

Mike McCann Sorted By Project

200109 - Core Mooring Data - MDUC

- Started on 2025 proposal text (Week 25)
- Removed *19700101* files from the M1 202306 deployment and reprocessed to fix met data (Week 33)
- Will be adding a "rm *19700101*" step to the routine ssds processing of mooring data (Week 33)

500055 - VARS, M3/RS, DSG

- Fixed vfcbbydive frame grab processing to now get position data from EMDB's REST API (Week 6)
- Wrote add_nav4dlogr_records.py script to add missing ROV nav data to the logr files (Week 13)
- Replaced 202406[4-5]rovctdlogr.dat.gz and 202406[4-5]shipnavlogr.dat.gz files (Week 13)

901009 - CANON

- Testing new version of x3dom that supports Draco compression of .glb terrain data (Week 4)
- Helping several people with data export from STOQS (Week 34)
- Helping Chris P. with the Parquet data export from STOQS (Week 43)
- Processed Dorado mission 2024.303.01 (Week 45)
- Processed Gulper mission 2024.317.01 after initial kerfuffle over naming conventions (Week 46)
- Added ad hoc fixes for consolidated ESP Sample messages in stoqs_denmark2024 (Week 48)
- Removed bogus bad makai depths and reloaded stoqs_lrauv_jun2024 (Week 48)

901101 - Seafloor Mapping

- Submitted project idea (add Draco compression to MB-System's mbd2gltf) for capstone team (Week 4)
- Met with Janny & Karen – we have a plan to use form entry in SMDB to collect additional info (Week 6)
- Meeting with capstone Team Draco on Friday (Week 6)
- Updated Docker builds for development work on M1/M2 Arm platforms (Week 11)
- Relaxed the regex in the search for Compilation Figures (Week 12)
- Trying to get around a "Too many open files" problem with the load on MacOS (Week 12)

- Experimenting with a table view inside the mission detail page (Week 12)
- Examining proliferation of competing entries in the project.css file (Week 12)
- Spent too much time on “Too many open files” problem in reading from SeafloorMapping share (Week 13)
- Preparing to execute production load with more relaxed search for Figure*.cmd files (Week 13)
- Fixing issues so that more Compilation images are found & linked with missions (Week 14)
- Revamped the Mission detail view to show Compilations in a sortable table (Week 14)
- Reloaded database with more relaxed search for Compilations (Week 15)
- Put associated Missions and Compilations in sortable tables in the detail views (Week 15)
- Added another cron job to make the nightly generated SeafloorMapping.db readable by others (Week 18)
- Testing the good work done by capstone team adding Draco compression to mbgrd2gltf (Week 18)
- Made some changes to mbgrd2gltf’s C++ code to open various versions of .grd files (Week 19)
- Tested mbgrd2gltf’s draco compression and provided feedback to the capstone team (Week 19)
- Implementing spreadsheet processing to get QC data into the SeafloorMappingDB (Week 20)
- Figured out the integration of crispy_forms with django_filter to improve SMDB’s missions page (Week 21)
- Moved to production spreadsheet processing for additional Mission details for SMDB (Week 21)
- Added new columns and filtering selectors for the additional Mission details in SMDB (Week 21)
- Changed SMDB’s expeditions and compilations pages to use crispy_forms with bootstrap 5 (Week 22)
- Rolled out .xlsx -> db -> .csv spreadsheet processing to production and did more testing (Week 22)
- Revamped how the exclude directory list is managed, now follows the survey_tally workflow (Week 23)
- Rolled out spreadsheet management of exclude paths to production (Week 24)
- Pulled to production Karen’s .css improvements (Week 24)
- Contributed 2025 proposal text (Week 25)
- Discussed how to model and collect information about platforms that produce data (Week 25)
- Diagnosed some display/rendering issues (Week 45)
- Verified Compilation thumbnail image finding logic (Week 45)
- Discussions on the way forward for rendering/display issues (Week 46)

901221 - Midwater Time Series

- At Rob's request added more dives to stoqs_rovctd_mw93_t (Week 45)
- Looking at populating Expd's RovctdBinData tables with our edited rov nav data (Week 45)
- With edited nav data in the elon & elat columns the midwater transect database looks better (Week 46)
- Revised expd-django's rovctdbindata service to return edited nav data and data by dive number (Week 49)
- Wrote some rudimentary tests that pass – will need to look a Playwright for better tests (Week 49)

901910 - Plankton Taxonomic Groups from AUVs

- Shared Notebooks that calculate Dorado HS2 -> Pontus Ecopuck transfer functions (Week 1)
- Frustrations with upgrades of auv-python requirements & keeping datashader working (Week 1)
- Demonstrated Dorado to Pontus transfer function computation Jupyter Notebooks (Week 2)
- Participated in “mini OSM” meeting for Dorado Diamonds paper that's in preparation (Week 2)
- Added direct regressions for pontus ecopuck to dorado HS2 to auv-python's 6.1 Notebook (Week 3)
- Adding some methods text to Monique's paper (Week 3)
- Added isusQuality variable to help us QC Dorado nitrate data and tested with a few missions (Week 7)
- Investigating data quality issues that Monique is finding with the diamond data (Week 10)
- Working with Monique & Michael to figure out comparable backscatter and chl variables (Week 11)
- Reprocessing LRAUV data for STOQS following Michael's fixes of ecopuck data in the .nc4 files (Week 13)
- Reprocessing pontus data into STOQS with new ParticulateBackscatteringCoeff variables (Week 14)
- Reprocessed and reloading 2019 to present stoqs_lrauv_ databases with new backscatter vars (Week 15)
- Reloading 2019-2024 monthly databases on tethysviz with proper backscatter parameters (Week 16)
- Had IS create a new partition for the STOQS .pg_dump files that were filling up / on tethysviz (Week 16)
- Finished reloading monthly LRAUV databases with proper backscatter variables (Week 18)
- Gave input on STOQS development scoping for 5 year project renewal proposal (Week 20)

- Final review of Monique's paper (Week 23)
- Reviewing proposal text for renewal of this project (Week 24)
- Looking at reloading stoqs_all_dorado to fix an inconsistency in backscatter variable naming (Week 49)

902101 - LRAUV Technology Development

- Updating STOQS ESP sample parsing code to deal with messages spread across multiple logs (Week 2)
- Testing reloading stoqs_greatlakes2023 (Week 2)
- Provided details for consolidating ESP Sample message in this Jira ticket (Week 3)
- At Fred's request added Seabird O2 data processing for the routine LRAUV loads into STOQS (Week 18)
- Fixed ESP name and cartridge number parsing problems from latest brizo deployment (Week 19)
- Reprocessed stoqs_greatlakes2022 to pick up missing ESP Samples that Chris P. identified (Week 22)
- Setup stoqs_denmark2024 for consolidating all the makai and brizo realtime log files (Week 24)
- Fixed parsing for ESP sample information for delayed mode data in stoqs_denmark2024 (Week 25)
- Reprocessing stoqs_denmark2024 to properly load all ESP Samples for Chris P. (Week 33)
- Encountered edge case in LRAUV-ESP consolidated message that Carlos is fixing (Week 33)
- Added activity__maptrack column to the STOQS activityparameter API response for Chris P. (Week 33)
- Created publicly accessible stoqs_greatlakes2024 database at Brian Kieft's request (Week 48)
- Finally fixed up stoqs_denmark2024 so that all the ESP Samples are properly represented (Week 49)
- Reloaded stoqs_greatlakes2024 after a missing 20-hour log set was made available (Week 49)

902403 - Expedition DB Modern

- Created 902403_EXPD_Modernization folder in projectlibrary for Capstone presentations (Week 1)
- Scheduled kickoff meeting for next Tuesday (Week 1)
- Held kickoff meeting and scheduled bi-weekly project meetings (Week 2)
- Continuing to study HTMX and reviewing Selenium functional testing (Week 2)
- Writing some capstone project definitions to tease out some of our user stories (Week 3)
- Submitted project idea (EXPD REST/GraphQL) for CSUMB CS capstone team(s) (Week 4)

- Getting familiar with GitHub project management tools, created repo & Issue for user stories (Week 4)
- Team meeting to start collecting user stories in a Google Jamboard (Week 6)
- Meeting with capstone team on Friday – they picked GraphQL (Week 6)
- Exploring Oauth2 social account implementation in EMDb (Week 6)
- Cleaned up EMDb pagination and implemented infinite scroll for Expeditions view (using HTMX) (Week 6)
- Learning about and implementing Leaflet AJAX data loading by fixing EMDb's home page (Week 7)
- Adding generic filtering to EMDb's DRF so that the UI can better use the REST backend (Week 7)
- Rolled out MBARI Single Sign On in EMDb (Week 7)
- Replaced drf-gis with PostGIS GeoJSON build reducing emdb's load time from 200 to 0.1 sec (Week 8)
- Working on expd-django that connects to expd on foggy (Week 10)
- Got Selenium pytest testing to work for the home page in expd-django (Week 11)
- Demonstrated expd-django running from my development system (Week 12)
- Reading Django REST Framework and drf-spectacular documentation (Week 16)
- Experimenting with adding REST endpoints to the expd-django (Week 16)
- Updated development system setup instructions for the expd-django project (Week 18)
- Reviewing capstone teams work on an API using Flask and Google authentication (Week 20)
- Testing capstone team's Flask implementation for an EXPD API (Week 21)
- Had IS create the expd.shore.mbari.org VM for hosting of expd-django (Week 23)
- Added additional ROV data endpoints and configured the admin interface for expd-django (Week 23)
- Waiting on https certificates for expd.shore.mbari.org before configuring MBARI Duo signin (Week 24)
- Replicating the Advanced search functionality in the expd-django project (Week 24)
- Wrote proposal text for project renewal (Week 24)
- Configuring MBARI Single Sign On for the prototype new expd web front end (Week 25)
- Bringing prototype <https://expd.shore.mbari.org> server back up for REST API testing (Week 33)
- Buffing out postcruise update form, mimicking the Legacy form as much as possible (Week 34)
- Continuing to work on the Postcruise process, namely adding Dives to Expeditions (Week 35)
- Continuing to work on Postcruise process in the expd-django project (Week 36)
- Struggling a bit with replacing "normal" ORM create functionality with a legacy stored procedure (Week 36)
- Continuing to work on Postcruise process in expd-django (Week 37)
- Added Legacy data links column to the Expeditions view (Week 37)
- Fixed popEDwithDBqueries_perseus.pl to not add ROVCTD links to Paragon & Packard (Week 37)

- Looking at rest-pandas package for replacing the Legacy data links with something smarter (Week 37)
- Phase 1 feedback answers provided (Week 38)
- Explored various API methodologies for browser delivery of CSV formatted rovctd and nav data (Week 38)
- Continuing to develop replacement Postcruise processes for the legacy EXPD web application (Week 38)
- Working on Issue 12: Implement Postcruise entry forms – fleshing out entering Dives (Week 41)
- Submitted project update slides for board meeting (Week 43)
- Implemented most of the Postcruise functionality outlined in Issue 12 (Week 43)
- Added email capability to be used for Postcruise and Precruise entry in EXPD (Week 43)
- Fleshing out Precruise pages (Week 45)
- Collecting several more Issues that have been provided by our users (Week 45)
- Added EMDB cronjob to update Expd's RovctdBinData tables (elon & elat columns) with newly edited and loaded ROV nav data (Week 46)
- Reviewed project milestones and labor budget with project team (Week 46)
- Presented growing list of Issues and invited comments and discussion there (Week 46)
- Wrote up an Issue regarding how to proceed on authorization/permissions (Week 48)
- Looking into using HTMX and django-template-partials for responsive Precruise entry pages (Week 48)
- Wrote up an Issue regarding how we should be doing user authorization in expd-django (Week 49)
- Reading up on alpinejs and sweetalert2 for creating the best Precruise forms in expd-django (Week 49)

Out of Office

- Feb 21-22 Vacation
- 29 March - Vacation
- 10-12 April - Vacation
- 22 April: Vacation
- 24 June - 19 July: Vacation
- 22 - 25 July: ESIP Federation Summer meeting, Asheville, NC
- 28 July - 1 August: SIGGRAPH, Denver, CO
- 20 June - 19 July: Vacation