
 - #583 — Comms Queue count shows only un-acked commands (ties to #474). (Week 19)
- Monday, May 5 (Week 19)
 - #588 — remove stray } in sched timestamp (makeCommand). (Week 19)
 - #589 — hide parameter summary for non-mission commands. (Week 19)
 - #590 — comms lookup for mission rows stuck on pending. (Week 19)
 - #591 — MTMSN / MOMSN in Schedule History popup for sat-ACKed commands. (Week 19)
 - #593 — all command segments green on Schedule History row. (Week 19)
 - #595 — timed-out directives demoted to Previous Vehicle Directives. (Week 19)
 - #599 — timeout excluded from Comms Queue count (#598). (Week 19)
- Production Releases (Week 20)
 - **v5.1.22 — released May 7 (Week 20)**
 - v5.1.25 — released May 12 (Week 20)
- May 5–11 (Week 20)
 - **PR #583 — Comms Queue badge now only counts un-acknowledged commands (Week 20)**

- PR #589 — Hide parameter summary for non-mission commands (Week 20)
- PR #590 — Apply comms lookup to mission commands stuck on "pending" (Week 20)
- PR #591 — Surface MTMSN/MOMSN in Schedule History popup for satellite-acknowledged commands (Week 20)
- PR #593 — Show all command segments highlighted green in Schedule History row (Week 20)
- PR #595 — Demote timed-out directives to "Previous Vehicle Directives" section (Week 20)
- PR #599 — Exclude timeout status from Comms Queue count (Week 20)
- PR #600 — Timeout note takes priority over cell state:2 ACK in determineCommandStatus (Week 20)
- PR #601 — Group same-event-ID timeout notes into one collapsible Logs row (Week 20)
- PR #603 — Always show "Previous Vehicle Directives" section when historic items exist (Week 20)
- PR #605 — Timeout note is ground truth for all via types in determineCommandStatus (Week 20)
- PR #607 — Always show timeout pill for commands with explicit scheduled timestamps (Week 20)
- PR #608 — Timeout note overrides any API status, not just pending (Week 20)
- PR #610 / #611 — Show "Ended: N/A" for timed-out directives in Schedule History row, popup, and table (Week 20)
- PR #612 — Introduced StopwatchWarningIcon (custom hourglass + exclamation badge) for timeout status in ScheduleCell (Week 20)
- PR #613 — Exclude historically timed-out commands from Comms Queue count (Week 20)
- PR #614 — Comms Queue accuracy and timeout icon polish (Week 20)
- Map & Vehicle Widget (Week 20)
- PR #616 — Fixed polygon perimeter calculation in the Measure Distances & Areas tool (was missing the closing segment) (Week 20)
- PR #617 — Major vehicle widget update to v2.99: CTD toggle, battery threshold indicators, dynamic svg_current bar, camera indicator, docked-state rendering parity with Dash4, and numerous layout fixes (Week 20)
- PR #618 — Hide "NextComm" label when vehicle is docked (applied to both map views) (Week 20)
- May 12-13 (Week 20)
 - PR #620 — Deployment Plan Editor Fixes & Email Notification UX Resolved several bugs in the deployment plan editor: save error handling, sticky toolbar behavior, font-size clearing with the P key, and surfacing the last-editor name. Also improved the email notification UX flow. (Week 20)

- PR #623 — Docs Sort by Last-Edited Date Documents in the Docs section now surface the most recently updated entries first, making it easier to find active mission documents. (Week 20)
- PR #625 — ENS Modal: Extra Notification Email Addresses The Email Notification System modal now surfaces additional subscriber email addresses. Included accessibility improvements, dropdown keyboard navigation, and extensive Copilot review iterations. (Week 20)
- PR #630 — DocViewer Formatting Fix Synced DocViewer rendering extensions with DocEditorTipTap so that bold, italic, bullet lists, and other rich-text formats display correctly when viewing saved documents. (Week 20)
- PR #631 — Auto-Refresh Logs + Relative Timestamps + Last-Updated Indicator Logs now auto-refresh every 30 seconds. Each log entry shows a relative timestamp (e.g. "~2h ago"). A "Last updated X ago" indicator appears in the toolbar. useTick was enhanced with an enabled flag to prevent unnecessary background polling. (Week 20)
- PR #632 — Compact Log Density Toggle Added a toolbar toggle that switches log entries between a compact (tight, small font) and standard view. Preference is persisted in localStorage across sessions. (Week 20)
- May 18-20, 2026 (Week 21)
 - Features (Week 21)
 - Preserved open accordion tab across vehicle switches — Issue #278, PR #642 (Week 21)
 - Added Dash4 log color syntax highlighting — Issue #640, PR #641 (Week 21)
 - Showed deployment start date below deployment title in toolbar — Issue #217, PR #645 (Week 21)
 - Showed last comms elapsed time in the vehicle log toolbar — Issue #270, PR #646 (Week 21)
 - Bug Fixes (Week 21)
 - Fixed compact log label wrapping to 2 rows instead of truncating — PR #647 (Week 21)
 - Prevented React state-after-unmount warnings in async useEffect hooks — Issue #557, PR #644 (Week 21)
 - Expanded Jest testMatch to discover tests in components/ and lib/ — Issue #560, PR #643 (Week 21)
 - Hidden operator attribution for automatic Default missions in Schedule History — PR #648 (Week 21)
 - Removed "Vehicle (automatic)" name from Default mission schedule cells — PR #648 (Week 21)
 - Fixed blank line in schedule cell when name is empty — PR #648 (Week 21)
 - Used isDefaultMission flag instead of label matching to detect Default missions — PR #648 (Week 21)

- Investigation/Research (Week 21)
 - Assessed feasibility of SST and HYCOM ocean model map overlays for the Bermuda LRAUV Pyxis deployment (Week 21)
- **Vehicle Track Visualization (Issue #652) (Week 23)**
- Science/Vehicle chart time windows — PR #679 (Issues #651, #677) (Week 24)
 - Added deployment-scoped time window selector to Science/Vehicle data charts (Latest Dive, 3 Days, 7 Days, Full Deployment) (Week 24)
 - Created new useDeploymentChartData hook and getVariableData API client to fetch data across log session boundaries (Week 24)
 - Fixed infinite loading caused by DateTime.utc() being recomputed on every render, invalidating React Query cache keys on each re-render (memoized with useMemo) (Week 24)
 - Decoupled variable-name lookup from selected time window so 3-day/7-day windows always resolve chart variables even when the vehicle is mid-dive (Week 24)
 - Treated TethysDash 404 responses as "no data" instead of errors so missing variables are silently omitted rather than breaking the chart section (Week 24)
 - Removed 24-hour window option — too short for typical LRAUV dive cycles (last processed data is often 25–48h old) (Week 24)
 - Omit maxlen cap for windows > 4 days; decimate client-side to 5,000 points to prevent truncation to most-recent data only (Week 24)
 - Added informative empty state messages distinguishing "no data in window" from "data exists but not in this category" (Week 24)
 - Multiple rounds of Copilot review fixes (Week 24)
- Log links / Data toolbar — PR #676 (Week 24)
 - Added Data toolbar button to RealTimeLogs alongside existing Shore and ESP buttons (Week 24)
 - Fixed broken log directory links (corrected shore.kml filename, URL construction) (Week 24)
 - Added Dash4-style log navigation features (Week 24)
- FullWidthVehicleDiagram / DepthSparkline (Week 24)
 - Added Okeanids link button anchored to vehicle SVG coordinate system (Week 24)
 - Unified DepthSparkline and vehicle widget as a single scaling unit (Week 24)
 - Fixed volt/amp threshold text using alarm color incorrectly (now neutral) (Week 24)
 - Fixed sparkline position clamping and gate on vehicle-loaded state (Week 24)
 - Fixed recovered vehicle status display and RECOVERED docked-state handling (Week 24)
 - Multiple rounds of Copilot review fixes on PRs #657 and #578 (Week 24)

- Log Tab Repair & Dash4 Feature Port (Jun 10) — Fixed broken log file links in RealTimeLogs and restored Dash4-era log navigation features (PR #678): (Week 25)
 - Replaced individual shore.log/KML/parent links with a unified Data toolbar button (Week 25)
 - Added a Data button alongside the Shore and ESP buttons (Week 25)
 - Fixed KML filename reference to use shore.kml (Week 25)
- Deployment-Scoped Science Data Time Windows (Jun 10) — Added a time window selector to the Science/Vehicle data chart sections (issues #651 and #677): (Week 25)
 - Options include Latest Dive and Full Deployment views (Week 25)
 - maxlen parameter omitted for long windows; data is decimated client-side instead (Week 25)
 - Fixed empty state display when no chart data is available for a given window (Week 25)
 - Fixed 404 responses being treated as errors instead of no-data (Week 25)
- Native SMS / Phone Number Support for Notifications (Jun 15) — Added full phone number (SMS) support to the notification destination dialogs (PR #682): (Week 25)
 - Notification modal now detects phone numbers and adapts UI and wording accordingly (Week 25)
 - Test-send messaging customized for SMS vs. email destinations (Week 25)
 - Plain-text toggle hidden for phone number destinations (Week 25)
 - Users can now set a default notification destination (email or phone), persisted in localStorage and auto-selected on modal open (Week 25)
 - Inline "Make Default" checkbox added; modal close blocked when interacting with checkboxes (Week 25)
- Developer Onboarding Guide (Jun 15) — Added a comprehensive docs/developer-onboarding.md covering monorepo setup, build workflow, the exports→dist pattern, test commands, and key file locations (PR #684). (Week 25)
- createUser POST Payload Fix (Jun 16) — Removed an erroneous { data: } wrapper from the createUser POST body that was breaking user registration. Updated tests to assert the correct payload shape (PR #686). (Week 25)
- TethysDash API Compatibility Fixes (Jun 17) — Following a TethysDash backend update (v4.99.77), three breaking API changes were identified and patched with same-day PRs: (Week 25)
 - Fixed double-slash in default base URLs causing 400 errors across all API calls (PR #687) (Week 25)
 - Removed the noteMatches parameter from GET /events dropped by the backend (PR #688), and fixed the corresponding TypeScript test (PR #690) (Week 25)

- Removed the path parameter from POST /commands dropped by the API (PR #689), and fixed the TypeScript compile error in the test (PR #691) (Week 25)
- Features (Week 26)
 - Improved Build a Command modal UX for mission variables: #696, PR #700 (Week 26)
 - Enhanced science/depth charts w/ time window, logset, & axis controls: PR #703 (Week 26)
 - Added Server Health modal with health and subscriber status: PR #704 (Week 26)
 - Added recently used missions/ Amend Command to Build a Command: PR #700 (Week 26)
 - Filtered unit choices by selected mission parameter in Build a Command: PR #708 (Week 26)
 - Restricted Server Status menu item to operator/admin roles only (Week 26)
- Bug Fixes (Week 26)
 - Removed stale Mission Script Guide link & clarified variable description: PR #706 (Week 26)
 - Sorted Deprecated/ missions to the bottom of the mission picker: PR #711 (Week 26)
 - Collapsed Deprecated sub-paths into a single group (Week 26)
- Planning/Research (Week 26)
 - Reviewed open Dash5 GitHub issues for 2027 effort estimation (for PI request) (Week 26)
 - Reviewed open issues for potential closure (Week 26)
- TethysDash (Week 26)
- Features (Week 27)
 - Added GPS surfacing dots, sticky track tooltip, and pre-waypoint marker on deployment map — Issue #744, PR #745 (Week 27)
 - Added planktivore payload indicator and galene LEDs to the vehicle widget — PR #734 (Week 27)
- Bug Fixes (Week 27)
 - Brought overview VehicleCell to parity with the full vehicle page widget — Issue #732, PR #743 (Week 27)
 - Fixed Back button in mission wizard now correctly re-shows Parameters Summary — Issue #723, PR #739 (Week 27)
 - Fixed logset tooltip clipping in narrow science sidebar — Issue #718, PR #738 (Week 27)
 - Fixed map projected route backtracking and center button stale zoom — PR #737 (Week 27)
 - Fixed clipboard state preservation between Ctrl+C/V in doc editor — Issue #740, PR #742 (Week 27)

- Fixed Amend Command unit parsing for LRAUV type annotations and trailing semicolons — PR #724 (Week 27)
 - Restored modal visibility and document duplication — Issues #728, #729 (Week 27)
 - Fixed pre-existing failing tests and added coverage for v5.2.9 features — Issues #748, #750 (Week 27)
- Documentation (Week 27)
 - Added CHANGELOG.md tracking all v5.2.x staging releases (Week 27)
- Dash5 Features (Week 28)
 - Added GPS surfacing position dots and sticky track tooltip to vehicle map track (Dash4 parity) — Issue #744, PR #745 (Week 28)
 - Updated Overview page vehicle widget to match full vehicle page (schedule indicator, payload info) — Issue #732, PR #743 (Week 28)
 - Added Watch Bill link to the user account dropdown menu for quick access — Issue #753, PR #754 (Week 28)
 - Made ship/TrackDB current position markers larger and more prominent on the map — Issue #755, PR #756 (Week 28)
 - Added quick-pick confirmation step for deployment start date to prevent accidental future dates from hiding vehicles on the map — Issue #757, PR #759 (Week 28)
- Dash5 Bug Fixes (Week 28)
 - Fixed back button in mission wizard reverting to Parameters Summary step — Issue #723, PR #739 (Week 28)
 - Fixed logset tooltip being clipped in narrow science data sidebar — Issue #718, PR #738 (Week 28)
 - Fixed Ctrl+C/V clipboard state corruption in the document editor — Issue #740, PR #742 (Week 28)
 - Fixed Ctrl+C on map clobbering selected text in input fields and editable areas — Issue #751, PR #752 (Week 28)
 - Fixed Schedule tab displaying pending missions in wrong order and hiding a second queued instance of the same mission — Issues #760, #762, PR #761 (Week 28)
 - Fixed depth chart zoom resetting immediately when moving the mouse after zooming in — Issue #763, PR #764 (Week 28)
- Dash5 Testing/Maintenance (Week 28)
 - Fixed 3 pre-existing failing tests in the lrauv-dash2 test suite — Issue #750 (Week 28)
 - Added missing test coverage for v5.2.9 features — Issue #748 (Week 28)
- Dash5 Deployments (Week 28)
 - Tagged v5.2.12 and v5.2.13 for staging deployment (dash5-staging.mbari.org) (Week 28)
- Features (Week 29)

- Implemented two-step verification code flow for adding/editing notification destinations (email/phone), matching TethysDash backend v4.99.85 — Issue #758, PR #767 (Week 29)
- Bug Fixes (Week 29)
 - Fixed depth chart not refreshing on active deployments and added bidirectional sync between depth chart hover and map scrubber — Issue #772, PR #773 (Week 29)
 - Fixed Schedule tab showing raw command text (e.g. load Transport/keepstation.tl) instead of the clean mission name the vehicle reports — Issue #775, PR #776 (Week 29)
 - Fixed _vt vehicle-tailored mission files (e.g. profile_station_vt.tl) not matching the vehicle's own telemetry mission name — PR #774 (Week 29)
 - Fixed Leaflet zoom crash when navigating between vehicles with a stable MapContainer key — PR #769, PR #771 (Week 29)
 - Fixed trackline hover circles scaling incorrectly at high zoom levels (converted from geographic metres to pixel-based radius) — PR #770 (Week 29)
 - Disabled two compromised GeoServer tile layers (DK3HORRO, 2020 Summer Astrid) and suppressed noisy vehicle-info timeout errors — PR #766 (Week 29)
- Maintenance (Week 29)
 - Upgraded Node.js from v20 (EOL April 2026) to v22 LTS (active through April 2027) — Issue #746, PR #768 (Week 29)
- Deployments (Week 29)
 - Tagged v5.2.14 through v5.2.18 for staging; v5.2.14-production pushed to production (dash5.mbari.org) (Week 29)

902111 - Carbon Flux Ecology

- Reviewed some of the SINKER dash code this week in anticipation of the upcoming March deployment. (Week 6)
- Preparing for the next SINKER deployment this week. (Week 10)
- Busy week: SINKER was redeployed into the Monterey Bay. I worked with Danelle C. to bring up the SINKER Dash for the team. We are using a new server system (snowfall) instead of thalassa. The system is working but two cameras (PTVR) are offline and the ADCP data is not streaming out of redis well. I will look into this potentially next week when the majority of the team is back from the Oceans Meetings in the UK. (Week 11)
- Worked on various features and bug fixes for the SINKER Dash (Week 13)
- Sinker Dashboard (sinker-dash, merged into develop server for testing Mar 25) (Week 14)
 - PR #42 — Restored the schematic attribution ? tooltip at the SVG corner (broken by a deprecated react-tooltip pattern) (Week 14)

- PR #43 — Replaced speculative "System may have been recovered" ADCP message with neutral, factual status text (Week 14)
- PR #44 — Schematic housings now navigate to the Controls tab on click; fixed warning icon incorrectly appearing on normal status (Week 14)
- PR #45 — Schematic housings now turn orange when instrument data is stale (ADCP: >4 hours old; Camera housings: PTVR HM/LM, Shadowgraph, SedFlux HM/LM) (Week 14)
- Re-deployment this week. I spent some time updating the SINKER UI to deal with system and instrument sensors/failures/disabled, etc in RT. The next step will be graphing and charting of data to the UI in RT. (Week 15)
- Fixed SINKER production build issue regarding Redis: The stock backend logic had a systematic decode bug for power_status; config was not the culprit. What's on disk now is compose + a patched redis_ts.py overlay until Danelle lands the same fix in fastapi-sinker and you deploy a proper image tag instead of (or in addition to) the mount. (Week 17)
- Attended SINKER Meeting last Wednesday regarding data and graph presentation within the UI (Week 17)
- Will begin focusing more on SINKER now that SMDB work is complete. (Week 17)
- Addressed the following PR's: (Week 17)
 - PR #55 fix(api): graceful offline handling for ADCP-absent deployment (Week 17)
 - Issue #54 fix: v1.8 API regressions — ADCP-absent deployment... (Week 17)
 - PR #57 fix: Health UI, toolbar camera status, Data page connection state (Week 17)
 - Issue #56 fix: Health dashboard accuracy, toolbar camera status... (Week 17)
- Awaiting team images to add to UI (Week 19)
- May 19-20, 2026 (Week 21)
 - Diagnosed sinkerdev outage — all containers were healthy but the site was unreachable due to a Docker network/iptables issue; resolved by bringing the stack fully down and back up (Week 21)
 - Pulled production watchdog fix (commit c438114) — run_stream.py patch now restarts dead camera worker processes (PlanktivoreHM, PlanktivoreLM, Shadowgraph) automatically; sinker-stream now requires ≥6 live Python processes to pass health checks (Week 21)
 - Silenced all browser console logging — commented out console.log calls across 31 frontend source files (components, hooks, API client) (Week 21)
 - Fixed recurring Controls & Environs breakage — 9 API proxy route files were constructing the wrong FastAPI URL (appending /api which FastAPI doesn't use); all 9 files corrected (Week 21)
 - Prevented the bug from recurring — added a shared lib/backendUrl.js utility, a pre-build URL check script (check-backend-urls.sh), and a

canonical build.sh that blocks the Docker build if the pattern reappears (Week 21)

- Updated health test suite — rewrote test_sinker_health.py for the new per-camera-container architecture; now passing 59/59. Noted environment difference: sinkerdev uses Redis on port 6380 while production uses 6379 — the test now correctly targets the proper port on the server it runs on. (Week 21)
- Pushed all fixes upstream — rebased and pushed corrected source code to mbari-org/sinker-dash on GitHub and updated mbari/sinker-dashboard:latest on Docker Hub so future deploys and image pulls are clean (Week 21)
- Tagged builds v1.0.9 through v1.0.13 throughout the day as fixes were validated (Week 21)
- Fixed a silent breakage in the nginx deployment where docker compose pull was replacing the custom MBARI nginx image (compiled with RTMP + fancyindex) with a stock Docker Hub image, causing all routing to fail with no error output. Added pull_policy: build to force Docker Compose to always build nginx from the local Dockerfile on both dev and prod. (deploy-sinker, Jun 4) (Week 24)
- Working with Andrew McMann on getting MBARI SSO working on the sinkerdev server. (Week 25)
- Other sinkerdev work (not on production yet): (Week 25)
 - Wired real data into the Network tab with connectivity scripts and a toolbar health dot (Week 25)
 - App version badge baked into the build via GIT_VERSION and displayed in the nav bar (Week 25)
 - Power status fallback logic using power_draw for lights, camera strobe, and SED status (Week 25)
- SINKER (sinker-dash) - In Progress (PR #57) (Week 26)
 - Implemented NetworkTab with real live data, toolbar health widgets, and status-logger improvements (Week 26)
 - Hardened API layer: 503 handling on missing SINKER_API_URL, power draw coercion, Redis default port, isOnline checks (Week 26)
 - Restored camera aliases and power_status integer enum (Week 26)
 - Added filesystem cache, jq fallback, and nc guard for instrument status (Week 26)
 - Fixed SSE relative import path and keyboard accessibility on network widget (Week 26)
 - Addressed 10+ rounds of Copilot PR review comments (Week 26)
 - Reviewed the 2027 SINKER Proposal and commented. (Week 26)
- Merged PR #70 — Dash-Health UI clarity, SedFlux dual-instrument cards, logs 404 fix, console cleanup (merged Jun 29) (Week 27)
- Merged PR #72 — Show 0.0% humidity instead of N/A when reading is zero (merged Jun 30) (Week 27)

- Deployment Coordination with Danelle - A bandwidth spike on production (ZMQ stream containers consuming ~10 Mb/s) triggered a coordinated response between Danelle and I that led to several infrastructure improvements: (Week 27)
 - Danelle granted group-write access to /opt/deployments/sinker on both servers (Week 27)
 - Azure AD / NextAuth secrets moved from compose.yml into .env; saved to BitWarden SE-IE collection (Week 27)
 - Ansible agreed to only update version lines in .env, never overwrite the file (Week 27)
 - jetson-monitor and sinker-status-logger added to compose.yml (were previously manual containers) (Week 27)
 - Logs tab enabled; sinker-status-logs volume mounted on dashboard (Week 27)
 - All 15 services now compose-managed on production (Week 27)
 - Unified compose.yml from git (PR #6) agreed as target state — pending Danelle's merge (Week 27)
 - sinker-backend updated to v0.13.0 on both servers (verified against checklist before deploying) (Week 27)
- Met with SINKER Team yesterday to go over various requests for the SINKER Dash from the team. (Week 28)
- SINKER Dash Bug Fixes / Improvements (Week 28)
 - Improved Dash Health UI clarity and added SedFlux dual-instrument instrument cards — v1.0.32 (Week 28)
 - Fixed logs 404 error and cleaned up console output — v1.0.32 (Week 28)
 - Added null guards for sumDurations and calculateBaseTime to prevent duration crashes — v1.0.31 (Week 28)
 - Silenced noisy debug/warn logging in InstrumentsTab and useADCPSSSE — v1.0.30 (Week 28)
 - Network health monitoring, toolbar widgets, camera controls, and API hardening — v1.0.29 (Week 28)
- SINKER Dash Deployments (Week 28)
 - Tagged and deployed v1.0.32 (Week 28)
- Features (Week 29)
 - Removed the Images tab from Camera Views — the camera panel is now Videos-only mode (Week 29)
- Bug Fixes (Week 29)
 - Fixed TypeScript errors in CamerasTab and SinkerSchematic (Week 29)
 - Fixed duplicate useCameraLastCaptureTimes hook calls and import in cameras.tsx (Week 29)
 - Renamed cameraLastCaptureTimes → cameraLastCaptureTime to match hook declaration (Week 29)
 - Fixed undeclared ADCP variable references (adcpLastDataParsed/adcpLastDataTimeRaw → adcpParsedTime/adcpLastDataTime) (Week 29)

- Note: Work is on develop branch, not yet tagged for deployment. (Week 29)

902403 - Expedition DB Modern

- Reading through Brian's proposal for next year. (Week 24)

902504 - Scalable Semantic Mapping

- Fixed mission links to use window.location.origin for correct absolute URLs, and addressed Issue #290 (3D Citations) (Week 23)
- Removed duplicate missions-page class injection in mission_filter.html (Week 23)
- Both bug fixes still need to be tagged and deployed to smdb-dev for testing. (Week 23)

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.
- Vacation: Mar 20 - 24, 2026.
- OOO Friday-Tuesday of last/this week. Returned to office today.
- Currently dealing with a family relative's health issue in hospital and will be working from home until that status has been determined.
- May 26-28, 2026 - Vacation
- March 22-24, 2027 - Vacation
- July 21-24, 2026 - Vacation

Overhead

- Met for my annual review with Kevin G. (Week 6)
- Attended MBARI talks and group meetings. (Week 6)
- Director's talk (Week 15)
- Lots of meetings. (Week 15)
- Director's Dialogue on April 7th. (Week 17)
- Meetings, Talks, etc. (Week 27)