

Mike McCann Sorted By Project

200109 - Core Mooring Data - MDUC

- Got Peter's help with remembering how to restart tomcat7 on elvis following addition of the current M1 mooring data to <https://dods.mbari.org/thredds/OSMooringCatalog.html> (Week 17)
- Debugged reason for Dorado processing not being able to read SWR data from M1 (Week 37)
- Cleaned up SSDS processing files to get SWR aggregation working again (Kevin helped too) (Week 39)

901009 - CANON

- Updated STOQS modules and attempting to get DockerHub CI working again (Week 1)
- Reviewing LRAUV ESP Sample ID log info parsing logic with Katy (Week 1)
- Wrote Notebook to compare ESP Sample data in STOQS vs. data from Katy (Week 2)
- Watching for delayed mode LRAUV data to load into stoqs_echohab_may2022 (Week 23)
- With brizo's recovery stoqs_ecohab_may2022 is being reloaded (Week 24)
- Made video of LRAUV sampling and posted to sb_ecohab_2022 Slack channel (Week 25)
- Fixed STOQS functional tests and brought all STOQS modules up to date (Week 31)
- Trying to add a url shortening service to STOQS for better "Share this view" urls (Week 35)
- Rolled out shortened URL database app for STOQS "Share this view" feature (Week 37)
- Beginning to write loader for stoqs_canon_october2010 (Week 41)
- Loaded stoqs_canon_october2022 and confirmed that all 55 field ESP Samples were parsed (Week 42)

901101 - Seafloor Mapping

- Added 'restart: always' to docker .yml to start services following system reboot (Week 1)
- Exploring ways to collect Compilation information from SeafloorMapping directories (Week 1)
- Reloaded database with log messages detailing Compilation/Mission associations (Week 2)
- More work on to lookup timestamps for Compilations by using .grd file creation times (Week 3)
- Struggling with building MB-System container so I can work on building mbgrd2gltf (Week 3)
- Handling a request from ITD to compute distances surveyed over time (Week 4)
- Got mbgrd2gltf to build with cmake in container and will integrate with Tom's work on cmake (Week 4)
- Modifying the schema to store Compilation records (Week 5)
- Updating the load script to find and store interesting compilation information (Week 5)
- Loaded <https://smdb.shore.mbari.org/> with Compilations to give us something to discuss (Week 6)
- Working on Issue 76 and getting frustrated with traefik, might go with just nginx (Week 6)
- Switched from traefik to nginx and now able to serve files from titan's SeafloorMapping share (Week 7)
- Continuing work/discussions about Compilations (Week 7)
- Replaced incorrect web mercator based track length with haversine calculation (Week 8)
- Compared nav track length calculations – using the more precise mb8[8-9].inf metadata (Week 8)
- Tested, merged, and deployed Karen's UI improvements to <https://smdb.shore.mbari.org> (Week 10)
- Reloaded database in order to capture recent Octopus Garden Missions (Week 11)
- Deployed better filter and table display for Missions, Expeditions, and Compilations to smdb (Week 12)
- Set up cron job to reload the database each Sunday morning (Week 14)
- Met with Jenny & Karen to discuss next priorities (Week 17)
- Working with Karen on trying to get her front end improvements merged in (Week 18)
- Fixing the Continuous Integration that broke with a couple of underlying module updates (Week 22)
- Evaluating Jenny & Karen's pull requests (Week 22)
- Started on writing UI functionality testing using Selenium (Week 24)

- Examining Jenny's suggestions for identifying failed missions (Week 24)
- Gave Jenny feedback via GitHub Issues for use in the 2023 proposal (Week 25)
- Implementing Selenium testing – having frustrations making it work in Github Actions (Week 25)
- Upgraded to Django 4 (Week 33)
- Added maps of the Missions to the Compilation, Expedition, and Mission data views (Week 33)
- Provided more controls for pagination in these views (Week 33)
- Merged changes to improve basemaps and filtered table & map data views in smdb (Week 34)
- Deployed Karen's improvements for track line display on Google base map (Week 35)
- Met with Karen to discuss the filtering of responses in SMDB's backend (Week 38)

901111 - AUV Infrastructure Support

- Struggled processing 2026.006.00 with important comments removed from devices.cfg (Week 2)
- Added mb-system container to STOQS for future terrain processing capabilities (Week 2)
- Fixed the re-interpolation of realtime decimated data in IrauvNc4ToNetcdf.py for LRAUV team (Week 4)
- Found and fixed problem with colormap changes on subsequent selections in STOQS UI (Week 4)
- Processed Dorado mission 2022.075.00 (Week 12)
- Fixed lookup from TethsDash/api/events to use GMT time zone for getting Sipper metadata (Week 12)
- Fixed a numpy exception in LRAUV netCDF generation code for recent tethys data (Week 16)
- Processed Dorado Gulper mission 2022.158.00 (Week 23)
- Checked that currently deployed LRAUV data is flowing into STOQS on tethysviz (Week 32)
- Accommodating latitude and longitude name changes in Dorado's navigation.log file (Week 38)
- Fixing STOQS parsing to get all 14 ESP samples from Brizo's Lake Michigan deployment (Week 38)
- Processed dorado mission 2022.284.00 (Week 41)
- Processed Dorado Gulper missions 2022.284.00 and 2022.286.01 (Week 42)
- Used Scaniverse app to create a better 3D model (.glb) of the Dorado vehicle for STOQS (Week 42)
- Creating stoqs_greatlakes2022 database for last summer's LRAUV ESP missions there (Week 49)
- Changed STOQS Sipper parsing code to use the syslog files instead of tethysdash in order to pick up the missing daphne Sippers that Marguerite identified (Week 49)
- Processed and added skipped over triton log file to stoqs_greatlakes2022 (Week 50)
- Trying to get hyrax-docker to follow symbolic links on elvis (Week 52)

901221 - Midwater Time Series

- Picking up the auv-python project and getting reacquainted with Poetry inside VS Code (Week 18)
- Planning to process i2Map logs and put corresponding netCDF files back onto the M3 share (Week 18)
- Testing processing through to copying resampled netCDF files to the AUVCTD share (Week 19)
- Met with Rob to discuss validating the i2map data processing products (Week 19)
- Testing auv-python workflow by processing entire i2map archive through to a STOQS db (Week 20)
- Fixed issue with calibrating i2map seabird25p temperature and conductivity – there are two sets of calibration coefficients! Not one set as in Dorado Gulper. (Week 20)
- Starting on computing salinity and processing dissolvedO2 (Week 20)
- Checking with Rob on the proper oxygen calibrations to use for i2map data (Week 22)
- Validating dissolved oxygen computations by writing unit tests in auv-python (Week 23)
- Will be meeting with Rob about next steps with i2map CTD data (Week 24)
- Sent Brian reference to auv-python generated netCDF files (Week 24)
- Met with Rob to discuss this year's progress and next year's proposal needs (Week 25)
- Writing code in auv-python to routinely process new i2MAP mission data (Week 34)
- Working on dockerizing auv-python for deployment on MBARI server (Week 35)
- Got distracted when found a url shortening Django project that uses Poetry (Week 35)
- Got dockerized auv-python to work and deployed it on kraken (Week 37)
- Moved auv-python to a private repo on GitHub so that it can use Actions (Week 37)

- Testing automated processing of i2map vehicle data upon copy of log files to the M3 share (Week 37)
- Confirmed that i2map automated processing into stoqs_all_i2map works upon copy to M3 (Week 38)
- Added navigation_mWaterSpeed and tailcone_propRpm variables to stoqs_all_i2map (Week 39)
- Fine tuning netCDF metadata (variable comments) produced by the auv-python software (Week 39)
- Added (Week 46)
- Upgrading auv-python to use python 3.11 and getting wrapped around the axel by poetry (Week 49)

901602 - Data TAG

- Thinking about potential topics to add to the document (Week 1)
- Setting up emdb.shore.mbari.org for centralized logging (Week 10)
- Confirmed that logs from emdb are making it to syslog-server (Week 11)
- Wondering about emdb's /var/log/syslog out of memory messages getting to syslog-server (Week 12)

901910 - Plankton Taxonomic Groups from AUVs

- Reloaded surveys into stoqs_all_dorado that were missing Monique's proxies (Week 12)
- Identified problem with Gulper metadata in STOQS – it needs better than minute temporal precision that is provided from the ODV formatted files (Week 25)
- Testing the process_dorado.py script in auv-python for entire reprocessing of the archive (Week 38)
- Peter helped by adding 100 GB to kraken's root to support batch processing there (Week 39)
- Submitted IS help ticket to upgrade Hyrax on elvis (Week 39)
- Migrating LOPC processing into auv-python (Week 40)
- Comparing Dorado legacy processing with auv-python processing in stoqs_auv_compare (Week 40)
- In year 2010 with the reprocessing of Dorado data archive with the auv-python software (Week 41)
- Finding more unique Dorado log data problems that require more QC steps in auv-python (Week 41)
- Comparing auv-python generated data against Matlab processed data in stoqs_auv_compare (Week 41)
- Fixed more qc issues and now processing Dorado missions from 2017 using auv-python (Week 42)
- Will be meeting with Monique on Thursday (Week 42)
- Good news: Can reprocess entire Dorado archive in a weekend with auv-python (Week 43)
- Not so good news: There are several ad hoc Matlab code QC fixes I need to generalize (Week 43)
- I now have a long TODO list now following meeting with Monique (Week 43)
- Added QC metadata notes for all Diamon missions (Week 44)
- Using that metadata to load stoqs_mb_diamonds database (Week 44)
- Transferred Matlab Dorado Science Data Processing comment to auv-python and seeing that this metadata is written to the netCDF files and is presented in the STOQS UI (Week 45)
- Examining geometric depth correction due to pitch and its effect on our salinity section plots (Week 45)
- Testing auv-python reprocessing of archive with (Week 45)
- Fine-tuned loading of stoqs_mb_diamonds based on title metadata (Week 46)
- Per Rob's request added seabird25p_beam_transmittance processing to i2map pipeline (Week 46)
- Took measurements of nose cone sensor offsets from tail cone pressure sensor and will be adding them to the processing to see how that improves quality (Week 46)
- Reprocessed Dorado diamond survey data with correct sensor offsets for pitch correction (Week 48)
- Loading a parallel stoqs_mb_diamonds_t database to evaluate improvement in section plots (Week 48)
- Writing Dorado science data processing for the ecopuck instrument (Week 49)
- Reloaded stoqs_mb_diamonds with ecopuck data, spent some time comparing with hs2 (Week 50)
- Reviewing Monique's proxy computation code to plan for incorporation into auv-python (Week 50)
- Adding processing of raw biolume data to auv-python (Week 52)
- Exploring biolume data with datashader/bokeh in Jupyter Notebooks (Week 52)

901915 - Improving the Impact of MBARI's Data

- Provided some paragraphs for Kevin to use (Week 25)
- Attending ESIP Summer Meeting in Pittsburg, PA (Week 29)
- Casted MBARI's vote for ESIP's endorsement of Science-on-Schema.org Guidelines (Week 32)
- Migrated the OA1 Data page to the new web site – my first edits using new template (Week 38)
- Begun editing of the M1 data page (Week 39)
- Started on Mooring data page (Week 41)
- Met with Fred to understand better how CeNCOOS is presenting our mooring data (Week 42)

902202 - MBARI Cloud Integration Exploration

Out of Office

- 27 December 2021 - 3 January 2022
- 28 March - 1 April: Vacation
- 15 March: Vacation
- Vacation day: Thursday 28 April 2022
- 27 June - 29 July: Vacation
- 23-31 May: Sick leave
- 27 June - 20 July: Vacation
- 19-22 July: ESIP Summer Meeting, Pittsburg, PA
- 25-29 July: Vacation
- 27 June - 18 July: Vacation
- Aug 12, 18-19: Vacation days for CSUMB teaching prep
- Aug 18-19: Vacation days for CSUMB teaching prep
- Sick day taken on Monday following vaccine booster shots over the weekend
- Shifting work schedule to remotely attend the Web 3D Conference in Paris
- 11/21-11/23: Vacation
- Dec 19, 21, 23 Vacation

Overhead

- Increased to 3 digits the field with for NumFileSegments in Expd's TapeSummary table (Week 1)
- Group meeting & Data TAG discussion (Week 1)
- Evaluated new BEDS-Qualification-2021 data format and decoding software (Week 2)
- Evaluating STOQS software changes needed to support LRAUV mission off Woods Hole (Week 2)
- Reprocessed some frame grabs that had failed Expd database inserts (Week 3)
- Created glTF terrain for STOQS to support east coast LRAUV mission data (Week 3)
- Expedition database data entry discussions (Week 3)
- Participated in Zoom meeting with WHOI & USCG folks showing STOQS capabilities (Week 4)
- Wrapped up my work on the Notebook to add up track_lengths from SeafloorMapping DB (Week 5)
- Planning to put new BEDS qualification data into a STOQS database for validation (Week 5)
- Annual review (Week 5)
- Spun up an Expedition Mapping Database project to analyze ROV Nav data (Week 6)
- Group meeting: thinking of centralized logging I could do (Week 6)
- Examined BEDS bench test .EVT files and submitted PR for decodeBEDS.py code changes (Week 7)
- Continuing work on an "Expedition Mapping Database" (Week 7)
- Fudging sampling rate and processing new BEDS bench test data into a STOQS database (Week 8)
- Working on implementing Django table views for expd_mapping database (Week 10)
- Initial deployment of <https://emdb.shore.mbari.org> to help with ROV nav editing QC (Week 11)
- Applying the same filter and table functionality to the expd_mapping database (Week 12)

- Installed caching server and increased RAM so that the initial load of <https://emdb.shore.mbari.org/> is faster (Week 14)
- Starting to look at QC operations that can be done for ROV Nav data (Week 14)
- Created CleanRovnavDataQC EXPD View that removes (0, 0) points (Week 14)
- Adding start_datetime and end_datetime columns to CleanRovNavLoad table (Week 14)
- Set up weekly task on draco to reload any edited ROV nav file – testing it tonight (Week 15)
- Buffering out emdb's load script to reload any dive's data and to automate reloading updated edited nav data from the Expedition Database (Week 15)
- Met with Lonny to give him permission to execute Expedition Database load scripts on draco (Week 15)
- Fixed file start and end times in Expd's CleanRovNavLoad table (Week 16)
- Monitoring end-to-end processing of edited ROV Nav data through draco, Expd, & emdb (Week 16)
- Using (and enhancing) the emdb web site to find and remove outliers from edited nav files (Week 16)
- Frustrated with front-end development – how do people even debug CSS & Bootstrap?! (Week 17)
- Squashed a few edge case bugs with nightly emdb loading of newly edited ROV nav files (Week 17)
- Will be meeting with Lonny & Krystle to go over using <https://emdb.shore.mbari.org/> (Week 17)
- Trying to figure out how to add a map view to the CBV-driven dives detail view... (Week 17)
- The emdb server now has this view to help us monitor ROV nav edited file processing (Week 18)
- Planning to meet with Lonny & Krystle next week to go over using emdb (Week 18)
- Found the cause of excessive disk usage on emdb, will share the story at next group meeting (Week 19)
- Met with Lonny & Krystle to go over ROV nav editing workflow visualization (Week 19)
- Reloading emdb following fixes for excessive disk usage (Week 19)
- Getting Peter's help to fix git/ssh key problem for ssdsadmin on elvis (Week 20)
- Still working with Peter on a git/ssh solution for ssdsadmin on host elvis (Week 23)
- Working with Lonny on nightly edited ROV Nav data flow through expd and emdb (Week 24)
- Github Copilot stopped working and paid the \$100 annual fee – it's quite the crutch now! (Week 25)
- Plowed through a month's worth of email that accumulated during vacation (Week 31)
- Scoping meeting for Core ROV Nav project and use of <https://emdb.mbari.org> (Week 31)
- Added rudimentary functional tests to help me remember what expd_mapping does (Week 32)
- Making sure that Mini ROV navfile metadata is getting properly loaded into emdb (Week 32)
- Intern symposium (Week 32)
- Investigated fixes for truncated camera log data for V999 from 1995 (Week 34)
- AWS day: Sagemaker, Robomaker, Python & CLI (Week 34)
- Trying to figure out bitbucket-pipelines to use docker-compose for emdb (Week 34)
- Helped Neil clean up old/unused .wrl (VRML 97) files from the 3DReplay share (Week 37)
- Letter of support for STOQS use a BEDS-style terrestrial application (Week 40)
- Registered for 2022 Web 3D Conference (virtual attendance - Paris time :-()) (Week 42)
- Helped diagnose problem (wedged draco) with data loads into the Expedition Database (Week 43)
- Will be meeting with Linda and Lonny to go over using emdb to help with ROV nav QC (Week 43)
- Met with Brian to show where processed i2map data is and to talk about ROV Nav editing (Week 44)
- Met with Video Lab folks to explore ways to fix problems with Expd's annotations web page (Week 46)
- Failing to complete my work on new web site M1 data pages (Week 46)
- Dusting off EMDB code to fix some bugs in preparation for ROV nav editing contract work (Week 48)
- Fixed EMDB to use nginx log file serving instead of the AWS it inherited from SMDB (Week 49)
- Helping video lab figure out why CTD data for d1449 isn't loading (Week 50)
- For next year's Rov Nav editing work wrote program to generate ROV nav files by dive (Week 50)
- Conferring with Matt & Peter on calendar changes needed for the R/V David Packard (Week 50)
- *Examined some rovctdo data processing issues for Expd (Week 52)*