

Mike McCann

Week 51

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Deployed updates, including to Django 5.0, to the 3 STOQS production servers
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Processed mission i2map_2023.318.00 into stoqs_all_i2map
- 901910 - Plankton Taxonomic Groups from AUVs
 - Working on Notebooks for Dorado & Pontus fluorometer data transfer function computation
- 901915 - Improving MBARI Data Impact
- Overhead
 - Got STOQS functional tests working on Mac M2 with arm-based containers for Selenium
- Out of Office
 - Dec 26-29: Vacation

Week 50

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Dec 11-15: AGU
 - Dec 26-29: Vacation

Week 49

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Processing VolumeScatCoeff117deg[470|650]nm variables now instead of Output[470|650]
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping

- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Working on Notebook that uses Holoviews to interactively explore Parquet data from STOQS
- 901915 - Improving MBARI Data Impact
- Overhead
 - Appreciating Mac M2 performance after getting native ARM images to build for STOQS
 - Giving tour of MBARI for capstone teams Friday at noon
- Out of Office
 - Dec 11-15: AGU
 - Dec 26-19: Vacation

Week 48

- 200105 - Core Navigation Data - MDUC
 - Still looking at using HTMX for updating emdb dive records with Data Validation Codes
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Gave tutorial to Steve Ruberg & Kristen Rosier for getting data from [stogs_greatlakes2023](https://stogs.greatlakes2023)
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Attempting to understand optical backscatter data processing and units from Dorado & Pontus
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Nov 28: Vacation
 - Dec 11-15: AGU

Week 47

- 200105 - Core Navigation Data - MDUC
 - Provided dive and CTD times report for Linda to improve QC of ROV nav data
 - Looking at using HTMX for a simple form entry of a data_validation_code in EMDB
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Processed Dorado mission 2023.324.00
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Signed project partner letter with Durham Univ. for using STOQS for terrestrial smart boulders
- Out of Office

Week 46

- 200105 - Core Navigation Data - MDUC

- Added 2 new cron jobs on emdb: add_new_dives and gen_new_raw_nav
- Glad I wrote [the Workflow documentation](#) a year ago when I last worked on this code
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Modifying auv-python's biolume proxy code to support variable flash_threshold values
- 901915 - Improving MBARI Data Impact
- Overhead
 - Background checks for capstone student tour completed
- Out of Office

Week 45

- 200105 - Core Navigation Data - MDUC
 - Started working on last [3 Bitbucket issues](#) for the ROV nav editing project
 - Working on getting a development EMDB system working on new laptop
- 200109 - Core Mooring Data - MDUC
 - Virtually attending OceanSITES meeting
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Completed work on pulling correct SBE-43 O2 calibrations from Erich's calibration file archive
 - Reloaded [stogs_all_i2map](#) – much better agreement now between port & stbd O2 sensors
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Attended 2017 intern Rachel Kahn's PhD defense from MIT-WHOI
 - Rescheduled capstone student tour to Friday 8 December
- Out of Office

Week 44

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Quick look plotting from auv-python on hold to work on i2map O2 calibration
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Writing code to walk DMO share's "Calibration Files" folder to get correct i2map O2 calibration
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact

- Overhead
 - Arranged MBARI tour for current capstone students at noon on 1 December, an off Friday
 - Met with seminar speaker to discuss Hacking for Impact and student mentoring
- Out of Office

Week 43

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Continuing to work on matplotlib quick look plotting in auv-python software
 - Deployed updated STOQS UI that has new scrolling Measured Parameters list
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Discovered malformed query that impacts performance of plotting data from stoqs_all_dorado
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office

Week 42

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Processed dorado mission 2023.285.01 from hotel room in Spain
 - Writing matplotlib code to produce the quick look plots in auv-python
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Presented oil spill simulation visualization from STOQS at the Web3D Conference last week
 - Still discovering more things that need to be transferred from old laptop to new laptop
- Out of Office

Week 41

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs

- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - 9-13 October: Web3D 2023 Conference

Week 40

- 200105 - Core Navigation Data - MDUC
 - Got TODO list from Lonny & Linda for Expd and EMDB improvements
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Used MB-System on new Mac to create a 100x vertical exaggerated terrain of Lake Michigan
 - Testing visualization improvement with 100x vertical exaggerated simulation & LRAUV data
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Accepted offer to be on the jury for best paper at the Web3D 2023 Conference
- Out of Office
 - 9-13 October: Web3D 2023 Conference

Week 39

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Making progress on simulation animation in STOQS – plan to present at [Web3D Conference](#)
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Verified that September's i2map mission was automatically processed into stoqs_all_i2map
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Mentored Expd Modernization project capstone teams
 - Provided feedback for Expd Modernization project alignment with strategic roadmap
- Out of Office
 - 29 September: Vacation
 - 9-13 October: Web3D 2023 Conference

Week 38

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG

- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Mostly vacation, but did get the STOQS mapserver container to work on Mac M2 arm
- Out of Office
 - 29 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 37

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - 12-20 September: Vacation
 - 29 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 36

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Updated auv-python code to use Python 3.11 on new computer
- 300083 - DMO Divisional Support - LRAUV
 - Fixed loading of [stoqs_greatlakes2023](#)
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Revised Expd Modernization Requirements for capstone document based on group input
 - Met with CSUMB students about their Expd Modernization projects – they're excited about it!
- Out of Office
 - 12-20 September: Vacation
 - 29 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 35

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Adding product generation code to auv-python: ODV Gulper files first, then quick look images
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Started reload of stoqs_all_dorado with PAR data addition
- 901915 - Improving MBARI Data Impact
- Overhead
 - Reduced some labor items in response to Phase 2 for Expd Database Modernization
 - Still adding to requirements document for Expd Database Modernization capstone
 - Still copying everything over to new computer
- Out of Office
 - 12-20 September: Vacation
 - 29 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 34

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Going through old Dorado missions to make sure all of them get processed by auv-python
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Toggling between loading stoqs_all_dorado_t and stoqs_all_dorado to verify good processing
- 901915 - Improving MBARI Data Impact
- Overhead
 - Writing requirements document for Expedition Database Modernization capstone project(s)
 - Copying everything over to new computer
- Out of Office
 - 12-20 September: Vacation
 - 29 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 33

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
 - Adjust regex in vfbydive to parse new naming using fractional seconds for framegrabs

- 901009 - CANON
 - Renewed Matlab license on elvis so that it no longer needed a reboot every few days
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Reprocessed i2map data to get the latest auv-python goodness in [stogs_all_i2map](#)
- 901910 - Plankton Taxonomic Groups from AUVs
 - Found problem with extrapolation with interp1d() in auv-python
 - Fixing remaining data quality issues before reloading [stogs_all_dorado](#)
- 901915 - Improving MBARI Data Impact
- Overhead
 - Attended CSUMB Capstone presentations last Saturday
 - Agreed to mentor CD/CD students in the Fall with an Expd Database modernization project
- Out of Office
 - 17 August: Vacation
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 32

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - 31 July: Sick day
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 31

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Making good progress on 3D oil spill simulation data visualization in STOQS
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Finished load of stogs_all_dorado_t, still comparing Matlab with auv-processed data
- 901915 - Improving MBARI Data Impact
- Overhead
 - Setting up new computer

- Preparing for SIGGRAPH next week
- Out of Office
 - 31 July: Sick day
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 30

- 200105 - Core Navigation Data - MDUC
 - Examining edited nav data flow into Expd's RovctdData for improving midwater STOQS DBs
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Exploring x3dom's <VolumeData> and <ImageTextureAtlas> nodes for visualizing oil spill simulation data in the STOQS database for current Great Lakes LRAUV deployments
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Resurrected ROVCTDloader.py script to update midwater STOQS databases
- 901910 - Plankton Taxonomic Groups from AUVs
 - Currently loading [stogs_all_dorado_t](#) as a test of auv-python generated and QC'ed data
- 901915 - Improving MBARI Data Impact
- Overhead
 - Working the open house on Saturday – supervising our parking volunteers
- Out of Office
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 29

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Mentoring capstone students – one team is doing so well I had to order new STOQS mugs
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Adding additional QC for occasionally bad dorado parosci data from 2008 to 2012
- 901915 - Improving MBARI Data Impact
- Overhead
 - Placed order for computer upgrade
- Out of Office
 - 18 July: Vacation
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 28

- 200105 - Core Navigation Data - MDUC
 - Diagnosed a duplicate record problem preventing some data loading problems in emdb
- 200109 - Core Mooring Data - MDUC
 - Submitted 2024 proposal
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Creating a stoqs_greatlakes2023 database for triton and makai deployments there
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Tested STOQS development system modernization capstone student work
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Contributed to 2024 proposal submission
- 901915 - Improving MBARI Data Impact
- Overhead
 - Submitted Expedition Database Modernization proposal
- Out of Office
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 27

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Finishing migration of tethysviz2 to the official <https://tethysviz.shore.mbari.org/> server
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Plowing through piled up emails
 - Mentoring capstone teams
- Out of Office
 - 7-11 August: SIGGRAPH in LA
 - 12-20 September: Vacation
 - 9-11 October: Web3D 2023 Conference

Week 26

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON

- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - 26-30 June: Vacation
 - 7-11 August: SIGGRAPH in LA
 - 9-11 October: Web3D 2023 Conference

Week 25

- 200105 - Core Navigation Data - MDUC
 - Updated emdb with raw nav data from v4400-v4459 to help Linda assign quality flags
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Starting to transfer databases to the new tethysviz2 STOQS server
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Merged Django 4.2.2 and postgres15 changes into master branch
 - Mentoring Capstone team who is working on the [STOQS modernization issue](#)
- 901101 - Seafloor Mapping
 - Fixed GitHub Actions, but marginally successful in getting Selenium testing to work there
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Loaded [stogs_auv_compare](#) for another comparison of auv-python proxy data
- 901915 - Improving MBARI Data Impact
- Overhead
 - Wrote a [Jupyter Notebook](#) that computes platform track lengths from data in STOQS
 - Shared first draft of Expedition Database Modernization proposal
 - IS is changing my UID tomorrow so that my Macs will stop acting like they're brain dead
- Out of Office
 - 26-30 June: Vacation
 - 7-11 August: SIGGRAPH in LA
 - 9-11 October: Web3D 2023 Conference

Week 24

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Submitted help ticket to configure new tethysviz2 STOQS server to host PostgreSQL 15 DBs
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Used wgTiny positions for LRAUVs during ESP filtering in [stogs_canon_may2023](#)
 - Fixed functional testing using SeleniumHub containers in STOQS postgres15 branch
 - Able now to upgrade to Django 4.2.2 in postgres15 branch with planned tethysviz migration
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs

- 901915 - Improving MBARI Data Impact
- Overhead
 - Getting IS help next week to change my UID so that MacOS XQuartz works properly
 - Thinking about writing Expedition Database Modernization proposal
- Out of Office
 - 26-30 June: Vacation
 - 7-11 August: SIGGRAPH in LA

Week 23

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
 - Planning to migrate the tethysviz STOQS server to a new VM that uses PostgreSQL 15
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Transition to new stoqs.shore.mbari.org complete with DNS changes wednesday morning
 - With IS help opened firewall so that stoqs.mbari.org can see the new kraken server
 - Fixing brizo's bad dead reckoned position data from the May 2023 CANON campaign
- 901101 - Seafloor Mapping
 - Dave merged the capstone teams mbgrd2gltf contribution to MB-System
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Sent Jupyter Notebook that combines multiple MARS DAS files with xarray to Aaron Micallef
- Out of Office
 - 26-30 June: Vacation
 - 7-11 August: SIGGRAPH in LA

Week 22

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - The new internal stoqs server (kraken2) is performing well with Postgres15 and more space
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Loaded stoqs_all_dorado on kraken2 with legacy and new auv-python processed data
 - Identifying some missions that need better quality control in the auv-python software
- 901915 - Improving MBARI Data Impact
- Overhead
 - Expd database modernization project discussions following go ahead from MT
 - Exploring kerchunck, fsspec, zarr, xarray, and datashader to visualize MARS DAS data
 - Advising 2 CSUMB CS Capstone teams
- Out of Office
 - 7-11 August: SIGGRAPH in LA

Week 21

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Upgraded to stoqs-mapserver 7.4.2 for Postgres 15 authentication support
 - Continuing to test Postgres 15 on kraken2 – so far so good
 - Making sure automated i2map data processing is executing for ongoing CANON campaign
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Wrote code to convert UTM positions for 2003-2004 Dorado data processing in auv-python
 - Testing reloading stoqs_all_dorado on kraken2
- 901915 - Improving MBARI Data Impact
- Overhead
 - Gave project abstract presentation on proposed EXPD modernization project
 - Attended CSUMB CS capstone festival last Friday and had kickoff meetings with new teams
- Out of Office
 - 7-11 August: SIGGRAPH in LA

Week 20

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Spinning up replacement kraken2 internal stoqs server with lots of help from Peter
 - Running pg_restore for all existing stoqs databases into kraken2's postgres version 15 server
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - 23 May: Vacation day
 - 7-11 August: SIGGRAPH in LA

Week 19

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - The /pg_data partition on kraken (our internal stoqs server) got to 97% full
 - Needed to pg_dump/pg_restore several stoqs databases to recover from above problem
 - Submitted IS request to build new kraken2 server with more capacity

- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Fixed sampling and plumbing lag computations for Dorado biolume data
 - Reloaded newly processed auv-python data in test stoqs_auv_compare_t database
 - Met with Monique & Michael to discuss next steps and her presentation for ASLO
 - Reprocessing entire Dorado archive with labels for which CTD is best
- 901915 - Improving MBARI Data Impact
- Overhead
 - Tested MB-System [pull request](#) from capstone students and advised them to submit it
 - Giving the 4 capstone students a tour of MBARI on Friday afternoon (thanks in advance to the Video Lab and the AUV teams :-)
- Out of Office
 - 23 May: Vacation day
 - 7-11 August: SIGGRAPH in LA

Week 18

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office

Week 17

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office

Week 16

- 200105 - Core Navigation Data - MDUC
 - Added Expedition Data comments to popup on EMDB's Dive detail view
 - Will be meeting on Monday to discuss final steps with ROV nav editing project
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV

- 300083 - DMO Divisional Support - LRAUV
 - Maintaining data flow into [stoqs_lrauv_apr2023](#) and [stoqs_ecohab_april2023](#)
 - Fine tuning crontab execution times as these databases now take 15+ hours to load
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Fixing an auv-python processing problem with bad ctd1 data affecting other instruments
 - Verifying daytime/nighttime processing for bioluminescence proxy variables
 - Adding ISUS processing to auv-python
- 901915 - Improving MBARI Data Impact
- Overhead
 - Met with capstone students about their project to build MB-System with mbgrd2gltf added
- Out of Office

Week 15

- 200105 - Core Navigation Data - MDUC
 - Checking with Lonny on monitoring Linda's progress – nightly emdb load jobs are working fine
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Supporting ECOHAB by ensuring data is flowing into [stoqs_ecohab_april2023](#)
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Evaluating auv-python generated proxies with datashader plots Jupyter Notebooks
- 901915 - Improving MBARI Data Impact
- Overhead
 - Met with capstone students and Tom O'Reilly about building MB-System with cmake
 - Submitted 2 more capstone projects for CSUMB online students
- Out of Office

Week 14

- 200105 - Core Navigation Data - MDUC
 - Continuing to monitor successful execution of nightly EXPD and EMDDB loads
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Supporting ECOHAB with loading data into https://stoqs.mbari.org/stoqs_ecohab_april2023
 - Fixed an upstream interpolation/merging LRAUV data problem by using xarray
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Improved profile numbering algorithm by using scipy's find_peaks()
 - Implemented time shifting data for dorado plumbing lags

- Decreasing Gulper sample durations from 4 to 2 seconds for finer representation
- Continuing to get my Notebook and auv-python code to agree with existing proxies
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office

Week 13

- 200105 - Core Navigation Data - MDUC
 - Continuing to monitor nightly cron job operations populating <https://emdb.shore.mbari.org>
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Updated auv-python software to process nav data if i2map CTD data fail to log
 - Reloaded partial CTD recorded i2map platform data into [stoqs canon fall2019](#)
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Systematically comparing data loaded into stoqs_auv_compare using Holoviews in Jupyter
- 901915 - Improving MBARI Data Impact
- Overhead
 - Moved office
- Out of Office
 - March 27-28 Vacation days

Week 12

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - March 13 Vacation day

Week 11

- 200105 - Core Navigation Data - MDUC
 - Fixed load_edited_into_expd.py so that it reuses existing CleanRovNavLoad records in expd
 - Watching that nightly emdb and expd database update cron jobs are successful & idempotent
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON

- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Reviewing flash intensity calculation in Notebook
 - Continuing to compare auv-python calculations with the Monique's calculations
- 901915 - Improving MBARI Data Impact
- Overhead
 - Met with capstone students who are working on mbgrd2gltf for MB-System
- Out of Office
 - March 13 Vacation day

Week 10

- 200105 - Core Navigation Data - MDUC
 - Updating ship_and_rov_core_data_workflow.md with new expd_mapping workflow
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Revised 5.2-mpm-bg_biolume-PiO-paper Notebook to get better agreement
 - Reprocessing auv-python generated 1 Second data with the Notebook method
 - Will be reloading https://stoqs.shore.mbari.org/stoqs_auv_compare to validate
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - March 9, 13 Vacation days

Week 9

- 200105 - Core Navigation Data - MDUC
 - "By dive" edited ROV navigation data now being loaded into EXPD CleanRovnavData tables
 - The tracking table (CleanRovNavLoad) can be queried by consumers to know when to update
 - Linda is making great progress on editing, <https://emdb.shore.mbari.org/> looks much better!
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
 - Following BK's recovery of January daphne files reloaded sippers for [stoqs_lrauv_jan2023](#)
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Attending CANON meetings remotely
 - Increasing memory of stoqs.mbari.org to support external Parquet data export users
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
 - Updated internal web calendar to synchronize future R/V *David Packard* Zimbra events
 - Meetings with capstone students on mbgrd2gltf project for MB-System

- Out of Office
 - March 2-3, 7, 9 Vacation days

Week 8

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Feb 17 Vacation
 - Feb 21-24 Vacation days

Week 7

- 200105 - Core Navigation Data - MDUC
 - Preparing to load edited `_by_dive.txt` files into EXPD's tracking and CleanRovnavData tables
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Monique is reviewing another iteration of the 5.2-mpm-bg_biolume-PiO-paper.ipynb notebook
 - Fixed some STOQS bugs for loading `stoqs_auv_compare` for evaluating proxy calculations
- 901915 - Improving MBARI Data Impact
- Overhead
 - Some flails over trying to keep Docker services running during underlying updates
 - Met with capstone team to advise on their project plan for MB-System's `mbgrd2gltf`
- Out of Office
 - Feb 17 Vacation
 - Feb 21-24 Vacation days

Week 6

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
 - Linda reports that edited "by_dive" files look good in the emdb web app - ready for loading
- 901009 - CANON
 - At Jacoby Baker's request reloaded [stoqs_canon_july2020](#) following fix to ESP parsing code
 - Met with Scripps student and John Ryan to discuss getting data from [stoqs_canon_april2021](#)

- Consulting with Chris Preston on getting data out of [stoqs_os2018](#)
- 901101 - Seafloor Mapping
 - Met with capstone students who are working on the [build for mbdrg2gltf](#) in MB-System
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Continuing to work on demonstration Notebook trying to make it agree with Monique's results
 - Testing Notebook computations in resample.py with a stoqs_auv_compare database
- 901915 - Improving MBARI Data Impact
- Overhead
 - Annual review
- Out of Office
 - Feb 13 Vacation

Week 5

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
 - Added point visualization in emdb web app for by_dive nav files that are being re-edited
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
 - Investigated short record of CTDO data for i2map's 2020.41.02 mission
- 901910 - Plankton Taxonomic Groups from AUVs
 - Making some adjustments following review my proxy calculations with Monique
 - Code is implemented in auv-python for production proxy computation
 - Tested complete pipeline into: https://stoqs.shore.mbari.org/stoqs_mb_diamonds_t
- 901915 - Improving MBARI Data Impact
- Overhead
 - Provided STOQS data export instructions to our Great Lakes collaborators
- Out of Office
 - Feb 13 Vacation

Week 4

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Jan 18-20 Vacation

Week 3

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Jan 18-20 Vacation

Week 2

- 200105 - Core Navigation Data - MDUC
 - Created complete set of edited.txt ROV nav files organized by dive
 - Met with Lonny & Linda to discuss next steps in the nav editing project
- 200109 - Core Mooring Data - MDUC
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
 - Provided input the data workflow documentation that Megan is writing
- 901009 - CANON
 - Switched to more reliable server for the ESRI Ocean Basemap in STOQS
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Implemented flash counts in the Python translation of Monique's proxy code in auv-python
- 901915 - Improving MBARI Data Impact
- Overhead
- Out of Office
 - Jan 18-20 Vacation

Week 1

- 200105 - Core Navigation Data - MDUC
- 200109 - Core Mooring Data - MDUC
 - Trying to upgrade Hyrax on elvis to the hyrax-docker 1.16 version
- 300078 - DMO Divisional Support - AUV
- 300083 - DMO Divisional Support - LRAUV
- 500055 - VARS, M3/RS, DSG
- 901009 - CANON
 - Experimented with HDF5/NetCDF module for serving in64 data types
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Begin implementing Monique's proxy calculations in auv-python
 - Using Holoviews datashader for proxy visualization
- 901915 - Improving MBARI Data Impact

- Overhead
- Out of Office